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Assessment Report on the 2016 Viper Exploration Programs
Viper Project

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McBean Lake Area Township

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1.0 Summary

From May 16th, 2016 to June 21st, 2016, GGM Employees cut 19.82km worth of lines on the southern portion of the property, surrounding Milbean Lake. The grid lines are spaced 300m apart with stations every 25m. The grid was surveyed using a Trimble R8 GNSS system. Continual trail upgrade on the property was done for access to the grid lines, and for the prospecting.

88 samples (38 humus, 27 B horizon, and 23 C horizon) were collected between June 29th and July 4, 2016, along the IP grid lines. Samples were collected along line L0, L300, L900 and L1200 from 0S to 900N at 100m spacing. All horizons carry anomalous values of gold in the vicinity of 3 mineralized SK97 holes (Cyprus Canada drill holes, 1997). Gold and arsenic values in humus samples have the most variability and mimic the anomalous pattern observed in Cyprus humus sample data.

Prospecting and reconnaissance mapping along the IP grid lines was performed between May 30th and August 2nd. 47 grab samples were collected and sent for assay. No values greater than 31 ppb were encountered.

Abitibi Geophysics performed an IP survey on the grid that was cut by GGM employees, in the previous month. This survey was designed to identify areas associated with gold mineralization and future exploration targets. The location of this grid overlaps with a previous MAG-GPS survey that Abitibi Geophysics completed for the company in 2015. A total of 11 chargeability sources were interpreted (VP-01 to VP-11). The most interesting resistivity response observed was a low associated with chargeable source VP-10, and is comparable to a graphitic or massive sulphide zone. The northeast corner of the grid is dominated by low resistivity values indicating a thick overburden cover. Many of the anomalies were associated with elevated resistivity values, indicating a silicified host rock or environment. The chargeability sources observed are trending between 90° and 110°.

Relogging of the SK97 drillholes recognized an association between mineralization and alteration and magnetic susceptibility. A total of 1851m of core was recovered for SK97-01 to SK97-11. 955m of core was historically cut. The remaining 855.88 meters of core was previously unsampled. In 2016 the historically unsampled core was sampled to determine if there were any missing gold intercepts.

A mineralized unit intersected by SK97-04, 09 & 10 consists of bands of approximately 7% arsenopyrite, pyrrhotite and pyrite hosted by a strongly biotite altered schist with 5-10% silicified quartz-carbonate veinlets. Narrow cataclastic faults locally with associated quartz-carbonate veining were observed at the upper and lower contacts of the biotite schist. The mineralized zone is associated with an increase in magnetic susceptibility due to magnetite alteration and the presence of increased pyrrhotite. Strong alteration throughout made determining protolith difficult for both generations of logging. The sampling program did not return any economical values of gold.

2.0 Introduction

Greenstone Gold Mines does not have any further work planned at the Viper Property for 2016 at the current date. This report covers the exploration activities that occurred on the property from May 6th, 2016 to August 2nd, 2016. The exploration activities conducted on the property by Greenstone Gold Mines include line-cutting, soil sampling, geological mapping, re-logging and sampling of historic Cyprus Canada Resources drill core, and a geophysical survey. All exploration activities are covered under MNDM Exploration Plan PL-16-10607

Line-cutting on the property took place in the months of May and June, 2016 in preparation for the IP survey being completed by Abitibi Geophysics. 19.82km of line were cut by GGM employees.

88 soil samples were taken and assayed during the soil sampling program conducted at the end of June and beginning of July, 2016. All soil samples were assayed at ALS Minerals in Thunder Bay, Ontario. Geological mapping and prospecting was performed along the IP survey lines from May 30th, 2016, until August 2nd, 2016. 47 grab samples were sent out for assaying at Activation Laboratories in Geraldton, Ontario.

A geophysical IP survey was done on the 19.82km of cut lines. The survey was conducted on north-south lines in the southern portion of the property surrounding Milbean Lake. The lines were spaced 300m apart east-west and the survey stations were 25m apart on each line. The IP survey was conducted near the end of June, 2016, until early July, 2016, by Abitibi Geophysics.

Between June 11th and June 24th, 2016, a re-logging and sampling program of diamond drill core, drilled by Cyprus Canada in 1997, was done. This 1997 drilling program was to test geophysical anomalies on the property from a previous survey Cyprus Canada performed. The core was stored north of McBean Lake on the property. The drill core hosts gold mineralization, and is a valuable resource to understanding the geology of the Viper property.

All coordinates are in UTM, NAD 83, Zone 16N.

3.0 Property Description, Access, Climate and Physiography

Greenstone Gold Mine GP Inc.'s Viper Property is a contiguous block of 18 mining claims plus claim TB 3018075 (see Table 1 for claim summary data; see Figure 2 for property claim map). The property covers a total approximate area of 3,543 hectares and is located in the McBean Lake Area Township. The Property is not subject to any royalties and is 100% owned by Greenstone Gold Mines GP Inc.

The property is situated in the Thunder Bay Mining Division of Ontario, with all claims located on the NTS sheets 42 E/10 and 42 E/11. The property is located approximately 300 kilometres northeast of the city of Thunder Bay, Ontario and approximately 11 kilometres south of the town of Longlac (Figure 1). The city of Thunder Bay has a population of 110,000 and provides support services, equipment and skilled labour for both the mineral exploration and mining industry. Rail, national highway, port and international airport services are also available out of Thunder Bay. The town of Longlac has a population of approximately 1,388 (as of 2011) and can provide basic support services such as food and lodging.

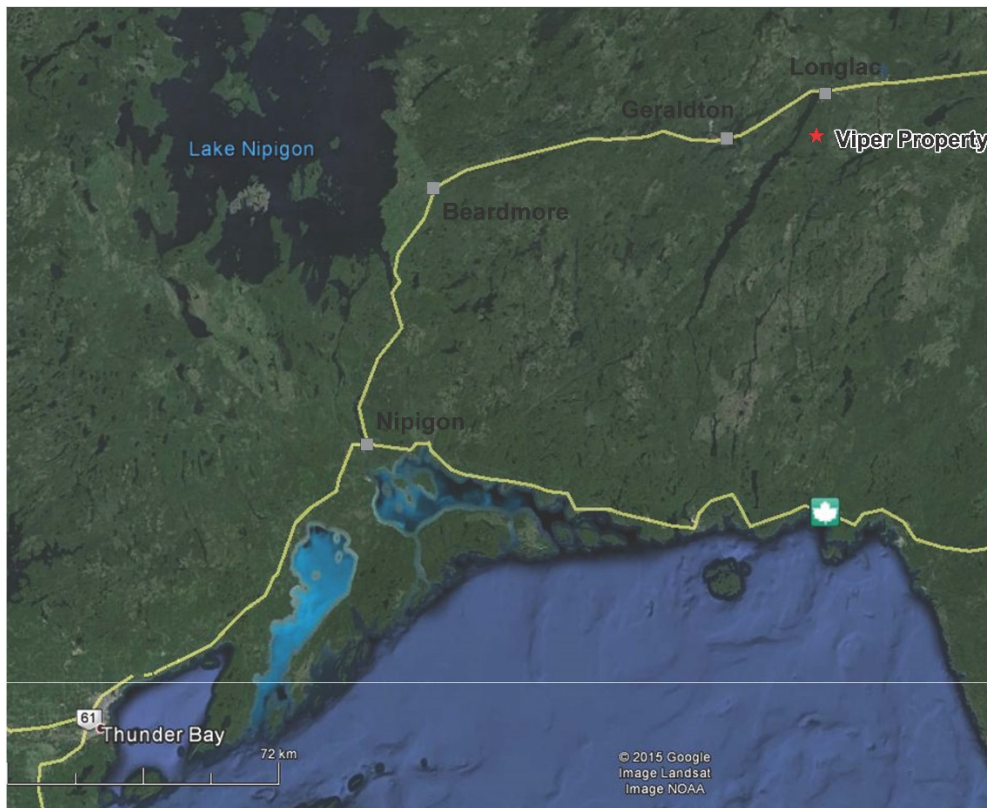


Figure 1 Location of the Viper Property.

From Thunder Bay, the property can be reached by travelling east on Trans-Canada Highway 11/17 until one reaches the town of Nipigon and then north along Trans-Canada Highway 11. The property can be accessed by travelling south on the Catlonite gravel road for 11 kilometres south of Longlac. The property is accessible year round from the Catlonite road, which crosses the property from north to south. The remainder of the Property can be easily accessed by four-wheel drive vehicles via

numerous logging/bush roads that branch off of the paved highway. Those areas of the property that are not serviced by roads can be accessed by ATV, on foot or by boat in the summer and by snowmobile during the winter months.

The topography of the area is relatively flat with some gently rolling hills. Local relief ranges up to 20 metres and that is largely due to glacial deposits that cover the bedrock. Lower lying areas are characterized by swamps and ponds with overall drainage in the area being poor. The largest Lake near the Property is Long Lake, which is located west of the Property.

Vegetation in the area is dominated by coniferous trees, with the most common tree species being black spruce, tamarack and cedar. There are local stands of birch, jack pine, and poplar in areas with better drainage, such as eskers and moraines.

Climate in the area is typical of northern Ontario with temperatures ranging from a maximum of 40° Celsius in the summer to lows of -50° Celsius in the winter months. The mean annual rainfall is recorded at 546.4 millimeters and the mean annual snowfall is 244.5 centimeters (based on statistics gathered at the weather station in Geraldton). Weather conditions do not seriously hinder exploration and mining activities on the property, but adjustments on the type of work performed are subject to season variations, such as, geological mapping in the summer months and drilling in the winter months on frozen lakes.

Table 1 Viper Property Mining Claims.

Township	Type of Claim	Claim	Expiry Date	Work Required
McBean Lake Area	Unpatented Mining Claim	TB 3018076	2016-Nov-14	\$3,200
McBean Lake Area	Unpatented Mining Claim	TB 3018077	2016-Nov-14	\$6,000
McBean Lake Area	Unpatented Mining Claim	TB 3018079	2016-Nov-14	\$2,800
McBean Lake Area	Unpatented Mining Claim	TB 4261567	2016-Nov-01	\$6,400
McBean Lake Area	Unpatented Mining Claim	TB 4261568	2016-Nov-01	\$6,400
McBean Lake Area	Unpatented Mining Claim	TB 4261569	2016-Nov-01	\$6,400
McBean Lake Area	Unpatented Mining Claim	TB 4261570	2016-Nov-01	\$6,000
McBean Lake Area	Unpatented Mining Claim	TB 4261571	2016-Nov-01	\$6,400
McBean Lake Area	Unpatented Mining Claim	TB 4261572	2016-Nov-01	\$4,000
McBean Lake Area	Unpatented Mining Claim	TB 4261573	2016-Nov-01	\$6,000
McBean Lake Area	Unpatented Mining Claim	TB 4261574	2016-Nov-01	\$6,400
McBean Lake Area	Unpatented Mining Claim	TB 4261575	2016-Nov-01	\$4,800
McBean Lake Area	Unpatented Mining Claim	TB 4261576	2016-Nov-01	\$6,000
McBean Lake Area	Unpatented Mining Claim	TB 4261577	2016-Nov-01	\$1,600
McBean Lake Area	Unpatented Mining Claim	TB 4261578	2016-Nov-01	\$3,200
McBean Lake Area	Unpatented Mining Claim	TB 4261579	2017-May-01	\$3,600
McBean Lake Area	Unpatented Mining Claim	TB 4261580	2017-May-01	\$2,400
McBean Lake Area	Unpatented Mining Claim	TB 4261581	2017-May-01	\$1,600
McBean Lake Area	Unpatented Mining Claim	TB 3018075	2017-Oct-19	\$3,200

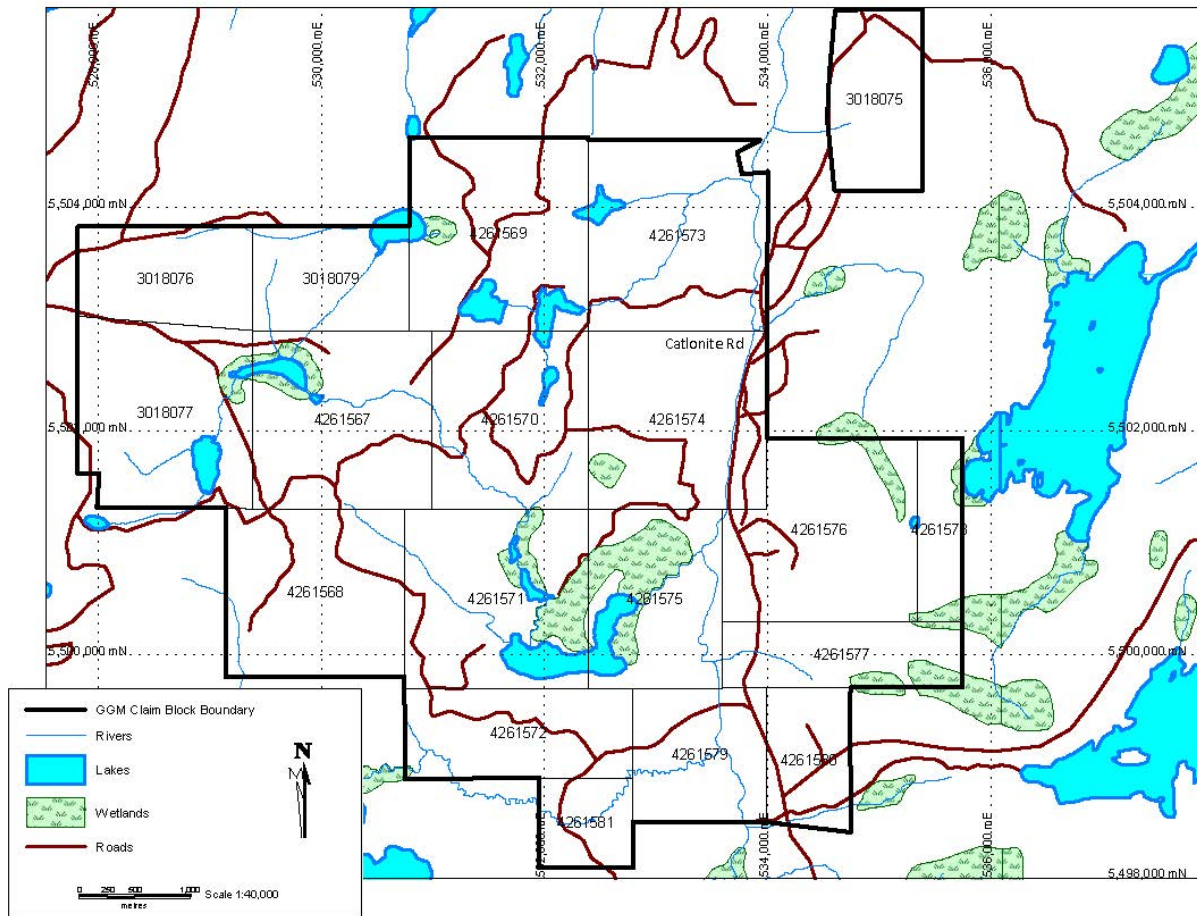


Figure 2 Viper Property Claim Package.

4.0 Geological Setting

4.1 Regional Geology

The following has been taken from the Hardrock Property 2010 NI 43-101 Report completed by Reddick Consulting Inc. (T.Armstrong, M. Srivastava, and J. Reddick, 2010);

The Viper Property is in the Beardmore-Geraldton greenstone belt and it contains several narrow, east-west striking sequences of volcanic and sedimentary rocks of Archean age. The southern edges of these sequences are spatially related to the through-going, major structural discontinuities thought to be thrust faults that have imbricated the sedimentary sequences. A good description of the regional geology can be found in Smyk et al., 2005.

In the immediate Viper area, the dominant rock types are clastic sediments (greywackes), oxide facies iron formations (BIF), large massive felsic porphyry units, minor mafic meta-volcanic and meta-intrusives, and very late cross cutting diabase dykes.

In addition to the belt scale and local faulting, there has been locally intense ductile deformation of the rocks in the Longlac area which is manifested as tight to almost isoclinal, generally upright, polyharmonic folding of major lithologic units, penetrative deformation, folding and boudinage of veins, lithographic units and local transposition of primary contacts.

The following was taken from the Report on a Geological Survey of Claim 1246091 McBean Lake Area, Thunder Bay Division, May 2003: Gold mineralization located nearby at the former producing Theresa Mine occurs in at the contact of a relatively small diorite plug and a group of mafic and acid volcanic rocks. The plug was described as a quartz diorite and porphyritic granodiorite. Several series of shears of various attitudes are known to have developed near the margin of the diorite plug. Several pulses of quartz were injected along these shears forming quartz veins and lenses. There is very little wall rock alteration associated with the gold mineralization. The gold occurs as free gold in some of the quartz veins and lenses of the mine and at surface showings at the peripheral shafts. Associated minerals, where found, are tourmaline, chlorite, and occasionally sulphides, mainly pyrite, chalcopyrite, and pyrrhotite. Gold grains, which vary from coarse to non-visible, are occasionally arranged in clusters whose distribution is very erratic. Throughout the mine and on surface, mineralization lacked continuity.

Gold mineralization, in the same sequence of rocks that are found at the Viper Property, occurs just south of Geraldton at the Hardrock Property. Gold mineralization in the Hard Rock, MacLeod-Cockshutt, Mosher Mines and the Little Long Lac Mine generally occurs in association with subvertical structures associated with quartz veins or stringers, minor to semi-massive sulphides (associated with replacement zones in BIF), weak to moderate carbonate and weak to strong sericite alteration. The ore zones rake shallowly towards the west in the vicinity of the Hard Rock, MacLeod-Cockshutt and Mosher Mines (15-30° W) and slightly more steeply towards the west at the Little Long Lac Mines (50-60° W), indicative of a strong structural control that post-dates the tight folding of the primary lithological units.

The gold mineralization occurs in variety of host rocks and the style of mineralization is partly a function of the host rock. While the location and overall orientation of the ore bodies appear to have been largely structurally controlled, the deformation of the ore bodies has not been as intense as that of the host rocks. Nevertheless, there are areas where local folding and boundinage of mineralized veins is apparent. Additionally, there are strong secondary controls that influence the extent and intensity of gold mineralization such as the competency contrast between host rocks (e.g. the Hard Rock Porphyry and its contacts with either wacke or BIF) and the chemical character of the host rocks (e.g. oxide facies BIF being replaced by sulphides).

4.2 Property Geology

The Viper Property resides in a location of the Beardmore-Geraldton Greenstone Belt where the Central Meta-Volcanic Unit and the Southern Meta-Sedimentary Unit are strong folded together. This folding pattern closely resembles the same refolding that is found in the Hardrock Property area.

The central meta-volcanic unit is comprised of massive and pillowed basalts and andesite with mid-ocean ridge basalt geochemical affinity, interlayered with thin sedimentary and tuffaceous beds. The central meta-volcanic unit differs from the southern meta-volcanic unit by thicker deposits of pyroclastic rocks and an abundance of large amygdules in the flow rocks, suggesting shallow-water or

subaerial volcanism (Kresz and Zayachivsky 1991). The majority of the flow rocks are andesites and dacites of calc-alkaline affinity with trace and rare-earth element patterns suggesting deposition in an emergent volcanic arc above a subduction zone (Tomlinson et al. 1996). There are also numerous young diabase dykes running roughly north-south crosscutting all other rocks.

The southern meta-sedimentary unit is comprised of clastic and chemical sedimentary rocks. Polymictic conglomerate occurs as thin horizons (<5m) within a thick sequence of thinly to thickly bedded feldspathic sandstone interlayered with thinly bedded siltstone and argillite. Banded iron formation, a minor component of the unit, occurs as fine magnetite-rich laminae and jasper-hematite beds within 3-30m thick horizons interlayered with thinly bedded green argillite, siltstone and sandstone. In the middle of the folded southern meta-sedimentary unit there is a large felsic porphyry plug. The felsic porphyry body is folded and is only slightly younger than the surrounding clastic meta-sediments. A map showing the property geology can be seen in Figure 3.

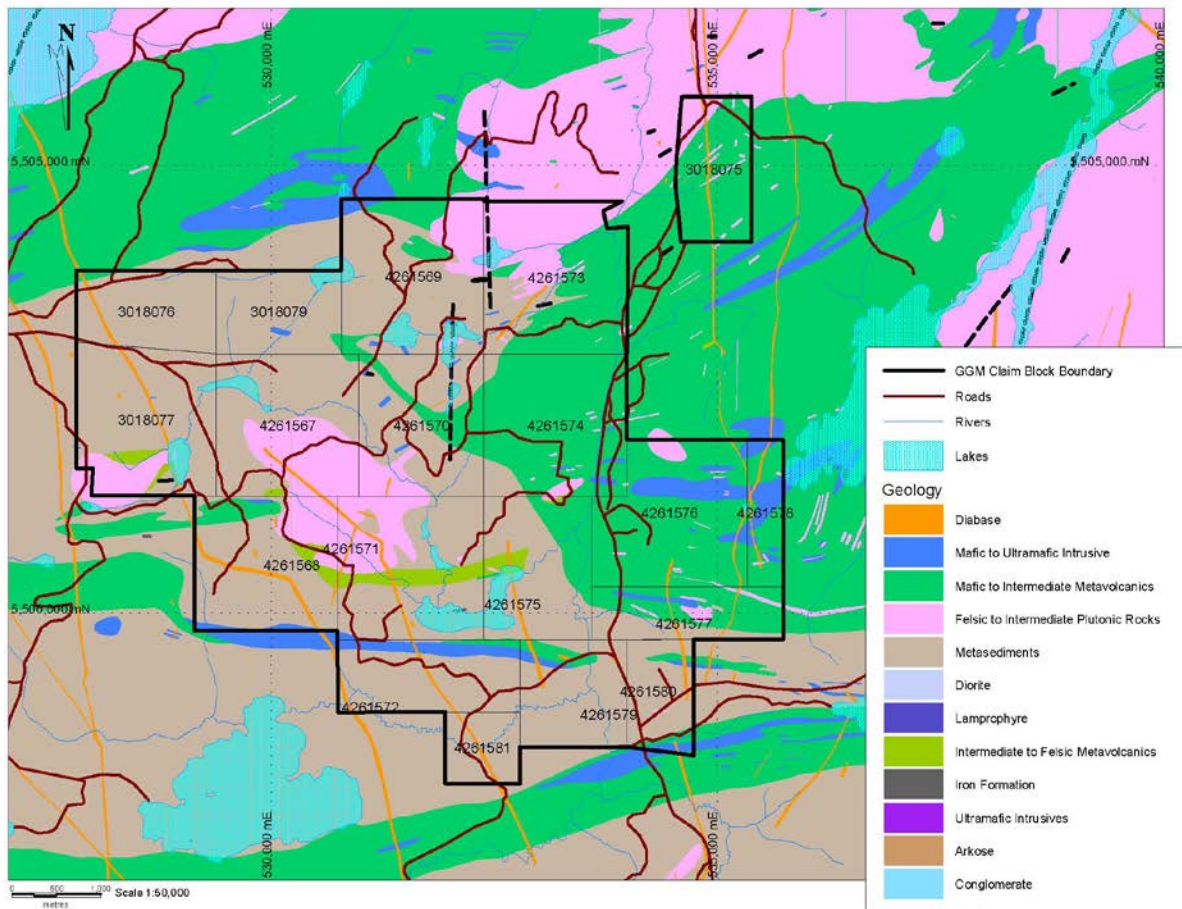


Figure 3 Geology of the Viper Property.

5.0 2016 Exploration Programs

5.1 Line Cutting and Trail Upgrades

From May 16th, 2016 to June 21st, 2016, GGM Employees cut 19.82km worth of lines on the southern portion of the property, surrounding Milbean Lake. The grid lines are spaced 300m apart with stations picketed every 25m intervals (Figure 4). The line cutting was done with two crews of two workers. After the grid was cut, a GGM employee went in and surveyed all of the pickets using the Trimble R8 GNSS system at approximately \$150/km (Refer to Appendix C for the station coordinates; Refer to section 5.4.1 for costs).

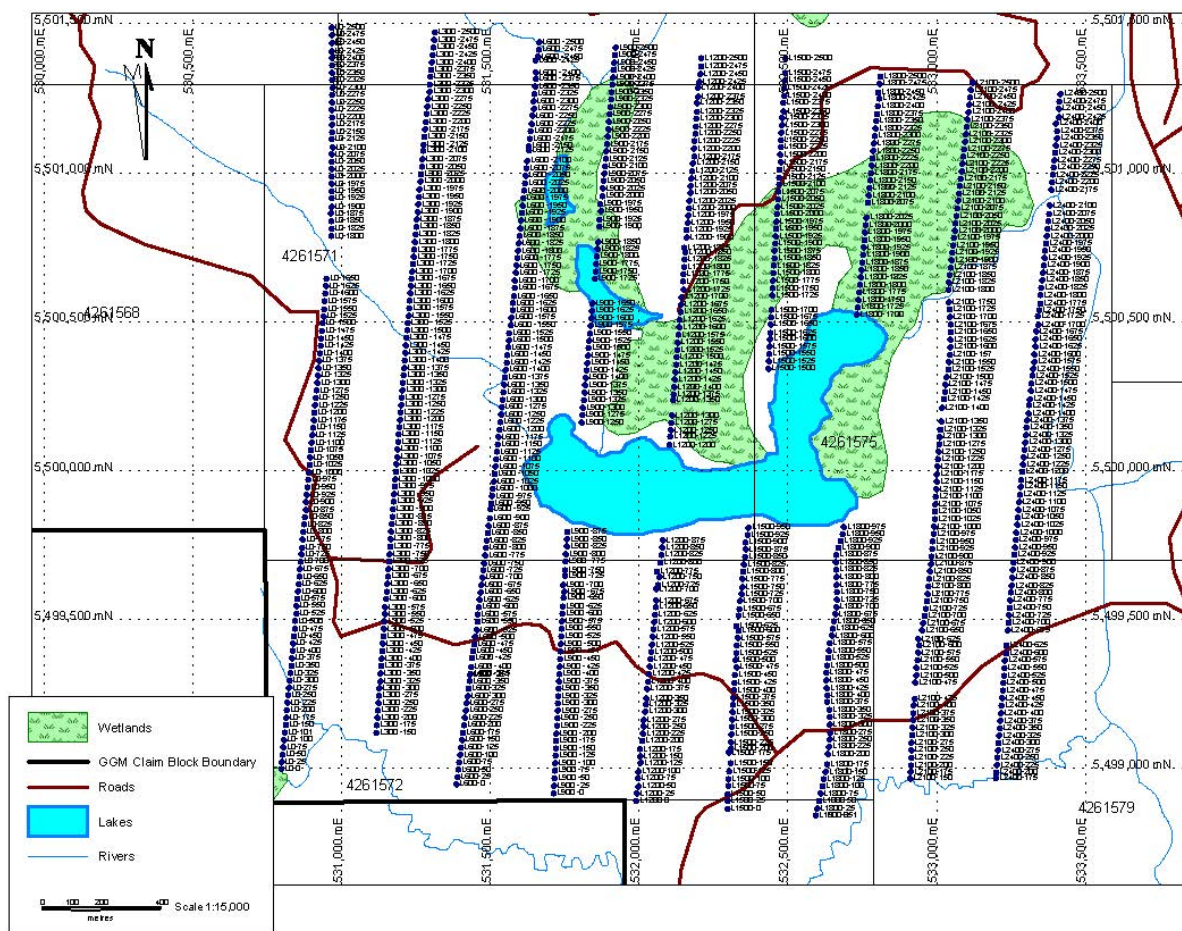


Figure 4 2016 Cut and picketed lines for IP survey.

The equipment used for the grid line cutting and picketing includes: chainsaw, chaining, axes, and handheld GPS units.

Continual trail upgrade on the property was done for access to the grid lines, and for the prospecting program (Figure 5). The use of chainsaws, brush saws, and UTV's were needed for this.

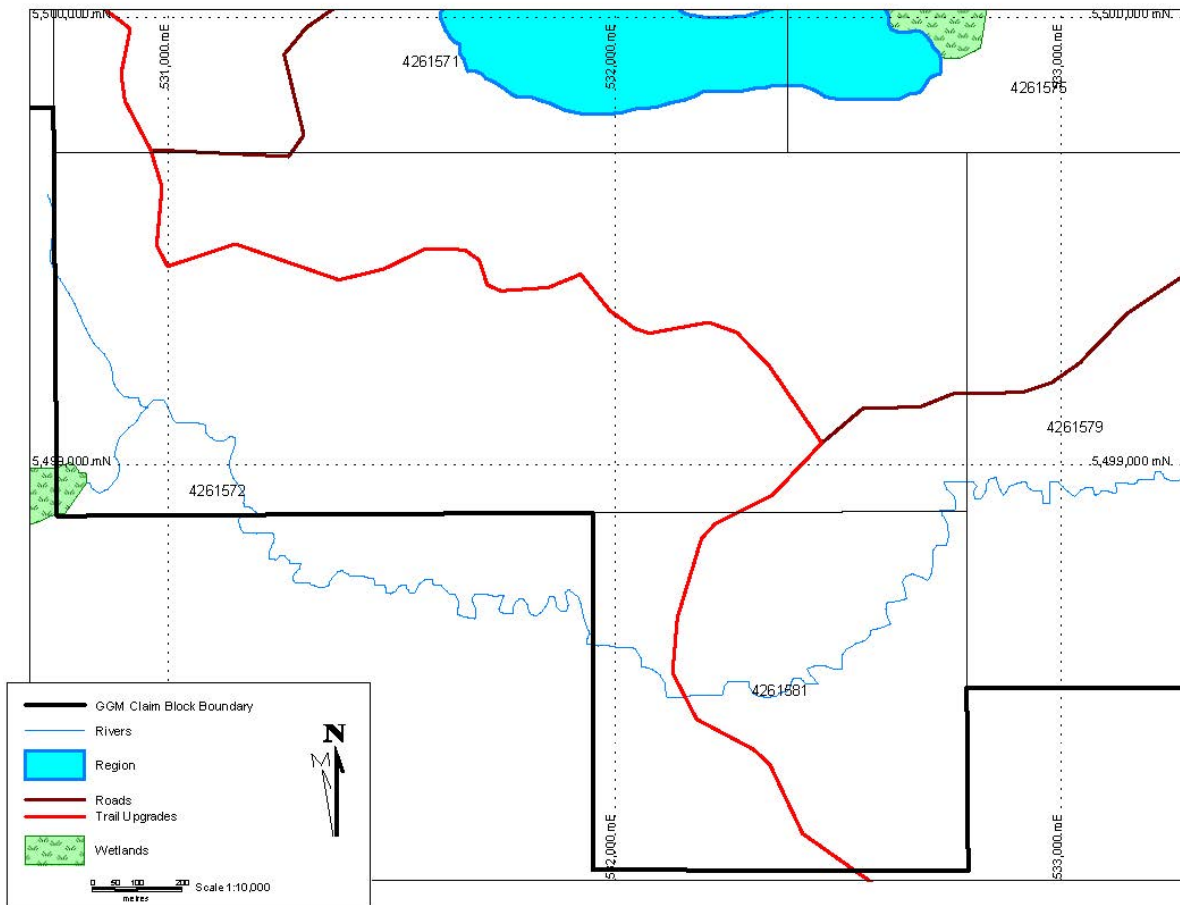


Figure 5 Viper trail upgrade.

5.2 Humus, Soil and Till Sampling

From June 29th, 2016 to July 4th, 2016, a total of 88 samples were collected on the property by a GGM geologist and geotechnician (38 humus (A horizon), 27 B horizon and 23 C horizon (till) samples). The sampling was conducted along the 2016 cut lines near Milbean Lake (Figure 6; see Appendix B for soil horizon sample maps). The orientation soil sample survey was initiated in order to determine the nature of the Quaternary deposits and to determine if drift prospecting is an effective tool for detecting gold mineralization in this area. An orientation survey was needed because of the large variation in historical gold-in-soil results. The southern half of four of the IP lines have been chosen to test and compare medium (A, B or C horizon) and analytical techniques. Samples were collected at 100m spacing along line L0, L300, L900 and L1200 from 0S to 900N.

Table 2 Claim data for soil samples

Line #	Claim #	# of Samples
00E	4261572	13
00E	4261571	9
300E	4261572	16
300E	4261571	6
900E	4261572	12
900E	4261571	4
1200E	4261572	24
1200E	4261571	4
		88

Claim Number	Total # of Samples
4261571	23
4261572	65
Total	88

Dutch augers were used for collecting the samples. Three different types of samples were taken where available, a humus, a soil, and till. Where present C horizon samples will be collected regardless of whether they are till or glacial lacustrine deposits. Sample station locations are UTM Zone 16, NAD83 coordinates. In the field, an effort was made to collect a sample at each planned station however, the actual location is determined by the geologist.

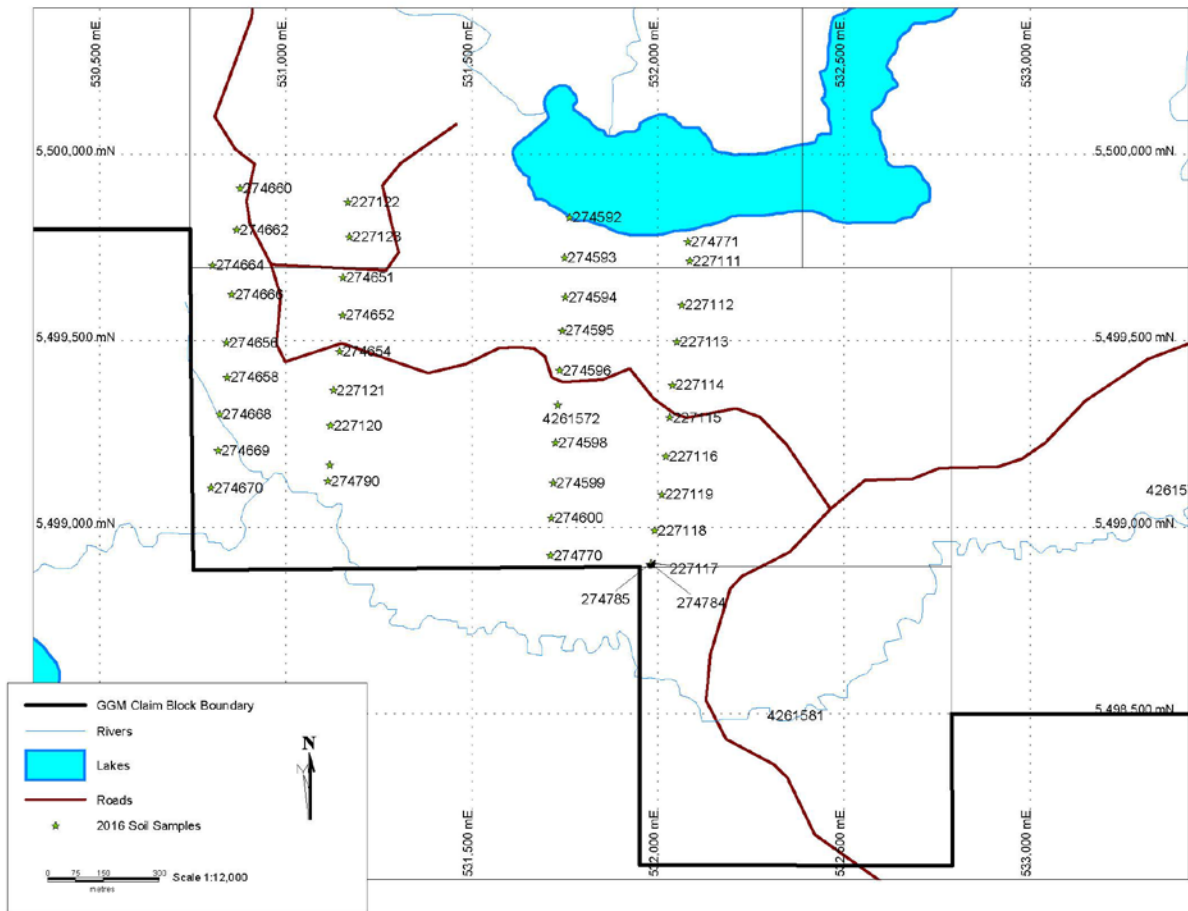


Figure 6 2016 Soil Sample Locations (Refer to Appendix B for individual soil horizon maps).

All of the samples were sent to ALS Minerals in Thunder Bay, Ontario. The analysis that was done was based on the sample type:

A horizon (Humus) Sample Collection Methods: Approximately 0.5 kg of A horizon (black, organic material) is placed in a kraft sample bag

B horizon Sample Collection Methods: Approximately 0.5 kg of B horizon material is placed in a paper kraft sample bag

C horizon / Till Sample methods: approximately 1 kg of till in 11x16 plastic sample bag. The till excavated from the lower part of the pit will be roughly hand screened on site at 8 mm to remove most of the large clasts.

For all samples, the following information was collected (refer to Appendix C for field notes):

- Project
- Sample Date
- Station ID (local Grid Coord)
- UTM Coordinate

Sample No
Sample Type/Medium
Sample Site Type
Sample Depth
Colour
Sample Texture
Clast Comments

5.2.1 Sample Preparation and Analysis

A, B horizon and till samples are being sent to ALS Minerals in Thunder Bay for prep and then will be forward to ALS Vancouver for analysis. No QAQC was done.

samples were: sieved to -180 micron (80 mesh), with both fractions retained. A Super Trace package (Au+ Multi Element) (ALS Code: AuME+ST44) uses aqua regia digestion with ICP_MS finish on a 50g subsample for both the Au and trace element geochemistry.

B samples were: sieved to -180 micron (80 mesh), with both fractions retained. A Super Trace package (Au+ Multi Element) (ALS Code: AuME+ST44) uses aqua regia digestion with ICP_MS finish on a 50g subsample for both the Au and trace element geochemistry.

Till Samples have: a 250 g split taken and pulverized to better than 85% passing minus 75 micron. A Super Trace package (Au+ Multi Element) (ALS Code: AuME+ST44) uses aqua regia digestion with ICP_MS finish on a 50g subsample for both the Au and trace element geochemistry.

Refer to Appendix A for assay certificates.

5.3 Prospecting

Prospecting of the Viper property in 2016 was carried out by a GGM geologist and a geotechnician between May 30th and August 2nd. Prospecting was predominantly done along the lines that were cut for the IP survey in the southern part of the property. In the eastern part of the property, prospecting was done along the Catlonite Rd and existing roads and trails (Figure 7).

During this prospecting program, 47 grab samples were collected (Figure 7; See Appendix C for field notes), and sent out for analysis. All grab samples were sent to Activation Laboratories. The analysis used for the samples were Fire Assay (1A2-50), Aqua Regia ICP (1E3) and Total Digestion ICP (1F2). Fire Assay was done in Geraldton, Ontario, and ICP was done in Thunder Bay, Ontario. See Appendix A for assay certificates.

Aqua Regia ICP: (ActLabs Code: 1E3) 0.5g of sample is digested with aqua regia at 95°C for two hours, cooled, then diluted with deionized water. The samples are analyzed using an Agilent 700 series ICP for the 38 element suite.

Total Digestion ICP: (ActLabs Code: 1F2) 0.25g of sample is digested with four acids beginning with hydrofluoric, followed by a mix of nitric and perchloric acids. This is heated using precise heating in several ramping and holding cycles which dries out the samples. After incipient dryness is attained, samples are brought back into solution using aqua regia. The samples are then analyzed using an Agilent 735 ICP.

5.4 IP Survey

From June 22 to July 3, 2016, Abitibi Geophysics performed an induced polarization survey, on the 2016 cut lines surrounding Milbean Lake in the southern portion of the Viper property (Figure 9). The objectives of this survey was to identify zones amenable to gold mineralization and to identify targets for further exploration. The survey grid consisted of 9 lines spaced 300m apart with the stations at 50m intervals. The location of this IP survey partially overlaps with a MAG-GPS grid completed by the contractor in 2015 (Figure 10). The instruments that the contractor used are the *Iris Instruments TIPIX* for the IP transmitter and the *Iris Elrec-PRO* for the IP receiver. The type of survey configuration that was performed was time domain resistivity/induced polarization dipole-dipole array (Figure 8):

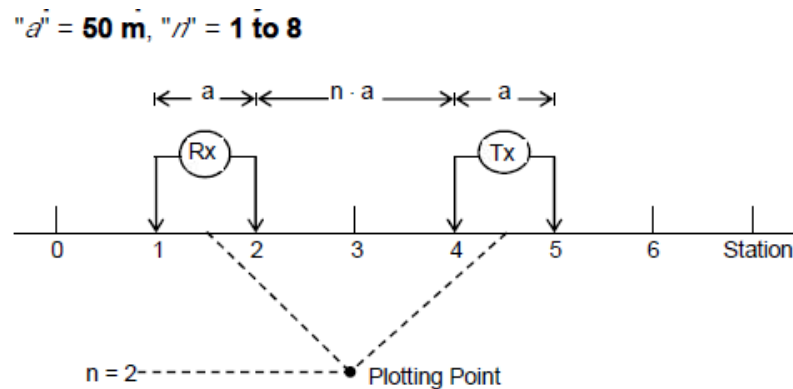


Figure 8 The dipole-dipole array

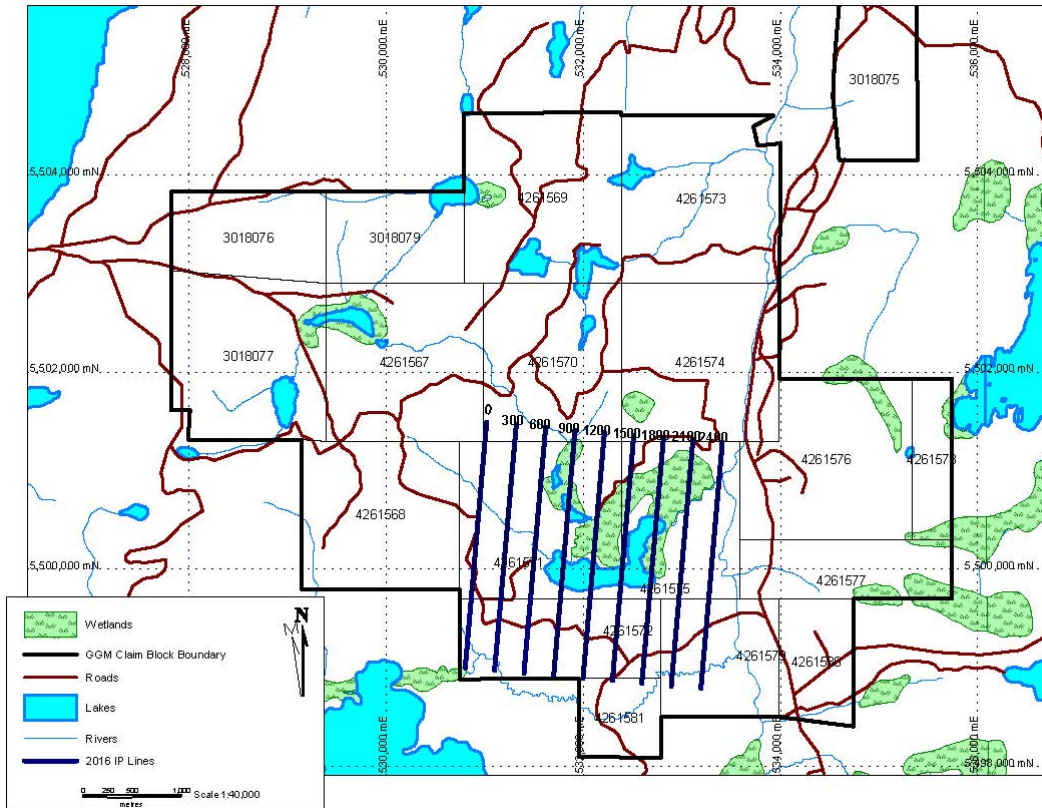


Figure 9 2016 IP survey grid.

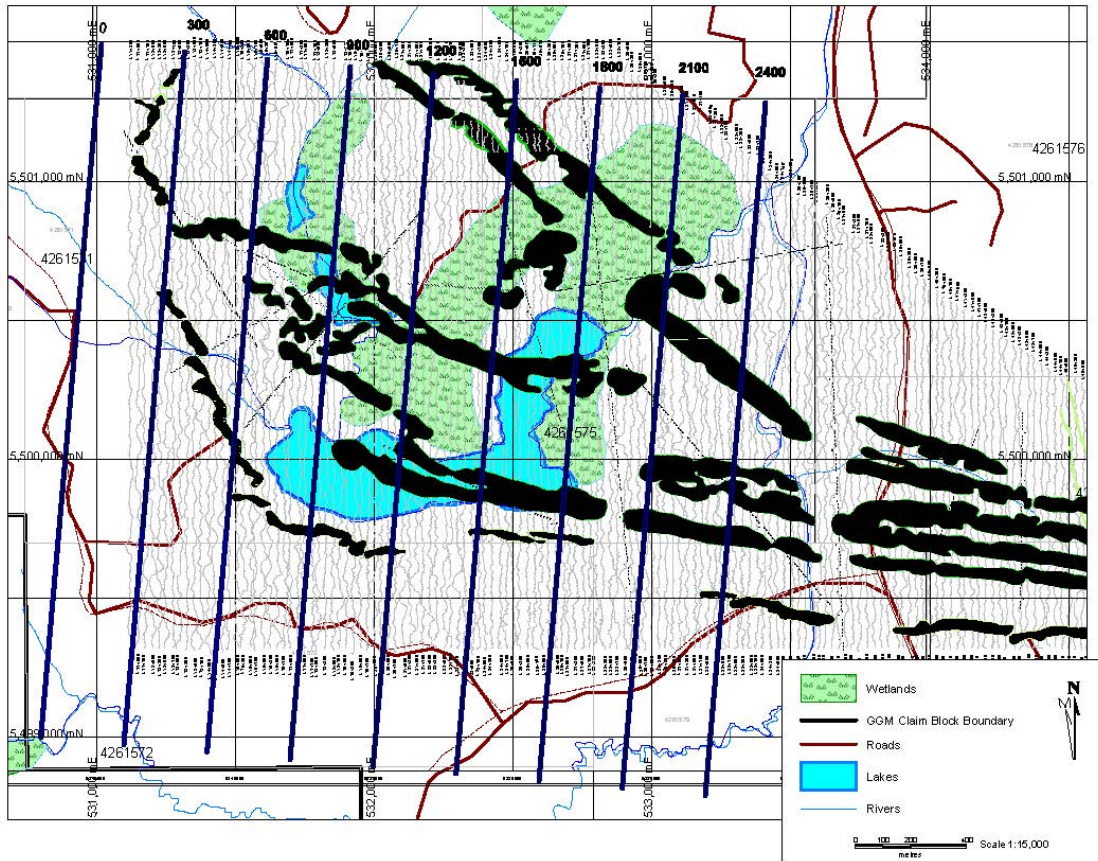


Figure 10 2016 IP survey lines overlaying the 2015 ground magnetic survey.

See Appendix D for the full report and pseudosections.

The QAQC methods that the contractor used were as follows:

Prior to Survey: Transmitter and motor generator were checked for maximum output using calibrated loads. The receiver was checked using the Abitibi Geophysics SIMP certified and calibrated V_p & M signal simulator.

During Survey: Rx and Tx cable insulation was verified every morning. Proprietary Software Refusilo allowed for a daily thorough monitoring of data quality and survey efficiency. Enough pulses were stacked: 6 pulses for every reading.

At the Base of Operations: Field QC's were inspected and validated. Each IP decay curve was analyzed with Refusilo.

5.4.1 Work dispersion over individual claims

The work conducted for the completion of the IP survey included the line cutting and picketing, and the IP surveying. Expenditures associated with the work is applied as a cost per kilometer. The total cost was \$68,480.62. The distribution of expenditure is outlined in the tables below:

L0				
Claim #	Line Length (m)	Line Cutting Cost ~ \$1000/km	IP Survey Costs ~ \$2205/km	Line Survey RTK ~ \$250/km
4261572	698	\$ 698.00	\$ 1,539.12	\$ 174.50
4261571	1460.3	\$ 1,460.30	\$ 3,220.02	\$ 365.08
4261567	194.4	\$ 194.40	\$ 428.66	\$ 48.60
Total Length	2352.7	\$ 2,352.70	\$ 5,187.80	\$ 588.18
Grand Total				\$ 8,128.67

L300				
Claim #	Line Length (m)	Line Cutting Cost ~ \$1000/km	IP Survey Costs ~ \$2205/km	Line Survey RTK ~ \$250/km
4261572	576	\$ 576.00	\$ 1,270.10	\$ 144.00
4261571	1607	\$ 1,607.00	\$ 3,543.50	\$ 401.75
4261570	176.1	\$ 176.10	\$ 388.31	\$ 44.03
Total Length	2359.1	\$ 2,359.10	\$ 5,201.91	\$ 589.78
Grand Total				\$ 8,150.78

L600				
Claim #	Line Length (m)	Line Cutting Cost ~ \$1000/km	IP Survey Costs ~ \$2205/km	Line Survey RTK ~ \$250/km
4261572	752.4	\$ 752.40	\$ 1,659.07	\$ 188.10
4261571	1609	\$ 1,609.00	\$ 3,547.91	\$ 402.25
4261570	152.6	\$ 152.60	\$ 336.49	\$ 38.15
Total Length	2514	\$ 2,514.00	\$ 5,543.47	\$ 628.50
Grand Total				\$ 8,685.97

L900				
Claim #	Line Length (m)	Line Cutting Cost ~ \$1000/km	IP Survey Costs ~ \$2205/km	Line Survey RTK ~ \$250/km
4261572	779	\$ 779.00	\$ 1,717.73	\$ 194.75
4261571	1054.2	\$ 1,054.20	\$ 2,324.55	\$ 263.55
4261570	125.4	\$ 125.40	\$ 276.51	\$ 31.35
Total Length	1958.6	\$ 1,958.60	\$ 4,318.79	\$ 489.65
Grand Total				\$ 6,767.04

L1200				
Claim #	Line Length (m)	Line Cutting Cost ~ \$1000/km	IP Survey Costs ~ \$2205/km	Line Survey RTK ~ \$250/km
4261572	812.6	\$ 812.60	\$ 1,791.82	\$ 203.15
4261571	1285	\$ 1,285.00	\$ 2,833.48	\$ 321.25
4261570	91.2	\$ 91.20	\$ 201.10	\$ 22.80
Total Length	2188.8	\$ 2,188.80	\$ 4,826.39	\$ 547.20
Grand Total				\$ 7,562.39

L1500				
Claim #	Line Length (m)	Line Cutting Cost ~ \$1000/km	IP Survey Costs ~ \$2205/km	Line Survey RTK ~ \$250/km
4261581	26.7	\$ 26.70	\$ 58.87	\$ 6.68
4261572	810.2	\$ 810.20	\$ 1,786.52	\$ 202.55
4261571	116.5	\$ 116.50	\$ 256.89	\$ 29.13
4261575	954	\$ 954.00	\$ 2,103.61	\$ 238.50
4261574	90.2	\$ 90.20	\$ 198.89	\$ 22.55
Total Length	1997.6	\$ 1,997.60	\$ 4,404.79	\$ 499.40
Grand Total				\$ 6,901.79

L1800				
Claim #	Line Length (m)	Line Cutting Cost ~ \$1000/km	IP Survey Costs ~ \$2205/km	Line Survey RTK ~ \$250/km
4261581	50.6	\$ 50.60	\$ 111.58	\$ 12.65
4261572	810.2	\$ 810.20	\$ 1,786.52	\$ 202.55
4261575	897.3	\$ 897.30	\$ 1,978.58	\$ 224.33
4261574	29.5	\$ 29.50	\$ 65.05	\$ 7.38
Total Length	1787.6	\$ 1,787.60	\$ 3,941.73	\$ 446.90
Grand Total				\$ 6,176.23

L2100				
Claim #	Line Length (m)	Line Cutting Cost ~ \$1000/km	IP Survey Costs ~ \$2205/km	Line Survey RTK ~ \$250/km
4261579	733.6	\$ 733.60	\$ 1,617.62	\$ 183.40
4261575	1608	\$ 1,608.00	\$ 3,545.70	\$ 402.00
4261574	8.3	\$ 8.30	\$ 18.30	\$ 2.08
Total Length	2349.9	\$ 2,349.90	\$ 5,181.62	\$ 587.48
Grand Total				\$ 8,119.00

L2400				
Claim #	Line Length (m)	Line Cutting Cost ~ \$1000/km	IP Survey Costs ~ \$2205/km	Line Survey RTK ~ \$250/km
4261579	729.2	\$ 729.20	\$ 1,607.92	\$ 182.30
4261575	1583	\$ 1,583.00	\$ 3,490.58	\$ 395.75
Total Length	2312.2	\$ 2,312.20	\$ 5,098.49	\$ 578.05
Grand Total				\$ 7,988.74

5.5 Historic Drill Core Relogging

In 1997, Cyprus Canada Inc. completed 11 diamond drill holes to test geophysical anomalies from a VLF/MAG/IP program that they conducted in the fall of 1996 and in the winter of 1997. Figure 11 shows the collar locations of the 11 SK97 drill holes that were re-logged and sampled. Table 3 outlines general drillhole information, as well as the original claim number the holes were drilled on, and the current claim number. SK97-11 was not drilled on the Viper property, but was re-logged and sampled to test any possible continuation of mineralization. The SK97 drill holes are a valuable resource to understand the geology at the property.

Table 3 1997 Cyprus Canada's SK97 drill hole information

Hole No.	Easting	Northing	Azimuth	Dip	Length	Core Size	Original Claim	Present Claim
SK97-01	531001	5502068	355	-45	182	BQ	1212976	4261570
SK97-02	531061	5501478	355	-45	157	BQ	1212977	4261570
SK97-03	531140	5500762	355	-45	158	BQ	1212977	4261571
SK97-04	531274	5499492	355	-45	173	BQ	1212978	4261572
SK97-05	529567	5501974	355	-45	182	BQ	1212984	4261567
SK97-06	532296	5500738	355	-45	170	BQ	1212977	4261571
SK97-07	534879	5500932	355	-45	155	BQ	1212972	4261576
SK97-08	535003	5499896	355	-45	179	BQ	1212973	4261577
SK97-09	531364	5499550	355	-45	161	BQ	1212978	4261572
SK97-10	531194	5499539	355	-45	134	BQ	1212978	4261572
SK97-11	530503	5499478	355	-45	200	BQ	1212978	4274598

The core, SK97-01 to SK97-11, was brought back to Greenstone Gold Mines exploration office to be re-logged, re-interpreted, and to sample the unsampled intervals. The core was originally stored north of McBean Lake and could only be accessed efficiently during the winter. The information captured during this exercise was more quantitative than the original drill logs (See Appendix E for original Cyprus Canada Inc. drill logs and current GGM drill logs). Table 4 outlines the lithology codes used for this re-logging program.

Table 4 GGM lithology codes

ROCK CODE	ROCKNAME
E1T4	Lapilli Tuff/Quartz feldspar porphyry
E2T	Quartz-feldspar-biotite schist/Tuff
I0E	Lamprophyre
I1	Mafic Intrusive
I1A	Gabbro
I3R	Quartz Feldspar Porphyry
I3S	Feldspar Porphyry
LC	Missing Core

M3D	Biotite Schist
M3H	Quartz-feldspar-biotite Schist
M3I	Quartz-feldspar Schist
M3J	Quartz-chlorite Schist
M3K	Amphibole-quartz-chlorite Schist
M3L	Quartz-feldspar-sericite schist
OB	Overburden
S3E	Greywacke

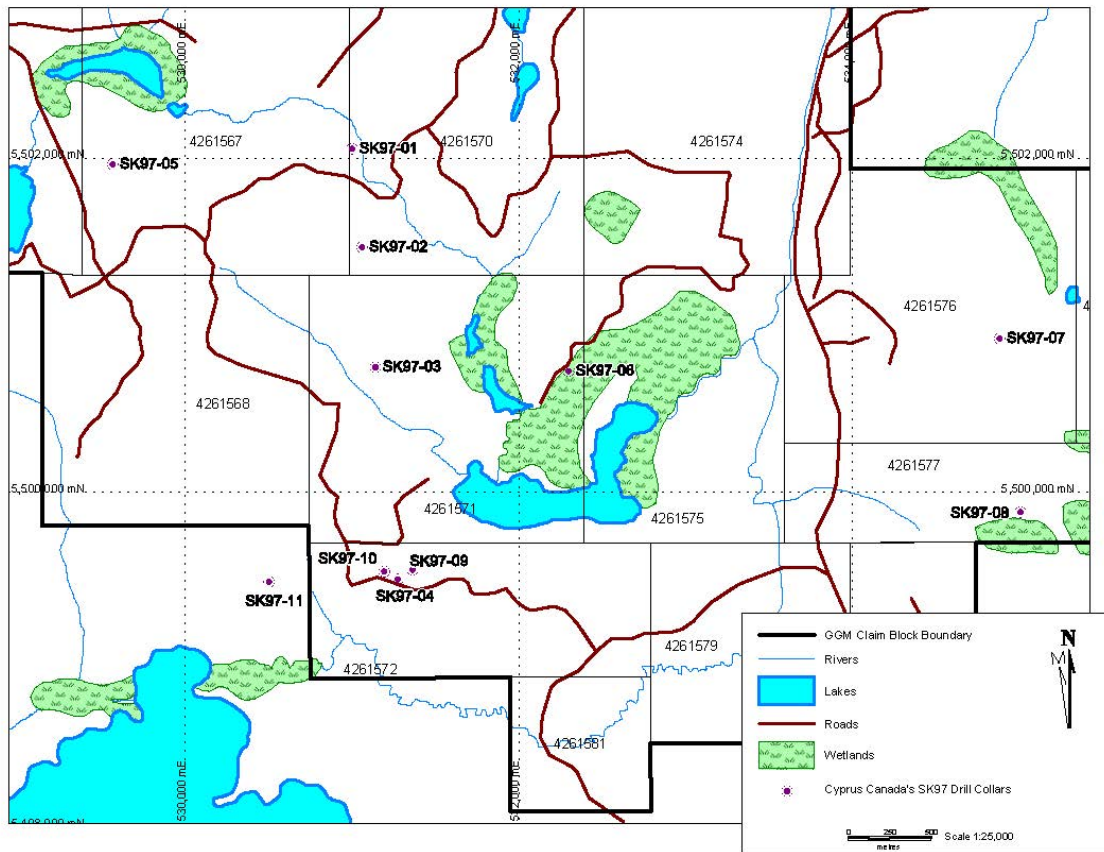


Figure 11 Collar location of the 1997 Cyprus SK97 drill holes

A total of 1677.39m of the drill core was recovered and re-logged by GGM employees. 855.88m was sampled equaling 621 samples, and 68 QAQC samples. A total of 688 samples were sent to Activation Laboratories for Fire Assay and ICP.

Fire Assay Samples: (ActLabs Code: 1A2-50) A 50g sample is used and mixed with fire assay fluxes and with silver (added as a collector). The mixture is preheated to 850°C, then to 950°C, and then to 1060°C to finish. This process lasts 60 minutes. The material is removed and the molten slag is poured into a mould, leaving a lead button at the base of the mould. The lead button is placed in a preheated cupel

which absorbs the lead at 950°C to recover the doré bead. The doré bead is dissolved using aqua regia and the gold content is determined by atomic absorption.

Aqua Regia ICP: (ActLabs Code: 1E3) 0.5g of sample is digested with aqua regia at 95°C for two hours, cooled, then diluted with deionized water. The samples are analyzed using an Agilent 700 series ICP for the 38 element suite.

Total Digestion ICP: (ActLabs Code: 1F2) 0.25g of sample is digested with four acids beginning with hydrofluoric, followed by a mix of nitric and perchloric acids. This is heated using precise heating in several ramping and holding cycles which dries out the samples. After incipient dryness is attained, samples are brought back into solution using aqua regia. The samples are then analyzed using an Agilent 735 ICP.

68 samples were sent as QAQC, as either blank material (landscaping rock) or standards. Three different standards were used, and were all from Canadian Resource Laboratories Ltd. Every 8-12 samples a QAQC sample was used. Table 5 outlines how many samples and how many QAQC there were per drill hole.

	SK97-01	SK97-02	SK97-03	SK97-04	SK97-05	SK97-06	SK97-07	SK97-08	SK97-09	SK97-10	SK97-11	TOTAL
# of Samples	105	22	70	44	55	72	78	88	17	7	62	620
# of QAQC	12	2	8	5	6	8	9	10	2	0	6	68
Total	117	24	78	49	61	80	87	98	19	7	68	688
Hole Length (m)	182	157	158	173	182	170	155	179	161	134	200	1851
Length Recovered (m)	182	37.49	157.73	173	181.55	170	140.6	179	161	105.57	189.45	1677.39
Length Sampled by GGM (m)	146.72	28.59	103.33	60.45	77.23	103.75	103.88	115.81	25.45	10	80.67	855.88

Table 5 Sampling summary for SK97 drill holes

6.0 Interpretations and Conclusions

6.1 Soil Sampling

An orientation soil sample survey was initiated in order to determine the nature of the Quaternary deposits in the vicinity of SK97-04, SK97-09 and SK97-10, and to determine if drift prospecting is an effective tool for detecting gold mineralization in this area. An orientation survey was needed because of the large variation in historical gold-in-soil results. The southern half of four of the IP

lines have been chosen to test and compare medium (A, B or C horizon) and analytical techniques. The existing 2016 IP survey grid was used for soil grid layout. The southern portions of lines 0+00, 3+00E, 9+00E and 12+00E were sampled at 100m intervals.

38 humus samples, 27 B-horizon and 23 C-horizon samples were collected (See Appendix B for soil horizon sample location maps). The Quaternary deposits in this area are complex. At many stations, clay (glacial lacustrine deposits) was the only medium available. At other sites a thick clay layer was observed to separate the B and till horizons. It is also possible that this clay layer separates two till sheets.

An examination of the results suggests that all horizons (A, B and C) carry anomalous values of gold in the immediate vicinity of the 3 mineralized SK97 drill holes (SK97-04, SK97-09, and SK97-10). Gold and arsenic values in humus samples have the most variability and mimic the anomalous pattern observed in Cyprus humus sample data. Refer to Appendix A for the assay results. GGM data has used a super-trace analytical package with much lower detection limits and thus we are able to see variability in the distribution of Au and As.

6.2 Prospecting

Prospecting and reconnaissance mapping of the property resulted in 47 grab samples being collected and sent out for analysis. No values greater than 31 ppb were encountered. Please see Appendix A for assay certificates.

6.3 IP survey

The location of the current IP survey partially covers a previous MAG-GPS grid completed by Abitibi Geophysics in 2015 (Figure 12).

The most interesting resistivity response that was observed is the low associated with chargeable source VP-10. This resistivity response is very strong and completely associated to the very strong chargeable response. This response is comparable to that of a graphitic or massive sulphide zone.

It can be seen that the northeast corner of the survey grid is dominated by low resistivity values, indicating a thick overburden cover ranging from 50 m towards the west and deepening to the east stretching to the entire depth of the sections (150 m) in places. This is verified when looking at the chargeability map (in figure 5 of the full report; see Appendix D) and is very noticeable in the northern portion of the pseudosections, beginning on L 9+00E. There is little to no penetration throughout this area. This resistivity low may be masking the response from any anomalous chargeability zones and causing observed anomalies to appear weak.

Following a detailed interpretation of the pseudosections, a total of 11 chargeability sources were interpreted. Many of these anomalies (VP-01, VP-03, VP-04, VP-05, VP-06, VP-08 and VP-11) are associated with areas where resistivity values are slightly elevated. This indicates a silicified host rock or environment. One of the sources (VP-09), is associated discretely with a high resistivity response within

a low resistivity region, indicating a small resistive feature within the more conductive surroundings. There are two chargeable sources within the survey grid that have a low resistivity association, VP-02 and VP-10. VP-02 is a shallow and weak response that is possibly being masked within a large conductive region. VP-10 is a strong chargeable source that is directly associated with a low resistivity trend or strong conductive trend. The chargeability sources observed are trending between 90° and 110°.

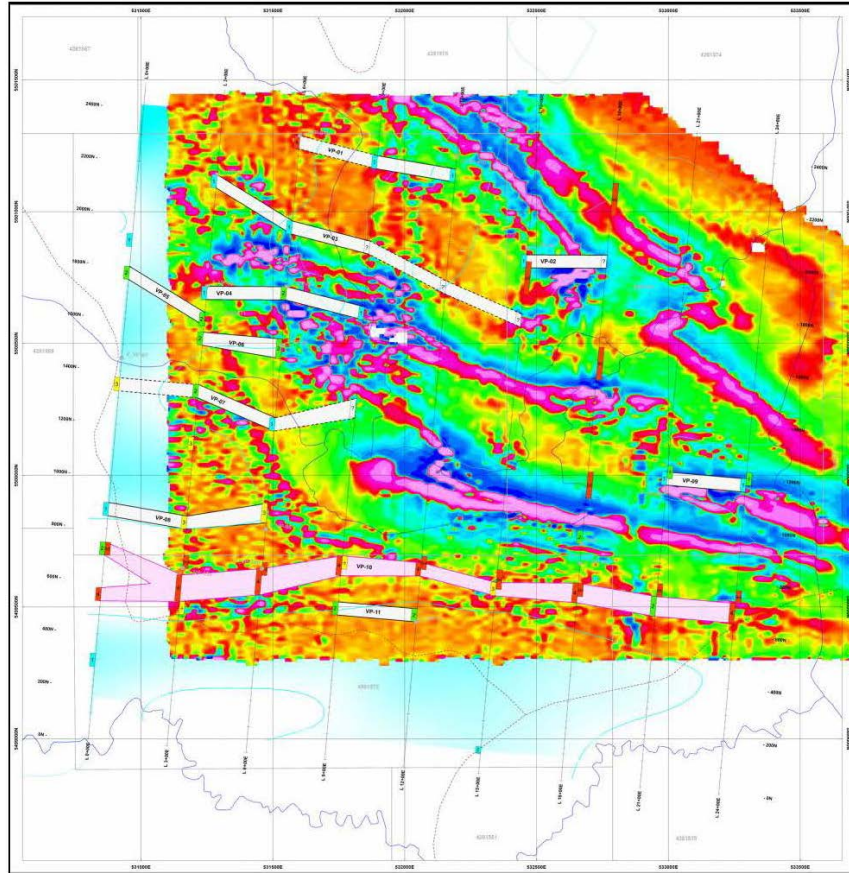


Figure 12 Vertical Derivative grid from the 2015 MAG-GPS survey with chargeability trends (VP-01 to VP-11) from 2016 IP survey.

6.4 Historic Drill Hole Relogging

Relogging of the SK97 drillholes recognized an association between mineralization and alteration and magnetic susceptibility. A total of 1851m of core was recovered for SK97-01 to SK97-11. 955m of core was historically cut. The remaining 855.88 meters of core was previously unsampled. 688 samples were sent to Act Labs for assaying.

A mineralized unit intersected by SK97-04, 09 & 10 consists of bands of approximately 7% arsenopyrite, pyrrhotite and pyrite hosted by a strongly biotite altered schist with 5-10% silicified quartz-carbonate veinlets. Narrow cataclastic faults locally with associated quartz-carbonate veining

were observed at the upper and lower contacts of the biotite schist. The mineralized zone is associated with an increase in magnetic susceptibility due to magnetite alteration and the presence of increased pyrrhotite. Therefore, the mineralized zone should have a magnetic expression

All major lithology contacts were the same as the original 1997 drill logs. Strong alteration throughout made determining protolith difficult for both generations of logging. Some rock types were described based on composition rather than photolith. Extra contacts were occasionally created or removed based on differences in alteration that were recorded for 2016.

The drill core is presumably lower grade amphibolite facies. They are compositionally banded and altered. At this point protoliths are interpreted texturally from outcrop mapping.

Main Lithology's Generalized:

Amphibolite Dyke: Amphibolitized, dark green, medium grained, 0.1-3 meters wide in core, weak to moderate magnetic, upwards of 35% biotite in some units, sharp contacts.

Mafic Tuff: Homogeneous composition; blue-grey colored, weakly to moderate magnetic unit.

Banded Mafic Tuff: Compositionally banded units comprising of <1-10cm wide bands of varying amounts of chlorite/amphiboles/garnets/biotite/magnetite. Varying weak to strongly magnetic.

Quartz Feldspar Biotite Schist: Light to moderately dark brown, locally weakly magnetic, pervasive biotite alteration in varying amount 5-50%, strongly strained and foliated.

Biotite Schist (mineralized unit): Dark brown/black, >20% biotite, up to 10% <1cm wide siliceous quartz veining, locally folded, moderately magnetic, moderate carbonate alteration, up to 5% varying amount of pyrrhotite, pyrite, and/or arsenopyrite with lesser amounts of chalcopyrite.

Quartz Feldspar Porphyry: Massive light grey unit with 1-3mm subhedral quartz and feldspar phenocrysts. Non to locally weakly magnetic.

Lapilli Tuff: Green matrix with varying amounts of clasts 1-80%. Weak to local moderately magnetic. Clasts are monolithic, irregularly shaped, <4cm wide.

Quartz Feldspar Sericite Schist: Quartz, Feldspar and minor biotite. Grey, fine to medium grain rock, silicified, massive, very weak to non magnetic rock.

Greywacke + Lean IF: Grey, fine to medium grained greywacke with <2cm wide interbedded strongly magnetic, fine to medium grained, dark grey iron formation.

The re-logging of the SK97-01 to SK97-11 has provided us with valuable knowledge of the Viper area. It has helped us better observe alteration zones, structures, mineralization, and lithological boundaries that are favorable to gold which can't be obtained from reading the historic logs.

The mineralized units in SK97-04,09,10 are all at the contact of a quartz feldspar schist and metavolcanic unit to the north. The lower zone contacts are defined by a ~10cm recrystallized fault. The zone is represented by strong biotite alteration, moderately magnetic, moderate carbonates, highly strained and siliceous unit with upwards of 7% arsenopyrite/pyrite/pyrrhotite. These holes were originally drilled to test a moderate to strong chargeability/resistivity anomaly and a magnetic high.

In 2016 the historically unsampled core was sampled to determine if there were any missing gold intercepts. The sampling program did not return any economical values of gold. All samples were sampled with ICP. Refer to Appendix A for the assay certificates.

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Appendices

Appendix A: Assay Certificates

Soil Sampling Assays



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: GREENSTONE GOLD MINES
135 HARDROCK ROAD
GERALDTON ON P0T 1M0

Page: 1
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 27-JUL-2016
Account: GGMGDFMX

CERTIFICATE TB16108850

Project: Greenstone Gold Mines Soil Sam

This report is for 88 Soil samples submitted to our lab in Thunder Bay, ON, Canada on 6-JUL-2016.

The following have access to data associated with this certificate:

MICHELE COTE

TOM SALMI

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SPL- 34	Pulp Splitting Charge
PUL- 31	Pulverize split to 85% < 75 um
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
AuME- ST44	50g Super Trace Au + Multi Element PKG	ICP- MS

To: GREENSTONE GOLD MINES
ATTN: TOM SALMI
135 HARDROCK ROAD
GERALDTON ON P0T 1M0

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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To: GREENSTONE GOLD MINES
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Page: 2 - A
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 27- JUL- 2016
 Account: GGMGDFMX

Project: Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS TB16108850

Sample Description	Method Analyte Units LOR	WEI- 21	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
227109		1.14	0.0011	0.030	0.94	2.31	10	47.9	0.35	0.077	9.54	0.053	34.8	5.51	22.9	0.689
227110		1.21	0.0005	0.023	0.98	2.32	10	35.3	0.32	0.076	6.77	0.071	34.8	6.11	22.9	0.812
227111		1.12	0.0008	0.043	1.58	2.06	10	81.4	0.55	0.117	5.78	0.097	48.7	8.32	37.4	0.994
227112		1.18	0.0003	0.021	0.42	0.97	<10	17.1	0.17	0.047	4.28	0.035	27.9	3.00	21.2	0.355
227113		1.33	0.0004	0.013	0.48	1.29	<10	24.0	0.19	0.037	0.42	0.040	28.4	2.95	16.35	0.195
227114		1.44	0.0014	0.030	1.01	2.71	10	42.6	0.23	0.076	7.37	0.064	32.6	8.15	25.9	1.385
227115		1.09	0.0007	0.034	1.49	2.29	<10	65.8	0.50	0.104	7.80	0.073	48.1	8.12	33.8	1.070
227116		2.08	0.0004	0.010	0.97	1.50	<10	32.0	0.25	0.058	0.30	0.024	23.5	4.67	19.55	0.515
227117		1.28	0.0008	0.018	0.65	1.36	<10	30.5	0.26	0.049	12.40	0.039	33.1	3.78	15.95	0.535
227118		2.03	0.0003	0.015	0.30	0.84	10	13.3	0.14	0.026	6.63	0.022	19.90	1.930	9.95	0.227
227119		1.38	0.0009	0.020	0.74	1.19	<10	32.4	0.24	0.063	5.26	0.024	32.1	4.21	18.55	0.526
227120		1.18	0.0072	0.024	0.84	64.9	10	41.6	0.21	0.062	8.18	0.029	30.4	5.66	42.1	1.125
227121		1.58	0.0156	0.028	0.75	106.0	<10	32.9	0.23	0.062	5.09	0.045	32.5	6.28	40.5	1.515
227122		1.50	0.0012	0.016	0.52	2.29	<10	17.7	0.19	0.029	0.26	0.010	37.0	2.12	12.15	0.211
227123		1.58	0.0009	0.019	0.83	1.69	<10	38.5	0.23	0.063	2.47	0.023	29.1	4.80	31.2	0.483
227124		1.91	0.0005	0.017	0.52	1.94	10	20.8	0.19	0.043	5.42	0.023	28.0	3.37	16.30	0.362
227125		1.34	0.0006	0.012	0.26	1.19	10	14.4	0.13	0.027	8.72	0.030	21.3	2.13	10.20	0.192
227126		1.40	0.0013	0.026	1.33	2.28	10	77.8	0.50	0.102	10.15	0.088	52.7	8.68	34.0	1.025
227127		1.25	0.0008	0.020	0.66	2.33	10	43.7	0.14	0.045	4.61	0.027	24.8	5.01	38.7	0.752
227128		1.26	0.0008	0.023	0.81	1.81	10	37.7	0.28	0.061	8.40	0.035	30.4	3.96	24.1	0.583
227129		1.12	0.0010	0.035	0.99	2.44	10	73.9	0.29	0.075	6.31	0.076	36.4	6.50	34.8	0.972
227130		1.84	0.0007	0.027	0.83	4.04	10	43.8	0.30	0.068	9.26	0.057	34.8	4.96	21.8	0.619
227131		1.31	0.0007	0.041	0.94	1.99	10	41.8	0.35	0.080	10.65	0.062	40.4	5.88	23.9	0.731
274592		0.30	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274593		0.08	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274594		0.16	0.0015	0.022	0.26	5.78	10	44.0	0.05	0.107	0.23	0.125	8.18	1.700	6.39	0.384
274595		0.20	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274596		0.17	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274597		0.26	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274598		0.24	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274599		0.18	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274600		0.28	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274651		0.54	0.0015	0.028	0.75	2.78	10	22.7	0.26	0.059	3.73	0.042	30.3	4.13	21.6	0.404
274652		0.28	0.0019	0.114	1.88	54.2	10	96.1	0.54	0.119	1.71	0.251	59.1	15.40	48.0	1.390
274653		0.50	0.0006	0.014	0.33	1.90	10	18.0	0.14	0.030	7.95	0.036	22.9	2.73	11.75	0.280
274654		0.35	0.0008	0.030	0.52	8.56	10	33.9	0.11	0.068	0.36	0.078	12.55	3.02	10.90	0.451
274655		0.42	0.0010	0.014	0.69	9.96	<10	25.0	0.20	0.054	0.23	0.024	19.65	3.90	18.35	0.498
274656		0.26	0.0021	0.090	0.27	7.88	20	105.5	0.09	0.047	4.18	0.412	13.70	1.840	5.57	0.215
274657		0.46	0.0008	0.046	1.25	8.27	10	81.1	0.33	0.081	5.97	0.035	39.7	9.15	44.6	1.245
274658		0.29	0.0007	0.077	1.22	18.50	10	56.1	0.39	0.120	1.05	0.282	29.7	7.63	26.4	0.597

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



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To: GREENSTONE GOLD MINES
 135 HARDROCK ROAD
 GERALDTON ON P0T 1M0

Page: 2 - B
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 27- JUL- 2016
 Account: GGMGDFMX

Project: Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS TB16108850

Sample Description	Method Analyte Units LOR	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
227109		13.50	1.440	3.27	0.067	0.122	0.019	0.008	0.10	17.55	13.3	2.30	293	0.15	0.018	0.200
227110		14.45	1.560	3.45	0.065	0.060	0.023	0.010	0.11	17.40	14.1	1.50	313	0.17	0.018	0.848
227111		16.65	2.12	5.44	0.084	0.181	0.017	0.015	0.19	24.6	21.0	1.59	353	0.11	0.019	1.445
227112		5.22	1.540	1.995	0.076	0.035	0.007	0.005	0.05	13.20	6.2	0.88	160.0	0.17	0.030	0.590
227113		4.66	1.160	1.735	0.060	0.062	0.012	<0.005	0.05	14.35	5.2	0.20	140.0	0.19	0.031	0.546
227114		17.90	1.960	3.65	0.064	0.024	0.015	0.009	0.12	16.60	15.7	2.46	343	0.30	0.028	0.891
227115		17.40	2.07	4.94	0.076	0.145	0.020	0.016	0.18	23.7	18.9	1.79	381	0.12	0.023	0.206
227116		5.19	1.360	2.84	0.052	0.069	0.014	0.007	0.09	8.49	10.3	0.29	154.0	0.19	0.025	0.915
227117		9.78	1.070	2.37	0.106	0.225	0.023	0.011	0.08	15.80	10.0	3.09	267	0.11	0.018	0.372
227118		5.12	0.680	1.150	0.065	0.059	0.008	0.006	0.03	9.45	4.7	2.31	125.5	0.09	0.017	0.362
227119		9.51	1.180	2.48	0.062	0.076	0.010	0.006	0.09	14.40	9.4	2.01	231	0.10	0.018	0.249
227120		15.55	1.430	3.13	0.068	0.120	0.009	0.009	0.08	14.50	11.1	2.59	194.5	0.15	0.023	0.186
227121		13.00	1.320	2.88	0.075	0.052	0.011	0.008	0.08	17.75	9.7	2.04	179.5	0.15	0.019	0.710
227122		3.89	0.780	1.485	0.069	0.017	0.009	0.005	0.03	19.40	4.5	0.13	57.1	0.11	0.021	0.801
227123		12.10	1.490	3.32	0.066	0.038	0.015	0.006	0.05	14.15	9.8	1.23	153.0	0.14	0.023	0.625
227124		15.10	0.960	1.830	0.053	0.053	0.019	0.008	0.05	13.05	8.4	2.06	145.0	0.18	0.014	0.471
227125		5.84	0.630	0.977	0.045	0.068	0.010	0.005	0.03	9.95	4.8	2.68	140.5	0.11	0.014	0.344
227126		19.70	1.920	4.58	0.062	0.169	0.023	0.015	0.16	24.9	20.4	2.19	385	0.14	0.031	0.189
227127		13.75	1.190	2.50	0.052	0.040	0.009	0.006	0.07	12.00	8.7	1.93	150.0	0.13	0.019	0.640
227128		12.15	1.270	2.75	0.054	0.081	0.014	0.007	0.07	16.85	10.9	2.28	162.0	0.13	0.019	0.417
227129		16.55	1.530	3.48	0.056	0.097	0.016	0.014	0.14	17.50	14.1	2.23	268	0.19	0.015	1.005
227130		14.35	1.300	2.79	0.053	0.112	0.020	0.009	0.09	17.25	12.7	2.41	230	0.13	0.016	0.600
227131		14.65	1.460	3.21	0.060	0.073	0.023	0.012	0.11	22.2	15.0	2.65	307	0.10	0.022	0.322
274592		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274593		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274594		1.73	0.570	2.12	0.042	0.005	0.034	<0.005	0.04	4.11	2.7	0.07	509	0.25	0.009	0.659
274595		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274596		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274597		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274598		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274599		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274600		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274651		9.77	1.280	2.54	0.045	0.030	0.027	0.008	0.03	15.50	11.1	1.89	117.0	0.12	0.010	0.759
274652		60.2	2.31	4.10	0.074	0.065	0.105	0.017	0.04	33.9	20.6	0.51	359	0.42	0.038	1.340
274653		9.75	0.680	1.215	0.046	0.056	0.012	0.008	0.04	10.65	5.4	2.30	141.0	0.19	0.015	0.494
274654		2.59	0.690	2.31	0.021	0.018	0.021	<0.005	0.03	6.07	9.8	0.20	207	0.21	0.010	0.823
274655		3.72	1.150	2.49	0.029	0.030	0.008	0.006	0.03	8.38	11.5	0.26	129.0	0.20	0.007	0.911
274656		17.60	0.246	0.567	0.043	0.024	0.115	<0.005	0.03	9.47	0.5	0.25	175.5	0.50	0.172	0.231
274657		26.1	1.950	4.44	0.061	0.079	0.020	0.012	0.17	20.2	17.3	2.32	230	0.23	0.017	0.433
274658		11.00	1.530	4.22	0.038	0.098	0.033	0.016	0.11	13.60	15.3	0.47	219	0.22	0.034	2.07

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



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To: GREENSTONE GOLD MINES
 135 HARDROCK ROAD
 GERALDTON ON POT 1M0

Page: 2 - C
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 27-JUL-2016
 Account: GGMGDFMX

Project: Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS TB16108850

Sample Description	Method Analyte Units LOR	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	
		Ni ppm	P %	Pb ppm	Pd ppm	Pt ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm
227109		14.70	0.041	4.93	0.002	0.002	8.76	<0.001	0.01	0.065	2.99	0.1	0.34	65.7	<0.005	0.01
227110		14.95	0.050	4.81	<0.001	0.001	10.75	<0.001	0.01	0.077	2.79	0.2	0.34	48.9	<0.005	0.01
227111		21.8	0.042	7.00	0.001	0.001	21.0	<0.001	0.02	0.080	4.25	0.2	0.50	43.3	<0.005	0.01
227112		7.41	0.046	2.42	<0.001	0.001	3.69	<0.001	<0.01	0.046	1.740	<0.1	0.24	32.2	<0.005	<0.01
227113		7.12	0.039	2.71	<0.001	0.002	3.35	<0.001	<0.01	0.047	1.820	<0.1	0.22	10.60	<0.005	<0.01
227114		18.75	0.057	4.88	<0.001	0.001	10.80	<0.001	0.01	0.079	2.87	0.2	0.31	46.1	<0.005	0.01
227115		20.8	0.045	6.93	0.001	0.001	16.40	<0.001	0.01	0.059	4.16	0.1	0.45	57.5	<0.005	0.02
227116		11.90	0.035	3.85	<0.001	0.002	7.89	<0.001	<0.01	0.046	1.940	0.2	0.31	9.90	<0.005	<0.01
227117		10.15	0.044	3.85	<0.001	0.002	7.46	<0.001	0.01	0.088	2.50	0.1	0.27	74.9	<0.005	0.01
227118		5.19	0.043	1.765	0.001	0.001	1.940	<0.001	0.01	0.028	1.335	0.1	0.17	35.7	<0.005	0.01
227119		10.80	0.045	3.83	0.001	0.001	7.30	<0.001	<0.01	0.046	2.29	0.1	0.25	30.5	<0.005	<0.01
227120		16.70	0.044	3.52	<0.001	0.002	6.07	<0.001	0.01	0.952	3.07	0.1	0.29	51.6	<0.005	0.01
227121		16.40	0.045	3.99	<0.001	0.002	8.69	<0.001	0.01	1.010	2.77	0.2	0.25	33.6	<0.005	0.01
227122		7.38	0.047	2.28	<0.001	0.001	2.24	<0.001	0.01	0.044	1.640	0.1	0.21	9.10	<0.005	<0.01
227123		15.95	0.039	3.20	0.001	0.001	3.94	<0.001	<0.01	0.044	3.16	0.1	0.31	18.25	<0.005	<0.01
227124		8.06	0.050	2.98	<0.001	0.001	4.76	<0.001	0.02	0.047	1.990	0.1	0.21	33.7	<0.005	0.01
227125		4.62	0.044	1.925	<0.001	0.001	2.11	<0.001	0.02	0.040	1.355	0.1	0.15	56.5	<0.005	0.01
227126		21.3	0.047	6.92	0.001	0.001	16.90	<0.001	0.03	0.071	4.31	0.1	0.49	81.4	<0.005	0.01
227127		17.90	0.047	2.61	<0.001	<0.001	6.29	<0.001	0.02	0.030	2.18	0.1	0.23	29.6	<0.005	0.01
227128		12.35	0.046	3.61	<0.001	0.001	7.12	<0.001	0.02	0.039	2.88	<0.1	0.31	60.2	<0.005	0.01
227129		21.9	0.052	4.49	0.001	<0.001	21.0	<0.001	0.03	0.081	3.25	0.1	0.33	44.4	<0.005	0.01
227130		12.55	0.047	4.21	0.002	0.001	9.05	<0.001	0.02	0.080	2.82	0.1	0.31	67.2	<0.005	0.01
227131		15.45	0.048	5.22	<0.001	0.001	12.20	<0.001	0.03	0.204	3.23	0.1	0.36	79.8	<0.005	0.01
274592		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274593		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274594		2.09	0.029	8.98	<0.001	0.001	7.94	<0.001	0.06	0.108	0.518	0.2	0.40	4.96	<0.005	0.02
274595		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274596		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274597		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274598		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274599		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274600		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274651		10.10	0.049	3.68	<0.001	0.001	5.55	<0.001	0.02	0.026	2.09	0.1	0.26	21.5	<0.005	0.01
274652		43.7	0.057	6.86	<0.001	<0.001	5.41	0.001	0.11	0.177	3.49	0.9	0.40	19.85	0.005	0.02
274653		6.39	0.046	2.10	<0.001	<0.001	4.10	<0.001	0.03	0.057	1.510	0.1	0.16	51.8	<0.005	0.01
274654		5.48	0.013	5.55	<0.001	<0.001	9.39	<0.001	0.03	0.065	0.948	0.1	0.31	6.75	<0.005	<0.01
274655		9.22	0.015	3.96	<0.001	<0.001	8.80	<0.001	0.02	0.055	1.395	<0.1	0.30	6.25	<0.005	<0.01
274656		7.82	0.072	5.01	<0.001	<0.001	1.115	0.001	0.33	0.404	0.277	0.7	0.16	38.1	<0.005	0.01
274657		26.3	0.053	4.77	<0.001	0.001	20.7	<0.001	0.03	0.147	3.84	0.1	0.38	40.6	<0.005	0.01
274658		16.65	0.025	9.05	<0.001	<0.001	19.30	<0.001	0.07	0.233	2.34	0.1	0.54	17.30	<0.005	0.02

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Project: Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS TB16108850

Sample Description	Method Analyte Units LOR	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44
		Th ppm	Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.002	0.001	0.002	0.005	0.1	0.001	0.003	0.1	0.01
227109		4.69	0.059	0.092	0.420	23.3	0.072	6.97	22.6	7.67
227110		3.96	0.060	0.107	0.458	24.2	0.124	6.47	26.3	3.13
227111		5.61	0.073	0.142	0.467	32.1	0.080	9.07	41.7	8.08
227112		3.83	0.050	0.046	0.421	25.9	0.283	4.64	11.0	2.10
227113		3.33	0.043	0.047	0.335	17.5	0.192	4.99	13.5	2.91
227114		2.87	0.069	0.129	0.456	28.7	0.303	7.11	38.6	1.35
227115		6.55	0.078	0.124	0.481	30.8	0.076	8.81	34.5	9.46
227116		3.01	0.053	0.057	0.296	18.9	0.124	3.06	19.0	3.62
227117		4.00	0.066	0.076	0.446	17.9	0.112	6.60	17.2	10.15
227118		2.16	0.036	0.038	0.316	11.8	0.099	4.35	7.5	3.22
227119		3.84	0.051	0.072	0.348	18.3	0.103	6.03	17.5	4.91
227120		3.66	0.066	0.089	0.430	26.5	0.259	5.92	21.0	6.59
227121		3.52	0.058	0.105	0.443	25.1	0.333	6.92	23.2	3.29
227122		2.42	0.039	0.036	0.424	11.9	0.113	6.25	7.3	0.80
227123		3.20	0.059	0.064	0.380	25.5	0.135	6.10	17.5	2.19
227124		3.17	0.041	0.066	0.362	18.9	0.121	6.08	13.0	3.55
227125		2.22	0.030	0.043	0.353	13.0	0.091	4.82	7.4	4.35
227126		6.75	0.071	0.136	0.492	33.2	0.081	9.50	35.6	11.05
227127		2.59	0.058	0.109	0.346	23.7	0.106	5.14	16.4	2.60
227128		3.93	0.055	0.072	0.402	23.4	0.113	7.37	19.1	5.49
227129		3.87	0.062	0.154	0.537	28.3	0.097	7.32	27.6	4.88
227130		4.33	0.055	0.089	0.437	23.7	0.089	7.16	23.5	7.22
227131		4.96	0.064	0.104	0.473	26.0	0.101	8.53	25.3	5.12
274592		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274593		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274594		0.838	0.030	0.042	0.159	14.0	0.134	0.770	11.8	0.21
274595		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274596		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274597		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274598		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274599		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274600		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274651		2.33	0.035	0.052	0.356	23.0	0.162	6.67	15.9	1.19
274652		1.615	0.038	0.110	1.115	36.5	0.134	18.95	23.3	3.14
274653		2.49	0.030	0.064	0.346	14.1	0.090	5.15	10.0	3.86
274654		1.120	0.028	0.053	0.219	14.7	0.126	1.480	15.9	0.63
274655		2.57	0.045	0.047	0.291	21.7	0.099	2.33	15.8	1.50
274656		0.170	0.004	0.137	1.860	4.9	0.032	3.26	13.6	1.19
274657		4.50	0.074	0.143	0.433	36.0	0.088	8.26	31.3	4.37
274658		1.865	0.062	0.080	0.349	26.9	0.108	4.30	34.4	4.18

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



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To: GREENSTONE GOLD MINES
 135 HARDROCK ROAD
 GERALDTON ON P0T 1M0

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 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 27- JUL- 2016
 Account: GGMDFMX

Project: Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS TB16108850

Sample Description	Method Analyte Units LOR	WEI- 21	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
274659		0.43	0.0012	0.103	1.96	9.35	10	84.1	0.71	0.151	1.93	0.078	63.6	10.60	44.1	1.230
274660		0.15	0.0005	0.017	0.82	5.87	10	63.8	0.23	0.143	0.23	0.369	20.8	5.56	39.1	0.743
274661		0.43	0.0005	0.021	0.97	3.19	10	41.7	0.15	0.071	1.30	0.024	29.7	7.45	54.3	1.040
274662		0.18	0.0010	0.026	0.50	3.55	10	34.4	0.11	0.089	0.40	0.126	14.75	2.66	11.05	0.434
274663		0.40	0.0018	0.045	2.75	3.02	10	132.0	1.17	0.172	0.59	0.016	81.1	12.20	60.7	1.550
274664		0.30	0.0009	0.104	1.12	3.77	10	192.0	0.24	0.083	3.37	0.348	31.4	6.14	59.5	1.465
274665		0.48	0.0008	0.060	1.57	3.96	10	123.0	0.46	0.130	0.54	0.110	52.6	11.70	58.6	1.435
274666		0.21	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274667		0.72	0.0012	0.066	1.52	5.10	10	73.7	0.52	0.112	2.10	0.040	41.8	7.09	34.8	0.849
274668		0.21	0.0009	0.044	0.93	20.8	20	87.2	0.22	0.073	2.25	0.197	20.5	4.92	23.8	0.752
274669		0.17	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274670		0.20	0.0005	0.103	0.95	4.28	10	49.5	0.29	0.132	0.31	0.132	23.9	3.66	22.4	0.528
274671		0.43	0.0008	0.110	2.02	3.87	20	93.1	0.76	0.165	2.21	0.081	67.9	10.55	47.7	1.405
274676		0.33	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274677		0.34	0.0005	0.020	1.16	2.90	10	26.2	0.46	0.078	0.26	0.055	47.6	6.30	24.0	0.787
274678		0.56	0.0009	0.054	1.38	2.60	10	63.7	0.48	0.111	3.72	0.035	43.4	6.98	35.6	1.020
274679		0.40	0.0012	0.083	1.94	3.12	20	108.5	0.80	0.163	0.89	0.124	66.6	11.95	48.1	1.400
274770		0.39	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274771		0.19	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274772		0.16	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274773		0.26	0.0005	0.047	1.20	1.84	20	66.3	0.42	0.097	3.87	0.142	43.6	6.81	30.5	0.851
274774		0.13	0.0009	0.063	0.17	2.72	10	70.8	0.05	0.127	0.50	0.307	6.81	1.235	3.64	0.282
274775		0.44	0.0002	0.028	1.64	2.50	10	55.9	0.50	0.107	0.28	0.027	34.3	6.81	32.5	0.793
274776		0.19	0.0014	0.005	0.34	10.10	10	11.4	0.07	0.134	0.06	0.056	7.48	1.045	9.94	0.304
274777		0.34	0.0006	0.012	1.10	4.31	10	22.7	0.31	0.072	0.07	0.064	11.45	4.17	18.35	0.442
274778		0.40	0.0013	0.025	1.24	14.10	10	70.0	0.27	0.203	0.07	0.185	17.80	7.19	37.9	1.000
274779		0.51	0.0012	0.046	1.86	6.30	10	103.5	0.52	0.164	1.00	0.137	44.2	11.05	41.1	1.475
274780		0.16	0.0005	0.036	0.12	2.00	10	29.1	0.03	0.070	0.31	0.168	6.28	0.597	2.93	0.224
274781		0.48	0.0002	0.005	0.76	1.51	10	23.3	0.22	0.047	0.16	0.015	12.85	3.89	17.20	0.437
274782		0.33	0.0002	0.015	0.09	0.92	10	16.0	0.02	0.039	0.09	0.037	5.02	0.222	1.37	0.130
274783		0.62	0.0002	0.013	1.02	1.97	10	27.0	0.28	0.066	0.17	0.024	16.60	5.11	20.9	0.545
274784		0.13	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274785		0.38	0.0014	0.107	1.91	3.85	10	77.7	0.73	0.147	1.01	0.069	58.7	8.80	44.5	1.280
274786		0.24	0.0008	0.024	0.99	3.67	10	43.3	0.29	0.099	0.31	0.087	23.7	6.01	25.2	0.649
274787		0.41	0.0006	0.069	1.66	2.87	10	69.2	0.65	0.119	1.85	0.040	57.7	8.08	39.5	1.170
274788		0.22	0.0001	0.039	0.67	2.67	10	42.6	0.17	0.092	0.35	0.106	18.50	2.81	16.15	0.614
274789		0.54	0.0010	0.057	1.60	3.04	10	60.7	0.57	0.125	3.99	0.045	61.3	8.93	38.9	1.265
274790		0.33	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274791		0.31	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274792		0.21	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS

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Project: Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS TB16108850

Sample Description	Method	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	
	Analyte Units LOR	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
274659		19.50	2.57	6.32	0.069	0.185	0.043	0.026	0.22	30.3	28.5	1.24	375	0.19	0.018	1.560
274660		11.80	1.020	4.01	0.040	0.010	0.039	0.013	0.04	10.15	9.8	0.30	78.3	0.30	0.012	0.841
274661		14.15	1.620	3.86	0.050	0.041	0.008	0.011	0.05	14.45	12.7	1.17	160.0	0.08	0.009	0.521
274662		3.38	0.580	2.30	0.036	0.025	0.039	0.007	0.04	7.01	6.3	0.18	179.0	0.20	0.008	0.892
274663		29.1	3.20	8.42	0.093	0.291	0.045	0.023	0.22	45.9	41.4	0.92	352	0.14	0.020	0.501
274664		36.6	1.350	3.81	0.074	0.086	0.123	0.012	0.07	18.95	9.6	0.66	339	0.49	0.087	1.110
274665		16.35	2.25	5.46	0.062	0.088	0.021	0.019	0.19	22.7	21.5	0.74	671	0.37	0.013	1.035
274666		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274667		17.70	2.04	4.92	0.062	0.110	0.033	0.012	0.14	22.9	19.6	1.45	248	0.09	0.015	1.085
274668		11.70	1.140	3.06	0.053	0.077	0.080	0.009	0.07	10.25	10.9	0.39	214	0.37	0.023	1.100
274669		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274670		7.05	1.250	4.82	0.036	0.033	0.034	0.011	0.08	11.15	7.4	0.29	140.5	0.29	0.012	1.385
274671		21.0	2.66	6.87	0.119	0.162	0.053	0.020	0.23	38.9	22.3	1.35	468	0.22	0.022	1.215
274766		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274767		9.57	1.480	2.96	0.078	0.033	0.020	0.012	0.06	19.00	11.7	0.32	278	0.29	0.010	1.080
274768		15.95	1.930	4.69	0.073	0.097	0.025	0.018	0.15	23.6	14.2	1.87	286	0.22	0.016	0.382
274769		23.5	2.66	6.57	0.125	0.176	0.036	0.015	0.22	31.9	20.5	0.85	493	0.42	0.022	1.675
274770		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274771		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274772		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274773		18.20	1.620	4.03	0.084	0.158	0.040	0.015	0.11	20.8	13.4	1.70	224	0.09	0.018	1.810
274774		2.38	0.215	1.210	0.044	0.005	0.072	<0.005	0.04	3.58	0.7	0.05	660	0.20	0.010	0.305
274775		9.37	2.07	5.05	0.044	0.103	0.023	0.017	0.07	15.25	15.1	0.43	191.5	0.21	0.010	1.290
274776		1.68	0.860	2.32	0.038	0.006	0.035	<0.005	0.02	3.85	2.8	0.06	35.3	0.25	0.007	0.843
274777		3.44	1.370	2.62	0.028	0.061	0.018	0.009	0.02	5.69	9.0	0.13	96.7	0.19	0.005	1.080
274778		12.75	2.08	6.29	0.045	0.017	0.027	0.019	0.04	8.56	12.8	0.32	905	0.48	0.010	1.300
274779		20.7	2.48	6.12	0.067	0.028	0.042	0.020	0.06	21.4	20.5	0.74	965	0.59	0.013	1.350
274780		2.40	0.124	0.882	0.035	0.009	0.045	<0.005	0.04	3.44	0.6	0.04	151.0	0.18	0.008	0.204
274781		4.04	1.100	2.31	0.040	0.034	0.010	0.005	0.04	5.51	8.4	0.23	112.0	0.14	0.006	0.750
274782		0.51	0.057	0.907	0.019	<0.002	0.015	<0.005	0.02	2.64	0.4	0.01	76.4	0.08	0.004	0.182
274783		5.10	1.330	3.18	0.038	0.106	0.016	0.006	0.07	6.45	10.5	0.29	116.5	0.22	0.007	0.960
274784		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274785		19.50	2.40	6.12	0.104	0.133	0.045	0.013	0.18	28.0	18.3	0.83	332	0.30	0.017	1.460
274786		6.21	1.390	4.01	0.041	0.025	0.026	0.007	0.10	10.95	12.7	0.43	389	0.21	0.011	1.445
274787		21.1	2.18	5.44	0.108	0.123	0.044	0.014	0.15	35.6	17.2	1.34	388	0.20	0.021	0.935
274788		3.68	0.840	3.49	0.053	0.017	0.026	<0.005	0.07	9.47	6.7	0.26	144.0	0.18	0.011	1.180
274789		24.0	2.15	5.34	0.114	0.201	0.044	0.012	0.17	31.4	16.0	1.78	448	0.16	0.021	0.552
274790		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274791		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274792		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS

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CERTIFICATE OF ANALYSIS TB16108850

Sample Description	Method Analyte Units LOR	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	
		Ni ppm	P %	Pb ppm	Pd ppm	Pt ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm
274659		27.5	0.047	9.60	<0.001	0.001	26.6	<0.001	0.03	0.126	5.89	0.2	0.70	25.1	<0.005	0.02
274660		17.45	0.020	15.25	<0.001	0.002	4.51	<0.001	0.05	0.089	1.360	0.3	0.46	7.18	<0.005	0.03
274661		23.7	0.049	2.87	<0.001	<0.001	5.63	<0.001	0.02	0.020	3.78	0.1	0.28	9.82	<0.005	0.01
274662		5.59	0.018	8.73	<0.001	0.001	9.31	<0.001	0.04	0.064	1.060	0.1	0.35	8.72	<0.005	0.01
274663		36.5	0.047	10.00	<0.001	0.001	25.4	<0.001	0.02	0.073	8.37	0.2	0.86	20.8	<0.005	0.02
274664		31.4	0.092	4.20	<0.001	0.001	9.58	0.002	0.26	0.141	1.990	1.6	0.30	40.4	0.006	0.02
274665		34.1	0.059	7.26	0.001	0.160	33.0	<0.001	0.02	0.046	4.53	0.1	0.49	14.60	<0.005	0.02
274666		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274667		20.2	0.040	6.45	<0.001	0.001	16.85	<0.001	0.02	0.095	4.23	0.1	0.52	21.0	<0.005	0.01
274668		12.15	0.071	7.21	<0.001	0.001	15.20	0.001	0.17	0.291	1.600	0.7	0.37	26.5	<0.005	0.03
274669		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274670		10.40	0.037	11.85	<0.001	0.001	11.80	<0.001	0.03	0.104	1.810	0.3	0.58	11.25	<0.005	0.01
274671		29.3	0.050	10.15	<0.001	<0.001	28.4	<0.001	0.04	0.131	5.48	0.3	0.73	27.1	<0.005	0.03
274676		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274677		15.00	0.070	5.32	<0.001	<0.001	13.10	<0.001	0.04	0.070	2.43	0.1	0.25	7.91	<0.005	0.01
274678		19.00	0.053	6.51	<0.001	<0.001	21.3	<0.001	0.02	0.062	3.88	<0.1	0.47	30.6	<0.005	0.02
274679		30.8	0.062	9.64	<0.001	0.001	31.7	<0.001	0.05	0.104	5.12	0.1	0.70	20.9	<0.005	0.01
274770		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274771		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274772		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274773		16.10	0.055	6.20	<0.001	0.002	14.95	0.001	0.07	0.121	3.08	0.5	0.38	30.6	<0.005	0.03
274774		1.37	0.039	16.50	<0.001	<0.001	3.12	<0.001	0.08	0.211	0.336	0.4	0.45	11.70	<0.005	<0.01
274775		19.05	0.038	6.90	<0.001	<0.001	10.45	<0.001	0.02	0.073	2.73	0.1	0.51	11.40	<0.005	0.01
274776		2.67	0.026	11.95	<0.001	<0.001	2.79	<0.001	0.04	0.164	0.528	0.2	0.49	2.66	<0.005	0.01
274777		6.61	0.053	4.63	<0.001	<0.001	4.65	<0.001	0.02	0.084	0.986	0.1	0.29	3.05	<0.005	0.01
274778		15.75	0.037	13.75	<0.001	<0.001	7.75	<0.001	0.04	0.235	2.38	0.2	0.73	4.20	<0.005	0.03
274779		24.2	0.085	10.20	<0.001	<0.001	10.20	<0.001	0.04	0.181	3.72	0.3	0.60	10.85	<0.005	0.02
274780		1.18	0.027	6.85	<0.001	<0.001	3.43	<0.001	0.05	0.115	0.262	0.2	0.24	8.09	<0.005	<0.01
274781		10.05	0.037	2.94	<0.001	<0.001	6.97	<0.001	0.02	0.034	1.130	0.1	0.22	5.93	<0.005	<0.01
274782		0.33	0.006	2.44	<0.001	<0.001	3.80	<0.001	0.02	0.026	0.151	<0.1	0.16	3.55	<0.005	<0.01
274783		12.80	0.030	4.50	<0.001	<0.001	9.38	<0.001	0.02	0.039	1.610	0.1	0.31	6.79	<0.005	0.01
274784		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274785		25.8	0.038	8.44	<0.001	<0.001	24.0	<0.001	0.05	0.116	4.84	0.2	0.61	17.95	<0.005	<0.01
274786		14.70	0.028	7.36	<0.001	<0.001	20.7	<0.001	0.03	0.070	2.05	0.1	0.51	11.25	<0.005	0.01
274787		23.2	0.060	7.49	<0.001	<0.001	16.50	<0.001	0.04	0.094	4.61	0.2	0.57	23.3	<0.005	0.01
274788		7.63	0.025	6.93	<0.001	<0.001	16.75	<0.001	0.04	0.073	1.555	0.2	0.43	10.90	<0.005	<0.01
274789		23.2	0.059	7.78	0.001	<0.001	18.55	<0.001	0.04	0.090	4.85	0.1	0.59	36.8	<0.005	0.03
274790		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274791		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274792		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS

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To: GREENSTONE GOLD MINES
 135 HARDROCK ROAD
 GERALDTON ON P0T 1M0

Page: 3 - D
 Total # Pages: 4 (A - D)
 Plus Appendix Pages
 Finalized Date: 27- JUL- 2016
 Account: GGMGDFMX

Project: Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS TB16108850

Sample Description	Method Analyte Units LOR	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44
		Th ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.002	0.001	0.002	0.005	0.1	0.001	0.003	0.1	0.01
274659		8.04	0.090	0.184	0.569	43.1	0.107	11.45	44.7	9.61
274660		1.000	0.060	0.068	0.382	21.7	0.104	2.42	19.8	0.52
274661		2.93	0.074	0.104	0.329	34.4	0.104	5.23	25.0	2.22
274662		1.605	0.034	0.058	0.219	13.1	0.084	1.680	11.4	1.15
274663		12.30	0.089	0.222	0.694	51.1	0.106	18.15	52.5	16.85
274664		0.828	0.044	0.138	3.58	30.1	0.061	8.29	27.3	4.73
274665		5.39	0.082	0.216	0.586	40.6	0.122	8.17	41.9	3.87
274666		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274667		5.33	0.065	0.144	0.447	32.1	0.085	9.46	43.0	5.68
274668		0.920	0.035	0.089	0.720	16.5	0.076	4.15	31.7	2.94
274669		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274670		1.730	0.053	0.076	0.386	22.6	0.095	2.55	28.1	1.31
274671		8.54	0.113	0.191	0.604	44.1	0.173	13.80	48.8	8.02
274766		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274767		3.89	0.053	0.082	0.420	23.4	0.182	6.34	21.3	1.58
274768		6.11	0.074	0.131	0.473	33.4	0.103	9.73	36.7	4.90
274769		8.22	0.110	0.188	0.622	42.6	0.169	11.75	79.0	8.50
274770		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274771		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274772		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274773		3.79	0.064	0.104	0.473	26.9	0.138	8.20	33.0	6.29
274774		0.346	0.013	0.059	0.110	5.3	0.117	0.578	17.5	0.20
274775		4.80	0.069	0.080	0.376	34.8	0.190	5.09	27.2	4.68
274776		1.185	0.031	0.034	0.152	18.5	0.232	0.808	9.7	0.32
274777		2.91	0.035	0.040	0.266	22.5	0.288	1.610	18.0	2.12
274778		2.50	0.071	0.116	0.336	44.8	0.253	2.19	46.5	0.83
274779		3.85	0.079	0.134	0.533	45.2	0.224	7.47	49.6	1.44
274780		0.594	0.009	0.027	0.090	3.0	0.145	0.511	8.0	0.24
274781		1.875	0.042	0.041	0.202	17.9	0.100	2.06	12.2	1.69
274782		0.301	0.010	0.014	0.078	2.1	0.025	0.370	2.1	0.08
274783		2.44	0.050	0.059	0.254	20.6	0.092	2.17	17.3	4.51
274784		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274785		7.67	0.097	0.165	0.593	39.2	0.159	11.10	41.8	7.33
274786		1.975	0.071	0.082	0.320	23.9	0.100	2.82	35.8	1.34
274787		6.85	0.088	0.149	0.524	36.9	0.168	13.70	37.5	6.31
274788		1.665	0.065	0.061	0.256	15.8	0.095	2.21	31.3	0.72
274789		8.09	0.100	0.178	0.526	38.6	0.163	12.65	37.9	13.30
274790		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274791		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274792		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS

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To: GREENSTONE GOLD MINES
 135 HARDROCK ROAD
 GERALDTON ON P0T 1M0

Page: 4 - A
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 Finalized Date: 27- JUL- 2016
 Account: GGMGDFMX

Project: Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS TB16108850

Sample Description	Method Analyte Units LOR	WEI- 21	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
274793		0.52	0.0012	0.068	2.32	180.5	20	133.5	0.84	0.181	1.30	0.086	68.2	13.05	55.0	1.570
274794		0.14	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274795		0.39	0.0036	0.042	1.38	140.5	10	68.8	0.47	0.099	0.60	0.052	44.4	7.03	36.3	1.125
274796		0.25	0.0006	0.008	0.81	2.77	<10	42.1	0.24	0.110	0.13	0.086	17.50	2.51	12.70	0.153
274797		0.56	0.0004	0.004	0.69	1.24	10	16.1	0.18	0.032	0.16	0.010	23.3	3.56	14.20	0.339
274798		0.25	0.0012	0.009	0.78	6.97	10	29.7	0.21	0.090	0.60	0.184	24.2	5.13	22.3	0.464
274799		0.62	0.0005	0.014	0.64	1.40	10	28.8	0.21	0.051	1.38	0.017	23.8	3.02	18.90	0.296
274800		0.30	0.0004	0.040	0.96	6.30	10	38.6	0.33	0.099	1.61	0.141	26.5	4.39	18.65	0.494

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 135 HARDROCK ROAD
 GERALDTON ON POT 1M0

Page: 4 - B
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 Finalized Date: 27- JUL- 2016
 Account: GGMGDFMX

Project: Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS TB16108850

Sample Description	Method Analyte Units LOR	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
274793		34.6	2.97	7.94	0.116	0.220	0.036	0.026	0.24	38.0	24.0	1.10	695	0.25	0.023	1.575
274794		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274795		11.40	1.850	4.62	0.070	0.115	0.022	0.014	0.11	25.8	14.1	0.59	236	0.18	0.011	1.115
274796		15.95	0.710	4.73	0.029	0.006	0.034	0.008	0.01	8.92	3.2	0.21	23.6	0.52	0.025	0.882
274797		5.60	0.930	1.590	0.043	0.023	0.012	0.009	0.01	10.65	5.3	0.14	48.1	0.10	0.011	0.759
274798		6.27	1.100	2.68	0.052	0.044	0.048	0.007	0.03	11.75	9.4	0.23	82.2	0.21	0.029	1.000
274799		5.64	1.040	2.14	0.042	0.040	0.015	<0.005	0.02	12.25	6.1	0.81	96.4	0.07	0.007	0.519
274800		8.52	1.310	3.20	0.038	0.068	0.061	0.012	0.03	12.00	10.7	0.27	82.3	0.23	0.045	1.320

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To: GREENSTONE GOLD MINES
 135 HARDROCK ROAD
 GERALDTON ON P0T 1M0

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 Account: GGMGDFMX

Project: Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS TB16108850

Sample Description	Method Analyte Units LOR	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	
		Ni ppm	P %	Pb ppm	Pd ppm	Pt ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm
274793		35.7	0.051	11.60	<0.001	<0.001	34.8	<0.001	0.04	0.857	5.82	0.2	0.73	23.2	<0.005	0.04
274794		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274795		19.95	0.042	6.05	<0.001	<0.001	17.65	<0.001	0.02	0.598	3.61	0.1	0.41	12.65	<0.005	0.01
274796		7.64	0.015	7.52	<0.001	<0.001	1.315	<0.001	0.05	0.045	1.005	0.1	0.44	7.05	<0.005	0.01
274797		9.06	0.037	2.24	<0.001	<0.001	1.755	<0.001	0.03	0.022	1.335	0.1	0.20	5.17	<0.005	<0.01
274798		9.93	0.031	8.35	<0.001	<0.001	2.67	<0.001	0.09	0.115	1.530	0.2	0.34	10.10	<0.005	0.02
274799		7.61	0.033	3.33	<0.001	<0.001	3.02	<0.001	0.02	0.027	1.830	0.1	0.92	10.55	<0.005	<0.01
274800		9.39	0.027	6.62	<0.001	0.001	5.53	<0.001	0.09	0.068	1.440	0.4	0.37	18.40	<0.005	0.02

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To: GREENSTONE GOLD MINES
 135 HARDROCK ROAD
 GERALDTON ON P0T 1M0

Page: 4 - D
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 Plus Appendix Pages
 Finalized Date: 27- JUL- 2016
 Account: GGMGDFMX

Project: Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS TB16108850

Sample Description	Method Analyte Units LOR	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44
		Th	Tl	Tl	U	V	W	Y	Zn	Zr
		ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.002	0.001	0.002	0.005	0.1	0.001	0.003	0.1	0.01
274793		8.74	0.103	0.232	0.537	48.2	0.163	13.35	62.4	11.15
274794		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
274795		5.04	0.056	0.114	0.448	29.6	0.201	9.13	31.7	4.93
274796		0.453	0.031	0.030	0.526	18.0	0.038	2.39	9.5	0.33
274797		2.04	0.035	0.029	0.325	16.3	0.071	3.81	7.1	0.92
274798		1.320	0.035	0.053	0.598	20.3	0.107	4.16	13.0	1.00
274799		2.79	0.028	0.042	0.275	18.2	0.081	5.50	10.6	1.56
274800		1.115	0.029	0.053	0.695	21.5	0.093	4.01	14.4	2.83

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

Grab Sample Assays



Date Submitted: 20-Jul-16
Invoice No.: A16-07015
Invoice Date: 04-Aug-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

34 Rock samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1E3-Tbay Aqua Regia ICP(AQUAGEO)

Code 1F2-Tbay Total Digestion ICP(TOTAL)

REPORT **A16-07015**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva".

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Date Submitted: 20-Jul-16
Invoice No.: A16-07015
Invoice Date: 04-Aug-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

34 Rock samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-50-Geraldton Au - Fire Assay AA

REPORT **A16-07015**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.



CERTIFIED BY:

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva".

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
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E-MAIL Geraldton@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A16-07015

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
226501	< 5	< 0.2	< 0.5	68	267	1	51	< 2	48	1.18	2	< 10	276	< 0.5	< 2	0.65	24	65	3.00	< 10	< 1	0.80	22
226502	< 5	< 0.2	< 0.5	32	287	< 1	30	3	32	1.27	3	< 10	62	< 0.5	< 2	0.38	9	78	2.27	< 10	< 1	0.13	< 10
226503	< 5	< 0.2	< 0.5	15	257	< 1	8	4	35	1.39	4	< 10	37	< 0.5	< 2	0.91	8	18	1.59	< 10	< 1	0.09	< 10
226504	25	0.5	1.1	74	1060	< 1	53	3	43	1.19	86	< 10	< 10	< 0.5	3	0.24	40	26	27.9	< 10	< 1	0.07	< 10
226505	< 5	< 0.2	< 0.5	164	579	2	66	< 2	82	3.22	3	< 10	305	< 0.5	< 2	0.31	33	202	6.69	20	< 1	2.15	60
226506	3700	0.8	< 0.5	65	580	7	30	14	76	2.15	12	< 10	219	< 0.5	< 2	1.41	11	45	4.53	< 10	< 1	0.19	< 10
226507	< 5	< 0.2	< 0.5	63	585	1	31	< 2	46	1.91	< 2	< 10	34	< 0.5	< 2	2.33	18	29	4.09	< 10	< 1	0.22	< 10
226508	10	< 0.2	< 0.5	3	180	< 1	< 1	4	52	0.63	< 2	< 10	49	< 0.5	< 2	0.42	2	2	0.91	< 10	< 1	0.18	< 10
226509	< 5	0.4	0.9	210	804	< 1	47	< 2	83	3.74	7	< 10	31	< 0.5	< 2	0.26	20	105	16.8	20	< 1	1.41	16
226510	< 5	< 0.2	< 0.5	218	87	< 1	4	< 2	28	0.39	4	< 10	18	< 0.5	< 2	0.42	5	6	2.21	< 10	< 1	0.04	< 10
226511	< 5	< 0.2	< 0.5	40	292	< 1	2	< 2	39	1.40	3	< 10	59	< 0.5	< 2	0.29	6	13	2.39	< 10	< 1	0.78	< 10
226512	< 5	0.2	< 0.5	334	578	< 1	22	< 2	49	2.50	3	< 10	37	< 0.5	< 2	2.26	38	44	6.24	10	< 1	0.11	12
226513	< 5	< 0.2	< 0.5	7	63	< 1	1	< 2	2	0.18	< 2	< 10	14	< 0.5	< 2	0.18	1	4	0.46	< 10	< 1	0.06	< 10
226514	< 5	< 0.2	< 0.5	56	398	< 1	48	< 2	29	0.97	< 2	< 10	24	< 0.5	< 2	1.92	12	101	2.16	< 10	< 1	0.05	18
226515	5	< 0.2	< 0.5	< 1	248	< 1	1	2	16	0.02	< 2	19	26	< 0.5	< 2	14.0	1	< 1	0.04	< 10	< 1	< 0.01	< 10
226516	< 5	< 0.2	< 0.5	72	149	< 1	2	< 2	5	0.39	5	< 10	24	< 0.5	< 2	0.72	2	3	1.81	< 10	< 1	0.05	< 10
226517	< 5	< 0.2	< 0.5	24	591	< 1	26	< 2	51	2.88	6	< 10	42	< 0.5	< 2	2.47	13	54	3.64	< 10	< 1	0.16	< 10
226518	< 5	< 0.2	< 0.5	7	236	< 1	11	4	13	0.67	< 2	< 10	25	< 0.5	< 2	0.94	4	17	0.90	< 10	< 1	0.07	< 10
226519	< 5	< 0.2	< 0.5	3	509	< 1	9	2	10	0.51	6	16	24	< 0.5	< 2	1.51	4	10	1.46	< 10	< 1	0.04	< 10
226520	< 5	< 0.2	< 0.5	117	262	< 1	4	< 2	7	0.50	< 2	< 10	125	< 0.5	6	1.01	2	14	6.04	< 10	< 1	0.09	< 10
226521	< 5	< 0.2	< 0.5	108	1490	< 1	41	< 2	52	2.24	4	< 10	64	< 0.5	< 2	5.67	45	48	9.10	< 10	< 1	0.12	< 10
226522	> 5000	0.8	< 0.5	52	451	678	24	3	50	1.46	14	< 10	52	< 0.5	< 2	1.01	8	33	3.63	< 10	2	0.19	< 10
226523	11	< 0.2	< 0.5	2	382	3	15	< 2	20	1.63	5	< 10	29	< 0.5	< 2	1.67	7	71	1.76	< 10	< 1	0.08	< 10
226524	< 5	< 0.2	< 0.5	9	310	< 1	9	< 2	42	1.40	< 2	< 10	82	< 0.5	< 2	0.20	6	37	2.30	< 10	< 1	0.36	< 10
226525	< 5	< 0.2	< 0.5	26	687	< 1	19	< 2	39	1.63	3	< 10	147	< 0.5	< 2	1.05	13	20	4.54	< 10	< 1	0.75	13
226526	31	< 0.2	< 0.5	37	207	< 1	20	3	33	1.09	< 2	< 10	96	< 0.5	< 2	0.32	7	43	2.22	< 10	< 1	0.29	< 10
226527	< 5	< 0.2	< 0.5	< 1	662	< 1	48	< 2	32	1.55	4	< 10	65	0.7	< 2	3.71	15	61	3.46	< 10	< 1	0.26	11
226528	< 5	< 0.2	< 0.5	51	703	< 1	25	< 2	76	2.82	< 2	< 10	276	< 0.5	< 2	0.37	20	152	6.04	10	< 1	0.92	< 10
226529	< 5	< 0.2	< 0.5	6	975	2	33	< 2	46	3.08	3	< 10	54	< 0.5	< 2	2.70	13	45	3.20	< 10	< 1	0.11	< 10
226530	< 5	< 0.2	< 0.5	6	985	< 1	34	4	45	3.13	3	< 10	56	< 0.5	< 2	2.80	13	45	3.23	< 10	< 1	0.11	< 10
226531	6	< 0.2	< 0.5	89	483	< 1	42	12	56	2.06	< 2	< 10	228	< 0.5	< 2	0.77	16	104	3.91	10	< 1	0.74	25
226532	< 5	< 0.2	< 0.5	4	455	< 1	22	< 2	22	0.79	5	< 10	96	< 0.5	< 2	1.22	9	44	2.06	< 10	< 1	0.14	< 10
226533	< 5	< 0.2	< 0.5	27	967	< 1	27	5	66	3.12	3	< 10	42	< 0.5	3	0.64	13	180	4.56	10	< 1	0.16	< 10
226534	< 5	< 0.2	< 0.5	7	227	< 1	3	< 2	40	2.72	< 2	< 10	188	< 0.5	< 2	0.27	5	7	2.99	20	< 1	1.34	19

Results

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Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.3	0.01	3	7	1	2	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
226501	0.84	0.358	0.167	0.47	< 2	8	150	0.12	< 20	4	< 2	< 10	53	< 10	12	6	0.3	6.13	3	436	2	3	1.52
226502	1.13	0.063	0.045	0.04	< 2	6	33	0.14	< 20	5	< 2	< 10	49	< 10	2	10	0.5	3.83	< 3	337	< 1	< 2	1.00
226503	0.64	0.098	0.032	0.04	< 2	4	44	0.13	< 20	11	< 2	< 10	31	< 10	3	6	0.9	6.09	< 3	349	< 1	< 2	2.67
226504	0.52	0.014	0.023	16.8	10	3	10	0.09	< 20	6	< 2	< 10	28	< 10	3	13	0.6	1.83	132	39	< 1	3	0.46
226505	1.73	0.103	0.070	0.42	5	19	17	0.31	< 20	5	3	< 10	147	< 10	10	24	1.0	7.18	< 3	581	< 1	4	1.53
226506	1.00	0.147	0.065	0.06	5	8	63	0.21	< 20	< 1	< 2	< 10	92	< 10	10	8	0.7	4.50	13	499	< 1	3	2.49
226507	1.57	0.259	0.071	0.14	< 2	13	10	0.30	< 20	10	< 2	< 10	92	< 10	11	8	0.3	7.49	5	66	< 1	4	5.38
226508	0.20	0.110	0.018	0.07	< 2	1	14	0.06	< 20	3	< 2	< 10	8	< 10	2	14	< 0.3	7.30	< 3	374	< 1	< 2	1.53
226509	2.17	0.064	0.081	1.02	8	18	7	0.21	< 20	8	5	< 10	242	< 10	10	21	0.6	6.47	< 3	470	< 1	3	1.33
226510	0.09	0.040	0.013	0.26	< 2	2	5	0.04	< 20	< 1	< 2	< 10	18	< 10	1	3	< 0.3	1.32	< 3	20	< 1	< 2	0.96
226511	0.77	0.131	0.038	0.11	< 2	4	26	0.20	< 20	6	< 2	< 10	35	< 10	2	12	0.7	6.90	< 3	131	< 1	< 2	2.08
226512	1.38	0.113	0.054	0.32	< 2	10	41	0.25	< 20	7	< 2	< 10	110	< 10	18	20	0.4	7.95	3	213	< 1	4	4.46
226513	0.03	0.052	0.008	< 0.01	< 2	< 1	5	< 0.01	< 20	< 1	< 2	< 10	3	< 10	1	4	< 0.3	1.00	< 3	20	< 1	< 2	0.26
226514	0.93	0.134	0.064	0.22	2	6	26	0.10	< 20	1	< 2	< 10	55	< 10	6	10	< 0.3	7.08	12	70	< 1	< 2	4.79
226515	11.2	0.017	0.002	< 0.01	< 2	< 1	82	< 0.01	< 20	3	< 2	< 10	2	< 10	< 1	< 1	< 0.3	0.05	< 3	24	< 1	< 2	18.5
226516	0.29	0.051	0.101	0.02	< 2	2	22	< 0.01	< 20	< 1	< 2	< 10	5	< 10	4	1	< 0.3	1.04	6	55	< 1	< 2	1.08
226517	0.94	0.158	0.102	0.09	< 2	8	56	0.13	< 20	6	< 2	< 10	101	< 10	7	6	< 0.3	4.70	37	222	< 1	6	3.37
226518	0.46	0.102	0.057	< 0.01	< 2	2	25	0.02	< 20	1	< 2	< 10	20	< 10	2	1	< 0.3	6.53	10	85	2	< 2	2.69
226519	0.35	0.088	0.022	< 0.01	< 2	4	10	0.08	< 20	< 1	< 2	< 10	50	< 10	3	1	< 0.3	2.48	9	33	< 1	< 2	1.89
226520	0.50	0.073	0.112	0.02	4	4	15	0.02	< 20	6	< 2	< 10	13	< 10	7	5	< 0.3	2.02	< 3	128	1	< 2	1.72
226521	2.62	0.031	0.055	0.12	3	18	40	< 0.01	< 20	8	5	< 10	133	< 10	11	6	0.3	5.90	5	178	< 1	< 2	6.14
226522	0.62	0.106	0.050	0.80	21	6	60	0.14	< 20	9	< 2	< 10	73	< 10	8	12	1.1	5.63	12	356	< 1	< 2	1.75
226523	0.73	0.277	0.071	< 0.01	3	11	22	0.20	< 20	1	< 2	< 10	69	< 10	12	5	< 0.3	7.76	< 3	48	< 1	< 2	4.58
226524	0.86	0.093	0.027	0.04	< 2	6	9	0.16	< 20	4	< 2	< 10	43	< 10	2	10	< 0.3	6.41	< 3	142	< 1	< 2	2.02
226525	0.97	0.106	0.067	< 0.01	< 2	9	18	0.14	< 20	4	< 2	< 10	66	< 10	8	15	0.3	5.98	< 3	159	< 1	< 2	1.96
226526	0.72	0.068	0.024	0.15	< 2	4	32	0.11	< 20	2	< 2	< 10	32	< 10	1	11	< 0.3	2.85	< 3	225	< 1	< 2	0.84
226527	1.30	0.194	0.136	< 0.01	< 2	12	33	0.11	< 20	9	< 2	< 10	88	< 10	38	4	< 0.3	6.92	6	79	4	< 2	6.22
226528	1.46	0.125	0.056	0.07	5	17	13	0.23	< 20	< 1	< 2	< 10	141	< 10	8	19	0.3	7.30	< 3	313	< 1	< 2	2.20
226529	1.75	0.095	0.044	< 0.01	< 2	7	128	0.24	< 20	13	< 2	< 10	49	< 10	8	6	< 0.3	7.52	< 3	122	< 1	< 2	6.43
226530	1.77	0.095	0.046	< 0.01	< 2	7	131	0.24	< 20	7	< 2	< 10	49	< 10	8	6	< 0.3	7.51	< 3	120	< 1	< 2	6.50
226531	1.20	0.101	0.043	0.08	5	11	44	0.22	< 20	8	< 2	< 10	90	< 10	9	18	0.4	6.94	4	472	< 1	< 2	1.72
226532	0.67	0.124	0.238	< 0.01	< 2	6	20	0.08	< 20	9	< 2	< 10	43	< 10	31	3	< 0.3	2.68	3	90	< 1	< 2	1.81
226533	2.18	0.204	0.081	0.03	4	12	46	0.12	< 20	17	< 2	< 10	72	< 10	5	7	< 0.3	9.97	6	270	2	< 2	2.99
226534	1.02	0.035	0.051	< 0.01	2	2	7	0.18	< 20	< 1	< 2	< 10	26	< 10	4	33	0.5	11.2	< 3	> 1000	< 1	< 2	0.43

Results

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Analyte Symbol	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
226501	< 0.3	27	135	67	6.33	17	< 1	1.27	1.67	66	380	< 1	5.75	74	0.145	6	< 5	0.44	15	225	6	0.41	< 5
226502	< 0.3	10	64	30	2.13	8	1	0.73	1.04	15	293	< 1	1.21	36	0.040	7	< 5	0.04	8	268	3	0.15	< 5
226503	< 0.3	6	23	16	1.61	16	< 1	1.41	0.57	15	281	1	2.70	10	0.024	< 3	< 5	0.04	5	225	5	0.15	< 5
226504	< 0.3	70	35	92	30.8	5	< 1	0.19	0.53	9	2390	4	0.18	81	0.023	43	8	> 20.0	6	32	6	0.17	11
226505	0.3	36	197	158	6.27	19	< 1	1.64	1.59	61	625	2	2.13	74	0.066	11	< 5	0.43	20	222	19	0.48	< 5
226506	0.7	14	67	59	4.54	12	< 1	0.78	1.22	15	758	8	2.11	39	0.058	12	< 5	0.07	11	233	11	0.36	< 5
226507	0.3	27	53	63	5.59	14	< 1	0.39	2.13	10	891	1	2.66	55	0.066	< 3	< 5	0.14	20	138	6	0.46	< 5
226508	0.4	3	69	2	0.93	17	< 1	1.22	0.20	10	183	< 1	3.79	3	0.015	6	< 5	0.06	< 4	237	< 2	0.09	< 5
226509	0.5	23	114	208	16.1	21	< 1	1.39	2.11	31	893	2	1.30	65	0.081	10	< 5	1.09	20	141	26	0.32	< 5
226510	0.5	5	85	207	2.23	3	< 1	0.08	0.13	2	141	< 1	0.36	7	0.011	< 3	< 5	0.25	< 4	19	3	0.07	6
226511	< 0.3	5	14	43	2.22	15	< 1	1.07	0.68	17	303	< 1	3.72	5	0.029	3	< 5	0.09	4	410	< 2	0.14	< 5
226512	< 0.3	50	54	329	8.43	17	< 1	0.56	2.13	14	1090	< 1	2.91	46	0.051	7	< 5	0.35	25	197	8	0.51	< 5
226513	< 0.3	< 1	12	6	0.46	2	< 1	0.18	0.05	2	73	< 1	0.47	2	0.007	< 3	< 5	< 0.01	< 4	43	< 2	0.02	< 5
226514	< 0.3	18	133	54	3.41	18	< 1	0.15	1.66	8	689	< 1	3.07	62	0.059	16	< 5	0.21	12	433	13	0.24	< 5
226515	0.6	2	3	< 1	0.04	< 1	< 1	0.01	12.0	9	293	< 1	0.03	2	0.003	5	< 5	0.01	< 4	99	7	< 0.01	< 5
226516	< 0.3	2	6	64	1.81	< 1	< 1	0.10	0.34	5	226	< 1	0.25	3	0.086	37	< 5	0.02	< 4	74	4	0.02	< 5
226517	< 0.3	21	63	49	4.15	11	< 1	0.72	1.04	18	837	< 1	0.44	45	0.091	4	< 5	0.09	13	114	5	0.23	10
226518	< 0.3	4	23	6	1.00	8	< 1	0.27	0.54	7	289	2	3.06	19	0.051	10	< 5	< 0.01	< 4	545	5	0.04	< 5
226519	< 0.3	6	20	2	1.74	7	< 1	0.08	0.49	4	477	1	0.95	26	0.021	4	< 5	< 0.01	6	70	< 2	0.14	< 5
226520	0.7	4	21	111	5.99	1	< 1	0.14	0.72	9	372	< 1	0.78	11	0.102	6	< 5	0.02	7	133	6	0.03	< 5
226521	< 0.3	50	75	114	9.04	14	< 1	0.75	2.60	26	1610	< 1	1.48	55	0.048	7	< 5	0.14	36	124	22	0.41	5
226522	< 0.3	12	42	55	3.75	11	< 1	1.42	0.81	23	500	732	1.80	31	0.049	4	8	0.78	11	271	3	0.29	< 5
226523	< 0.3	15	71	2	3.65	15	< 1	0.29	1.62	10	915	< 1	3.07	45	0.052	< 3	< 5	< 0.01	23	140	4	0.09	< 5
226524	< 0.3	7	29	8	2.21	16	1	0.64	0.78	21	343	< 1	2.95	17	0.021	< 3	< 5	0.03	6	200	4	0.08	< 5
226525	0.4	16	34	26	4.26	16	< 1	1.07	0.88	16	643	< 1	3.41	28	0.051	< 3	< 5	< 0.01	12	90	6	0.19	< 5
226526	< 0.3	6	61	35	2.10	5	< 1	0.67	0.65	14	229	< 1	0.78	17	0.022	9	< 5	0.14	5	126	3	0.13	< 5
226527	< 0.3	27	96	4	5.79	19	< 1	0.48	2.16	19	1050	< 1	2.53	92	0.106	< 3	< 5	< 0.01	24	161	9	0.17	< 5
226528	< 0.3	20	121	49	5.98	16	< 1	1.09	1.34	36	1350	< 1	2.02	34	0.048	4	< 5	0.07	19	112	19	0.14	< 5
226529	0.5	19	83	6	5.02	15	< 1	0.38	2.54	15	1900	< 1	1.36	59	0.041	6	< 5	< 0.01	16	262	10	0.22	< 5
226530	0.5	19	50	7	4.99	15	< 1	0.38	2.53	15	1880	< 1	1.38	57	0.043	3	< 5	< 0.01	16	259	31	0.22	< 5
226531	0.6	17	80	84	3.74	13	3	1.63	1.10	31	547	< 1	2.70	50	0.039	12	< 5	0.07	14	264	< 2	0.19	< 5
226532	< 0.3	13	59	4	2.78	5	< 1	0.19	1.03	8	627	< 1	1.02	39	0.217	< 3	< 5	< 0.01	9	56	< 2	0.18	< 5
226533	< 0.3	14	112	28	4.37	20	< 1	0.83	2.09	28	1170	< 1	2.98	32	0.082	14	< 5	0.03	14	454	11	0.26	< 5
226534	< 0.3	7	23	8	3.48	55	< 1	3.92	1.40	66	260	< 1	0.58	7	0.041	3	< 5	< 0.01	10	72	5	0.22	< 5

Results

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Analyte Symbol	U	V	W	Y	Zn	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne
Lower Limit	10	2	5	1	1	5	0.02
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	FA-GRA
226501	< 10	130	14	14	60	126	
226502	< 10	52	< 5	3	33	37	
226503	< 10	34	< 5	4	33	72	
226504	< 10	42	< 5	6	55	53	
226505	< 10	153	< 5	14	82	270	
226506	< 10	130	8	12	83	47	
226507	< 10	144	< 5	17	70	97	
226508	< 10	13	< 5	2	53	63	
226509	< 10	259	< 5	14	93	91	
226510	< 10	25	< 5	2	29	27	
226511	< 10	28	< 5	3	40	66	
226512	< 10	174	< 5	33	69	142	
226513	< 10	5	< 5	2	3	14	
226514	< 10	88	< 5	10	50	71	
226515	< 10	3	< 5	< 1	29	< 5	
226516	< 10	6	< 5	6	7	< 5	
226517	< 10	137	< 5	13	58	53	
226518	< 10	25	< 5	2	17	< 5	
226519	< 10	88	< 5	4	16	24	
226520	< 10	15	< 5	12	10	12	
226521	< 10	191	< 5	25	60	73	
226522	< 10	229	12	14	55	69	6.38
226523	< 10	28	< 5	22	50	33	
226524	< 10	18	< 5	4	41	43	
226525	< 10	54	< 5	13	41	102	
226526	< 10	35	< 5	2	34	46	
226527	< 10	72	< 5	53	54	76	
226528	< 10	63	< 5	18	77	81	
226529	< 10	64	5	17	70	57	
226530	< 10	61	< 5	17	69	54	
226531	< 10	81	< 5	13	67	82	
226532	< 10	59	< 5	50	33	17	
226533	< 10	75	< 5	7	66	77	
226534	< 10	62	< 5	6	55	154	

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas		29.9	3.3	1170	816	14	20	664	664	0.36	405	< 10	328	0.8	1480	0.81	4	8	24.1	< 10	2	0.03	< 10
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50
GXR-1 Meas																							
GXR-1 Cert																							
GXR-4 Meas		3.5	< 0.5	6530	141	367	34	43	66	2.85	100	< 10	24	1.4	20	0.95	15	57	3.25	10	< 1	1.72	49
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5
GXR-4 Meas																							
GXR-4 Cert																							
SDC-1 Meas																							
SDC-1 Cert																							
SDC-1 Meas																							
SDC-1 Cert																							
GXR-6 Meas		0.3	< 0.5	74	1070	2	19	99	117	7.44	231	< 10	913	0.9	< 2	0.14	14	83	6.32	20	< 1	1.20	10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
GXR-6 Meas																							
GXR-6 Cert																							
OREAS 14P Meas																							
OREAS 14P Cert																							
Oreas 72a (4 Acid Digest) Meas																							
Oreas 72a (4 Acid Digest) Cert																							
DNC-1a Meas																							
DNC-1a Cert																							
DNC-1a Meas																							
DNC-1a Cert																							
OxP 91 Meas																							
OxP 91 Cert																							
SBC-1 Meas																							
SBC-1 Cert																							
SBC-1 Meas																							
SBC-1 Cert																							
OxK110 Meas																							
OxK110 Cert																							
SdAR-M2 (U.S.G.S.) Meas			5.1	248		14	44	881	782				148	5.0	< 2		13	10		< 10	2		49
SdAR-M2 (U.S.G.S.) Cert			5.1	236.0000		13.3	48.8	808	760				990	6.6	1.05		12.4	49.6		17.6	1.44		46.6
SdAR-M2 (U.S.G.S.) Meas																							
SdAR-M2 (U.S.G.S.) Cert																							
SF85 Meas		834																					
SF85 Cert		848																					
OxD128 Meas		404																					
OxD128 Cert		424.000																					
226501 Orig		< 0.2	< 0.5	68	266	1	52	< 2	48	1.17	2	< 10	279	< 0.5	< 2	0.64	24	64	2.98	< 10	< 1	0.79	22
226501 Dup		< 0.2	< 0.5	68	268	1	51	4	48	1.18	3	< 10	273	< 0.5	< 2	0.65	25	65	3.01	< 10	< 1	0.80	22
226510 Orig		6																					
226510 Dup		< 5																					

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
226513 Orig																							
226513 Dup																							
226520 Orig	< 5																						
226520 Dup	5																						
226524 Orig		< 0.2	< 0.5	10	309	< 1	10	< 2	43	1.42	< 2	< 10	83	< 0.5	< 2	0.20	6	37	2.32	< 10	< 1	0.36	< 10
226524 Dup		< 0.2	< 0.5	8	310	< 1	8	< 2	42	1.38	2	< 10	81	< 0.5	< 2	0.19	6	37	2.27	< 10	< 1	0.36	< 10
226530 Orig	< 5																						
226530 Dup	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	178	< 0.01	< 20	15	< 2	33	74	145	24	15	31.6	2.15	415	653	1	1390	0.85
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	0.14	0.047	0.047	0.21	83	1	178	< 0.01	< 20	15	< 2	33	74	145	24	15	31.6	2.15	415	653	1	1390	0.85
GXR-1 Cert	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0	0.390	34.9	80.0	164	32.0	38.0	31.0	3.52	427	750	1.22	1380	0.960
GXR-1 Meas																							
GXR-1 Cert																							
GXR-4 Meas	1.71	0.129	0.131	1.77	4	8	73	0.14	< 20	3	7	< 10	79	12	11	10	3.4	6.55	92	268	2	7	1.06
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970	3.20	6.20	87.0	30.8	14.0	186	4.0	7.20	98.0	1640	1.90	19.0	1.01
GXR-4 Meas																							
GXR-4 Cert																							
SDC-1 Meas																		7.98	< 3	630	3		1.11
SDC-1 Cert																		8.34	0.220	630	3.00		1.00
SDC-1 Meas																							
SDC-1 Cert																							
GXR-6 Meas	0.43	0.070	0.037	0.01	8	22	28		< 20	< 1	< 2	< 10	167	< 10	5	7	0.5	12.1	265	> 1000	1	< 2	0.16
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110	1.30	17.7	330	1300	1.40	0.290	0.180
GXR-6 Meas																							
GXR-6 Cert																							
OREAS 14P Meas																							
OREAS 14P Cert																							
Oreas 72a (4 Acid Digest) Meas																							
Oreas 72a (4 Acid Digest) Cert																							
DNC-1a Meas																					96		
DNC-1a Cert																					118		
DNC-1a Meas																							
DNC-1a Cert																							
OxP 91 Meas																							
OxP 91 Cert																							
SBC-1 Meas																				27	757	3	5
SBC-1 Cert																				25.7	788.0	3.20	0.70
SBC-1 Meas																							
SBC-1 Cert																							
OxK110 Meas																							
OxK110 Cert																							
SdAR-M2 (U.S.G.S.) Meas							3	23	< 20			< 10	19	< 10	18	7				999	8	< 2	
SdAR-M2 (U.S.G.S.) Cert							4.1	144	14.2			2.53	25.2	2.8	32.7	259				990	6.6	1.05	
SdAR-M2 (U.S.G.S.) Meas																							
SdAR-M2 (U.S.G.S.) Cert																							
SF85 Meas																							
SF85 Cert																							
OxD128 Meas																							
OxD128 Cert																							
226501 Orig	0.83	0.357	0.166	0.46	2	8	149	0.11	< 20	6	< 2	< 10	52	< 10	12	6							
226501 Dup	0.84	0.360	0.168	0.47	< 2	9	152	0.12	< 20	1	< 2	< 10	53	< 10	12	6							
226510 Orig																							
226510 Dup																							

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.3	0.01	3	7	1	2	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
226513 Orig																	< 0.3	0.99	< 3	20	< 1	< 2	0.26
226513 Dup																	< 0.3	1.00	< 3	19	< 1	< 2	0.26
226520 Orig																							
226520 Dup																							
226524 Orig	0.88	0.094	0.027	0.04	2	6	9	0.15	< 20	4	< 2	< 10	44	< 10	2	9							
226524 Dup	0.85	0.092	0.026	0.04	< 2	6	9	0.16	< 20	4	< 2	< 10	42	< 10	2	10							
226530 Orig																							
226530 Dup																							
Method Blank																							
Method Blank																							
Method Blank	< 0.01	< 0.001	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank	< 0.01	< 0.001	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																							
Method Blank																							

Analyte Symbol	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	3.0	7	18	1190	23.3	10	2	0.04	0.20	7	857	17	0.05	47	0.059	722	63	0.25	< 4	284	39	0.03	5
GXR-1 Cert	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520	41.0	0.0650	730	122	0.257	1.58	275	13.0	0.036	0.390
GXR-1 Meas				1170																			
GXR-1 Cert				1110																			
GXR-4 Meas	0.4	16	54	6440	3.03	16	< 1	3.15	1.67	11	154	335	0.55	36	0.130	49	6	1.78	8	215	< 2	0.29	< 5
GXR-4 Cert	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564	42.0	0.120	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20
GXR-4 Meas				6460																			
GXR-4 Cert				6520																			
SDC-1 Meas		19	61	32	4.81	21	< 1	2.48	1.01	34	887		1.53	40	0.057	28	< 5		17	177		0.21	9
SDC-1 Cert		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34.00	880.00		1.52	38.0	0.0690	25.00	0.54		17.00	180.00		0.606	0.70
SDC-1 Meas				34																			
SDC-1 Cert				30.000																			
GXR-6 Meas	0.5	15	68	72	5.84	29	< 1	1.74	0.59	34	1100	3	0.10	30	0.036	99	< 5	0.02	27	36	11		< 5
GXR-6 Cert	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104	27.0	0.0350	101	3.60	0.0160	27.6	35.0	0.0180		2.20
GXR-6 Meas				73																			
GXR-6 Cert				66.0																			
OREAS 14P Meas		645		9180	31.7									> 10000									
OREAS 14P Cert		750		9970	37.2									21000									
Oreas 72a (4 Acid Digest) Meas				330																			
Oreas 72a (4 Acid Digest) Cert				316																			
DNC-1a Meas		56	130	100		9				5				261		10	< 5		31	132		0.29	
DNC-1a Cert		57.0	270	100.00		15				5.20				247		6.3	0.96		31	144.0		0.29	
DNC-1a Meas				103																			
DNC-1a Cert				100.00																			
OxP 91 Meas																							
OxP 91 Cert																							
SBC-1 Meas	< 0.3	25	95	30		26				165		1		89		28	< 5		20	178		0.52	< 5
SBC-1 Cert	0.40	22.7	109	31.0000		27.0				163.0		2.40		82.8		35.0	1.01		20.0	178.0		0.51	0.89
SBC-1 Meas				38																			
SBC-1 Cert				31.0000																			
OxK110 Meas																							
OxK110 Cert																							
SdAR-M2 (U.S.G.S.) Meas	5.2	15	35	245		17	3			17		16		71		818			4	147			
SdAR-M2 (U.S.G.S.) Cert	5.1	12.4	49.6	236.0000		17.6	1.44			17.9		13.3		48.8		808			4.1	144			
SdAR-M2 (U.S.G.S.) Meas				274																			
SdAR-M2 (U.S.G.S.) Cert				236.0000																			
SF85 Meas																							
SF85 Cert																							
OxD128 Meas																							
OxD128 Cert																							
226501 Orig																							
226501 Dup																							
226510 Orig																							
226510 Dup																							

Analyte Symbol	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
226513 Orig	< 0.3	< 1	11		0.46	2	< 1	0.18	0.05	2	73	< 1	0.47	2	0.007	< 3	< 5	0.02	< 4	43	< 2	0.02	< 5
226513 Dup	< 0.3	< 1	13		0.45	2	< 1	0.18	0.05	2	73	< 1	0.47	3	0.007	< 3	< 5	< 0.01	< 4	43	< 2	0.02	8
226520 Orig																							
226520 Dup																							
226524 Orig																							
226524 Dup																							
226530 Orig																							
226530 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank				< 1																			
Method Blank				< 1																			

Analyte Symbol	U	V	W	Y	Zn	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne
Lower Limit	10	2	5	1	1	5	0.02
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	FA-GRA
GXR-1 Meas	40	85	163	33	733	30	
GXR-1 Cert	34.9	80.0	164	32.0	760	38.0	
GXR-1 Meas							
GXR-1 Cert							
GXR-4 Meas	< 10	87	32	15	69	47	
GXR-4 Cert	6.20	87.0	30.8	14.0	73.0	186	
GXR-4 Meas							
GXR-4 Cert							
SDC-1 Meas	< 10	47	< 5		99	36	
SDC-1 Cert	3.10	102.00	0.80		103.00	290.00	
SDC-1 Meas							
SDC-1 Cert							
GXR-6 Meas	< 10	146	< 5	12	129	72	
GXR-6 Cert	1.54	186	1.90	14.0	118	110	
GXR-6 Meas							
GXR-6 Cert							
OREAS 14P Meas							
OREAS 14P Cert							
Oreas 72a (4 Acid Digest) Meas							
Oreas 72a (4 Acid Digest) Cert							
DNC-1a Meas		143		16	59	36	
DNC-1a Cert		148.0000		18.0	70.0	38.0	
DNC-1a Meas							
DNC-1a Cert							
OxP 91 Meas							14.8
OxP 91 Cert							14.82
SBC-1 Meas	< 10	216	< 5	33	182	119	
SBC-1 Cert	5.76	220.0	1.60	36.5	186.0	134.0	
SBC-1 Meas							
SBC-1 Cert							
OxK110 Meas							3.60
OxK110 Cert							3.602
SdAR-M2 (U.S.G.S.) Meas	< 10	26	10	30	781	121	
SdAR-M2 (U.S.G.S.) Cert	2.53	25.2	2.8	32.7	760	259	
SdAR-M2 (U.S.G.S.) Meas							
SdAR-M2 (U.S.G.S.) Cert							
SF85 Meas							
SF85 Cert							
OxD128 Meas							
OxD128 Cert							
226501 Orig							
226501 Dup							
226510 Orig							

Analyte Symbol	U	V	W	Y	Zn	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne
Lower Limit	10	2	5	1	1	5	0.02
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	FA-GRA
226510 Dup							
226513 Orig	< 10	5	< 5	2	5	14	
226513 Dup	< 10	5	< 5	2	2	14	
226520 Orig							
226520 Dup							
226524 Orig							
226524 Dup							
226530 Orig							
226530 Dup							
Method Blank							
Method Blank							
Method Blank							
Method Blank							
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5	
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5	
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5	
Method Blank							< 0.02
Method Blank							



Date Submitted: 20-Jul-16
Invoice No.: A16-07014
Invoice Date: 29-Jul-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

19 Rock samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-50-Geraldton Au - Fire Assay AA

REPORT **A16-07014**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.



CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé".

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
801 Main Street, P.O. Box 999, Geraldton, Ontario, Canada, P0T 1M0
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E-MAIL Geraldton@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Date Submitted: 20-Jul-16
Invoice No.: A16-07014
Invoice Date: 29-Jul-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

19 Rock samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1E3-Tbay Aqua Regia ICP(AQUAGEO)

Code 1F2-Tbay Total Digestion ICP(TOTAL)

REPORT **A16-07014**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:



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Quality Control

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Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
226535	< 5	< 0.2	< 0.5	46	863	< 1	43	< 2	55	3.00	7	< 10	87	< 0.5	< 2	2.02	23	83	4.29	< 10	< 1	0.20	11
226536	< 5	< 0.2	< 0.5	2	566	3	10	< 2	16	4.31	< 2	11	59	< 0.5	< 2	4.41	5	70	1.28	< 10	< 1	0.10	11
226537	< 5	< 0.2	< 0.5	15	526	< 1	40	< 2	62	2.12	< 2	< 10	89	< 0.5	< 2	0.81	16	76	3.85	10	< 1	0.18	< 10
226538	< 5	< 0.2	< 0.5	63	237	< 1	8	< 2	62	0.82	8	< 10	57	< 0.5	< 2	0.63	8	25	1.96	< 10	< 1	0.15	< 10
226539	3570	0.7	0.8	62	553	7	26	16	71	2.04	15	< 10	211	< 0.5	< 2	1.36	10	43	4.26	< 10	< 1	0.19	< 10
226540	< 5	< 0.2	< 0.5	21	395	< 1	28	3	29	1.20	< 2	< 10	30	< 0.5	< 2	1.39	9	81	2.49	< 10	< 1	0.08	< 10
226541	6	< 0.2	< 0.5	40	1140	< 1	45	3	70	3.62	3	< 10	33	< 0.5	3	3.36	19	84	5.25	10	< 1	0.16	34
226542	20	0.3	< 0.5	140	683	< 1	2	< 2	47	2.57	< 2	< 10	43	< 0.5	5	3.59	11	4	4.59	10	< 1	0.13	< 10
226543	< 5	< 0.2	< 0.5	< 1	869	< 1	109	< 2	40	3.03	56	< 10	20	< 0.5	2	3.48	38	299	4.61	< 10	< 1	0.03	< 10
226544	< 5	< 0.2	< 0.5	55	461	2	37	6	59	2.42	8	< 10	434	< 0.5	< 2	0.42	16	108	3.95	10	< 1	1.24	19
226545	< 5	< 0.2	< 0.5	< 1	843	< 1	18	< 2	97	2.87	< 2	< 10	47	< 0.5	< 2	2.20	21	61	5.21	< 10	< 1	0.24	< 10
226546	< 5	< 0.2	< 0.5	4	115	< 1	3	4	12	0.61	< 2	< 10	44	< 0.5	< 2	0.30	2	8	0.64	< 10	< 1	0.16	< 10
226547	< 5	< 0.2	< 0.5	58	506	< 1	39	4	49	1.99	5	< 10	68	0.6	< 2	1.34	14	105	3.63	10	< 1	0.22	18
226548	5	< 0.2	< 0.5	2	55	< 1	2	< 2	< 2	0.08	< 2	< 10	13	< 0.5	< 2	0.04	< 1	14	0.50	< 10	< 1	0.02	< 10
226549	< 5	< 0.2	< 0.5	< 1	290	< 1	1	5	14	0.01	< 2	18	41	< 0.5	< 2	14.4	< 1	< 1	0.04	< 10	< 1	0.01	< 10
245951	5	< 0.2	< 0.5	22	470	5	29	3	55	2.69	< 2	< 10	109	< 0.5	< 2	1.23	15	77	4.29	10	< 1	0.41	< 10
245952	5	< 0.2	1.9	108	1210	< 1	85	< 2	133	3.13	18	< 10	42	1.0	< 2	3.51	25	114	9.36	10	< 1	0.13	< 10
245953	11	< 0.2	< 0.5	46	439	< 1	43	2	47	3.26	38	< 10	620	< 0.5	< 2	1.00	12	123	3.34	10	< 1	1.41	12
245954	5	< 0.2	1.2	92	1670	< 1	25	< 2	87	4.19	3	< 10	66	< 0.5	< 2	2.23	14	26	9.82	10	< 1	0.25	13

Results

Activation Laboratories Ltd.

Report: A16-07014

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.3	0.01	3	7	1	2	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
226535	0.95	0.232	0.057	0.33	< 2	12	31	0.19	< 20	5	< 2	< 10	91	< 10	11	14	0.6	6.91	< 3	163	< 1	2	4.14
226536	0.44	0.513	0.085	< 0.01	< 2	10	79	0.21	< 20	2	< 2	< 10	52	< 10	17	4	< 0.3	8.53	< 3	78	1	< 2	6.33
226537	1.92	0.122	0.047	< 0.01	< 2	9	32	0.25	< 20	3	3	< 10	72	< 10	9	23	0.3	7.86	< 3	530	< 1	< 2	2.37
226538	0.29	0.062	0.009	0.17	< 2	4	6	0.07	< 20	5	< 2	< 10	24	< 10	2	5	< 0.3	1.72	10	52	< 1	< 2	1.27
226539	0.94	0.141	0.061	0.05	5	8	61	0.20	< 20	8	< 2	< 10	91	< 10	9	7	0.6	6.35	6	527	< 1	< 2	2.79
226540	1.00	0.273	0.039	0.11	< 2	5	45	0.11	< 20	< 1	< 2	< 10	44	< 10	5	11	< 0.3	4.82	5	64	2	< 2	2.83
226541	1.28	0.206	0.148	0.20	2	12	51	0.16	< 20	6	< 2	< 10	90	< 10	14	9	0.4	6.58	4	122	< 1	7	6.10
226542	0.50	0.214	0.089	0.02	< 2	10	50	0.15	< 20	4	< 2	< 10	21	< 10	14	5	0.3	6.93	4	69	< 1	< 2	6.61
226543	3.71	0.088	0.014	< 0.01	6	7	22	0.07	< 20	< 1	< 2	< 10	61	< 10	4	2	< 0.3	5.22	49	31	< 1	12	6.63
226544	1.56	0.114	0.071	0.11	3	12	19	0.28	< 20	4	< 2	< 10	86	< 10	8	36	0.4	8.07	5	907	1	3	2.06
226545	1.98	0.269	0.057	< 0.01	3	15	10	0.15	< 20	3	< 2	< 10	78	< 10	7	11	< 0.3	7.14	< 3	63	< 1	3	4.57
226546	0.13	0.231	0.002	< 0.01	< 2	< 1	42	< 0.01	< 20	< 1	< 2	< 10	9	< 10	1	< 1	< 0.3	6.13	< 3	231	2	< 2	0.73
226547	1.27	0.064	0.048	0.18	3	10	41	0.21	< 20	< 1	< 2	< 10	74	< 10	10	38	< 0.3	6.67	< 3	833	4	< 2	1.97
226548	0.03	0.030	0.001	< 0.01	< 2	< 1	3	< 0.01	< 20	< 1	< 2	< 10	2	< 10	< 1	< 1	< 0.3	0.20	< 3	12	< 1	< 2	0.06
226549	11.4	0.017	0.003	< 0.01	< 2	< 1	104	< 0.01	< 20	2	< 2	< 10	2	< 10	< 1	< 1	< 0.3	0.04	< 3	37	< 1	< 2	18.2
245951	1.92	0.093	0.051	0.05	< 2	9	56	0.24	< 20	2	< 2	< 10	79	93	4	19	< 0.3	6.72	13	471	1	2	2.79
245952	2.44	0.054	0.090	2.52	18	17	63	0.02	< 20	13	< 2	< 10	120	< 10	13	12	0.5	5.83	29	63	1	6	3.66
245953	1.41	0.313	0.048	0.05	3	10	80	0.21	< 20	< 1	< 2	< 10	74	< 10	5	26	< 0.3	4.96	33	572	< 1	< 2	1.80
245954	1.84	0.133	0.063	0.36	3	10	22	0.09	< 20	1	< 2	< 10	74	< 10	9	5	0.4	7.48	< 3	138	< 1	6	3.52

Analyte Symbol	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
226535	0.6	28	90	43	5.14	15	< 1	0.39	1.09	18	1450	< 1	1.48	52	0.050	< 3	< 5	0.31	17	124	13	0.32	< 5
226536	0.5	8	73	2	2.21	12	< 1	0.32	0.83	16	860	3	2.19	26	0.072	< 3	< 5	< 0.01	23	182	5	0.14	< 5
226537	< 0.3	19	57	17	4.04	15	< 1	1.12	2.00	21	626	< 1	3.05	54	0.042	< 3	< 5	< 0.01	16	235	< 2	0.20	< 5
226538	0.4	9	27	61	2.29	3	< 1	0.17	0.39	7	368	2	0.31	15	0.009	6	< 5	0.16	5	23	2	0.10	< 5
226539	< 0.3	15	57	63	4.83	17	< 1	0.84	1.35	16	771	2	2.21	41	0.058	13	< 5	0.06	17	264	< 2	0.20	< 5
226540	0.3	12	100	18	2.85	9	< 1	0.15	1.26	8	530	< 1	2.06	40	0.038	8	< 5	0.09	8	336	7	0.17	< 5
226541	0.7	29	119	39	7.96	17	< 1	0.49	1.98	21	2400	< 1	0.60	72	0.132	11	< 5	0.19	21	108	18	0.30	< 5
226542	0.7	17	100	138	6.84	19	< 1	0.26	0.70	13	1260	1	1.51	4	0.079	< 3	< 5	0.02	19	200	< 2	0.15	< 5
226543	< 0.3	55	312	2	8.02	11	< 1	0.13	6.38	30	1580	< 1	0.91	157	0.014	5	< 5	< 0.01	38	64	12	0.28	< 5
226544	0.3	19	82	57	3.80	20	< 1	2.04	1.51	24	472	< 1	2.65	56	0.066	16	< 5	0.11	14	316	5	0.28	31
226545	0.4	32	70	3	6.86	15	< 1	0.32	2.71	29	1370	< 1	2.00	36	0.052	5	< 5	< 0.01	24	88	< 2	0.31	< 5
226546	< 0.3	2	11	5	0.68	6	< 1	0.79	0.18	3	135	1	3.68	8	0.002	< 3	< 5	< 0.01	< 4	239	< 2	0.02	< 5
226547	< 0.3	16	83	59	3.50	14	< 1	3.31	1.20	22	522	< 1	0.87	46	0.044	5	< 5	0.18	13	190	3	0.20	7
226548	< 0.3	< 1	26	3	0.48	< 1	< 1	0.05	0.03	< 1	82	< 1	0.06	4	< 0.001	< 3	< 5	< 0.01	< 4	10	< 2	< 0.01	< 5
226549	0.6	2	4	< 1	0.05	2	2	0.02	11.5	7	336	< 1	0.03	2	0.003	5	< 5	< 0.01	< 4	121	6	< 0.01	< 5
245951	< 0.3	16	92	20	4.12	17	< 1	1.45	1.76	29	562	6	1.43	32	0.045	7	< 5	0.05	13	248	8	0.31	< 5
245952	0.3	31	138	101	8.55	13	< 1	0.32	2.24	29	1250	< 1	2.85	94	0.078	4	< 5	2.45	18	123	24	0.60	< 5
245953	< 0.3	14	105	45	3.04	11	< 1	1.33	1.29	23	446	< 1	1.00	50	0.045	8	< 5	0.04	12	192	< 2	0.24	< 5
245954	< 0.3	22	61	92	10.5	12	< 1	0.79	1.89	23	2360	< 1	1.17	42	0.061	10	15	0.38	14	78	14	0.34	19

Results

Activation Laboratories Ltd.

Report: A16-07014

Analyte Symbol	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
226535	< 10	94	< 5	20	70	98
226536	< 10	28	< 5	34	32	46
226537	< 10	56	< 5	15	74	103
226538	< 10	32	< 5	4	71	35
226539	< 10	96	< 5	18	87	36
226540	< 10	58	< 5	7	39	52
226541	< 10	124	< 5	25	108	73
226542	< 10	11	< 5	31	77	57
226543	< 10	166	6	15	70	28
226544	< 10	86	< 5	11	67	112
226545	< 10	122	< 5	12	138	60
226546	< 10	14	< 5	2	14	< 5
226547	< 10	69	< 5	13	52	79
226548	< 10	2	< 5	< 1	1	< 5
226549	< 10	3	< 5	< 1	13	< 5
245951	< 10	109	96	7	57	100
245952	< 10	154	< 5	17	145	129
245953	< 10	77	< 5	8	49	64
245954	< 10	96	< 5	15	100	79

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas		29.9	3.3	1170	816	14	20	664	664	0.36	405	< 10	328	0.8	1480	0.81	4	8	24.1	< 10	2	0.03	< 10
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50
GXR-4 Meas		3.5	< 0.5	6530	141	367	34	43	66	2.85	100	< 10	24	1.4	20	0.95	15	57	3.25	10	< 1	1.72	49
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5
SDC-1 Meas																							
SDC-1 Cert																							
GXR-6 Meas		0.3	< 0.5	74	1070	2	19	99	117	7.44	231	< 10	913	0.9	< 2	0.14	14	83	6.32	20	< 1	1.20	10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
OREAS 14P Meas																							
OREAS 14P Cert																							
DNC-1a Meas																							
DNC-1a Cert																							
SBC-1 Meas																							
SBC-1 Cert																							
SdAR-M2 (U.S.G.S.) Meas			5.1	248		14	44	881	782				148	5.0	< 2		13	10		< 10	2		49
SdAR-M2 (U.S.G.S.) Cert			5.1	236.0000		13.3	48.8	808	760				990	6.6	1.05		12.4	49.6		17.6	1.44		46.6
SF85 Meas	819																						
SF85 Cert	848																						
OxD128 Meas	406																						
OxD128 Cert	424.000																						
226540 Orig		< 0.2	< 0.5	20	396	< 1	29	3	29	1.18	< 2	< 10	30	< 0.5	< 2	1.38	9	81	2.47	< 10	< 1	0.08	< 10
226540 Dup		< 0.2	< 0.5	21	395	< 1	27	2	29	1.22	3	< 10	29	< 0.5	< 2	1.40	9	82	2.51	< 10	< 1	0.08	< 10
226544 Orig	< 5																						
226544 Dup	< 5																						
245953 Orig																							
245953 Dup																							
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.3	0.01	3	7	1	2	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	0.14	0.047	0.047	0.21	83	1	178	< 0.01	< 20	15	< 2	33	74	145	24	15	31.6	2.15	415	653	1	1390	0.85
GXR-1 Cert	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0	0.390	34.9	80.0	164	32.0	38.0	31.0	3.52	427	750	1.22	1380	0.960
GXR-4 Meas	1.71	0.129	0.131	1.77	4	8	73	0.14	< 20	3	7	< 10	79	12	11	10	3.4	6.55	92	268	2	7	1.06
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970	3.20	6.20	87.0	30.8	14.0	186	4.0	7.20	98.0	1640	1.90	19.0	1.01
SDC-1 Meas																		7.98	< 3	630	3		1.11
SDC-1 Cert																		8.34	0.220	630	3.00		1.00
GXR-6 Meas	0.43	0.070	0.037	0.01	8	22	28	< 20	< 1	< 2	< 10	167	< 10	5	7	0.5	12.1	265	> 1000	1	< 2	0.16	
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0	5.30	0.0180	2.20	1.54	186	1.90	14.0	110	1.30	17.7	330	1300	1.40	0.290	0.180	
OREAS 14P Meas																							
OREAS 14P Cert																							
DNC-1a Meas																				96			
DNC-1a Cert																				118			
SBC-1 Meas																			27	757	3	5	
SBC-1 Cert																			25.7	788.0	3.20	0.70	
SdAR-M2 (U.S.G.S.) Meas							3	23	< 20			< 10	19	< 10	18	7				999	8	< 2	
SdAR-M2 (U.S.G.S.) Cert							4.1	144	14.2			2.53	25.2	2.8	32.7	259				990	6.6	1.05	
SF85 Meas																							
SF85 Cert																							
OxD128 Meas																							
OxD128 Cert																							
226540 Orig	0.99	0.274	0.039	0.10	< 2	5	45	0.11	< 20	2	< 2	< 10	44	< 10	5	11							
226540 Dup	1.00	0.273	0.040	0.11	< 2	5	45	0.11	< 20	< 1	< 2	< 10	44	< 10	5	11							
226544 Orig																							
226544 Dup																							
245953 Orig																	< 0.3	4.90	34	568	< 1	< 2	1.79
245953 Dup																	0.3	5.02	33	577	< 1	< 2	1.81
Method Blank																							
Method Blank																							
Method Blank	< 0.01	< 0.001	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank	< 0.01	< 0.001	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01

Analyte Symbol	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	3.0	7	18	1170	23.3	10	2	0.04	0.20	7	857	17	0.05	47	0.059	722	63	0.25	< 4	284	39	0.03	5
GXR-1 Cert	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520	41.0	0.0650	730	122	0.257	1.58	275	13.0	0.036	0.390
GXR-4 Meas	0.4	16	54	6460	3.03	16	< 1	3.15	1.67	11	154	335	0.55	36	0.130	49	6	1.78	8	215	< 2	0.29	< 5
GXR-4 Cert	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564	42.0	0.120	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20
SDC-1 Meas		19	61	34	4.81	21	< 1	2.48	1.01	34	887		1.53	40	0.057	28	< 5		17	177		0.21	9
SDC-1 Cert		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34.00	880.00		1.52	38.0	0.0690	25.00	0.54		17.00	180.00		0.606	0.70
GXR-6 Meas	0.5	15	68	73	5.84	29	< 1	1.74	0.59	34	1100	3	0.10	30	0.036	99	< 5	0.02	27	36	11		< 5
GXR-6 Cert	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104	27.0	0.0350	101	3.60	0.0160	27.6	35.0	0.0180		2.20
OREAS 14P Meas		645		9180	31.7									> 10000									
OREAS 14P Cert		750		9970	37.2									21000									
DNC-1a Meas		56	130	103		9				5				261		10	< 5		31	132		0.29	
DNC-1a Cert		57.0	270	100.00		15				5.20				247		6.3	0.96		31	144.0		0.29	
SBC-1 Meas	< 0.3	25	95	38		26				165		1		89		28	< 5		20	178		0.52	< 5
SBC-1 Cert	0.40	22.7	109	31.0000		27.0				163.0		2.40		82.8		35.0	1.01		20.0	178.0		0.51	0.89
SdAR-M2 (U.S.G.S.) Meas	5.2	15	35	274		17	3			17		16		71		818			4	147			
SdAR-M2 (U.S.G.S.) Cert	5.1	12.4	49.6	236.0000		17.6	1.44			17.9		13.3		48.8		808			4.1	144			
SF85 Meas																							
SF85 Cert																							
OxD128 Meas																							
OxD128 Cert																							
226540 Orig																							
226540 Dup																							
226544 Orig																							
226544 Dup																							
245953 Orig	< 0.3	14	116	44	3.01	10	< 1	1.34	1.28	23	443	1	1.00	51	0.045	5	< 5	0.05	11	190	< 2	0.23	< 5
245953 Dup	0.5	14	94	45	3.07	12	< 1	1.33	1.30	23	448	< 1	1.00	48	0.045	10	< 5	0.04	12	194	4	0.24	< 5
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5

Analyte Symbol	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	40	85	163	33	733	30
GXR-1 Cert	34.9	80.0	164	32.0	760	38.0
GXR-4 Meas	< 10	87	32	15	69	47
GXR-4 Cert	6.20	87.0	30.8	14.0	73.0	186
SDC-1 Meas	< 10	47	< 5		99	36
SDC-1 Cert	3.10	102.00	0.80		103.00	290.00
GXR-6 Meas	< 10	146	< 5	12	129	72
GXR-6 Cert	1.54	186	1.90	14.0	118	110
OREAS 14P Meas						
OREAS 14P Cert						
DNC-1a Meas		143		16	59	36
DNC-1a Cert		148.0000		18.0	70.0	38.0
SBC-1 Meas	< 10	216	< 5	33	182	119
SBC-1 Cert	5.76	220.0	1.60	36.5	186.0	134.0
SdAR-M2 (U.S.G.S.) Meas	< 10	26	10	30	781	121
SdAR-M2 (U.S.G.S.) Cert	2.53	25.2	2.8	32.7	760	259
SF85 Meas						
SF85 Cert						
OxD128 Meas						
OxD128 Cert						
226540 Orig						
226540 Dup						
226544 Orig						
226544 Dup						
245953 Orig	< 10	76	< 5	8	50	65
245953 Dup	< 10	77	< 5	8	47	63
Method Blank						
Method Blank						
Method Blank						
Method Blank						
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5

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2016 Drill Core Assays



Date Submitted: 10-Aug-16
Invoice No.: A16-07885
Invoice Date: 29-Aug-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

34 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-50-Geraldton Au - Fire Assay AA

REPORT **A16-07885**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.



CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé".

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
801 Main Street, P.O. Box 999, Geraldton, Ontario, Canada, P0T 1M0
TELEPHONE +807 854-2020 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Geraldton@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Date Submitted: 10-Aug-16
Invoice No.: A16-07885
Invoice Date: 29-Aug-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

34 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1E3-Tbay Aqua Regia ICP(AQUAGEO)

Code 1F2-Tbay Total Digestion ICP(TOTAL)

REPORT **A16-07885**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:



Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
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Results

Activation Laboratories Ltd.

Report: A16-07885

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
262364	5	< 0.2	< 0.5	31	967	< 1	13	< 2	58	1.81	< 2	< 10	172	< 0.5	< 2	1.56	14	27	3.35	< 10	< 1	0.71	13
262365	< 5	< 0.2	< 0.5	26	1190	< 1	9	3	63	1.88	< 2	< 10	160	< 0.5	< 2	1.35	12	26	4.48	< 10	< 1	0.77	13
262366	< 5	< 0.2	< 0.5	18	1070	< 1	11	< 2	52	1.48	< 2	< 10	148	< 0.5	< 2	1.50	12	23	3.29	< 10	< 1	0.59	13
262367	< 5	< 0.2	< 0.5	28	968	< 1	11	2	54	1.36	< 2	< 10	140	< 0.5	< 2	1.53	13	22	2.49	< 10	< 1	0.55	13
262368	< 5	< 0.2	< 0.5	34	944	< 1	25	3	60	2.47	< 2	< 10	174	< 0.5	< 2	1.64	22	26	4.35	< 10	< 1	0.59	12
262369	< 5	< 0.2	< 0.5	29	896	< 1	29	< 2	64	1.77	< 2	< 10	162	< 0.5	< 2	1.09	22	27	3.69	< 10	< 1	0.62	13
262370	5	0.3	< 0.5	118	1030	< 1	44	6	88	1.59	< 2	< 10	130	< 0.5	< 2	1.60	35	25	3.72	< 10	< 1	0.63	12
262371	< 5	< 0.2	< 0.5	< 1	24	< 1	< 1	< 2	< 2	0.04	< 2	< 10	14	< 0.5	< 2	23.7	< 1	< 1	0.04	< 10	< 1	0.01	< 10
262372	5	< 0.2	< 0.5	89	1040	< 1	25	3	56	1.58	< 2	< 10	140	< 0.5	< 2	1.51	19	26	3.72	< 10	< 1	0.65	13
262373	5	< 0.2	< 0.5	23	926	< 1	62	2	53	1.66	< 2	< 10	192	< 0.5	< 2	1.32	15	104	3.46	< 10	< 1	0.60	12
262374	5	< 0.2	< 0.5	28	593	< 1	28	< 2	44	1.30	< 2	< 10	183	< 0.5	< 2	0.64	17	28	3.09	< 10	< 1	0.56	14
262375	5	< 0.2	< 0.5	72	533	< 1	49	< 2	42	1.40	< 2	< 10	177	< 0.5	< 2	0.60	23	32	3.07	< 10	< 1	0.52	18
262376	< 5	< 0.2	< 0.5	2	483	< 1	73	< 2	24	1.59	< 2	< 10	176	< 0.5	< 2	2.35	13	154	2.92	< 10	< 1	0.71	12
262377	< 5	< 0.2	< 0.5	3	425	< 1	9	< 2	17	0.81	< 2	< 10	155	< 0.5	< 2	1.71	7	18	1.90	< 10	< 1	0.35	13
262378	5	< 0.2	< 0.5	45	445	< 1	98	< 2	32	2.54	< 2	< 10	437	< 0.5	< 2	2.32	22	349	3.18	< 10	< 1	0.93	12
262379	5	< 0.2	< 0.5	19	514	< 1	64	< 2	29	1.91	< 2	< 10	230	< 0.5	< 2	2.31	18	239	2.90	< 10	< 1	0.63	15
262380	5	< 0.2	< 0.5	34	500	< 1	88	< 2	38	2.86	< 2	< 10	636	< 0.5	< 2	2.38	23	314	3.52	< 10	< 1	1.19	< 10
262381	441	< 0.2	< 0.5	44	557	4	12	12	42	2.45	156	< 10	130	< 0.5	< 2	1.71	9	31	3.85	< 10	< 1	0.15	< 10
262382	6	< 0.2	< 0.5	72	485	< 1	76	3	37	2.62	< 2	< 10	396	< 0.5	< 2	2.73	22	300	3.30	< 10	< 1	0.78	< 10
262383	< 5	< 0.2	< 0.5	23	564	< 1	72	< 2	33	2.52	< 2	< 10	451	< 0.5	< 2	3.48	21	283	3.32	< 10	< 1	1.00	< 10
262384	6	< 0.2	< 0.5	39	356	< 1	20	< 2	25	1.61	< 2	< 10	701	< 0.5	< 2	1.02	15	27	2.99	< 10	< 1	0.69	13
262385	5	< 0.2	< 0.5	< 1	580	< 1	104	< 2	30	1.95	< 2	< 10	340	< 0.5	< 2	2.17	19	280	3.03	< 10	< 1	0.76	18
262386	6	< 0.2	< 0.5	1	607	< 1	103	< 2	29	2.11	< 2	< 10	333	< 0.5	< 2	2.18	20	269	3.26	< 10	< 1	0.77	15
262387	< 5	< 0.2	< 0.5	2	369	< 1	18	< 2	28	1.44	< 2	< 10	443	< 0.5	< 2	0.75	12	32	2.59	< 10	< 1	0.60	13
262388	< 5	< 0.2	< 0.5	< 1	548	< 1	261	< 2	46	3.15	< 2	< 10	812	< 0.5	< 2	2.05	28	643	3.47	10	< 1	1.69	18
262389	5	< 0.2	< 0.5	< 1	733	< 1	248	< 2	45	3.00	< 2	< 10	1100	< 0.5	< 2	2.97	28	618	3.65	< 10	< 1	1.61	17
262390	5	< 0.2	< 0.5	< 1	578	< 1	212	< 2	39	2.91	2	< 10	1300	0.5	< 2	2.55	24	518	3.13	< 10	< 1	1.33	17
262391	< 5	0.3	< 0.5	3	257	< 1	< 1	3	7	0.05	< 2	28	110	< 0.5	< 2	12.7	< 1	2	0.07	< 10	< 1	0.04	< 10
262392	< 5	< 0.2	< 0.5	< 1	514	< 1	161	3	30	2.24	< 2	< 10	393	< 0.5	< 2	2.27	23	346	2.87	< 10	< 1	0.76	20
262393	< 5	< 0.2	< 0.5	< 1	449	< 1	209	< 2	29	2.15	< 2	< 10	605	< 0.5	< 2	1.95	25	495	2.96	< 10	< 1	1.05	16
262394	< 5	< 0.2	1.4	< 1	473	< 1	245	8	32	2.47	< 2	< 10	675	< 0.5	< 2	2.53	26	705	3.35	< 10	< 1	1.32	17
262395	< 5	< 0.2	< 0.5	< 1	517	< 1	130	< 2	34	2.33	< 2	< 10	584	< 0.5	< 2	2.07	25	404	3.22	< 10	< 1	1.10	17
262396	< 5	< 0.2	< 0.5	< 1	717	< 1	95	< 2	40	2.29	< 2	< 10	690	< 0.5	< 2	2.44	25	345	3.85	< 10	< 1	1.05	13
262397	< 5	< 0.2	< 0.5	< 1	608	< 1	210	< 2	37	2.45	< 2	< 10	594	< 0.5	2	2.82	27	628	3.33	< 10	< 1	0.88	16

Results

Activation Laboratories Ltd.

Report: A16-07885

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.3	0.01	3	7	1	2	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262364	0.46	0.212	0.041	0.17	< 2	11	19	0.19	< 20	7	< 2	< 10	70	< 10	9	21	0.5	6.33	< 3	205	< 1	< 2	3.87
262365	0.54	0.189	0.043	0.08	< 2	12	13	0.20	< 20	< 1	< 2	< 10	76	< 10	9	25	0.4	6.05	< 3	165	< 1	< 2	3.65
262366	0.42	0.131	0.043	0.10	< 2	9	12	0.16	< 20	2	< 2	< 10	62	< 10	8	21	0.5	6.08	3	222	< 1	< 2	3.49
262367	0.41	0.119	0.044	0.07	< 2	7	10	0.17	< 20	3	< 2	< 10	57	< 10	8	22	0.6	6.10	< 3	261	< 1	< 2	3.54
262368	0.70	0.259	0.042	0.18	< 2	12	28	0.17	< 20	2	2	< 10	73	< 10	8	23	0.5	6.36	< 3	180	< 1	3	3.90
262369	0.71	0.185	0.043	0.38	2	10	13	0.18	< 20	< 1	< 2	< 10	72	< 10	8	31	0.5	5.89	< 3	173	< 1	< 2	3.19
262370	0.57	0.139	0.043	0.62	< 2	9	13	0.16	< 20	5	< 2	< 10	64	< 10	8	30	0.4	1.83	< 3	196	< 1	< 2	2.52
262371	1.50	0.014	0.002	0.09	< 2	< 1	2210	< 0.01	< 20	4	3	< 10	< 1	< 10	< 1	< 1	< 0.3	0.06	< 3	11	< 1	< 2	29.2
262372	0.59	0.128	0.042	0.20	2	10	18	0.17	< 20	9	< 2	< 10	71	< 10	8	24	0.7	6.15	< 3	190	< 1	< 2	3.33
262373	1.08	0.106	0.049	0.06	< 2	10	12	0.18	< 20	4	< 2	< 10	72	< 10	8	21	0.5	6.61	< 3	298	< 1	< 2	3.46
262374	0.51	0.153	0.043	0.16	< 2	12	12	0.18	< 20	9	< 2	< 10	78	< 10	6	28	0.5	6.32	< 3	226	< 1	< 2	2.31
262375	0.55	0.153	0.043	0.33	< 2	13	14	0.19	< 20	5	< 2	< 10	72	< 10	8	32	0.8	6.09	< 3	247	< 1	< 2	2.71
262376	1.60	0.131	0.055	0.02	< 2	7	18	0.15	< 20	10	< 2	< 10	63	< 10	8	19	0.3	7.16	< 3	285	< 1	< 2	4.62
262377	0.52	0.126	0.040	0.02	< 2	3	31	0.09	< 20	3	< 2	< 10	31	< 10	4	15	< 0.3	5.67	< 3	318	< 1	< 2	2.91
262378	2.56	0.202	0.095	< 0.01	< 2	9	74	0.29	< 20	16	< 2	< 10	80	< 10	9	11	0.3	7.04	< 3	528	2	< 2	7.41
262379	2.16	0.176	0.083	0.01	< 2	9	39	0.24	< 20	9	< 2	< 10	73	< 10	9	13	0.3	7.44	< 3	330	1	< 2	6.24
262380	2.81	0.203	0.097	< 0.01	< 2	9	88	0.31	< 20	< 1	< 2	< 10	88	< 10	8	12	< 0.3	1.34	< 3	520	1	< 2	4.00
262381	0.80	0.228	0.051	0.05	< 2	8	86	0.17	< 20	< 1	< 2	< 10	92	< 10	9	5	< 0.3	4.24	146	476	< 1	< 2	3.45
262382	2.66	0.177	0.094	0.04	< 2	10	94	0.30	< 20	10	< 2	< 10	85	< 10	8	11	< 0.3	6.60	< 3	562	2	< 2	7.47
262383	2.55	0.176	0.090	< 0.01	< 2	9	75	0.29	< 20	10	< 2	< 10	82	< 10	9	12	< 0.3	6.63	< 3	521	1	2	7.78
262384	1.05	0.169	0.043	0.06	< 2	9	31	0.20	< 20	4	< 2	< 10	66	< 10	9	16	0.6	6.77	< 3	756	< 1	< 2	3.81
262385	2.43	0.168	0.094	< 0.01	< 2	9	27	0.18	< 20	11	< 2	< 10	73	< 10	9	12	< 0.3	6.89	< 3	333	2	< 2	7.13
262386	2.52	0.191	0.096	< 0.01	< 2	8	32	0.21	< 20	< 1	< 2	< 10	77	< 10	9	13	< 0.3	6.99	< 3	340	2	< 2	6.94
262387	1.19	0.142	0.043	< 0.01	< 2	8	21	0.19	< 20	< 1	< 2	< 10	64	< 10	7	22	< 0.3	6.43	< 3	468	< 1	< 2	3.50
262388	3.88	0.175	0.096	< 0.01	5	6	44	0.27	< 20	< 1	< 2	< 10	70	< 10	6	22	0.5	6.65	< 3	957	1	< 2	6.46
262389	4.13	0.143	0.092	< 0.01	5	6	43	0.26	< 20	7	< 2	< 10	76	< 10	9	18	< 0.3	6.07	< 3	> 1000	1	3	6.54
262390	3.46	0.242	0.090	< 0.01	2	7	73	0.22	< 20	< 1	2	< 10	67	< 10	7	15	< 0.3	2.55	< 3	> 1000	1	< 2	5.38
262391	9.84	0.023	0.003	0.01	2	< 1	125	< 0.01	< 20	3	2	< 10	1	< 10	< 1	< 1	< 0.3	0.11	< 3	182	< 1	< 2	17.7
262392	2.98	0.197	0.093	0.14	5	8	51	0.12	< 20	6	< 2	< 10	59	< 10	8	7	< 0.3	6.80	< 3	427	1	< 2	6.69
262393	3.34	0.147	0.083	0.02	4	7	21	0.18	< 20	< 1	< 2	< 10	62	< 10	8	16	< 0.3	6.16	< 3	657	1	< 2	6.93
262394	3.60	0.121	0.089	0.05	3	7	25	0.18	< 20	1	3	< 10	67	< 10	7	12	0.4	6.68	8	712	2	< 2	6.54
262395	3.27	0.168	0.100	0.12	< 2	7	25	0.15	< 20	6	< 2	< 10	57	< 10	6	7	0.3	7.57	< 3	578	2	< 2	6.35
262396	2.94	0.140	0.079	0.17	< 2	10	24	0.18	< 20	< 1	< 2	< 10	72	< 10	7	16	0.4	6.82	< 3	786	2	< 2	5.76
262397	3.65	0.144	0.093	0.10	4	8	26	0.14	< 20	< 1	< 2	< 10	61	< 10	7	6	0.4	6.12	< 3	633	1	< 2	6.80

Results

Activation Laboratories Ltd.

Report: A16-07885

Analyte Symbol	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262364	< 0.3	14	26	30	3.36	17	< 1	0.90	0.42	17	1180	< 1	2.78	21	0.036	< 3	< 5	0.14	12	95	3	0.29	< 5
262365	0.7	12	42	26	4.43	18	< 1	0.87	0.49	18	1710	< 1	2.91	22	0.035	17	< 5	0.06	12	76	< 2	0.29	< 5
262366	< 0.3	12	24	19	3.32	15	< 1	0.93	0.39	17	1220	< 1	2.97	19	0.035	< 3	< 5	0.09	12	73	7	0.29	< 5
262367	< 0.3	13	23	28	2.49	18	< 1	1.03	0.36	14	1060	< 1	2.93	18	0.034	< 3	< 5	0.05	10	79	7	0.28	< 5
262368	0.5	24	27	35	4.61	18	< 1	0.67	0.69	17	1440	< 1	2.60	40	0.036	4	< 5	0.16	14	105	6	0.29	< 5
262369	< 0.3	23	39	28	3.78	15	< 1	0.73	0.67	17	1240	< 1	3.07	42	0.036	5	< 5	0.34	10	86	< 2	0.30	< 5
262370	0.5	34	69	104	3.06	17	< 1	0.81	0.43	15	1190	< 1	2.81	53	0.037	12	< 5	0.54	< 4	73	< 2	0.26	< 5
262371	< 0.3	< 1	4	< 1	0.04	< 1	< 1	0.02	1.36	< 1	28	< 1	0.02	< 1	0.002	< 3	< 5	0.09	< 4	2630	< 2	< 0.01	< 5
262372	< 0.3	20	32	84	3.64	18	< 1	0.83	0.58	16	1430	< 1	3.10	31	0.039	< 3	< 5	0.19	12	115	4	0.29	6
262373	< 0.3	18	118	22	3.76	15	< 1	0.87	1.35	18	1250	< 1	3.09	87	0.044	< 3	< 5	0.05	13	101	< 2	0.30	< 5
262374	0.3	18	30	28	3.07	17	< 1	0.70	0.46	13	725	< 1	4.19	41	0.036	< 3	< 5	0.13	13	148	4	0.29	< 5
262375	< 0.3	23	32	73	2.96	20	< 1	0.76	0.48	13	642	< 1	4.61	59	0.030	3	< 5	0.25	13	156	< 2	0.32	< 5
262376	0.4	20	126	4	3.76	16	< 1	0.90	2.33	20	660	< 1	3.07	111	0.051	< 3	< 5	0.02	16	161	< 2	0.30	< 5
262377	< 0.3	8	25	4	2.00	18	< 1	0.79	0.50	17	415	< 1	4.21	14	0.028	< 3	< 5	0.01	5	123	2	0.22	< 5
262378	0.6	43	419	46	6.46	15	< 1	1.11	6.12	25	1140	< 1	1.57	173	0.086	5	< 5	< 0.01	34	335	4	0.41	< 5
262379	0.6	32	387	18	5.26	17	< 1	0.81	4.37	23	1030	< 1	2.46	110	0.075	< 3	< 5	0.01	28	261	14	0.37	< 5
262380	0.9	41	528	33	5.39	12	< 1	1.06	1.91	19	1030	< 1	1.04	137	0.083	6	< 5	0.01	4	204	6	0.39	< 5
262381	0.6	12	49	43	4.25	12	4	0.73	1.24	7	853	3	2.40	25	0.044	8	< 5	0.05	12	222	14	0.30	< 5
262382	1.5	40	498	68	6.32	14	< 1	1.08	5.61	27	1140	< 1	1.40	129	0.086	8	< 5	0.04	32	326	4	0.42	< 5
262383	0.7	38	449	44	5.95	16	< 1	1.13	5.08	27	1170	< 1	1.52	120	0.080	5	< 5	< 0.01	32	281	6	0.39	< 5
262384	< 0.3	16	29	42	3.31	17	< 1	0.73	1.14	14	458	< 1	2.95	34	0.039	< 3	< 5	0.06	13	159	10	0.29	< 5
262385	0.9	39	282	2	6.40	16	< 1	0.80	5.83	18	1460	< 1	1.97	199	0.083	8	< 5	< 0.01	29	223	23	0.29	< 5
262386	0.9	39	263	2	6.36	16	< 1	0.78	5.43	18	1420	< 1	2.02	186	0.087	< 3	< 5	< 0.01	27	231	7	0.35	< 5
262387	< 0.3	15	31	3	2.99	18	< 1	0.65	1.39	14	517	< 1	3.04	32	0.036	< 3	< 5	< 0.01	13	154	6	0.22	< 5
262388	0.7	49	479	2	6.29	13	< 1	1.73	7.71	32	1320	< 1	1.27	370	0.089	< 3	< 5	< 0.01	29	188	17	0.38	< 5
262389	0.4	44	830	3	5.69	15	< 1	1.77	7.03	33	1340	< 1	1.35	321	0.082	4	< 5	< 0.01	28	196	< 2	0.37	< 5
262390	< 0.3	42	606	1	4.72	9	< 1	1.14	4.57	19	1270	< 1	0.89	299	0.074	< 3	< 5	< 0.01	10	198	5	0.30	< 5
262391	< 0.3	< 1	7	1	0.07	2	< 1	0.08	11.7	13	289	< 1	0.04	< 1	0.002	3	< 5	< 0.01	< 4	143	4	< 0.01	< 5
262392	0.3	41	574	2	5.66	14	< 1	0.91	6.15	19	1220	< 1	1.81	274	0.085	< 3	< 5	0.14	25	309	< 2	0.28	< 5
262393	0.4	50	601	2	6.21	14	< 1	1.07	7.69	24	1160	< 1	1.56	361	0.077	< 3	< 5	0.03	29	287	15	0.34	< 5
262394	2.3	47	621	1	5.70	13	< 1	1.30	6.87	31	1040	< 1	1.85	356	0.086	< 3	6	0.06	25	299	18	0.33	14
262395	< 0.3	43	307	1	5.68	17	< 1	1.11	6.16	24	1110	< 1	2.36	206	0.094	4	< 5	0.12	24	334	< 2	0.28	< 5
262396	1.0	36	304	2	5.73	18	< 1	1.06	4.82	23	1280	< 1	2.09	150	0.074	4	< 5	0.18	27	281	< 2	0.32	< 5
262397	0.5	44	533	2	5.71	14	< 1	0.94	6.79	24	1200	< 1	1.47	305	0.087	4	< 5	0.10	24	223	< 2	0.27	< 5

Results

Activation Laboratories Ltd.

Report: A16-07885

Analyte Symbol	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262364	< 10	81	< 5	9	58	147
262365	< 10	83	< 5	9	64	144
262366	< 10	81	< 5	8	53	142
262367	< 10	77	< 5	7	54	141
262368	< 10	85	< 5	9	64	149
262369	< 10	82	< 5	8	70	150
262370	< 10	75	< 5	3	84	115
262371	< 10	2	< 5	< 1	< 1	< 5
262372	< 10	79	6	11	55	151
262373	< 10	92	< 5	9	60	146
262374	< 10	84	< 5	8	44	153
262375	< 10	83	< 5	8	41	177
262376	< 10	91	< 5	13	32	122
262377	< 10	46	< 5	4	16	89
262378	< 10	172	< 5	17	67	61
262379	< 10	144	< 5	16	56	82
262380	< 10	158	< 5	5	57	33
262381	< 10	125	< 5	11	61	29
262382	< 10	172	< 5	17	62	52
262383	< 10	160	< 5	17	55	52
262384	< 10	79	< 5	11	27	139
262385	< 10	136	< 5	18	59	47
262386	< 10	160	< 5	18	56	56
262387	< 10	63	< 5	9	33	104
262388	< 10	150	< 5	16	80	95
262389	< 10	142	< 5	21	73	88
262390	< 10	131	< 5	7	69	54
262391	< 10	2	< 5	< 1	8	< 5
262392	< 10	133	< 5	17	60	98
262393	< 10	151	< 5	16	61	79
262394	< 10	134	< 5	15	57	95
262395	< 10	117	< 5	14	55	91
262396	< 10	122	< 5	13	59	98
262397	< 10	125	< 5	14	65	88

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas		29.7	2.5	1200	806	12	26	688	656	0.37	402	11	389	0.8	1530	0.80	5	6	24.0	< 10	9	0.03	< 10
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50
GXR-1 Meas		28.9	3.9	1200	785	12	26	666	642	0.35	389	11	538	0.8	1510	0.78	6	6	23.4	< 10	7	0.03	< 10
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50
GXR-4 Meas		3.5	< 0.5	6680	147	304	31	48	66	2.88	101	< 10	44	1.4	31	0.97	13	57	3.25	10	< 1	1.74	51
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5
GXR-4 Meas		3.4	0.6	6440	138	287	30	44	63	2.81	98	< 10	46	1.4	24	0.91	13	54	3.15	10	< 1	1.71	53
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5
SDC-1 Meas																							
SDC-1 Cert																							
GXR-6 Meas		0.2	< 0.5	74	1100	1	16	103	117	7.43	239	< 10	977	0.9	< 2	0.14	13	83	6.13	20	< 1	1.21	< 10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
GXR-6 Meas		0.2	< 0.5	72	1080	2	16	101	117	7.36	254	< 10	959	0.9	< 2	0.14	12	83	6.16	20	< 1	1.20	< 10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
Oreas 72a (4 Acid Digest) Meas																							
Oreas 72a (4 Acid Digest) Cert																							
DNC-1a Meas																							
DNC-1a Cert																							
SBC-1 Meas																							
SBC-1 Cert																							
SdAR-M2 (U.S.G.S.) Meas																							
SdAR-M2 (U.S.G.S.) Cert																							
SF85 Meas	820																						
SF85 Cert	848																						
OxD128 Meas	409																						
OxD128 Cert	424.000																						
262373 Orig	5																						
262373 Dup	5																						
262381 Orig		< 0.2	< 0.5	44	553	4	12	11	42	2.42	153	< 10	130	< 0.5	< 2	1.70	9	31	3.79	< 10	< 1	0.15	< 10
262381 Dup		< 0.2	< 0.5	45	560	3	12	13	42	2.48	158	< 10	130	< 0.5	< 2	1.73	9	31	3.92	< 10	< 1	0.15	< 10
262383 Orig	5																						
262383 Dup	< 5																						
262387 Orig																							
262387 Dup																							
262393 Orig	< 5																						
262393 Dup	< 5																						
262395 Orig		< 0.2	< 0.5	< 1	517	< 1	128	< 2	33	2.34	< 2	< 10	584	< 0.5	< 2	2.07	25	404	3.22	< 10	< 1	1.11	17
262395 Dup		< 0.2	< 0.5	< 1	518	< 1	132	< 2	34	2.32	< 2	< 10	584	< 0.5	< 2	2.06	25	404	3.23	< 10	< 1	1.10	17
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	11	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank																							

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.3	0.01	3	7	1	2	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	0.14	0.047	0.049	0.21	84	1	183	< 0.01	< 20	14	< 2	31	76	150	24	16	31.8	2.00	425	755	1	1550	0.95
GXR-1 Cert	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0	0.390	34.9	80.0	164	32.0	38.0	31.0	3.52	427	750	1.22	1380	0.960
GXR-1 Meas	0.14	0.048	0.048	0.20	81	1	179	< 0.01	< 20	12	< 2	30	73	143	24	16							
GXR-1 Cert	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0	0.390	34.9	80.0	164	32.0	38.0							
GXR-4 Meas	1.69	0.134	0.133	1.79	3	8	75	0.14	< 20	6	3	< 10	79	10	11	10	3.2	6.47	83	190	2	< 2	1.13
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970	3.20	6.20	87.0	30.8	14.0	186	4.0	7.20	98.0	1640	1.90	19.0	1.01
GXR-4 Meas	1.66	0.136	0.132	1.73	< 2	7	74	0.14	< 20	3	4	< 10	76	< 10	11	10							
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970	3.20	6.20	87.0	30.8	14.0	186							
SDC-1 Meas																		6.02	< 3	630	3		0.91
SDC-1 Cert																		8.34	0.220	630	3.00		1.00
GXR-6 Meas	0.44	0.071	0.037	0.01	5	21	27		< 20	3	< 2	< 10	172	< 10	5	9	0.5	10.2	277	> 1000	1	< 2	0.17
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110	1.30	17.7	330	1300	1.40	0.290	0.180
GXR-6 Meas	0.44	0.071	0.037	0.02	3	20	27		< 20	< 1	< 2	< 10	169	< 10	4	10							
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110							
Oreas 72a (4 Acid Digest) Meas																			< 3				
Oreas 72a (4 Acid Digest) Cert																			14.7				
DNC-1a Meas																				105			
DNC-1a Cert																				118			
SBC-1 Meas																			11	783	3	< 2	
SBC-1 Cert																			25.7	788.0	3.20	0.70	
SdAR-M2 (U.S.G.S.) Meas																				> 1000	8	< 2	
SdAR-M2 (U.S.G.S.) Cert																				990	6.6	1.05	
SF85 Meas																							
SF85 Cert																							
OxD128 Meas																							
OxD128 Cert																							
262373 Orig																	0.4	6.41	< 3	298	< 1	< 2	3.44
262373 Dup																	0.5	6.81	< 3	298	< 1	< 2	3.49
262381 Orig	0.79	0.226	0.051	0.05	< 2	8	85	0.17	< 20	3	< 2	< 10	91	< 10	9	5							
262381 Dup	0.81	0.231	0.051	0.05	< 2	8	87	0.17	< 20	< 1	< 2	< 10	93	< 10	9	5							
262383 Orig																							
262383 Dup																							
262387 Orig																	0.4	6.32	< 3	461	< 1	< 2	3.48
262387 Dup																	< 0.3	6.53	< 3	475	< 1	< 2	3.52
262393 Orig																							
262393 Dup																							
262395 Orig	3.26	0.168	0.100	0.12	< 2	8	25	0.15	< 20	3	6	< 10	57	< 10	6	8							
262395 Dup	3.27	0.169	0.100	0.11	3	7	25	0.15	< 20	9	< 2	< 10	57	< 10	6	6							
Method Blank																							
Method Blank																							
Method Blank	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	2	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	1	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	1	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.3	0.01	3	7	1	2	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01

Analyte Symbol	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	6.7	9	16	1170	24.0	16	3	0.04	0.22	8	865	14	0.05	44	0.061	741	23	0.27	< 4	298	23	0.03	< 5
GXR-1 Cert	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520	41.0	0.0650	730	122	0.257	1.58	275	13.0	0.036	0.390
GXR-1 Meas																							
GXR-1 Cert																							
GXR-4 Meas	1.0	13	55	6460	3.02	20	2	1.97	1.72	11	155	344	0.55	44	0.132	54	< 5	1.78	10	221	3	0.29	< 5
GXR-4 Cert	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564	42.0	0.120	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20
GXR-4 Meas																							
GXR-4 Cert																							
SDC-1 Meas		20	66	29	4.60	19	< 1	1.11	0.96	34	893		1.51	36	0.055	22	< 5		15	157		0.38	< 5
SDC-1 Cert		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34.00	880.00		1.52	38.0	0.0690	25.00	0.54		17.00	180.00		0.606	0.70
GXR-6 Meas	0.8	15	77	72	5.62	30	< 1	1.11	0.53	34	1100	< 1	0.10	28	0.033	100	< 5	< 0.01	30	34	11		< 5
GXR-6 Cert	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104	27.0	0.0350	101	3.60	0.0160	27.6	35.0	0.0180		2.20
GXR-6 Meas																							
GXR-6 Cert																							
Oreas 72a (4 Acid Digest) Meas		156	244	313	9.54									6240				1.62					
Oreas 72a (4 Acid Digest) Cert		157	228	316	9.63									6930.000				1.74					
DNC-1a Meas		55	204	96		14				4				252		< 3	< 5		30	129		0.27	
DNC-1a Cert		57.0	270	100.00		15				5.20				247		6.3	0.96		31	144.0		0.29	
SBC-1 Meas	1.3	24	106	31		28				167		< 1		84		28	< 5		26	177		0.50	< 5
SBC-1 Cert	0.40	22.7	109	31.0000		27.0				163.0		2.40		82.8		35.0	1.01		20.0	178.0		0.51	0.89
SdAR-M2 (U.S.G.S.) Meas	5.3	13	41	237		18	7			18		12		53		798			5	148			
SdAR-M2 (U.S.G.S.) Cert	5.1	12.4	49.6	236.0000		17.6	1.44			17.9		13.3		48.8		808			4.1	144			
SF85 Meas																							
SF85 Cert																							
OxD128 Meas																							
OxD128 Cert																							
262373 Orig	0.3	18	126	23	3.76	15	< 1	0.87	1.35	18	1250	< 1	3.11	87	0.044	< 3	< 5	0.05	13	99	< 2	0.30	< 5
262373 Dup	< 0.3	18	110	22	3.75	15	< 1	0.88	1.34	18	1250	< 1	3.08	88	0.044	6	< 5	0.05	14	103	< 2	0.31	< 5
262381 Orig																							
262381 Dup																							
262383 Orig																							
262383 Dup																							
262387 Orig	< 0.3	15	33	3	2.95	19	< 1	0.65	1.39	14	513	< 1	3.01	31	0.035	< 3	< 5	< 0.01	13	152	4	0.22	< 5
262387 Dup	< 0.3	14	30	2	3.02	18	< 1	0.65	1.40	14	522	< 1	3.07	32	0.037	< 3	< 5	< 0.01	13	157	8	0.22	< 5
262393 Orig																							
262393 Dup																							
262395 Orig																							
262395 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5

Analyte Symbol	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		4	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5

Analyte Symbol	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	30	88	156	34	739	29
GXR-1 Cert	34.9	80.0	164	32.0	760	38.0
GXR-1 Meas						
GXR-1 Cert						
GXR-4 Meas	< 10	86	38	15	67	46
GXR-4 Cert	6.20	87.0	30.8	14.0	73.0	186
GXR-4 Meas						
GXR-4 Cert						
SDC-1 Meas	< 10	76	< 5		93	54
SDC-1 Cert	3.10	102.00	0.80		103.00	290.00
GXR-6 Meas	< 10	165	< 5	12	128	87
GXR-6 Cert	1.54	186	1.90	14.0	118	110
GXR-6 Meas						
GXR-6 Cert						
Oreas 72a (4 Acid Digest) Meas						
Oreas 72a (4 Acid Digest) Cert						
DNC-1a Meas		141		14	55	35
DNC-1a Cert		148.0000		18.0	70.0	38.0
SBC-1 Meas	< 10	212	< 5	36	174	124
SBC-1 Cert	5.76	220.0	1.60	36.5	186.0	134.0
SdAR-M2 (U.S.G.S.) Meas	< 10	27	9	30	781	128
SdAR-M2 (U.S.G.S.) Cert	2.53	25.2	2.8	32.7	760	259
SF85 Meas						
SF85 Cert						
OxD128 Meas						
OxD128 Cert						
262373 Orig	< 10	92	< 5	9	60	147
262373 Dup	< 10	92	5	9	61	146
262381 Orig						
262381 Dup						
262383 Orig						
262383 Dup						
262387 Orig	< 10	62	< 5	9	33	102
262387 Dup	< 10	64	< 5	9	33	106
262393 Orig						
262393 Dup						
262395 Orig						
262395 Dup						
Method Blank						
Method Blank						
Method Blank						
Method Blank						
Method Blank						
Method Blank						

Analyte Symbol	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5



Date Submitted: 10-Aug-16
Invoice No.: A16-07884
Invoice Date: 29-Aug-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

34 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-50-Geraldton Au - Fire Assay AA

REPORT **A16-07884**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.



CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is written in a cursive style with some loops and flourishes.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
801 Main Street, P.O. Box 999, Geraldton, Ontario, Canada, P0T 1M0
TELEPHONE +807 854-2020 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Geraldton@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Date Submitted: 10-Aug-16
Invoice No.: A16-07884
Invoice Date: 29-Aug-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

34 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1E3-Tbay Aqua Regia ICP(AQUAGEO)

Code 1F2-Tbay Total Digestion ICP(TOTAL)

REPORT **A16-07884**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:



Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
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E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A16-07884

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
262047	25	< 0.2	< 0.5	24	225	1	18	5	50	1.23	11	< 10	93	< 0.5	< 2	0.37	11	39	1.51	< 10	< 1	0.72	37
262048	6	< 0.2	< 0.5	18	278	< 1	21	5	51	1.43	10	< 10	173	< 0.5	< 2	0.40	11	46	1.79	< 10	< 1	0.95	35
262049	26	0.2	< 0.5	41	302	1	26	11	58	1.39	16	< 10	150	< 0.5	< 2	0.41	14	65	2.00	< 10	< 1	0.94	37
262050	< 5	< 0.2	< 0.5	< 1	264	< 1	1	5	6	0.02	< 2	22	55	< 0.5	< 2	13.4	< 1	1	0.05	< 10	< 1	0.02	< 10
262051	6	< 0.2	< 0.5	31	308	< 1	22	5	52	1.44	19	< 10	165	< 0.5	< 2	0.54	12	55	1.95	< 10	< 1	0.99	35
262052	6	< 0.2	< 0.5	23	268	< 1	20	7	46	1.24	20	< 10	122	< 0.5	< 2	0.70	10	43	1.68	< 10	< 1	0.77	36
262053	12	< 0.2	< 0.5	20	221	1	17	10	42	1.06	55	< 10	121	< 0.5	< 2	0.85	10	38	1.37	< 10	< 1	0.55	38
262054	5	< 0.2	< 0.5	36	392	2	33	10	68	1.83	30	< 10	179	< 0.5	< 2	0.48	16	66	2.72	< 10	< 1	1.19	35
262055	< 5	< 0.2	< 0.5	33	416	< 1	35	9	70	1.92	15	< 10	233	< 0.5	< 2	0.22	15	83	2.79	< 10	< 1	1.38	28
262056	7	< 0.2	< 0.5	49	443	< 1	37	8	74	2.01	31	< 10	250	< 0.5	< 2	0.20	18	96	3.07	< 10	< 1	1.48	35
262057	6	< 0.2	< 0.5	39	382	< 1	39	4	65	2.01	56	< 10	193	< 0.5	< 2	0.30	17	82	3.01	< 10	< 1	1.40	30
262058	3480	0.6	< 0.5	64	591	7	24	14	75	2.16	10	< 10	233	< 0.5	< 2	1.43	10	44	4.43	< 10	< 1	0.20	< 10
262059	10	< 0.2	< 0.5	18	230	< 1	17	10	47	1.06	12	< 10	144	< 0.5	< 2	0.52	10	42	1.45	< 10	< 1	0.60	37
262060	13	< 0.2	< 0.5	24	266	< 1	21	9	52	1.24	24	< 10	139	< 0.5	< 2	0.40	11	50	1.73	< 10	< 1	0.58	34
262061	21	0.2	< 0.5	37	311	2	31	9	65	1.44	567	< 10	164	< 0.5	< 2	0.36	16	61	2.22	< 10	< 1	0.85	39
262062	14	< 0.2	< 0.5	29	320	< 1	27	7	57	1.49	76	< 10	174	< 0.5	< 2	0.30	13	69	2.13	< 10	< 1	1.00	36
262063	25	< 0.2	< 0.5	42	292	< 1	26	7	59	1.54	30	< 10	169	< 0.5	< 2	0.36	14	61	2.29	< 10	< 1	0.98	37
262064	21	< 0.2	< 0.5	40	335	< 1	35	8	61	1.73	36	< 10	159	< 0.5	< 2	0.64	16	94	2.61	< 10	< 1	1.06	33
262065	19	< 0.2	< 0.5	40	389	< 1	36	8	64	1.88	34	< 10	175	< 0.5	< 2	0.48	17	107	2.73	< 10	< 1	1.22	39
262066	23	< 0.2	< 0.5	55	381	1	40	7	65	1.89	61	< 10	177	< 0.5	< 2	0.56	20	85	3.21	< 10	< 1	1.01	39
262067	22	< 0.2	< 0.5	87	852	< 1	26	< 2	30	3.01	24	< 10	105	< 0.5	< 2	4.52	26	30	4.76	< 10	< 1	0.70	< 10
262068	14	< 0.2	< 0.5	109	567	< 1	53	< 2	28	2.16	76	< 10	21	< 0.5	< 2	3.81	33	142	4.10	< 10	< 1	0.11	< 10
262352	< 5	< 0.2	< 0.5	23	664	< 1	26	2	62	1.60	< 2	< 10	170	< 0.5	< 2	1.32	18	30	2.79	< 10	< 1	0.52	14
262353	< 5	< 0.2	< 0.5	27	824	< 1	21	< 2	55	1.69	< 2	< 10	158	< 0.5	< 2	2.53	17	27	3.06	< 10	< 1	0.50	13
262354	< 5	< 0.2	< 0.5	21	600	< 1	29	2	54	1.69	< 2	< 10	159	< 0.5	< 2	1.79	17	38	2.85	< 10	< 1	0.41	13
262355	< 5	< 0.2	< 0.5	19	810	< 1	14	3	47	2.13	< 2	< 10	166	< 0.5	< 2	2.37	12	24	3.03	< 10	< 1	0.46	12
262356	< 5	< 0.2	< 0.5	21	967	< 1	17	< 2	49	2.36	< 2	< 10	193	< 0.5	< 2	2.09	15	27	3.61	< 10	< 1	0.57	13
262357	< 5	< 0.2	< 0.5	32	938	< 1	13	< 2	51	1.92	< 2	< 10	202	< 0.5	< 2	1.46	12	36	3.51	< 10	< 1	0.70	13
262358	< 5	< 0.2	< 0.5	38	935	< 1	17	< 2	50	1.81	< 2	< 10	176	< 0.5	< 2	1.98	14	27	3.45	< 10	< 1	0.60	13
262359	< 5	< 0.2	< 0.5	27	1020	3	32	< 2	57	2.38	< 2	< 10	123	< 0.5	< 2	1.99	22	28	4.10	< 10	< 1	0.47	13
262360	< 5	< 0.2	< 0.5	22	827	< 1	18	2	52	1.68	< 2	< 10	131	< 0.5	< 2	1.99	14	30	2.32	< 10	< 1	0.55	13
262361	3640	0.5	< 0.5	62	569	7	24	15	73	2.05	10	< 10	223	< 0.5	< 2	1.38	9	43	4.25	< 10	< 1	0.19	< 10
262362	< 5	< 0.2	< 0.5	31	484	< 1	17	< 2	57	0.98	< 2	< 10	93	< 0.5	< 2	1.45	18	26	1.58	< 10	< 1	0.39	14
262363	< 5	< 0.2	< 0.5	42	731	< 1	30	< 2	56	1.36	< 2	< 10	136	< 0.5	< 2	1.14	23	29	2.68	< 10	< 1	0.57	13

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Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.3	0.01	3	7	1	2	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262047	0.56	0.098	0.029	0.18	4	3	32	0.11	< 20	4	< 2	< 10	23	< 10	6	33	0.3	6.99	5	662	1	< 2	1.62
262048	0.70	0.119	0.038	0.10	< 2	3	33	0.15	< 20	< 1	< 2	< 10	29	< 10	7	35	0.3	6.53	7	825	1	< 2	1.60
262049	0.74	0.114	0.037	0.19	3	4	33	0.17	< 20	6	< 2	< 10	36	< 10	7	36	0.9	4.67	14	796	1	< 2	1.15
262050	10.5	0.021	0.003	< 0.01	< 2	< 1	102	< 0.01	< 20	2	< 2	< 10	1	< 10	< 1	< 1	< 0.3	0.06	< 3	52	< 1	< 2	18.4
262051	0.73	0.119	0.034	0.16	2	4	36	0.16	< 20	4	< 2	< 10	33	< 10	6	35	0.5	5.75	26	778	1	< 2	1.42
262052	0.60	0.092	0.039	0.14	< 2	3	40	0.11	< 20	< 1	2	< 10	25	15	6	21	0.3	6.16	17	677	1	< 2	1.52
262053	0.47	0.101	0.034	0.16	< 2	2	38	0.09	< 20	9	< 2	< 10	20	< 10	7	26	0.5	5.99	40	660	1	< 2	1.57
262054	1.04	0.086	0.049	0.18	< 2	5	33	0.19	< 20	5	< 2	< 10	42	< 10	8	33	0.6	6.33	26	848	1	< 2	1.30
262055	1.15	0.116	0.043	0.13	< 2	7	32	0.24	< 20	4	< 2	< 10	54	< 10	8	39	0.5	6.26	6	710	2	< 2	1.32
262056	1.22	0.108	0.053	0.20	< 2	7	28	0.25	< 20	1	< 2	< 10	56	< 10	9	40	1.1	7.53	18	824	2	< 2	1.35
262057	1.18	0.099	0.040	0.21	3	6	29	0.22	< 20	5	< 2	< 10	53	< 10	7	43	0.5	7.33	54	762	2	< 2	1.38
262058	0.98	0.151	0.065	0.06	5	9	64	0.22	< 20	1	< 2	< 10	93	< 10	10	10	0.7	1.97	6	552	< 1	< 2	2.16
262059	0.50	0.104	0.046	0.15	< 2	3	32	0.11	< 20	< 1	< 2	< 10	22	< 10	7	22	0.3	5.32	10	658	1	< 2	1.33
262060	0.59	0.097	0.030	0.18	< 2	3	32	0.14	< 20	3	< 2	< 10	29	< 10	7	37	0.4	5.79	25	782	1	< 2	1.23
262061	0.77	0.092	0.037	0.31	3	4	29	0.17	< 20	< 1	< 2	< 10	37	< 10	9	42	0.7	4.81	521	753	1	< 2	1.21
262062	0.79	0.118	0.042	0.21	< 2	5	31	0.18	< 20	< 1	2	< 10	40	< 10	8	37	0.7	7.30	64	799	1	4	1.62
262063	0.77	0.100	0.042	0.24	< 2	4	29	0.18	< 20	2	< 2	< 10	35	12	8	36	0.7	6.56	25	776	1	< 2	1.56
262064	0.92	0.130	0.043	0.23	< 2	6	46	0.20	< 20	< 1	< 2	< 10	52	17	9	34	0.6	7.09	33	747	1	< 2	2.18
262065	1.11	0.158	0.042	0.23	< 2	8	45	0.22	< 20	< 1	< 2	< 10	59	< 10	9	41	0.7	6.52	24	527	1	< 2	2.15
262066	1.08	0.101	0.039	0.28	< 2	7	27	0.24	< 20	9	3	< 10	63	< 10	10	45	0.6	7.25	37	710	1	< 2	1.87
262067	1.92	0.298	0.053	0.09	< 2	15	56	0.24	< 20	2	3	< 10	102	< 10	12	5	< 0.3	7.19	23	165	< 1	4	8.22
262068	2.26	0.167	0.024	0.03	< 2	16	15	0.15	< 20	4	< 2	< 10	101	< 10	8	4	< 0.3	3.55	54	28	< 1	3	6.68
262352	0.60	0.186	0.043	0.14	< 2	11	15	0.18	< 20	9	< 2	< 10	75	< 10	8	26	0.4	4.28	< 3	197	< 1	< 2	3.19
262353	0.72	0.164	0.041	0.15	2	11	16	0.16	< 20	4	< 2	< 10	69	< 10	8	25	0.5	6.22	< 3	186	< 1	< 2	4.68
262354	0.90	0.164	0.041	0.15	< 2	10	18	0.12	< 20	< 1	< 2	< 10	63	< 10	7	19	0.5	6.64	< 3	218	< 1	< 2	3.80
262355	0.77	0.269	0.039	0.02	< 2	10	25	0.15	< 20	4	< 2	< 10	64	< 10	8	20	0.5	7.25	< 3	196	< 1	< 2	4.81
262356	0.85	0.289	0.042	0.04	2	11	22	0.17	< 20	< 1	< 2	< 10	68	< 10	8	23	0.5	7.28	< 3	207	< 1	2	4.55
262357	0.64	0.198	0.042	0.10	< 2	11	14	0.18	< 20	< 1	< 2	< 10	72	< 10	9	26	0.5	6.20	< 3	211	< 1	< 2	3.72
262358	0.74	0.178	0.041	0.21	< 2	11	15	0.17	< 20	2	< 2	< 10	69	< 10	9	26	0.6	6.82	< 3	203	< 1	2	4.46
262359	0.61	0.303	0.042	0.47	< 2	11	27	0.15	< 20	< 1	< 2	< 10	67	< 10	9	28	0.5	6.65	< 3	143	< 1	< 2	4.41
262360	0.49	0.222	0.042	0.14	< 2	9	20	0.18	< 20	6	< 2	< 10	63	< 10	9	25	0.4	7.20	< 3	229	< 1	< 2	4.30
262361	0.94	0.143	0.063	0.06	5	8	60	0.21	< 20	3	< 2	< 10	88	< 10	10	10	0.4	4.18	6	567	< 1	< 2	2.46
262362	0.34	0.120	0.042	0.12	< 2	5	10	0.15	< 20	3	< 2	< 10	49	< 10	8	14	0.9	5.60	< 3	219	< 1	< 2	3.27
262363	0.46	0.149	0.045	0.08	< 2	8	12	0.18	< 20	< 1	< 2	< 10	69	< 10	9	27	0.6	6.26	< 3	214	< 1	< 2	3.37

Results

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Analyte Symbol	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262047	< 0.3	12	47	25	1.63	15	< 1	1.46	0.61	15	227	1	2.35	27	0.028	15	< 5	0.18	7	569	< 2	0.19	< 5
262048	< 0.3	10	61	16	1.66	15	< 1	1.70	0.56	13	255	< 1	2.86	25	0.031	16	< 5	0.09	7	370	< 2	0.19	< 5
262049	< 0.3	13	109	38	1.86	14	< 1	1.62	0.63	14	274	2	2.86	34	0.032	17	< 5	0.17	6	336	3	0.22	< 5
262050	< 0.3	< 1	6	< 1	0.06	1	< 1	0.02	12.1	9	295	< 1	0.04	< 1	0.003	< 3	< 5	< 0.01	< 4	123	4	< 0.01	< 5
262051	< 0.3	12	74	31	1.89	15	< 1	1.63	0.70	14	291	< 1	2.87	30	0.030	16	< 5	0.15	7	408	3	0.20	< 5
262052	0.3	10	48	23	1.69	15	< 1	1.50	0.62	19	267	1	2.59	28	0.036	14	< 5	0.13	7	486	2	0.19	< 5
262053	0.3	10	43	21	1.42	13	< 1	1.36	0.52	12	234	2	2.76	24	0.031	11	< 5	0.15	6	448	< 2	0.17	< 5
262054	0.4	17	74	37	2.71	18	< 1	1.27	1.06	21	406	1	2.56	44	0.044	17	< 5	0.16	10	473	16	0.30	< 5
262055	< 0.3	15	80	34	2.71	18	< 1	1.33	1.12	21	391	< 1	3.13	42	0.038	19	< 5	0.11	10	488	3	0.29	< 5
262056	0.4	18	99	52	3.12	19	< 1	1.52	1.25	22	443	1	2.90	49	0.053	18	< 5	0.20	13	552	8	0.33	< 5
262057	0.4	18	86	42	3.04	23	1	1.39	1.21	21	399	< 1	2.82	51	0.038	16	< 5	0.22	12	473	< 2	0.33	6
262058	0.4	14	89	58	4.23	12	< 1	0.74	1.13	14	714	6	2.12	39	0.055	15	8	0.05	4	173	5	0.33	< 5
262059	< 0.3	10	68	17	1.40	13	< 1	1.35	0.49	11	250	< 1	2.86	22	0.040	11	< 5	0.14	6	376	< 2	0.16	< 5
262060	< 0.3	11	78	24	1.68	14	< 1	1.47	0.57	12	267	< 1	2.61	27	0.028	13	< 5	0.17	7	412	4	0.19	< 5
262061	< 0.3	16	121	37	2.12	17	< 1	1.41	0.75	17	324	1	2.50	40	0.031	18	< 5	0.27	7	334	3	0.26	< 5
262062	< 0.3	13	70	30	2.14	17	< 1	1.61	0.81	16	328	< 1	3.23	36	0.039	16	< 5	0.20	10	545	9	0.25	20
262063	0.4	15	74	43	2.29	17	< 1	1.44	0.79	17	298	< 1	2.63	39	0.040	16	< 5	0.23	8	417	9	0.25	< 5
262064	< 0.3	19	80	42	2.65	17	2	1.50	0.96	18	351	< 1	2.32	43	0.042	18	< 5	0.23	11	524	< 2	0.27	< 5
262065	< 0.3	18	91	40	2.62	17	< 1	1.32	1.08	19	378	< 1	2.49	44	0.040	19	< 5	0.22	10	447	7	0.27	< 5
262066	0.4	21	107	55	3.23	16	< 1	1.43	1.13	18	391	< 1	2.06	50	0.036	18	< 5	0.29	15	368	3	0.34	< 5
262067	1.2	39	39	87	8.15	16	< 1	1.02	3.92	16	1620	< 1	1.44	65	0.048	11	< 5	0.09	47	209	8	0.61	< 5
262068	0.9	44	225	98	7.18	15	< 1	0.16	3.21	10	1170	< 1	1.48	81	0.020	< 3	< 5	0.03	22	91	5	0.41	< 5
262352	0.5	19	35	22	2.57	17	< 1	0.65	0.50	12	653	2	3.14	34	0.035	< 3	< 5	0.11	7	87	3	0.28	< 5
262353	0.7	18	32	25	3.08	16	< 1	0.60	0.73	13	872	< 1	2.82	33	0.039	< 3	< 5	0.14	14	116	5	0.27	< 5
262354	< 0.3	19	44	22	2.94	18	< 1	0.67	0.91	17	653	< 1	2.99	42	0.039	< 3	< 5	0.14	12	114	< 2	0.29	< 5
262355	< 0.3	15	28	20	3.39	15	< 1	0.58	0.85	13	913	< 1	2.51	23	0.041	< 3	< 5	0.02	15	132	< 2	0.28	< 5
262356	< 0.3	17	27	19	4.08	15	< 1	0.63	0.92	14	1150	< 1	2.52	30	0.040	< 3	< 5	0.04	14	119	17	0.29	< 5
262357	0.7	14	32	32	3.61	16	< 1	0.77	0.61	17	1120	< 1	2.86	20	0.036	< 3	< 5	0.08	11	93	8	0.28	< 5
262358	< 0.3	17	46	39	3.77	17	< 1	0.69	0.80	16	1080	< 1	2.77	28	0.039	< 3	< 5	0.19	14	108	3	0.28	8
262359	0.9	24	31	26	4.62	19	< 1	0.58	0.65	14	1500	3	2.51	44	0.039	< 3	< 5	0.47	13	108	8	0.29	< 5
262360	0.4	14	29	21	2.37	14	< 1	0.88	0.49	13	822	1	2.79	25	0.041	< 3	< 5	0.13	14	139	< 2	0.29	< 5
262361	0.8	13	69	58	4.46	15	< 1	0.79	1.29	14	731	7	2.16	40	0.057	14	< 5	0.05	13	209	< 2	0.36	< 5
262362	0.3	17	40	30	1.65	16	< 1	0.84	0.29	14	493	< 1	3.45	23	0.032	4	< 5	0.09	7	87	20	0.29	< 5
262363	< 0.3	25	31	43	2.73	15	< 1	0.82	0.41	14	799	< 1	3.46	41	0.035	3	< 5	0.06	10	100	8	0.30	< 5

Results

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Analyte Symbol	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262047	< 10	41	6	10	53	117
262048	< 10	42	< 5	7	46	95
262049	< 10	51	< 5	6	55	128
262050	< 10	3	< 5	< 1	10	< 5
262051	< 10	47	< 5	7	51	108
262052	< 10	42	19	8	51	113
262053	< 10	35	8	9	45	97
262054	< 10	72	< 5	10	72	146
262055	< 10	73	< 5	9	70	148
262056	< 10	81	< 5	14	78	224
262057	< 10	85	5	10	68	161
262058	< 10	128	7	3	80	33
262059	< 10	34	8	8	46	103
262060	< 10	44	8	8	52	120
262061	< 10	63	14	7	65	147
262062	< 10	57	< 5	12	57	149
262063	< 10	56	19	10	61	154
262064	< 10	66	24	12	64	148
262065	< 10	67	10	12	65	173
262066	< 10	92	15	14	67	163
262067	< 10	211	< 5	27	52	66
262068	< 10	215	< 5	10	51	36
262352	< 10	83	< 5	5	59	144
262353	< 10	78	< 5	10	57	144
262354	< 10	82	< 5	7	58	152
262355	< 10	77	< 5	12	55	147
262356	< 10	80	< 5	12	54	151
262357	< 10	80	< 5	9	54	144
262358	< 10	82	< 5	11	55	149
262359	< 10	83	5	10	63	149
262360	< 10	82	< 5	12	54	154
262361	< 10	132	7	12	80	45
262362	< 10	74	< 5	7	56	150
262363	< 10	85	< 5	8	59	158

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas		29.7	2.5	1200	806	12	26	688	656	0.37	402	11	389	0.8	1530	0.80	5	6	24.0	< 10	9	0.03	< 10
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50
GXR-1 Meas		28.9	3.9	1200	785	12	26	666	642	0.35	389	11	538	0.8	1510	0.78	6	6	23.4	< 10	7	0.03	< 10
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50
GXR-4 Meas		3.5	< 0.5	6680	147	304	31	48	66	2.88	101	< 10	44	1.4	31	0.97	13	57	3.25	10	< 1	1.74	51
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5
GXR-4 Meas		3.4	0.6	6440	138	287	30	44	63	2.81	98	< 10	46	1.4	24	0.91	13	54	3.15	10	< 1	1.71	53
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5
SDC-1 Meas																							
SDC-1 Cert																							
GXR-6 Meas		0.2	< 0.5	74	1100	1	16	103	117	7.43	239	< 10	977	0.9	< 2	0.14	13	83	6.13	20	< 1	1.21	< 10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
GXR-6 Meas		0.2	< 0.5	72	1080	2	16	101	117	7.36	254	< 10	959	0.9	< 2	0.14	12	83	6.16	20	< 1	1.20	< 10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
Oreas 72a (4 Acid Digest) Meas																							
Oreas 72a (4 Acid Digest) Cert																							
DNC-1a Meas																							
DNC-1a Cert																							
SBC-1 Meas																							
SBC-1 Cert																							
SdAR-M2 (U.S.G.S.) Meas																							
SdAR-M2 (U.S.G.S.) Cert																							
SF85 Meas	876																						
SF85 Cert	848																						
OxD128 Meas	446																						
OxD128 Cert	424.000																						
262048 Orig		< 0.2	< 0.5	18	277	< 1	20	5	52	1.43	12	< 10	173	< 0.5	< 2	0.40	11	45	1.79	< 10	< 1	0.95	35
262048 Dup		< 0.2	< 0.5	18	279	< 1	21	6	51	1.43	8	< 10	173	< 0.5	< 2	0.40	11	47	1.79	< 10	< 1	0.95	34
262051 Orig																							
262051 Dup																							
262056 Orig	7																						
262056 Dup	6																						
262061 Orig		0.2	< 0.5	38	312	2	31	10	65	1.46	583	< 10	167	< 0.5	< 2	0.36	16	61	2.24	< 10	< 1	0.86	39
262061 Dup		0.2	< 0.5	37	310	2	31	9	65	1.42	550	< 10	160	< 0.5	< 2	0.36	16	61	2.21	< 10	< 1	0.85	39
262065 Orig																							
262065 Dup																							
262066 Orig	24																						
262066 Dup	22																						
262358 Orig		< 0.2	< 0.5	38	932	< 1	18	< 2	49	1.79	< 2	< 10	176	< 0.5	< 2	1.96	14	27	3.42	< 10	< 1	0.59	13
262358 Dup		< 0.2	< 0.5	38	937	< 1	17	2	50	1.83	< 2	< 10	177	< 0.5	< 2	2.00	15	28	3.47	< 10	< 1	0.60	13
262359 Orig	< 5																						
262359 Dup	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	11	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.3	0.01	3	7	1	2	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	0.14	0.047	0.049	0.21	84	1	183	< 0.01	< 20	14	< 2	31	76	150	24	16	31.8	2.00	425	755	1	1550	0.95
GXR-1 Cert	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0	0.390	34.9	80.0	164	32.0	38.0	31.0	3.52	427	750	1.22	1380	0.960
GXR-1 Meas	0.14	0.048	0.048	0.20	81	1	179	< 0.01	< 20	12	< 2	30	73	143	24	16							
GXR-1 Cert	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0	0.390	34.9	80.0	164	32.0	38.0							
GXR-4 Meas	1.69	0.134	0.133	1.79	3	8	75	0.14	< 20	6	3	< 10	79	10	11	10	3.2	6.47	83	190	2	< 2	1.13
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970	3.20	6.20	87.0	30.8	14.0	186	4.0	7.20	98.0	1640	1.90	19.0	1.01
GXR-4 Meas	1.66	0.136	0.132	1.73	< 2	7	74	0.14	< 20	3	4	< 10	76	< 10	11	10							
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970	3.20	6.20	87.0	30.8	14.0	186							
SDC-1 Meas																		6.02	< 3	630	3		0.91
SDC-1 Cert																		8.34	0.220	630	3.00		1.00
GXR-6 Meas	0.44	0.071	0.037	0.01	5	21	27		< 20	3	< 2	< 10	172	< 10	5	9	0.5	10.2	277	> 1000	1	< 2	0.17
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110	1.30	17.7	330	1300	1.40	0.290	0.180
GXR-6 Meas	0.44	0.071	0.037	0.02	3	20	27		< 20	< 1	< 2	< 10	169	< 10	4	10							
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110							
Oreas 72a (4 Acid Digest) Meas																			< 3				
Oreas 72a (4 Acid Digest) Cert																			14.7				
DNC-1a Meas																				105			
DNC-1a Cert																				118			
SBC-1 Meas																			11	783	3	< 2	
SBC-1 Cert																			25.7	788.0	3.20	0.70	
SdAR-M2 (U.S.G.S.) Meas																				> 1000	8	< 2	
SdAR-M2 (U.S.G.S.) Cert																				990	6.6	1.05	
SF85 Meas																							
SF85 Cert																							
OxD128 Meas																							
OxD128 Cert																							
262048 Orig	0.70	0.118	0.039	0.10	3	3	33	0.15	< 20	4	< 2	< 10	29	< 10	7	36							
262048 Dup	0.69	0.119	0.038	0.10	< 2	3	33	0.15	< 20	< 1	< 2	< 10	29	< 10	7	34							
262051 Orig																	0.4	5.28	24	766	1	< 2	1.37
262051 Dup																	0.6	6.22	28	790	1	< 2	1.46
262056 Orig																							
262056 Dup																							
262061 Orig	0.77	0.096	0.036	0.31	3	4	30	0.17	< 20	5	< 2	< 10	37	< 10	9	41							
262061 Dup	0.77	0.089	0.037	0.31	3	4	29	0.17	< 20	< 1	< 2	< 10	37	< 10	9	43							
262065 Orig																	0.8	6.77	28	549	1	< 2	2.18
262065 Dup																	0.6	6.27	19	504	1	< 2	2.11
262066 Orig																							
262066 Dup																							
262358 Orig	0.74	0.176	0.041	0.20	< 2	11	15	0.17	< 20	3	3	< 10	68	< 10	9	26							
262358 Dup	0.75	0.180	0.041	0.21	< 2	11	16	0.17	< 20	2	< 2	< 10	70	< 10	9	25							
262359 Orig																							
262359 Dup																							
Method Blank																							
Method Blank																							
Method Blank	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1							

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.3	0.01	3	7	1	2	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Method Blank	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	2	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	1	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	1	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01

Analyte Symbol	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	6.7	9	16	1170	24.0	16	3	0.04	0.22	8	865	14	0.05	44	0.061	741	23	0.27	< 4	298	23	0.03	< 5
GXR-1 Cert	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520	41.0	0.0650	730	122	0.257	1.58	275	13.0	0.036	0.390
GXR-1 Meas																							
GXR-1 Cert																							
GXR-4 Meas	1.0	13	55	6460	3.02	20	2	1.97	1.72	11	155	344	0.55	44	0.132	54	< 5	1.78	10	221	3	0.29	< 5
GXR-4 Cert	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564	42.0	0.120	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20
GXR-4 Meas																							
GXR-4 Cert																							
SDC-1 Meas		20	66	29	4.60	19	< 1	1.11	0.96	34	893		1.51	36	0.055	22	< 5		15	157		0.38	< 5
SDC-1 Cert		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34.00	880.00		1.52	38.0	0.0690	25.00	0.54		17.00	180.00		0.606	0.70
GXR-6 Meas	0.8	15	77	72	5.62	30	< 1	1.11	0.53	34	1100	< 1	0.10	28	0.033	100	< 5	< 0.01	30	34	11		< 5
GXR-6 Cert	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104	27.0	0.0350	101	3.60	0.0160	27.6	35.0	0.0180		2.20
GXR-6 Meas																							
GXR-6 Cert																							
Oreas 72a (4 Acid Digest) Meas		156	244	313	9.54									6240				1.62					
Oreas 72a (4 Acid Digest) Cert		157	228	316	9.63									6930.000				1.74					
DNC-1a Meas		55	204	96		14				4				252		< 3	< 5		30	129		0.27	
DNC-1a Cert		57.0	270	100.00		15				5.20				247		6.3	0.96		31	144.0		0.29	
SBC-1 Meas	1.3	24	106	31		28				167		< 1		84		28	< 5		26	177		0.50	< 5
SBC-1 Cert	0.40	22.7	109	31.0000		27.0				163.0		2.40		82.8		35.0	1.01		20.0	178.0		0.51	0.89
SdAR-M2 (U.S.G.S.) Meas	5.3	13	41	237		18	7			18		12		53		798			5	148			
SdAR-M2 (U.S.G.S.) Cert	5.1	12.4	49.6	236.0000		17.6	1.44			17.9		13.3		48.8		808			4.1	144			
SF85 Meas																							
SF85 Cert																							
OxD128 Meas																							
OxD128 Cert																							
262048 Orig																							
262048 Dup																							
262051 Orig	< 0.3	12	79	30	1.83	14	< 1	1.74	0.67	14	291	< 1	2.79	29	0.028	17	< 5	0.14	6	389	3	0.20	< 5
262051 Dup	< 0.3	12	68	32	1.95	15	6	1.52	0.74	15	291	< 1	2.96	31	0.031	16	< 5	0.15	7	427	2	0.21	< 5
262056 Orig																							
262056 Dup																							
262061 Orig																							
262061 Dup																							
262065 Orig	< 0.3	18	85	40	2.64	17	< 1	1.29	1.09	19	381	< 1	2.50	44	0.040	19	< 5	0.22	11	488	8	0.27	< 5
262065 Dup	< 0.3	18	97	40	2.59	16	< 1	1.34	1.06	19	375	< 1	2.48	43	0.039	19	< 5	0.21	10	406	6	0.27	< 5
262066 Orig																							
262066 Dup																							
262358 Orig																							
262358 Dup																							
262359 Orig																							
262359 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		4	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5

Analyte Symbol	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	30	88	156	34	739	29
GXR-1 Cert	34.9	80.0	164	32.0	760	38.0
GXR-1 Meas						
GXR-1 Cert						
GXR-4 Meas	< 10	86	38	15	67	46
GXR-4 Cert	6.20	87.0	30.8	14.0	73.0	186
GXR-4 Meas						
GXR-4 Cert						
SDC-1 Meas	< 10	76	< 5		93	54
SDC-1 Cert	3.10	102.00	0.80		103.00	290.00
GXR-6 Meas	< 10	165	< 5	12	128	87
GXR-6 Cert	1.54	186	1.90	14.0	118	110
GXR-6 Meas						
GXR-6 Cert						
Oreas 72a (4 Acid Digest) Meas						
Oreas 72a (4 Acid Digest) Cert						
DNC-1a Meas		141		14	55	35
DNC-1a Cert		148.0000		18.0	70.0	38.0
SBC-1 Meas	< 10	212	< 5	36	174	124
SBC-1 Cert	5.76	220.0	1.60	36.5	186.0	134.0
SdAR-M2 (U.S.G.S.) Meas	< 10	27	9	30	781	128
SdAR-M2 (U.S.G.S.) Cert	2.53	25.2	2.8	32.7	760	259
SF85 Meas						
SF85 Cert						
OxD128 Meas						
OxD128 Cert						
262048 Orig						
262048 Dup						
262051 Orig	< 10	46	< 5	7	51	105
262051 Dup	< 10	48	< 5	8	51	111
262056 Orig						
262056 Dup						
262061 Orig						
262061 Dup						
262065 Orig	< 10	67	10	13	66	183
262065 Dup	< 10	67	11	10	64	163
262066 Orig						
262066 Dup						
262358 Orig						
262358 Dup						
262359 Orig						
262359 Dup						
Method Blank						
Method Blank						

Analyte Symbol	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Method Blank						
Method Blank						
Method Blank						
Method Blank						
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5
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Method Blank	< 10	< 2	< 5	< 1	< 1	< 5



Date Submitted: 10-Aug-16
Invoice No.: A16-07883
Invoice Date: 29-Aug-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

34 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1E3-Tbay Aqua Regia ICP(AQUAGEO)

Code 1F2-Tbay Total Digestion ICP(TOTAL)

REPORT **A16-07883**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is written in a cursive style with a large, stylized 'E' and 'S'.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Date Submitted: 10-Aug-16
Invoice No.: A16-07883
Invoice Date: 29-Aug-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

34 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-50-Geraldton Au - Fire Assay AA

REPORT **A16-07883**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.



CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé".

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
801 Main Street, P.O. Box 999, Geraldton, Ontario, Canada, P0T 1M0
TELEPHONE +807 854-2020 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Geraldton@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A16-07883

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
262398	8	< 0.2	< 0.5	< 1	567	< 1	151	< 2	36	2.25	< 2	< 10	807	< 0.5	< 2	2.14	24	485	3.22	< 10	< 1	1.06	16
262399	< 5	< 0.2	< 0.5	< 1	585	< 1	100	< 2	40	2.36	< 2	< 10	792	< 0.5	< 2	1.64	25	371	3.59	< 10	< 1	1.32	14
262400	< 5	< 0.2	< 0.5	< 1	583	< 1	124	< 2	36	2.25	< 2	< 10	746	< 0.5	< 2	2.42	24	318	3.16	< 10	< 1	1.17	17
262401	3700	0.6	0.6	63	584	7	24	13	74	2.10	12	< 10	231	< 0.5	< 2	1.42	11	44	4.34	< 10	< 1	0.19	< 10
262402	5	< 0.2	< 0.5	1	316	< 1	54	< 2	19	1.37	< 2	< 10	651	< 0.5	< 2	1.41	12	163	2.42	< 10	< 1	0.72	14
262403	5	< 0.2	< 0.5	2	262	< 1	10	< 2	11	0.95	< 2	< 10	407	< 0.5	< 2	1.68	6	23	2.45	< 10	< 1	0.51	13
262404	< 5	< 0.2	< 0.5	< 1	362	< 1	12	< 2	13	1.18	< 2	< 10	129	< 0.5	< 2	2.30	9	19	3.86	< 10	< 1	0.79	13
262405	< 5	< 0.2	< 0.5	< 1	353	< 1	17	< 2	13	1.24	< 2	< 10	394	< 0.5	< 2	1.72	10	28	3.77	< 10	< 1	0.76	14
262406	5	< 0.2	< 0.5	2	709	< 1	166	5	47	2.61	< 2	< 10	589	< 0.5	< 2	2.85	26	537	3.68	< 10	< 1	0.94	14
262407	< 5	< 0.2	< 0.5	3	672	< 1	95	2	40	2.10	< 2	< 10	672	< 0.5	< 2	2.19	24	361	3.31	< 10	< 1	0.98	13
262408	< 5	< 0.2	< 0.5	2	729	< 1	86	< 2	38	1.84	< 2	< 10	287	< 0.5	< 2	2.50	22	293	3.00	< 10	< 1	0.61	13
262409	< 5	< 0.2	< 0.5	2	841	< 1	94	< 2	50	2.20	< 2	< 10	301	< 0.5	< 2	2.35	21	334	3.23	< 10	< 1	0.90	15
262410	5	< 0.2	< 0.5	42	737	< 1	12	< 2	52	2.20	< 2	< 10	188	< 0.5	< 2	1.45	12	25	3.19	< 10	< 1	0.63	13
262411	< 5	< 0.2	< 0.5	< 1	231	< 1	1	2	10	0.03	< 2	27	125	< 0.5	< 2	12.6	< 1	< 1	0.05	< 10	< 1	0.02	< 10
262412	< 5	< 0.2	< 0.5	38	841	< 1	16	2	60	2.16	< 2	< 10	143	< 0.5	< 2	1.76	12	28	3.93	< 10	< 1	0.57	14
262475	13	< 0.2	0.7	21	794	< 1	< 1	< 2	105	2.87	< 2	< 10	207	< 0.5	< 2	2.19	15	2	6.14	10	< 1	1.05	14
262476	< 5	< 0.2	< 0.5	30	630	< 1	< 1	< 2	70	2.58	< 2	< 10	141	< 0.5	< 2	2.24	13	4	5.17	10	< 1	0.42	13
262477	< 5	< 0.2	< 0.5	25	660	< 1	< 1	2	97	2.90	< 2	< 10	84	< 0.5	< 2	2.48	18	3	5.71	10	< 1	0.19	13
262478	< 5	< 0.2	< 0.5	33	673	< 1	1	< 2	98	3.07	< 2	< 10	96	< 0.5	< 2	2.42	19	2	6.23	10	< 1	0.30	14
262479	< 5	< 0.2	< 0.5	16	732	< 1	< 1	2	87	2.69	< 2	< 10	203	< 0.5	< 2	2.02	13	3	5.99	10	< 1	0.65	14
262480	< 5	< 0.2	< 0.5	45	597	< 1	13	< 2	57	2.93	< 2	< 10	161	< 0.5	< 2	2.56	15	10	3.71	< 10	< 1	0.61	< 10
262481	3710	0.8	< 0.5	65	584	7	26	16	73	2.15	10	< 10	230	< 0.5	< 2	1.43	10	44	4.40	< 10	< 1	0.19	< 10
262482	< 5	< 0.2	< 0.5	53	572	1	22	< 2	71	2.67	< 2	< 10	186	< 0.5	< 2	1.74	20	10	4.62	< 10	< 1	0.78	10
262483	< 5	< 0.2	< 0.5	38	580	1	23	2	69	2.87	< 2	< 10	314	< 0.5	< 2	1.78	20	10	4.84	10	< 1	0.92	10
262484	< 5	< 0.2	< 0.5	42	583	3	25	< 2	70	3.08	< 2	< 10	362	< 0.5	< 2	1.65	21	10	5.13	10	< 1	1.16	10
262485	< 5	< 0.2	< 0.5	57	576	1	22	2	58	2.95	< 2	< 10	187	< 0.5	< 2	1.96	19	10	4.34	< 10	< 1	0.77	< 10
262486	< 5	< 0.2	< 0.5	61	510	< 1	22	< 2	54	2.31	< 2	< 10	45	< 0.5	< 2	2.00	18	9	4.07	< 10	< 1	0.24	11
262487	< 5	< 0.2	< 0.5	55	498	< 1	17	< 2	51	2.34	< 2	< 10	34	< 0.5	< 2	2.30	16	9	3.93	< 10	< 1	0.18	11
262488	< 5	< 0.2	< 0.5	44	455	< 1	21	< 2	51	2.01	< 2	< 10	59	< 0.5	< 2	1.77	17	10	3.92	< 10	< 1	0.26	11
262489	< 5	< 0.2	< 0.5	52	455	< 1	22	5	56	2.20	< 2	< 10	85	< 0.5	< 2	1.65	19	10	4.16	< 10	< 1	0.37	11
262490	< 5	< 0.2	< 0.5	61	368	< 1	17	< 2	49	2.27	< 2	< 10	100	< 0.5	< 2	1.94	16	10	3.75	< 10	< 1	0.44	10
262491	< 5	< 0.2	< 0.5	< 1	275	< 1	< 1	2	11	0.03	< 2	24	71	< 0.5	< 2	13.0	< 1	< 1	0.06	< 10	< 1	0.02	< 10
262492	< 5	< 0.2	< 0.5	41	460	< 1	20	< 2	50	2.80	< 2	< 10	88	< 0.5	< 2	2.36	17	16	3.98	< 10	< 1	0.37	11
262493	< 5	< 0.2	< 0.5	54	461	< 1	22	< 2	58	2.19	< 2	< 10	84	< 0.5	< 2	1.67	20	11	4.31	< 10	< 1	0.40	11

Results

Activation Laboratories Ltd.

Report: A16-07883

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.3	0.01	3	7	1	2	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262398	3.29	0.174	0.100	0.04	3	8	27	0.21	< 20	4	< 2	< 10	61	< 10	7	23	0.4	6.79	< 3	> 1000	2	< 2	6.46
262399	3.21	0.165	0.093	0.03	3	8	21	0.24	< 20	9	< 2	< 10	69	< 10	6	32	< 0.3	6.91	< 3	897	2	< 2	5.51
262400	3.07	0.138	0.108	0.09	< 2	7	21	0.20	< 20	6	< 2	< 10	61	< 10	6	20	0.3	7.43	< 3	871	2	< 2	5.78
262401	0.97	0.144	0.065	0.06	4	8	62	0.22	< 20	3	< 2	< 10	92	< 10	10	9	0.5	5.99	12	611	< 1	< 2	2.98
262402	1.23	0.152	0.053	0.06	< 2	12	15	0.15	< 20	< 1	2	< 10	60	< 10	7	28	0.4	5.24	< 3	820	1	< 2	2.48
262403	0.56	0.134	0.046	0.03	< 2	9	16	0.14	< 20	< 1	< 2	< 10	51	< 10	8	38	0.5	4.52	< 3	709	< 1	< 2	2.71
262404	0.58	0.109	0.044	0.01	< 2	6	24	0.16	< 20	4	< 2	< 10	57	< 10	9	40	0.4	2.15	< 3	377	< 1	< 2	2.80
262405	0.76	0.112	0.044	0.03	< 2	8	22	0.16	< 20	2	< 2	< 10	72	< 10	8	34	0.6	2.14	< 3	654	< 1	< 2	2.41
262406	3.27	0.161	0.094	0.10	< 2	9	24	0.19	< 20	4	< 2	< 10	75	< 10	6	16	0.4	4.88	< 3	653	1	< 2	5.80
262407	3.06	0.172	0.096	0.02	< 2	9	14	0.21	< 20	8	2	< 10	68	< 10	6	16	< 0.3	6.44	< 3	769	1	< 2	6.42
262408	2.64	0.189	0.090	0.16	4	8	16	0.15	< 20	5	< 2	< 10	60	< 10	6	11	0.4	6.76	< 3	356	< 1	< 2	6.65
262409	3.16	0.184	0.103	0.04	< 2	8	15	0.16	< 20	3	< 2	< 10	64	< 10	6	11	< 0.3	7.12	< 3	368	< 1	< 2	6.54
262410	0.65	0.257	0.042	0.03	< 2	11	29	0.20	< 20	4	< 2	< 10	71	< 10	9	19	0.6	6.24	< 3	213	< 1	< 2	3.59
262411	9.32	0.020	0.002	< 0.01	< 2	< 1	107	< 0.01	< 20	3	< 2	< 10	< 1	< 10	< 1	< 1	< 0.3	0.05	3	133	< 1	< 2	18.6
262412	0.90	0.197	0.043	0.02	< 2	11	23	0.18	< 20	4	3	< 10	72	< 10	10	22	0.5	6.86	< 3	181	< 1	< 2	3.77
262475	0.94	0.232	0.143	0.12	< 2	13	25	0.27	< 20	7	4	< 10	12	< 10	25	8	0.4	6.41	< 3	254	< 1	4	4.26
262476	0.83	0.268	0.142	0.05	< 2	12	40	0.20	< 20	< 1	4	< 10	14	< 10	22	8	0.4	2.29	< 3	146	< 1	3	3.94
262477	0.95	0.268	0.111	0.03	< 2	14	70	0.21	< 20	5	< 2	< 10	61	< 10	19	6	< 0.3	2.68	< 3	99	< 1	3	4.56
262478	1.09	0.268	0.125	0.09	3	16	66	0.21	< 20	8	< 2	< 10	53	< 10	21	6	0.5	5.74	< 3	190	< 1	5	4.70
262479	0.95	0.233	0.143	0.04	< 2	13	36	0.22	< 20	3	< 2	< 10	14	< 10	24	6	0.5	7.14	< 3	259	< 1	3	4.56
262480	1.33	0.190	0.072	0.01	< 2	10	47	0.26	< 20	3	3	< 10	71	< 10	9	5	< 0.3	6.27	< 3	230	< 1	< 2	5.80
262481	0.97	0.149	0.065	0.06	5	9	64	0.22	< 20	< 1	< 2	< 10	95	< 10	10	9	0.8	5.96	< 3	601	< 1	< 2	2.90
262482	1.87	0.188	0.075	0.06	< 2	13	20	0.27	< 20	3	< 2	< 10	98	< 10	12	7	0.5	6.92	< 3	386	< 1	< 2	4.10
262483	1.99	0.190	0.075	0.05	< 2	14	20	0.29	< 20	< 1	< 2	< 10	103	< 10	12	7	0.4	6.74	< 3	500	< 1	< 2	4.25
262484	2.16	0.192	0.073	0.05	< 2	14	17	0.31	< 20	1	< 2	< 10	106	< 10	12	7	0.5	7.10	< 3	589	< 1	< 2	3.68
262485	1.73	0.275	0.073	0.08	< 2	12	26	0.26	< 20	12	< 2	< 10	93	< 10	11	8	0.5	7.10	< 3	276	< 1	< 2	4.47
262486	1.51	0.254	0.075	0.08	2	13	15	0.21	< 20	2	< 2	< 10	88	< 10	11	10	0.4	4.54	< 3	115	< 1	< 2	4.34
262487	1.44	0.263	0.072	0.03	< 2	12	20	0.20	< 20	7	< 2	< 10	86	< 10	12	9	0.4	5.50	< 3	84	< 1	3	5.03
262488	1.39	0.276	0.074	0.03	< 2	13	11	0.19	< 20	4	< 2	< 10	93	< 10	12	10	< 0.3	7.70	< 3	113	< 1	3	4.78
262489	1.55	0.228	0.074	0.02	< 2	13	12	0.21	< 20	6	< 2	< 10	93	< 10	12	10	0.4	7.45	< 3	163	< 1	< 2	4.28
262490	1.34	0.234	0.073	0.02	< 2	12	24	0.22	< 20	< 1	< 2	< 10	88	< 10	10	10	0.4	6.90	11	157	< 1	< 2	4.89
262491	10.5	0.021	0.003	< 0.01	< 2	< 1	128	< 0.01	< 20	2	< 2	< 10	1	< 10	< 1	< 1	< 0.3	0.06	< 3	76	< 1	< 2	19.1
262492	1.46	0.338	0.076	0.03	< 2	12	28	0.22	< 20	3	< 2	< 10	88	< 10	10	8	0.4	7.27	< 3	137	< 1	< 2	5.37
262493	1.61	0.214	0.075	0.03	< 2	13	12	0.22	< 20	4	< 2	< 10	92	< 10	11	10	0.3	7.43	< 3	150	< 1	< 2	4.50

Results

Activation Laboratories Ltd.

Report: A16-07883

Analyte Symbol	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262398	0.4	43	544	2	6.02	14	< 1	1.23	6.57	24	1270	< 1	1.90	234	0.093	5	< 5	0.04	27	277	10	0.32	< 5
262399	0.8	42	359	2	6.08	15	< 1	1.37	5.84	26	1250	< 1	2.16	155	0.084	< 3	< 5	0.03	28	257	11	0.34	< 5
262400	0.6	36	277	< 1	4.86	17	4	1.32	5.08	28	1050	< 1	2.72	185	0.102	9	< 5	0.10	20	225	2	0.28	6
262401	0.9	14	63	72	4.98	16	< 1	0.87	1.42	16	791	6	2.36	41	0.059	16	< 5	0.06	18	263	8	0.36	< 5
262402	< 0.3	12	144	9	2.28	14	< 1	0.78	1.17	16	332	< 1	4.55	59	0.041	< 3	< 5	0.05	10	125	< 2	0.29	< 5
262403	< 0.3	6	29	4	2.32	12	< 1	0.86	0.47	10	268	< 1	4.05	21	0.031	< 3	< 5	0.02	9	92	7	0.27	< 5
262404	0.5	8	30	< 1	3.38	14	< 1	1.65	0.46	12	332	< 1	2.86	19	0.032	< 3	< 5	< 0.01	< 4	70	5	0.24	< 5
262405	< 0.3	11	46	2	3.36	16	< 1	1.20	0.63	14	365	< 1	3.15	27	0.035	< 3	< 5	0.03	< 4	135	< 2	0.26	< 5
262406	1.1	41	809	3	5.28	18	< 1	0.98	4.61	24	1270	< 1	1.67	203	0.079	6	< 5	0.09	16	168	< 2	0.32	< 5
262407	0.5	43	569	2	6.12	14	< 1	1.05	6.15	22	1460	< 1	1.85	156	0.088	5	< 5	0.02	29	174	15	0.34	< 5
262408	1.0	39	441	2	5.74	17	< 1	0.74	5.49	18	1540	< 1	2.22	147	0.086	< 3	< 5	0.17	26	207	< 2	0.32	< 5
262409	< 0.3	40	381	2	5.96	19	< 1	1.04	6.13	25	1730	< 1	2.17	151	0.096	8	< 5	0.04	29	166	18	0.32	< 5
262410	< 0.3	13	63	38	3.19	18	< 1	0.83	0.60	18	913	< 1	2.83	22	0.034	< 3	< 5	0.02	12	105	8	0.29	< 5
262411	< 0.3	< 1	4	< 1	0.07	< 1	< 1	0.03	12.3	13	281	< 1	0.03	< 1	0.002	< 3	< 5	0.01	< 4	132	< 2	< 0.01	< 5
262412	< 0.3	14	29	36	3.94	17	< 1	0.79	0.85	20	1010	< 1	3.02	26	0.036	< 3	< 5	0.02	13	115	5	0.29	< 5
262475	1.2	19	13	20	6.71	19	2	1.15	0.95	20	1040	< 1	2.02	3	0.128	5	< 5	0.11	18	173	3	0.47	< 5
262476	0.6	17	13	27	5.81	20	< 1	0.41	0.79	14	936	< 1	2.00	5	0.124	4	< 5	0.05	6	169	15	0.46	< 5
262477	0.8	24	8	23	7.01	19	< 1	0.23	1.05	16	1080	< 1	1.83	3	0.100	< 3	< 5	0.03	7	204	5	0.56	< 5
262478	1.6	25	12	33	7.37	19	< 1	0.47	1.19	18	1070	< 1	1.98	5	0.116	< 3	< 5	0.09	20	233	16	0.60	< 5
262479	0.5	16	12	17	6.98	21	< 1	0.76	1.04	22	1120	< 1	2.20	3	0.137	7	< 5	0.04	20	221	20	0.49	< 5
262480	0.7	20	21	43	4.88	21	< 1	0.86	1.61	19	949	< 1	1.43	32	0.060	< 3	< 5	0.01	19	141	10	0.36	7
262481	0.9	14	64	63	4.91	14	< 1	0.85	1.39	16	776	4	2.32	43	0.058	22	< 5	0.06	18	259	19	0.32	< 5
262482	0.9	25	15	55	5.46	21	< 1	1.32	2.17	32	819	< 1	2.32	40	0.066	< 3	< 5	0.06	21	121	< 2	0.34	< 5
262483	0.6	24	15	40	5.27	19	< 1	1.29	2.15	34	790	< 1	2.23	39	0.062	< 3	< 5	0.05	19	98	13	0.33	< 5
262484	< 0.3	24	14	42	5.48	19	< 1	1.51	2.33	41	786	< 1	2.33	41	0.065	< 3	< 5	0.05	21	97	4	0.39	< 5
262485	0.9	24	15	55	5.31	18	< 1	0.95	2.07	28	905	< 1	2.34	39	0.066	< 3	< 5	0.08	21	113	10	0.37	< 5
262486	0.6	25	14	58	5.26	17	< 1	0.48	1.82	23	861	< 1	2.70	37	0.066	4	< 5	0.07	11	88	10	0.45	< 5
262487	0.8	24	16	53	5.30	20	< 1	0.42	1.85	22	843	< 1	2.69	38	0.064	5	< 5	0.03	15	87	15	0.46	< 5
262488	0.9	26	20	45	5.70	20	< 1	0.41	2.02	21	868	< 1	3.00	41	0.069	6	< 5	0.03	24	111	8	0.46	< 5
262489	0.9	24	18	54	5.45	20	< 1	0.58	2.00	25	796	< 1	2.92	42	0.067	< 3	< 5	0.02	22	98	12	0.35	< 5
262490	< 0.3	24	15	61	5.20	22	< 1	0.58	1.85	22	741	< 1	2.53	40	0.064	< 3	< 5	0.03	20	119	2	0.32	< 5
262491	< 0.3	< 1	4	2	0.08	< 1	< 1	0.03	12.5	12	325	< 1	0.04	2	0.004	7	< 5	0.01	< 4	154	4	< 0.01	< 5
262492	0.6	23	25	42	5.51	19	< 1	0.50	1.93	21	794	< 1	2.46	42	0.064	< 3	< 5	0.02	22	124	< 2	0.31	< 5
262493	1.4	31	19	62	5.75	18	< 1	0.56	2.11	28	821	< 1	2.83	45	0.069	< 3	< 5	0.04	23	100	3	0.44	< 5

Results

Activation Laboratories Ltd.

Report: A16-07883

Analyte Symbol	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262398	< 10	128	< 5	15	66	91
262399	< 10	132	< 5	13	53	95
262400	< 10	104	< 5	13	57	99
262401	< 10	136	9	17	87	43
262402	< 10	66	< 5	6	24	144
262403	< 10	63	< 5	7	11	145
262404	< 10	75	< 5	4	13	122
262405	< 10	89	< 5	3	14	129
262406	< 10	128	< 5	10	74	86
262407	< 10	141	< 5	13	69	83
262408	< 10	130	< 5	13	77	92
262409	< 10	138	< 5	13	88	92
262410	< 10	81	< 5	9	54	145
262411	< 10	2	< 5	< 1	12	< 5
262412	< 10	83	< 5	12	61	154
262475	< 10	15	< 5	32	114	107
262476	< 10	18	< 5	11	88	94
262477	< 10	90	< 5	10	121	77
262478	< 10	73	8	28	117	111
262479	< 10	17	< 5	36	103	114
262480	< 10	93	5	18	74	74
262481	< 10	125	6	17	84	43
262482	< 10	105	9	17	82	105
262483	< 10	104	< 5	17	77	95
262484	< 10	114	< 5	17	83	113
262485	< 10	108	< 5	19	72	106
262486	< 10	129	< 5	10	72	104
262487	< 10	131	< 5	14	69	103
262488	< 10	129	< 5	19	76	112
262489	< 10	100	< 5	18	76	106
262490	< 10	96	< 5	16	71	95
262491	< 10	3	< 5	< 1	15	< 5
262492	< 10	96	< 5	18	70	90
262493	< 10	123	< 5	19	78	112

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas		29.4	2.6	1210	808	14	29	632	650	0.37	395	11	430	0.8	1460	0.80	8	6	23.8	< 10	4	0.03	< 10
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50
GXR-1 Meas		29.7	2.5	1200	806	12	26	688	656	0.37	402	11	389	0.8	1530	0.80	5	6	24.0	< 10	9	0.03	< 10
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50
GXR-1 Meas		28.9	3.9	1200	785	12	26	666	642	0.35	389	11	538	0.8	1510	0.78	6	6	23.4	< 10	7	0.03	< 10
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50
GXR-4 Meas		3.4	< 0.5	6430	142	303	34	42	64	2.79	102	< 10	34	1.3	22	0.93	14	55	3.12	10	3	1.69	53
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5
GXR-4 Meas		3.5	< 0.5	6680	147	304	31	48	66	2.88	101	< 10	44	1.4	31	0.97	13	57	3.25	10	< 1	1.74	51
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5
GXR-4 Meas		3.4	0.6	6440	138	287	30	44	63	2.81	98	< 10	46	1.4	24	0.91	13	54	3.15	10	< 1	1.71	53
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5
SDC-1 Meas																							
SDC-1 Cert																							
GXR-6 Meas		0.3	< 0.5	72	1080	2	19	94	115	7.33	215	< 10	958	0.8	2	0.14	14	82	6.10	20	< 1	1.17	< 10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
GXR-6 Meas		0.2	< 0.5	74	1100	1	16	103	117	7.43	239	< 10	977	0.9	< 2	0.14	13	83	6.13	20	< 1	1.21	< 10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
GXR-6 Meas		0.2	< 0.5	72	1080	2	16	101	117	7.36	254	< 10	959	0.9	< 2	0.14	12	83	6.16	20	< 1	1.20	< 10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
Oreas 72a (4 Acid Digest) Meas																							
Oreas 72a (4 Acid Digest) Cert																							
DNC-1a Meas																							
DNC-1a Cert																							
SBC-1 Meas																							
SBC-1 Cert																							
SdAR-M2 (U.S.G.S.) Meas			5.0	251		14	43	859	783				160	5.1	< 2		14	10		< 10	1		50
SdAR-M2 (U.S.G.S.) Cert			5.1	236.0000		13.3	48.8	808	760				990	6.6	1.05		12.4	49.6		17.6	1.44		46.6
SF85 Meas	835																						
SF85 Cert	848																						
OxD128 Meas	445																						
OxD128 Cert	424.000																						
262400 Orig		< 0.2	< 0.5	< 1	589	< 1	126	< 2	38	2.27	< 2	< 10	748	< 0.5	< 2	2.43	23	321	3.19	< 10	< 1	1.18	17
262400 Dup		< 0.2	< 0.5	< 1	576	< 1	123	< 2	33	2.24	< 2	< 10	744	< 0.5	< 2	2.40	24	315	3.13	< 10	< 1	1.16	17
262407 Orig	< 5																						
262407 Dup	< 5																						
262411 Orig																							
262411 Dup																							
262479 Orig	< 5																						
262479 Dup	< 5																						
262481 Orig		0.8	0.6	65	576	6	27	18	72	2.15	9	< 10	227	< 0.5	< 2	1.42	10	43	4.36	< 10	< 1	0.19	< 10
262481 Dup		0.7	< 0.5	64	592	7	25	15	75	2.15	11	< 10	233	< 0.5	< 2	1.45	10	44	4.43	< 10	< 1	0.20	< 10
262489 Orig	< 5																						
262489 Dup	< 5																						
Method Blank	< 5																						

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank	< 5																						
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	11	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.3	0.01	3	7	1	2	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	0.14	0.048	0.049	0.21	87	1	185	< 0.01	< 20	16	< 2	31	75	140	24	16	31.8	2.00	425	755	1	1550	0.95
GXR-1 Cert	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0	0.390	34.9	80.0	164	32.0	38.0	31.0	3.52	427	750	1.22	1380	0.960
GXR-1 Meas	0.14	0.047	0.049	0.21	84	1	183	< 0.01	< 20	14	< 2	31	76	150	24	16							
GXR-1 Cert	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0	0.390	34.9	80.0	164	32.0	38.0							
GXR-1 Meas	0.14	0.048	0.048	0.20	81	1	179	< 0.01	< 20	12	< 2	30	73	143	24	16							
GXR-1 Cert	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0	0.390	34.9	80.0	164	32.0	38.0							
GXR-4 Meas	1.65	0.133	0.126	1.70	4	7	74	0.13	< 20	1	3	< 10	76	12	11	10	3.2	6.47	83	190	2	< 2	1.13
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970	3.20	6.20	87.0	30.8	14.0	186	4.0	7.20	98.0	1640	1.90	19.0	1.01
GXR-4 Meas	1.69	0.134	0.133	1.79	3	8	75	0.14	< 20	6	3	< 10	79	10	11	10							
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970	3.20	6.20	87.0	30.8	14.0	186							
GXR-4 Meas	1.66	0.136	0.132	1.73	< 2	7	74	0.14	< 20	3	4	< 10	76	< 10	11	10							
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970	3.20	6.20	87.0	30.8	14.0	186							
SDC-1 Meas																		6.02	< 3	630	3		0.91
SDC-1 Cert																		8.34	0.220	630	3.00		1.00
GXR-6 Meas	0.43	0.069	0.036	0.02	6	21	27		< 20	1	4	< 10	162	< 10	5	5	0.5	10.2	277	> 1000	1	< 2	0.17
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110	1.30	17.7	330	1300	1.40	0.290	0.180
GXR-6 Meas	0.44	0.071	0.037	0.01	5	21	27		< 20	3	< 2	< 10	172	< 10	5	9							
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110							
GXR-6 Meas	0.44	0.071	0.037	0.02	3	20	27		< 20	< 1	< 2	< 10	169	< 10	4	10							
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110							
Oreas 72a (4 Acid Digest) Meas																			< 3				
Oreas 72a (4 Acid Digest) Cert																			14.7				
DNC-1a Meas																				105			
DNC-1a Cert																				118			
SBC-1 Meas																			11	783	3	< 2	
SBC-1 Cert																			25.7	788.0	3.20	0.70	
SdAR-M2 (U.S.G.S.) Meas							3	23		< 20		< 10	19	< 10	19	8				> 1000	8	< 2	
SdAR-M2 (U.S.G.S.) Cert							4.1	144		14.2		2.53	25.2	2.8	32.7	259				990	6.6	1.05	
SF85 Meas																							
SF85 Cert																							
OxD128 Meas																							
OxD128 Cert																							
262400 Orig	3.10	0.139	0.110	0.09	< 2	7	21	0.20	< 20	8	< 2	< 10	61	< 10	6	18							
262400 Dup	3.04	0.136	0.107	0.09	< 2	7	21	0.20	< 20	5	< 2	< 10	61	< 10	6	23							
262407 Orig																							
262407 Dup																							
262411 Orig																	< 0.3	0.05	3	134	< 1	< 2	18.6
262411 Dup																	< 0.3	0.05	3	132	< 1	< 2	18.5
262479 Orig																							
262479 Dup																							
262481 Orig	0.96	0.146	0.064	0.06	4	8	64	0.22	< 20	< 1	4	< 10	97	< 10	10	9							
262481 Dup	0.99	0.151	0.065	0.06	6	9	64	0.21	< 20	4	< 2	< 10	93	< 10	10	9							
262489 Orig																							
262489 Dup																							
Method Blank																							

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.3	0.01	3	7	1	2	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Method Blank																							
Method Blank	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	2	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	1	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	1	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	1	< 2	< 10	< 1	< 10	< 1	< 1							

Analyte Symbol	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	6.7	9	16	1170	24.0	16	3	0.04	0.22	8	865	14	0.05	44	0.061	741	23	0.27	< 4	298	23	0.03	< 5
GXR-1 Cert	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520	41.0	0.0650	730	122	0.257	1.58	275	13.0	0.036	0.390
GXR-1 Meas																							
GXR-1 Cert																							
GXR-1 Meas																							
GXR-1 Cert																							
GXR-4 Meas	1.0	13	55	6460	3.02	20	2	1.97	1.72	11	155	344	0.55	44	0.132	54	< 5	1.78	10	221	3	0.29	< 5
GXR-4 Cert	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564	42.0	0.120	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20
GXR-4 Meas																							
GXR-4 Cert																							
GXR-4 Meas																							
GXR-4 Cert																							
SDC-1 Meas		20	66	29	4.60	19	< 1	1.11	0.96	34	893		1.51	36	0.055	22	< 5		15	157		0.38	< 5
SDC-1 Cert		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34.00	880.00		1.52	38.0	0.0690	25.00	0.54		17.00	180.00		0.606	0.70
GXR-6 Meas	0.8	15	77	72	5.62	30	< 1	1.11	0.53	34	1100	< 1	0.10	28	0.033	100	< 5	< 0.01	30	34	11		< 5
GXR-6 Cert	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104	27.0	0.0350	101	3.60	0.0160	27.6	35.0	0.0180		2.20
GXR-6 Meas																							
GXR-6 Cert																							
GXR-6 Meas																							
GXR-6 Cert																							
Oreas 72a (4 Acid Digest) Meas		156	244	313	9.54									6240				1.62					
Oreas 72a (4 Acid Digest) Cert		157	228	316	9.63									6930.000				1.74					
DNC-1a Meas		55	204	96		14				4				252		< 3	< 5		30	129		0.27	
DNC-1a Cert		57.0	270	100.00		15				5.20				247		6.3	0.96		31	144.0		0.29	
SBC-1 Meas	1.3	24	106	31		28				167		< 1		84		28	< 5		26	177		0.50	< 5
SBC-1 Cert	0.40	22.7	109	31.0000		27.0				163.0		2.40		82.8		35.0	1.01		20.0	178.0		0.51	0.89
SdAR-M2 (U.S.G.S.) Meas	5.3	13	41	237		18	7			18		12		53		798			5	148			
SdAR-M2 (U.S.G.S.) Cert	5.1	12.4	49.6	236.0000		17.6	1.44			17.9		13.3		48.8		808			4.1	144			
SF85 Meas																							
SF85 Cert																							
OxD128 Meas																							
OxD128 Cert																							
262400 Orig																							
262400 Dup																							
262407 Orig																							
262407 Dup																							
262411 Orig	< 0.3	< 1	4	< 1	0.07	1	< 1	0.03	12.3	12	282	< 1	0.03	< 1	0.002	< 3	< 5	0.01	< 4	131	< 2	< 0.01	5
262411 Dup	< 0.3	< 1	4	1	0.07	< 1	< 1	0.03	12.3	13	281	< 1	0.03	< 1	0.002	7	< 5	0.01	< 4	133	< 2	< 0.01	< 5
262479 Orig																							
262479 Dup																							
262481 Orig																							
262481 Dup																							
262489 Orig																							
262489 Dup																							
Method Blank																							

Analyte Symbol	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		4	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank																							
Method Blank																							

Analyte Symbol	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	30	88	156	34	739	29
GXR-1 Cert	34.9	80.0	164	32.0	760	38.0
GXR-1 Meas						
GXR-1 Cert						
GXR-1 Meas						
GXR-1 Cert						
GXR-4 Meas	< 10	86	38	15	67	46
GXR-4 Cert	6.20	87.0	30.8	14.0	73.0	186
GXR-4 Meas						
GXR-4 Cert						
GXR-4 Meas						
GXR-4 Cert						
SDC-1 Meas	< 10	76	< 5		93	54
SDC-1 Cert	3.10	102.00	0.80		103.00	290.00
GXR-6 Meas	< 10	165	< 5	12	128	87
GXR-6 Cert	1.54	186	1.90	14.0	118	110
GXR-6 Meas						
GXR-6 Cert						
GXR-6 Meas						
GXR-6 Cert						
Oreas 72a (4 Acid Digest) Meas						
Oreas 72a (4 Acid Digest) Cert						
DNC-1a Meas		141		14	55	35
DNC-1a Cert		148.0000		18.0	70.0	38.0
SBC-1 Meas	< 10	212	< 5	36	174	124
SBC-1 Cert	5.76	220.0	1.60	36.5	186.0	134.0
SdAR-M2 (U.S.G.S.) Meas	< 10	27	9	30	781	128
SdAR-M2 (U.S.G.S.) Cert	2.53	25.2	2.8	32.7	760	259
SF85 Meas						
SF85 Cert						
OxD128 Meas						
OxD128 Cert						
262400 Orig						
262400 Dup						
262407 Orig						
262407 Dup						
262411 Orig	< 10	2	< 5	< 1	12	< 5
262411 Dup	< 10	2	< 5	< 1	13	< 5
262479 Orig						
262479 Dup						
262481 Orig						
262481 Dup						
262489 Orig						
262489 Dup						

Analyte Symbol	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Method Blank						
Method Blank						
Method Blank						
Method Blank						
Method Blank						
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank						
Method Blank						



Date Submitted: 10-Aug-16
Invoice No.: A16-07881
Invoice Date: 29-Aug-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

13 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1E3-Tbay Aqua Regia ICP(AQUAGEO)

Code 1F2-Tbay Total Digestion ICP(TOTAL)

REPORT **A16-07881**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is written over a horizontal line.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Date Submitted: 10-Aug-16
Invoice No.: A16-07881
Invoice Date: 29-Aug-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

13 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-50-Geraldton Au - Fire Assay AA

REPORT **A16-07881**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.



CERTIFIED BY:

A handwritten signature in black ink, appearing to read "Emmanuel Esemé".

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
801 Main Street, P.O. Box 999, Geraldton, Ontario, Canada, P0T 1M0
TELEPHONE +807 854-2020 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Geraldton@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
262494	9	< 0.2	< 0.5	71	465	< 1	21	< 2	55	2.62	< 2	< 10	45	< 0.5	< 2	2.32	16	13	3.83	< 10	< 1	0.21	10
262495	6	< 0.2	< 0.5	41	533	< 1	20	< 2	53	2.23	< 2	< 10	36	< 0.5	< 2	2.14	16	16	3.95	< 10	< 1	0.16	11
262496	7	< 0.2	< 0.5	60	538	< 1	19	< 2	50	2.39	< 2	< 10	46	< 0.5	< 2	2.32	17	14	3.93	< 10	< 1	0.17	11
262497	8	< 0.2	< 0.5	61	574	< 1	21	2	52	2.36	< 2	< 10	42	< 0.5	< 2	2.35	17	14	3.97	< 10	< 1	0.20	11
262498	9	< 0.2	< 0.5	55	516	< 1	22	< 2	51	2.52	< 2	< 10	38	< 0.5	< 2	2.70	15	16	3.59	< 10	< 1	0.18	< 10
262499	9	< 0.2	< 0.5	45	552	< 1	25	< 2	57	2.35	< 2	< 10	52	< 0.5	< 2	2.05	18	18	4.05	< 10	< 1	0.26	11
262500	96	0.3	< 0.5	65	440	3	18	< 2	50	2.44	< 2	< 10	41	< 0.5	< 2	2.88	16	10	3.61	< 10	< 1	0.17	< 10
262501	416	< 0.2	< 0.5	44	547	3	13	11	41	2.34	152	< 10	125	< 0.5	< 2	1.65	9	30	3.69	< 10	< 1	0.15	< 10
262502	7	< 0.2	< 0.5	43	522	< 1	19	4	50	2.62	< 2	< 10	44	< 0.5	< 2	2.29	18	10	4.10	< 10	< 1	0.13	11
262503	10	< 0.2	< 0.5	35	505	< 1	19	< 2	47	2.61	< 2	< 10	25	< 0.5	< 2	2.41	18	11	4.04	< 10	< 1	0.10	10
262504	12	< 0.2	< 0.5	55	518	< 1	17	3	51	2.19	< 2	< 10	28	< 0.5	< 2	2.02	17	10	3.92	< 10	< 1	0.13	< 10
262505	8	< 0.2	< 0.5	66	551	< 1	23	< 2	52	2.79	< 2	< 10	136	< 0.5	< 2	2.15	18	12	4.18	< 10	< 1	0.72	< 10
262506	7	< 0.2	< 0.5	44	537	< 1	22	< 2	55	2.61	< 2	< 10	64	< 0.5	< 2	1.97	18	11	4.40	< 10	< 1	0.50	11

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.3	0.01	3	7	1	2	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262494	1.37	0.220	0.071	0.05	< 2	11	29	0.24	< 20	1	< 2	< 10	84	< 10	10	8	< 0.3	3.35	< 3	131	< 1	< 2	4.46
262495	1.42	0.308	0.076	0.01	< 2	13	16	0.22	< 20	< 1	< 2	< 10	83	< 10	11	9	0.5	5.86	< 3	93	< 1	2	5.05
262496	1.40	0.305	0.078	0.04	< 2	12	18	0.22	< 20	6	< 2	< 10	84	< 10	11	8	0.4	7.02	< 3	104	< 1	< 2	5.44
262497	1.44	0.327	0.074	0.03	< 2	13	15	0.23	< 20	7	< 2	< 10	85	< 10	11	9	0.4	7.24	< 3	90	< 1	2	5.58
262498	1.30	0.324	0.072	0.03	< 2	11	26	0.22	< 20	< 1	< 2	< 10	76	< 10	9	6	0.3	6.46	< 3	87	< 1	< 2	5.63
262499	1.57	0.263	0.074	0.04	< 2	12	20	0.24	< 20	4	2	< 10	85	< 10	10	9	0.5	5.33	< 3	123	< 1	< 2	4.77
262500	1.25	0.290	0.071	0.23	< 2	10	28	0.22	< 20	< 1	< 2	< 10	77	< 10	9	7	0.5	4.72	< 3	164	< 1	< 2	5.48
262501	0.77	0.214	0.051	0.05	3	7	83	0.18	< 20	4	< 2	< 10	90	< 10	9	5	< 0.3	3.87	157	496	< 1	< 2	3.52
262502	1.48	0.184	0.073	0.02	2	11	33	0.27	< 20	< 1	6	< 10	83	< 10	10	7	0.4	3.56	< 3	294	< 1	3	4.53
262503	1.51	0.121	0.073	0.02	< 2	9	46	0.28	< 20	10	< 2	< 10	79	< 10	9	7	< 0.3	1.90	< 3	164	< 1	< 2	2.60
262504	1.50	0.158	0.070	0.03	< 2	10	24	0.26	< 20	6	< 2	< 10	82	< 10	10	7	0.4	2.11	< 3	238	< 1	< 2	3.37
262505	1.56	0.223	0.071	0.03	< 2	11	27	0.32	< 20	8	< 2	< 10	92	< 10	10	6	< 0.3	3.58	< 3	238	< 1	< 2	4.28
262506	1.64	0.240	0.074	0.04	< 2	12	25	0.28	< 20	< 1	2	< 10	90	< 10	11	8	0.5	7.01	12	147	< 1	< 2	4.58

Analyte Symbol	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262494	0.8	23	24	85	4.77	18	< 1	0.47	1.56	23	792	< 1	2.26	39	0.062	3	< 5	0.04	7	78	14	0.39	5
262495	0.8	26	25	40	5.36	23	< 1	0.33	1.88	20	847	< 1	2.63	43	0.067	4	< 5	< 0.01	16	110	14	0.44	< 5
262496	0.3	24	21	56	5.35	18	< 1	0.34	1.85	19	843	< 1	2.45	41	0.066	< 3	< 5	0.04	20	101	5	0.44	< 5
262497	0.8	25	26	60	5.54	20	< 1	0.37	1.95	18	905	< 1	2.51	43	0.065	< 3	< 5	0.02	21	88	15	0.44	< 5
262498	0.6	23	32	53	5.14	22	< 1	0.40	1.80	17	849	< 1	2.31	42	0.064	4	< 5	0.03	20	97	< 2	0.42	< 5
262499	0.4	24	32	42	5.22	19	< 1	0.47	1.91	18	872	< 1	2.62	45	0.064	< 3	< 5	0.04	14	107	15	0.42	< 5
262500	1.1	21	19	62	4.85	19	< 1	0.56	1.62	12	773	1	2.31	38	0.060	3	< 5	0.21	12	89	3	0.40	< 5
262501	0.6	14	44	44	4.31	17	< 1	0.75	1.26	7	897	3	2.45	27	0.042	18	< 5	0.04	12	218	< 2	0.30	< 5
262502	0.6	23	17	39	4.93	17	< 1	0.91	1.61	16	788	< 1	2.13	38	0.061	< 3	< 5	0.01	7	79	4	0.40	< 5
262503	0.5	21	20	30	3.94	15	< 1	0.87	0.41	12	637	< 1	1.38	32	0.057	4	< 5	0.02	6	47	9	0.41	< 5
262504	< 0.3	21	20	49	4.23	14	< 1	0.98	0.90	17	722	< 1	1.84	31	0.056	5	< 5	0.03	4	68	15	0.39	< 5
262505	0.5	22	23	62	4.59	18	< 1	1.06	1.60	22	775	< 1	1.87	36	0.061	5	< 5	0.03	8	81	19	0.40	< 5
262506	1.9	25	23	43	5.40	18	< 1	0.97	1.96	21	801	< 1	2.43	39	0.065	5	< 5	0.04	21	152	5	0.44	< 5

Results

Activation Laboratories Ltd.

Report: A16-07881

Analyte Symbol	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262494	< 10	121	< 5	7	80	79
262495	< 10	126	< 5	14	70	105
262496	< 10	125	< 5	17	70	97
262497	< 10	121	< 5	18	71	95
262498	< 10	120	< 5	16	72	76
262499	< 10	125	< 5	11	76	98
262500	< 10	122	< 5	11	66	75
262501	< 10	128	< 5	9	53	29
262502	< 10	121	< 5	7	62	65
262503	< 10	111	< 5	4	50	82
262504	< 10	114	< 5	3	57	83
262505	< 10	123	< 5	8	60	68
262506	< 10	121	< 5	17	68	104

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas		29.7	2.5	1200	806	12	26	688	656	0.37	402	11	389	0.8	1530	0.80	5	6	24.0	< 10	9	0.03	< 10
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50
GXR-1 Meas		28.9	3.9	1200	785	12	26	666	642	0.35	389	11	538	0.8	1510	0.78	6	6	23.4	< 10	7	0.03	< 10
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50
GXR-4 Meas		3.5	< 0.5	6680	147	304	31	48	66	2.88	101	< 10	44	1.4	31	0.97	13	57	3.25	10	< 1	1.74	51
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5
GXR-4 Meas		3.4	0.6	6440	138	287	30	44	63	2.81	98	< 10	46	1.4	24	0.91	13	54	3.15	10	< 1	1.71	53
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5
SDC-1 Meas																							
SDC-1 Cert																							
GXR-6 Meas		0.2	< 0.5	74	1100	1	16	103	117	7.43	239	< 10	977	0.9	< 2	0.14	13	83	6.13	20	< 1	1.21	< 10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
GXR-6 Meas		0.2	< 0.5	72	1080	2	16	101	117	7.36	254	< 10	959	0.9	< 2	0.14	12	83	6.16	20	< 1	1.20	< 10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
Oreas 72a (4 Acid Digest) Meas																							
Oreas 72a (4 Acid Digest) Cert																							
DNC-1a Meas																							
DNC-1a Cert																							
SBC-1 Meas																							
SBC-1 Cert																							
SdAR-M2 (U.S.G.S.) Meas																							
SdAR-M2 (U.S.G.S.) Cert																							
SF85 Meas	817																						
SF85 Cert	848																						
262495 Orig		< 0.2	< 0.5	41	540	< 1	20	< 2	53	2.27	< 2	< 10	36	< 0.5	< 2	2.18	16	16	4.00	< 10	< 1	0.16	11
262495 Dup		< 0.2	< 0.5	41	525	< 1	20	< 2	52	2.20	< 2	< 10	36	< 0.5	< 2	2.11	16	15	3.90	< 10	< 1	0.16	11
262503 Orig	10																						
262503 Dup	10																						
262506 Orig																							
262506 Dup																							
Method Blank	< 5																						
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	11	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.3	0.01	3	7	1	2	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	0.14	0.047	0.049	0.21	84	1	183	< 0.01	< 20	14	< 2	31	76	150	24	16	31.8	2.00	425	755	1	1550	0.95
GXR-1 Cert	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0	0.390	34.9	80.0	164	32.0	38.0	31.0	3.52	427	750	1.22	1380	0.960
GXR-1 Meas	0.14	0.048	0.048	0.20	81	1	179	< 0.01	< 20	12	< 2	30	73	143	24	16							
GXR-1 Cert	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0	0.390	34.9	80.0	164	32.0	38.0							
GXR-4 Meas	1.69	0.134	0.133	1.79	3	8	75	0.14	< 20	6	3	< 10	79	10	11	10	3.2	6.47	83	190	2	< 2	1.13
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970	3.20	6.20	87.0	30.8	14.0	186	4.0	7.20	98.0	1640	1.90	19.0	1.01
GXR-4 Meas	1.66	0.136	0.132	1.73	< 2	7	74	0.14	< 20	3	4	< 10	76	< 10	11	10							
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970	3.20	6.20	87.0	30.8	14.0	186							
SDC-1 Meas																		6.02	< 3	630	3		0.91
SDC-1 Cert																		8.34	0.220	630	3.00		1.00
GXR-6 Meas	0.44	0.071	0.037	0.01	5	21	27		< 20	3	< 2	< 10	172	< 10	5	9	0.5	10.2	277	> 1000	1	< 2	0.17
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110	1.30	17.7	330	1300	1.40	0.290	0.180
GXR-6 Meas	0.44	0.071	0.037	0.02	3	20	27		< 20	< 1	< 2	< 10	169	< 10	4	10							
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110							
Oreas 72a (4 Acid Digest) Meas																			< 3				
Oreas 72a (4 Acid Digest) Cert																			14.7				
DNC-1a Meas																				105			
DNC-1a Cert																				118			
SBC-1 Meas																			11	783	3	< 2	
SBC-1 Cert																			25.7	788.0	3.20	0.70	
SdAR-M2 (U.S.G.S.) Meas																				> 1000	8	< 2	
SdAR-M2 (U.S.G.S.) Cert																				990	6.6	1.05	
SF85 Meas																							
SF85 Cert																							
262495 Orig	1.44	0.312	0.076	0.01	< 2	13	17	0.22	< 20	< 1	< 2	< 10	84	< 10	11	9							
262495 Dup	1.41	0.303	0.076	0.01	< 2	13	15	0.22	< 20	3	< 2	< 10	81	< 10	11	9							
262503 Orig																							
262503 Dup																							
262506 Orig																	0.6	6.80	4	144	< 1	< 2	4.52
262506 Dup																	0.3	7.21	21	150	< 1	< 2	4.65
Method Blank																							
Method Blank	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	2	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	1	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	1	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01

Analyte Symbol	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	6.7	9	16	1170	24.0	16	3	0.04	0.22	8	865	14	0.05	44	0.061	741	23	0.27	< 4	298	23	0.03	< 5
GXR-1 Cert	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520	41.0	0.0650	730	122	0.257	1.58	275	13.0	0.036	0.390
GXR-1 Meas																							
GXR-1 Cert																							
GXR-4 Meas	1.0	13	55	6460	3.02	20	2	1.97	1.72	11	155	344	0.55	44	0.132	54	< 5	1.78	10	221	3	0.29	< 5
GXR-4 Cert	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564	42.0	0.120	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20
GXR-4 Meas																							
GXR-4 Cert																							
SDC-1 Meas		20	66	29	4.60	19	< 1	1.11	0.96	34	893		1.51	36	0.055	22	< 5		15	157		0.38	< 5
SDC-1 Cert		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34.00	880.00		1.52	38.0	0.0690	25.00	0.54		17.00	180.00		0.606	0.70
GXR-6 Meas	0.8	15	77	72	5.62	30	< 1	1.11	0.53	34	1100	< 1	0.10	28	0.033	100	< 5	< 0.01	30	34	11		< 5
GXR-6 Cert	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104	27.0	0.0350	101	3.60	0.0160	27.6	35.0	0.0180		2.20
GXR-6 Meas																							
GXR-6 Cert																							
Oreas 72a (4 Acid Digest) Meas		156	244	313	9.54									6240				1.62					
Oreas 72a (4 Acid Digest) Cert		157	228	316	9.63									6930.000				1.74					
DNC-1a Meas		55	204	96		14				4				252		< 3	< 5		30	129		0.27	
DNC-1a Cert		57.0	270	100.00		15				5.20				247		6.3	0.96		31	144.0		0.29	
SBC-1 Meas	1.3	24	106	31		28				167		< 1		84		28	< 5		26	177		0.50	< 5
SBC-1 Cert	0.40	22.7	109	31.0000		27.0				163.0		2.40		82.8		35.0	1.01		20.0	178.0		0.51	0.89
SdAR-M2 (U.S.G.S.) Meas	5.3	13	41	237		18	7			18		12		53		798			5	148			
SdAR-M2 (U.S.G.S.) Cert	5.1	12.4	49.6	236.0000		17.6	1.44			17.9		13.3		48.8		808			4.1	144			
SF85 Meas																							
SF85 Cert																							
262495 Orig																							
262495 Dup																							
262503 Orig																							
262503 Dup																							
262506 Orig	0.7	22	26	43	5.35	18	< 1	0.96	1.95	21	797	< 1	2.41	40	0.065	4	< 5	0.04	20	146	4	0.46	< 5
262506 Dup	3.2	28	21	43	5.45	17	2	0.98	1.98	21	805	< 1	2.45	39	0.064	7	< 5	0.04	21	159	6	0.42	< 5
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		4	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5

Analyte Symbol	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	30	88	156	34	739	29
GXR-1 Cert	34.9	80.0	164	32.0	760	38.0
GXR-1 Meas						
GXR-1 Cert						
GXR-4 Meas	< 10	86	38	15	67	46
GXR-4 Cert	6.20	87.0	30.8	14.0	73.0	186
GXR-4 Meas						
GXR-4 Cert						
SDC-1 Meas	< 10	76	< 5		93	54
SDC-1 Cert	3.10	102.00	0.80		103.00	290.00
GXR-6 Meas	< 10	165	< 5	12	128	87
GXR-6 Cert	1.54	186	1.90	14.0	118	110
GXR-6 Meas						
GXR-6 Cert						
Oreas 72a (4 Acid Digest) Meas						
Oreas 72a (4 Acid Digest) Cert						
DNC-1a Meas		141		14	55	35
DNC-1a Cert		148.0000		18.0	70.0	38.0
SBC-1 Meas	< 10	212	< 5	36	174	124
SBC-1 Cert	5.76	220.0	1.60	36.5	186.0	134.0
SdAR-M2 (U.S.G.S.) Meas	< 10	27	9	30	781	128
SdAR-M2 (U.S.G.S.) Cert	2.53	25.2	2.8	32.7	760	259
SF85 Meas						
SF85 Cert						
262495 Orig						
262495 Dup						
262503 Orig						
262503 Dup						
262506 Orig	< 10	126	< 5	16	68	111
262506 Dup	< 10	116	< 5	18	69	97
Method Blank						
Method Blank						
Method Blank						
Method Blank						
Method Blank						
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5



Date Submitted: 08-Aug-16
Invoice No.: A16-07774
Invoice Date: 23-Aug-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

34 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1E3-Tbay Aqua Regia ICP(AQUAGEO)

Code 1F2-Tbay Total Digestion ICP(TOTAL)

REPORT **A16-07774**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is written over a horizontal line.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
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Date Submitted: 08-Aug-16
Invoice No.: A16-07774
Invoice Date: 23-Aug-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

34 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-50-Geraldton Au - Fire Assay AA

REPORT **A16-07774**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.



CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé".

Emmanuel Esemé , Ph.D.
Quality Control

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Results

Activation Laboratories Ltd.

Report: A16-07774

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
262013	7	< 0.2	< 0.5	43	488	< 1	59	7	64	3.07	16	< 10	557	< 0.5	< 2	0.41	19	158	4.15	10	< 1	1.92	25
262014	41	< 0.2	< 0.5	36	446	< 1	42	8	56	1.75	59	< 10	153	< 0.5	2	0.63	18	74	3.13	< 10	< 1	1.10	36
262015	87	0.2	< 0.5	29	255	1	25	11	53	1.12	52	< 10	166	< 0.5	< 2	0.22	15	48	1.87	< 10	< 1	0.71	43
262016	3710	0.7	< 0.5	62	561	6	25	15	72	2.02	9	< 10	222	< 0.5	< 2	1.34	9	42	4.24	< 10	< 1	0.19	< 10
262017	11	< 0.2	< 0.5	27	306	1	21	7	62	1.77	23	< 10	231	< 0.5	< 2	0.45	14	46	2.79	< 10	< 1	1.21	52
262018	7	0.2	< 0.5	24	181	1	22	12	49	1.02	15	< 10	164	< 0.5	< 2	0.30	12	36	1.36	< 10	< 1	0.63	36
262019	15	< 0.2	< 0.5	19	161	2	19	11	47	0.88	108	< 10	137	< 0.5	< 2	0.21	12	28	1.13	< 10	< 1	0.55	37
262020	102	< 0.2	< 0.5	19	208	< 1	16	11	44	0.97	170	< 10	96	< 0.5	< 2	0.32	11	29	1.18	< 10	< 1	0.52	36
262021	9	< 0.2	< 0.5	17	209	1	17	10	42	0.87	24	< 10	83	< 0.5	< 2	0.44	10	25	0.98	< 10	< 1	0.46	35
262022	10	< 0.2	< 0.5	18	220	2	17	8	42	1.02	180	< 10	103	< 0.5	< 2	0.48	10	28	1.09	< 10	< 1	0.50	33
262023	91	< 0.2	< 0.5	20	208	1	16	11	40	1.25	1160	< 10	105	< 0.5	< 2	0.48	11	26	1.28	< 10	< 1	0.52	37
262024	179	< 0.2	< 0.5	18	175	2	16	14	37	0.89	486	< 10	86	< 0.5	< 2	0.52	11	29	1.30	< 10	< 1	0.39	37
262025	612	< 0.2	< 0.5	21	175	1	19	10	39	1.01	294	< 10	100	< 0.5	< 2	0.75	11	30	1.54	< 10	< 1	0.49	36
262026	33	< 0.2	< 0.5	19	132	1	18	13	43	1.12	93	< 10	86	< 0.5	< 2	0.51	11	31	1.13	< 10	< 1	0.46	46
262027	< 5	2.5	< 0.5	< 1	17	< 1	< 1	< 2	< 2	4.97	< 2	12	< 10	< 0.5	< 2	0.13	< 1	< 1	0.07	10	< 1	1.36	< 10
262028	29	< 0.2	< 0.5	19	122	< 1	22	11	45	1.06	269	< 10	104	< 0.5	< 2	0.39	12	28	1.10	< 10	< 1	0.50	39
262029	76	< 0.2	< 0.5	23	151	< 1	23	10	47	1.55	1910	< 10	137	< 0.5	< 2	0.46	13	32	1.51	< 10	< 1	0.67	39
262030	29	< 0.2	< 0.5	26	182	1	22	9	57	1.36	84	< 10	138	< 0.5	< 2	0.46	14	28	1.61	< 10	< 1	0.67	56
262031	266	< 0.2	< 0.5	21	145	2	20	16	48	1.14	372	< 10	114	< 0.5	< 2	0.42	13	26	1.27	< 10	< 1	0.52	44
262032	24	< 0.2	< 0.5	33	422	1	28	7	57	1.36	41	< 10	120	< 0.5	< 2	0.74	15	67	2.24	< 10	< 1	0.76	39
262033	19	< 0.2	< 0.5	31	340	1	26	8	58	1.37	34	< 10	159	< 0.5	< 2	0.36	14	62	2.11	< 10	< 1	0.87	38
262034	24	< 0.2	< 0.5	29	274	1	23	8	45	1.25	49	< 10	134	< 0.5	< 2	0.45	13	59	1.92	< 10	< 1	0.64	37
262035	15	< 0.2	< 0.5	28	294	1	28	9	54	1.30	46	< 10	129	< 0.5	< 2	0.58	14	58	1.97	< 10	< 1	0.61	41
262036	35	< 0.2	< 0.5	44	394	1	43	9	77	2.08	88	< 10	233	< 0.5	< 2	0.55	18	78	3.10	< 10	< 1	1.35	48
262037	11	< 0.2	< 0.5	25	299	1	24	8	57	1.39	20	< 10	176	< 0.5	< 2	0.33	13	50	1.95	< 10	< 1	0.91	37
262038	361	< 0.2	< 0.5	43	544	3	12	9	41	2.33	154	< 10	126	< 0.5	< 2	1.64	9	30	3.69	< 10	< 1	0.15	< 10
262039	18	< 0.2	< 0.5	34	272	2	26	9	51	1.24	28	< 10	146	< 0.5	< 2	0.66	14	48	1.89	< 10	< 1	0.70	43
262040	125	< 0.2	< 0.5	29	245	1	22	13	52	1.16	124	< 10	148	< 0.5	< 2	0.38	13	49	1.84	< 10	< 1	0.73	38
262041	11	0.3	< 0.5	31	302	1	22	9	58	1.31	10	< 10	125	< 0.5	< 2	0.41	14	52	1.92	< 10	< 1	0.82	43
262042	82	0.2	< 0.5	27	327	1	26	7	52	1.33	66	< 10	129	< 0.5	< 2	0.59	13	49	1.93	< 10	< 1	0.83	37
262043	28	< 0.2	< 0.5	28	366	1	25	9	56	1.45	173	< 10	115	< 0.5	< 2	0.59	14	61	2.10	< 10	< 1	0.87	37
262044	24	< 0.2	< 0.5	30	405	2	28	5	62	1.81	140	< 10	112	< 0.5	< 2	0.51	14	64	2.51	< 10	< 1	1.11	43
262045	39	< 0.2	< 0.5	30	333	2	28	8	52	1.62	127	< 10	107	< 0.5	< 2	1.50	13	57	2.02	< 10	< 1	0.84	33
262046	13	< 0.2	< 0.5	26	247	1	23	8	52	1.19	13	< 10	135	< 0.5	< 2	0.47	12	47	1.62	< 10	< 1	0.77	39

Results

Activation Laboratories Ltd.

Report: A16-07774

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.3	0.01	3	7	1	2	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262013	1.93	0.143	0.061	0.13	< 2	13	25	0.27	< 20	3	< 2	< 10	89	< 10	6	29	0.3	8.18	11	716	1	< 2	1.74
262014	0.86	0.065	0.054	0.33	5	5	24	0.14	< 20	< 1	< 2	< 10	42	< 10	8	30	0.4	7.17	54	711	1	< 2	1.35
262015	0.49	0.076	0.036	0.37	3	3	17	0.12	< 20	6	< 2	< 10	22	< 10	9	42	0.6	6.25	45	651	1	< 2	1.02
262016	0.94	0.140	0.063	0.05	7	8	59	0.21	< 20	4	< 2	< 10	87	< 10	10	9	0.5	6.53	8	526	< 1	< 2	2.70
262017	0.75	0.086	0.096	0.19	3	3	28	0.21	< 20	3	< 2	< 10	33	< 10	10	19	0.3	8.29	16	> 1000	2	< 2	1.55
262018	0.39	0.081	0.033	0.17	4	2	24	0.11	< 20	< 1	3	< 10	20	< 10	7	35	< 0.3	6.66	11	802	1	< 2	0.95
262019	0.28	0.069	0.033	0.18	5	2	17	0.09	< 20	1	< 2	< 10	14	< 10	7	37	0.5	6.35	97	673	1	< 2	0.80
262020	0.25	0.070	0.030	0.30	6	1	19	0.07	< 20	5	< 2	< 10	11	< 10	8	36	0.3	5.73	161	555	1	< 2	0.88
262021	0.22	0.076	0.026	0.18	4	1	25	0.07	< 20	< 1	< 2	< 10	9	< 10	8	32	< 0.3	4.40	17	454	< 1	< 2	0.95
262022	0.22	0.074	0.026	0.20	6	1	25	0.06	< 20	8	< 2	< 10	10	< 10	8	29	0.3	5.46	158	523	< 1	< 2	0.90
262023	0.21	0.079	0.027	0.30	10	< 1	36	0.05	< 20	< 1	< 2	< 10	8	< 10	8	27	0.5	6.01	1030	543	1	< 2	0.63
262024	0.18	0.068	0.028	0.43	9	1	30	0.04	< 20	3	< 2	< 10	8	< 10	7	32	0.4	5.59	448	529	1	< 2	0.98
262025	0.21	0.073	0.030	0.40	6	1	39	0.06	< 20	1	< 2	< 10	10	34	8	31	0.3	5.58	255	527	1	< 2	1.22
262026	0.23	0.101	0.030	0.26	5	1	39	0.07	< 20	5	< 2	< 10	10	< 10	9	30	< 0.3	5.68	82	520	1	< 2	1.08
262027	0.02	2.94	0.001	< 0.01	< 2	< 1	9	< 0.01	< 20	2	3	< 10	< 1	< 10	1	< 1	< 0.3	8.00	< 3	< 7	< 1	< 2	0.16
262028	0.22	0.077	0.042	0.23	8	1	28	0.07	< 20	5	< 2	< 10	10	< 10	9	22	0.5	6.17	266	603	1	< 2	0.88
262029	0.26	0.106	0.043	0.34	14	2	42	0.07	< 20	< 1	< 2	< 10	13	< 10	10	22	0.4	6.83	1810	710	1	< 2	0.72
262030	0.32	0.087	0.086	0.28	7	2	27	0.11	< 20	6	< 2	< 10	16	< 10	12	14	0.7	7.39	72	745	1	< 2	1.17
262031	0.29	0.084	0.049	0.34	11	1	28	0.07	< 20	5	< 2	< 10	11	< 10	10	20	0.6	4.06	345	581	1	< 2	0.70
262032	0.70	0.090	0.046	0.26	5	5	46	0.16	< 20	< 1	< 2	< 10	40	< 10	9	38	0.5	7.39	30	828	1	< 2	1.85
262033	0.71	0.092	0.040	0.23	5	4	30	0.17	< 20	< 1	< 2	< 10	36	< 10	8	41	0.6	7.74	35	854	1	< 2	1.54
262034	0.64	0.080	0.045	0.24	3	3	27	0.15	< 20	2	< 2	< 10	28	< 10	8	40	0.5	7.81	37	926	1	< 2	1.35
262035	0.71	0.088	0.043	0.19	< 2	4	37	0.16	< 20	5	< 2	< 10	32	< 10	8	39	0.6	8.01	49	842	2	< 2	1.59
262036	1.05	0.084	0.072	0.31	5	6	34	0.23	< 20	2	< 2	< 10	50	< 10	11	47	0.5	9.33	90	> 1000	2	< 2	1.60
262037	0.70	0.092	0.050	0.20	3	3	26	0.15	< 20	< 1	< 2	< 10	30	< 10	8	39	0.9	7.78	20	962	1	< 2	1.39
262038	0.77	0.215	0.050	0.05	< 2	7	82	0.17	< 20	9	< 2	< 10	87	< 10	9	5	< 0.3	8.20	145	464	< 1	< 2	3.90
262039	0.60	0.084	0.039	0.27	9	3	37	0.11	< 20	7	< 2	< 10	27	< 10	7	35	0.6	7.61	33	886	1	< 2	1.48
262040	0.61	0.080	0.032	0.26	3	3	22	0.12	< 20	3	< 2	< 10	26	< 10	7	36	0.4	7.42	103	964	1	< 2	1.17
262041	0.68	0.090	0.036	0.24	5	3	32	0.15	< 20	5	< 2	< 10	29	< 10	8	40	0.5	4.48	6	741	1	< 2	1.09
262042	0.71	0.086	0.040	0.26	3	3	31	0.14	< 20	4	< 2	< 10	28	< 10	8	41	0.4	7.58	59	816	1	< 2	1.79
262043	0.76	0.101	0.040	0.28	5	4	37	0.17	< 20	7	< 2	< 10	36	< 10	8	38	0.4	8.17	158	767	1	< 2	1.90
262044	0.83	0.146	0.062	0.36	4	4	52	0.20	< 20	5	< 2	< 10	37	< 10	10	41	0.6	8.66	132	796	2	< 2	1.97
262045	0.76	0.115	0.043	0.27	4	3	64	0.14	< 20	7	< 2	< 10	30	26	7	34	0.4	7.99	127	767	1	< 2	2.50
262046	0.58	0.096	0.033	0.20	3	3	31	0.13	< 20	< 1	2	< 10	25	< 10	7	34	< 0.3	7.79	< 3	835	1	< 2	1.46

Results

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Analyte Symbol	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	
Lower Limit	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262013	< 0.3	21	106	43	4.10	18	< 1	2.11	1.95	59	522	< 1	2.17	68	0.057	10	< 5	0.13	16	308	4	0.28	5
262014	0.4	19	112	35	3.07	17	1	2.54	0.89	36	427	1	1.58	54	0.051	18	< 5	0.33	11	263	11	0.27	< 5
262015	< 0.3	15	69	28	1.89	13	< 1	1.61	0.52	22	254	1	1.87	34	0.035	16	< 5	0.35	7	329	< 2	0.20	6
262016	< 0.3	12	55	62	4.73	13	< 1	0.98	1.34	15	743	< 1	2.20	41	0.056	12	< 5	0.06	17	257	6	0.15	< 5
262017	< 0.3	14	67	26	2.76	18	< 1	2.29	0.78	34	304	< 1	2.13	34	0.085	19	< 5	0.18	7	428	20	0.27	< 5
262018	< 0.3	13	53	22	1.45	14	2	1.96	0.45	19	189	2	2.26	27	0.031	13	< 5	0.16	7	448	< 2	0.20	< 5
262019	< 0.3	12	43	19	1.25	13	< 1	1.63	0.36	16	179	4	2.04	24	0.031	13	< 5	0.18	6	365	4	0.17	< 5
262020	< 0.3	11	51	18	1.35	12	< 1	1.77	0.34	17	230	2	1.01	26	0.028	15	< 5	0.31	5	182	3	0.16	< 5
262021	< 0.3	10	52	16	1.03	9	< 1	1.79	0.26	13	238	< 1	0.99	19	0.023	14	< 5	0.16	4	210	< 2	0.14	< 5
262022	0.4	10	55	17	1.23	11	< 1	1.87	0.30	13	265	< 1	0.77	21	0.023	12	< 5	0.19	5	175	< 2	0.15	7
262023	< 0.3	11	60	19	1.49	13	< 1	1.85	0.34	20	259	< 1	0.38	23	0.025	17	< 5	0.29	5	123	< 2	0.16	< 5
262024	< 0.3	10	52	18	1.53	11	< 1	1.86	0.30	14	217	< 1	0.96	23	0.026	14	8	0.42	5	188	< 2	0.15	< 5
262025	0.4	12	57	20	1.76	12	1	1.45	0.30	13	196	< 1	0.88	28	0.030	10	< 5	0.39	5	191	< 2	0.16	12
262026	< 0.3	12	48	21	1.35	11	< 1	1.68	0.32	12	152	2	0.85	26	0.028	13	< 5	0.25	5	199	< 2	0.16	< 5
262027	< 0.3	< 1	6	< 1	0.09	20	< 1	3.82	< 0.01	19	17	< 1	7.46	2	< 0.001	< 3	< 5	< 0.01	< 4	11	< 2	< 0.01	< 5
262028	< 0.3	12	55	19	1.43	13	< 1	1.87	0.35	15	159	4	0.72	27	0.042	10	6	0.24	6	173	3	0.19	< 5
262029	< 0.3	14	61	24	1.89	14	< 1	2.31	0.41	17	197	1	0.43	32	0.042	10	14	0.35	7	132	< 2	0.21	5
262030	0.3	14	75	28	1.94	15	< 1	2.67	0.47	18	218	2	0.94	31	0.082	11	< 5	0.29	9	187	15	0.28	< 5
262031	< 0.3	13	69	19	1.38	12	< 1	1.77	0.34	15	190	3	0.74	26	0.043	17	10	0.32	5	137	< 2	0.19	< 5
262032	< 0.3	16	101	33	2.19	16	< 1	2.21	0.70	19	432	4	2.47	36	0.042	16	< 5	0.25	9	556	8	0.25	5
262033	< 0.3	15	80	30	2.12	16	< 1	1.95	0.73	18	345	5	2.40	34	0.037	14	6	0.22	8	580	6	0.24	< 5
262034	< 0.3	14	68	29	2.03	17	< 1	1.93	0.70	18	288	4	2.66	33	0.042	14	< 5	0.24	8	582	< 2	0.24	< 5
262035	< 0.3	13	76	28	2.01	16	< 1	1.87	0.73	17	299	4	2.73	35	0.040	14	< 5	0.19	8	603	5	0.24	< 5
262036	< 0.3	20	84	44	3.26	26	< 1	2.67	1.15	25	413	2	1.97	55	0.066	8	< 5	0.32	14	486	< 2	0.37	< 5
262037	< 0.3	13	68	25	2.03	17	< 1	2.41	0.74	19	299	< 1	2.44	34	0.045	11	< 5	0.19	8	537	7	0.20	< 5
262038	< 0.3	14	41	48	4.76	16	< 1	0.96	1.37	7	914	3	2.52	26	0.049	7	< 5	0.05	21	303	11	0.30	< 5
262039	< 0.3	15	67	41	1.93	16	< 1	2.13	0.64	16	273	2	2.62	31	0.036	13	< 5	0.26	7	505	< 2	0.22	< 5
262040	< 0.3	14	79	29	1.91	19	< 1	2.31	0.66	16	249	3	2.50	32	0.030	15	< 5	0.26	7	457	< 2	0.22	< 5
262041	< 0.3	13	82	26	1.76	15	2	1.79	0.61	17	304	1	2.11	29	0.030	17	< 5	0.20	5	410	5	0.23	< 5
262042	< 0.3	14	111	27	1.98	16	< 1	2.08	0.74	18	341	3	2.13	33	0.038	17	< 5	0.27	8	526	3	0.23	< 5
262043	0.4	13	71	30	2.20	19	< 1	2.79	0.81	19	368	< 1	2.35	35	0.038	17	< 5	0.28	8	586	5	0.26	< 5
262044	< 0.3	16	76	31	2.60	21	< 1	2.83	0.88	20	382	2	1.72	39	0.058	16	< 5	0.36	10	539	4	0.29	< 5
262045	< 0.3	15	68	36	2.10	17	< 1	2.13	0.81	20	325	1	2.05	37	0.041	9	8	0.26	8	556	5	0.24	< 5
262046	< 0.3	12	60	25	1.67	16	1	1.93	0.60	14	247	4	2.61	28	0.030	11	< 5	0.19	7	625	< 2	0.20	8

Results

Activation Laboratories Ltd.

Report: A16-07774

Analyte Symbol	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262013	< 10	92	< 5	11	66	100
262014	< 10	70	6	13	58	131
262015	< 10	43	< 5	12	54	129
262016	< 10	71	< 5	18	84	27
262017	< 10	53	< 5	12	63	141
262018	< 10	42	< 5	11	53	112
262019	< 10	34	< 5	11	51	117
262020	< 10	32	12	11	46	104
262021	< 10	27	< 5	9	46	96
262022	< 10	29	9	11	49	111
262023	< 10	33	< 5	11	48	110
262024	< 10	29	8	11	46	111
262025	< 10	32	44	12	48	112
262026	< 10	31	5	12	50	111
262027	< 10	< 2	< 5	1	2	17
262028	< 10	38	< 5	13	55	118
262029	< 10	46	6	13	59	129
262030	< 10	56	8	16	67	173
262031	< 10	40	7	9	54	137
262032	< 10	56	< 5	12	61	150
262033	< 10	53	< 5	12	58	140
262034	< 10	52	6	12	50	157
262035	< 10	53	< 5	12	56	136
262036	< 10	88	9	15	84	167
262037	< 10	44	< 5	11	59	124
262038	< 10	122	< 5	20	58	33
262039	< 10	47	< 5	12	54	126
262040	< 10	47	6	11	57	119
262041	< 10	47	6	7	58	135
262042	< 10	49	< 5	11	55	149
262043	< 10	55	5	12	58	139
262044	< 10	62	9	13	66	182
262045	< 10	55	37	11	55	132
262046	< 10	44	< 5	10	53	123

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas		29.7	2.5	1200	806	12	26	688	656	0.37	402	11	389	0.8	1530	0.80	5	6	24.0	< 10	9	0.03	< 10
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50
GXR-1 Meas		28.9	3.9	1200	785	12	26	666	642	0.35	389	11	538	0.8	1510	0.78	6	6	23.4	< 10	7	0.03	< 10
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50
GXR-4 Meas		3.5	< 0.5	6680	147	304	31	48	66	2.88	101	< 10	44	1.4	31	0.97	13	57	3.25	10	< 1	1.74	51
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5
GXR-4 Meas		3.4	0.6	6440	138	287	30	44	63	2.81	98	< 10	46	1.4	24	0.91	13	54	3.15	10	< 1	1.71	53
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5
SDC-1 Meas																							
SDC-1 Cert																							
GXR-6 Meas		0.2	< 0.5	74	1100	1	16	103	117	7.43	239	< 10	977	0.9	< 2	0.14	13	83	6.13	20	< 1	1.21	< 10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
GXR-6 Meas		0.2	< 0.5	72	1080	2	16	101	117	7.36	254	< 10	959	0.9	< 2	0.14	12	83	6.16	20	< 1	1.20	< 10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
Oreas 72a (4 Acid Digest) Meas																							
Oreas 72a (4 Acid Digest) Cert																							
SBC-1 Meas																							
SBC-1 Cert																							
SdAR-M2 (U.S.G.S.) Meas																							
SdAR-M2 (U.S.G.S.) Cert																							
SF85 Meas	872																						
SF85 Cert	848																						
OxD128 Meas	404																						
OxD128 Cert	424.000																						
262021 Orig		< 0.2	< 0.5	17	207	1	16	10	42	0.86	25	< 10	82	< 0.5	< 2	0.44	10	24	0.96	< 10	< 1	0.46	35
262021 Dup		< 0.2	< 0.5	17	211	1	17	9	43	0.87	23	< 10	85	< 0.5	< 2	0.44	10	26	0.99	< 10	< 1	0.47	35
262022 Orig	10																						
262022 Dup	10																						
262024 Orig																							
262024 Dup																							
262032 Orig	23																						
262032 Dup	24																						
262035 Orig		< 0.2	< 0.5	28	294	1	28	7	54	1.31	43	< 10	128	< 0.5	< 2	0.58	14	58	1.96	< 10	< 1	0.61	40
262035 Dup		< 0.2	< 0.5	28	294	1	27	11	53	1.30	49	< 10	129	< 0.5	< 2	0.58	14	59	1.98	< 10	< 1	0.61	41
262038 Orig																							
262038 Dup																							
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	11	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.3	0.01	3	7	1	2	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	0.14	0.047	0.049	0.21	84	1	183	< 0.01	< 20	14	< 2	31	76	150	24	16	31.7	2.21	430	673	1	1380	0.87
GXR-1 Cert	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0	0.390	34.9	80.0	164	32.0	38.0	31.0	3.52	427	750	1.22	1380	0.960
GXR-1 Meas	0.14	0.048	0.048	0.20	81	1	179	< 0.01	< 20	12	< 2	30	73	143	24	16							
GXR-1 Cert	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0	0.390	34.9	80.0	164	32.0	38.0							
GXR-4 Meas	1.69	0.134	0.133	1.79	3	8	75	0.14	< 20	6	3	< 10	79	10	11	10	3.3	6.85	92	215	2	20	1.06
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970	3.20	6.20	87.0	30.8	14.0	186	4.0	7.20	98.0	1640	1.90	19.0	1.01
GXR-4 Meas	1.66	0.136	0.132	1.73	< 2	7	74	0.14	< 20	3	4	< 10	76	< 10	11	10							
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970	3.20	6.20	87.0	30.8	14.0	186							
SDC-1 Meas																		8.50	< 3	630	3		1.10
SDC-1 Cert																		8.34	0.220	630	3.00		1.00
GXR-6 Meas	0.44	0.071	0.037	0.01	5	21	27	< 20		3	< 2	< 10	172	< 10	5	9	0.4	12.0	256	> 1000	1	< 2	0.15
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0	5.30	0.0180	2.20	1.54	186	1.90	14.0	110	1.30	17.7	330	1300	1.40	0.290	0.180	
GXR-6 Meas	0.44	0.071	0.037	0.02	3	20	27	< 20		< 1	< 2	< 10	169	< 10	4	10							
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0	5.30	0.0180	2.20	1.54	186	1.90	14.0	110								
Oreas 72a (4 Acid Digest) Meas																			< 3				
Oreas 72a (4 Acid Digest) Cert																			14.7				
SBC-1 Meas																			13	767	3	5	
SBC-1 Cert																			25.7	788.0	3.20	0.70	
SdAR-M2 (U.S.G.S.) Meas																				993	8	< 2	
SdAR-M2 (U.S.G.S.) Cert																				990	6.6	1.05	
SF85 Meas																							
SF85 Cert																							
OxD128 Meas																							
OxD128 Cert																							
262021 Orig	0.22	0.075	0.026	0.17	4	1	24	0.07	< 20	< 1	< 2	< 10	9	< 10	8	32							
262021 Dup	0.22	0.078	0.027	0.18	3	1	25	0.07	< 20	1	< 2	< 10	9	< 10	8	32							
262022 Orig																							
262022 Dup																							
262024 Orig																	0.5	5.57	434	528	1	< 2	0.98
262024 Dup																	0.4	5.61	462	531	1	< 2	0.98
262032 Orig																							
262032 Dup																							
262035 Orig	0.71	0.087	0.044	0.20	< 2	4	37	0.16	< 20	3	< 2	< 10	32	< 10	8	39							
262035 Dup	0.71	0.088	0.043	0.18	3	4	36	0.16	< 20	6	< 2	< 10	32	< 10	8	39							
262038 Orig																	< 0.3	8.12	143	462	< 1	< 2	3.88
262038 Dup																	< 0.3	8.29	147	466	< 1	4	3.91
Method Blank																							
Method Blank																							
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	2	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	1	< 2	< 10	< 1	< 10	< 1	< 1							

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.3	0.01	3	7	1	2	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Method Blank	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	1	< 2	< 10	< 1	< 10	< 1	< 1							

Analyte Symbol	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	2.9	4	22	1200	23.7	15	8	0.05	0.21	9	870	16	0.05	50	0.060	720	33	0.25	< 4	289	< 2	0.03	< 5
GXR-1 Cert	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520	41.0	0.0650	730	122	0.257	1.58	275	13.0	0.036	0.390
GXR-1 Meas																							
GXR-1 Cert																							
GXR-4 Meas	< 0.3	15	36	6430	2.97	19	< 1	3.77	1.67	11	151	351	0.54	47	0.130	50	< 5	1.77	8	214	4	0.29	< 5
GXR-4 Cert	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564	42.0	0.120	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20
GXR-4 Meas																							
GXR-4 Cert																							
SDC-1 Meas		19	55	29	4.84	22	< 1	2.70	1.01	34	901		1.54	40	0.056	21	< 5		17	175		0.21	< 5
SDC-1 Cert		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34.00	880.00		1.52	38.0	0.0690	25.00	0.54		17.00	180.00		0.606	0.70
GXR-6 Meas	< 0.3	15	71	73	5.60	28	2	1.77	0.56	32	1090	< 1	0.10	28	0.033	96	< 5	0.02	27	34	< 2		< 5
GXR-6 Cert	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104	27.0	0.0350	101	3.60	0.0160	27.6	35.0	0.0180		2.20
GXR-6 Meas																							
GXR-6 Cert																							
Oreas 72a (4 Acid Digest) Meas		144	186	318	9.38									6450				1.59					
Oreas 72a (4 Acid Digest) Cert		157	228	316	9.63									6930.000				1.74					
SBC-1 Meas	< 0.3	25	91	34		28				161		1		87		20	< 5		21	175		0.53	6
SBC-1 Cert	0.40	22.7	109	31.0000		27.0				163.0		2.40		82.8		35.0	1.01		20.0	178.0		0.51	0.89
SdAR-M2 (U.S.G.S.) Meas	5.6	14	44	243		18	1			18		14		54		822			5	146			
SdAR-M2 (U.S.G.S.) Cert	5.1	12.4	49.6	236.0000		17.6	1.44			17.9		13.3		48.8		808			4.1	144			
SF85 Meas																							
SF85 Cert																							
OxD128 Meas																							
OxD128 Cert																							
262021 Orig																							
262021 Dup																							
262022 Orig																							
262022 Dup																							
262024 Orig	< 0.3	10	56	18	1.51	11	1	1.74	0.30	14	218	1	0.95	23	0.026	16	7	0.41	5	188	< 2	0.15	< 5
262024 Dup	< 0.3	10	48	18	1.55	11	< 1	1.97	0.30	14	216	< 1	0.97	23	0.026	13	9	0.43	5	188	< 2	0.15	< 5
262032 Orig																							
262032 Dup																							
262035 Orig																							
262035 Dup																							
262038 Orig	< 0.3	14	40	49	4.72	16	2	0.96	1.36	7	908	2	2.49	27	0.048	6	< 5	0.05	21	302	5	0.27	< 5
262038 Dup	< 0.3	14	42	47	4.80	16	< 1	0.96	1.38	7	921	3	2.55	25	0.050	8	< 5	0.05	21	304	18	0.33	7
Method Blank																							
Method Blank																							
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		3	< 0.01	< 1	1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Method Blank																							

Analyte Symbol	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	40	88	159	34	737	32
GXR-1 Cert	34.9	80.0	164	32.0	760	38.0
GXR-1 Meas						
GXR-1 Cert						
GXR-4 Meas	< 10	86	36	15	68	46
GXR-4 Cert	6.20	87.0	30.8	14.0	73.0	186
GXR-4 Meas						
GXR-4 Cert						
SDC-1 Meas	< 10	49	< 5		99	31
SDC-1 Cert	3.10	102.00	0.80		103.00	290.00
GXR-6 Meas	< 10	116	< 5	12	129	65
GXR-6 Cert	1.54	186	1.90	14.0	118	110
GXR-6 Meas						
GXR-6 Cert						
Oreas 72a (4 Acid Digest) Meas						
Oreas 72a (4 Acid Digest) Cert						
SBC-1 Meas	< 10	214	< 5	32	172	124
SBC-1 Cert	5.76	220.0	1.60	36.5	186.0	134.0
SdAR-M2 (U.S.G.S.) Meas	< 10	26	11	30	776	123
SdAR-M2 (U.S.G.S.) Cert	2.53	25.2	2.8	32.7	760	259
SF85 Meas						
SF85 Cert						
OxD128 Meas						
OxD128 Cert						
262021 Orig						
262021 Dup						
262022 Orig						
262022 Dup						
262024 Orig	< 10	29	7	11	46	115
262024 Dup	< 10	29	8	11	47	106
262032 Orig						
262032 Dup						
262035 Orig						
262035 Dup						
262038 Orig	< 10	113	< 5	20	58	28
262038 Dup	< 10	131	< 5	20	59	38
Method Blank						
Method Blank						
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank						
Method Blank						
Method Blank						

Analyte Symbol	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Method Blank						



Date Submitted: 08-Aug-16
Invoice No.: A16-07773
Invoice Date: 31-Aug-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

34 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1E3-Tbay Aqua Regia ICP(AQUAGEO)

Code 1F2-Tbay Total Digestion ICP(TOTAL)

REPORT **A16-07773**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is stylized and written over a horizontal line.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Date Submitted: 08-Aug-16
Invoice No.: A16-07773
Invoice Date: 31-Aug-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

34 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-50-Geraldton Au - Fire Assay AA

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.



CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé".

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
801 Main Street, P.O. Box 999, Geraldton, Ontario, Canada, P0T 1M0
TELEPHONE +807 854-2020 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Geraldton@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A16-07773

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
262468	< 5	< 0.2	< 0.5	54	870	< 1	< 1	2	86	2.74	< 2	< 10	146	< 0.5	< 2	2.38	14	5	6.31	10	< 1	0.41	14
262469	< 5	< 0.2	< 0.5	21	705	< 1	< 1	< 2	84	2.24	< 2	< 10	115	< 0.5	< 2	2.01	12	3	5.35	10	< 1	0.33	13
262470	< 5	< 0.2	< 0.5	16	508	< 1	< 1	< 2	77	1.86	2	< 10	42	< 0.5	< 2	1.95	8	5	4.30	< 10	< 1	0.17	15
262471	< 5	< 0.2	< 0.5	< 1	282	< 1	< 1	7	10	0.08	< 2	33	131	< 0.5	< 2	13.4	< 1	< 1	0.07	< 10	< 1	0.04	< 10
262472	< 5	< 0.2	< 0.5	17	409	< 1	< 1	< 2	46	1.13	< 2	< 10	44	< 0.5	< 2	0.99	8	5	3.61	< 10	< 1	0.19	15
262473	< 5	< 0.2	< 0.5	13	571	< 1	< 1	< 2	74	2.13	< 2	< 10	147	< 0.5	< 2	1.66	12	3	5.11	10	< 1	0.47	14
262474	28	< 0.2	< 0.5	14	760	< 1	< 1	< 2	100	2.77	< 2	< 10	247	< 0.5	< 2	1.90	14	3	5.97	10	< 1	1.04	14
262674	< 5	< 0.2	< 0.5	45	549	< 1	28	< 2	46	2.41	< 2	< 10	67	< 0.5	< 2	1.84	13	71	3.12	10	< 1	0.28	12
262675	< 5	< 0.2	< 0.5	76	936	< 1	29	< 2	45	2.83	< 2	< 10	41	< 0.5	< 2	2.39	14	65	4.45	< 10	< 1	0.18	12
262676	< 5	< 0.2	< 0.5	56	1180	< 1	27	2	47	2.79	< 2	< 10	28	< 0.5	< 2	1.92	14	69	4.87	< 10	< 1	0.11	12
262677	< 5	< 0.2	< 0.5	39	1790	< 1	23	< 2	47	4.62	< 2	< 10	56	< 0.5	< 2	3.57	12	60	5.91	10	< 1	0.32	11
262678	< 5	< 0.2	< 0.5	44	1770	< 1	29	3	54	4.57	< 2	< 10	42	< 0.5	< 2	3.62	14	62	5.63	10	< 1	0.23	12
262679	< 5	< 0.2	< 0.5	47	513	1	23	< 2	43	2.11	< 2	< 10	41	< 0.5	< 2	1.69	12	71	3.03	< 10	< 1	0.17	13
262680	< 5	< 0.2	< 0.5	44	510	< 1	22	< 2	43	2.22	< 2	< 10	92	< 0.5	< 2	1.68	12	72	3.02	< 10	< 1	0.33	13
262681	3630	0.6	< 0.5	61	565	6	24	16	73	2.01	9	< 10	220	< 0.5	< 2	1.35	9	42	4.16	< 10	< 1	0.18	< 10
262682	< 5	< 0.2	< 0.5	47	592	< 1	22	< 2	49	2.43	< 2	< 10	114	< 0.5	< 2	1.60	12	79	3.39	< 10	< 1	0.55	14
262683	< 5	< 0.2	< 0.5	48	584	< 1	18	< 2	49	2.67	< 2	< 10	137	< 0.5	< 2	1.91	12	75	3.28	< 10	< 1	0.64	12
262684	22	< 0.2	< 0.5	50	683	< 1	20	< 2	48	2.81	< 2	< 10	118	< 0.5	< 2	2.04	12	73	3.35	< 10	< 1	0.51	13
262685	< 5	< 0.2	< 0.5	40	759	< 1	17	< 2	47	2.83	< 2	< 10	127	< 0.5	< 2	1.97	11	73	3.34	< 10	< 1	0.58	12
262686	< 5	< 0.2	< 0.5	33	923	< 1	23	3	45	2.72	< 2	< 10	66	< 0.5	< 2	2.44	13	71	3.78	< 10	< 1	0.28	12
262687	< 5	< 0.2	< 0.5	37	1510	< 1	29	< 2	51	3.90	< 2	< 10	162	< 0.5	< 2	2.92	14	67	5.16	< 10	< 1	0.84	11
262688	< 5	< 0.2	< 0.5	34	1260	< 1	34	3	45	3.51	< 2	< 10	131	< 0.5	< 2	3.71	15	97	4.21	< 10	< 1	0.44	11
262001	18	< 0.2	< 0.5	56	312	< 1	76	6	53	1.87	30	< 10	504	< 0.5	< 2	0.42	24	217	3.50	10	< 1	1.23	31
262002	25	< 0.2	< 0.5	47	332	< 1	74	6	62	2.13	28	< 10	579	< 0.5	< 2	0.34	23	235	3.92	10	< 1	1.49	28
262003	63	0.3	< 0.5	61	628	< 1	96	8	75	4.78	40	< 10	275	0.5	< 2	1.33	27	170	5.26	20	< 1	2.41	27
262004	< 5	< 0.2	< 0.5	< 1	231	< 1	2	2	6	0.04	< 2	15	102	< 0.5	< 2	13.7	< 1	1	0.05	< 10	< 1	0.04	< 10
262005	10	0.2	< 0.5	57	755	< 1	92	7	73	4.19	24	< 10	626	< 0.5	< 2	0.97	27	191	5.32	20	< 1	2.42	28
262006	11	< 0.2	< 0.5	56	653	< 1	82	4	76	3.07	31	< 10	683	< 0.5	< 2	0.36	26	211	5.10	10	< 1	2.06	26
262007	< 5	< 0.2	< 0.5	59	611	< 1	85	9	70	2.49	17	< 10	336	< 0.5	< 2	0.81	25	245	4.72	10	< 1	1.07	27
262008	5	< 0.2	0.6	59	686	2	87	8	74	3.67	27	< 10	484	< 0.5	< 2	1.25	25	198	5.05	10	< 1	1.76	27
262009	< 5	< 0.2	< 0.5	53	610	< 1	84	8	73	2.75	21	< 10	375	< 0.5	< 2	0.75	22	203	4.69	10	< 1	1.31	25
262010	< 5	< 0.2	< 0.5	55	469	< 1	84	9	71	2.95	14	< 10	452	< 0.5	< 2	1.00	25	205	4.77	10	< 1	1.61	27
262011	< 5	< 0.2	< 0.5	52	367	< 1	80	7	64	2.20	14	< 10	561	< 0.5	< 2	0.64	24	242	4.03	10	< 1	1.24	26
262012	< 5	< 0.2	< 0.5	55	583	< 1	83	10	69	2.35	21	< 10	602	< 0.5	< 2	0.80	24	219	4.29	10	2	1.33	26

Results

Activation Laboratories Ltd.

Report: A16-07773

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.3	0.01	3	7	1	2	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262468	0.83	0.256	0.150	0.12	2	12	31	0.19	< 20	11	3	< 10	10	< 10	22	7	0.4	7.67	< 3	160	< 1	2	4.80
262469	0.78	0.244	0.143	0.02	< 2	12	20	0.17	< 20	2	4	< 10	11	< 10	23	8	0.3	7.45	< 3	136	1	5	4.11
262470	0.50	0.205	0.148	0.03	< 2	11	41	0.17	< 20	< 1	< 2	< 10	11	< 10	22	8	< 0.3	6.76	5	63	< 1	< 2	4.10
262471	10.2	0.020	0.002	0.01	< 2	< 1	127	< 0.01	< 20	3	< 2	< 10	< 1	< 10	1	< 1	< 0.3	0.11	6	113	< 1	< 2	16.9
262472	0.38	0.185	0.155	0.03	< 2	9	10	0.17	< 20	2	< 2	< 10	11	< 10	20	8	0.4	5.08	8	39	< 1	< 2	2.79
262473	0.73	0.248	0.144	0.03	< 2	13	14	0.20	< 20	< 1	< 2	< 10	11	< 10	23	8	0.3	6.81	< 3	141	< 1	< 2	3.54
262474	0.95	0.225	0.149	0.06	< 2	13	19	0.26	< 20	3	< 2	< 10	11	< 10	25	8	< 0.3	7.53	< 3	266	< 1	< 2	3.81
262674	1.26	0.226	0.046	< 0.01	< 2	10	44	0.20	< 20	< 1	< 2	< 10	69	< 10	9	5	< 0.3	3.32	< 3	185	< 1	< 2	3.46
262675	1.46	0.204	0.047	< 0.01	< 2	10	53	0.18	< 20	3	< 2	< 10	69	< 10	9	8	0.4	8.13	< 3	195	< 1	< 2	4.28
262676	1.45	0.195	0.050	< 0.01	2	12	59	0.20	< 20	8	< 2	< 10	73	< 10	10	12	0.4	8.11	< 3	200	< 1	< 2	3.75
262677	1.40	0.281	0.048	< 0.01	7	10	78	0.20	< 20	< 1	< 2	< 10	66	< 10	9	8	0.5	8.30	< 3	344	< 1	< 2	5.12
262678	1.49	0.299	0.046	< 0.01	< 2	10	75	0.19	< 20	< 1	< 2	< 10	64	< 10	9	6	< 0.3	7.71	< 3	246	< 1	4	5.17
262679	1.11	0.219	0.047	< 0.01	< 2	10	33	0.18	< 20	6	< 2	< 10	69	< 10	9	14	0.4	7.72	< 3	123	< 1	< 2	4.01
262680	1.04	0.218	0.045	< 0.01	< 2	10	37	0.20	< 20	< 1	< 2	< 10	70	< 10	9	9	< 0.3	3.70	< 3	143	< 1	< 2	3.41
262681	0.93	0.140	0.063	0.06	5	8	59	0.21	< 20	< 1	< 2	< 10	87	< 10	10	9	1.0	5.85	< 3	513	< 1	< 2	2.61
262682	1.15	0.273	0.044	< 0.01	< 2	11	27	0.21	< 20	9	< 2	< 10	76	< 10	10	8	0.4	7.44	< 3	144	< 1	< 2	3.94
262683	1.04	0.280	0.047	< 0.01	< 2	10	37	0.21	< 20	< 1	< 2	< 10	77	< 10	9	3	< 0.3	8.04	< 3	171	< 1	< 2	4.20
262684	1.07	0.355	0.047	< 0.01	< 2	10	40	0.20	< 20	< 1	< 2	< 10	74	< 10	9	3	< 0.3	7.53	< 3	164	< 1	< 2	4.45
262685	1.07	0.363	0.048	< 0.01	< 2	10	37	0.20	< 20	< 1	< 2	< 10	72	< 10	9	3	< 0.3	6.74	< 3	151	< 1	< 2	4.44
262686	1.20	0.216	0.045	< 0.01	< 2	8	54	0.20	< 20	< 1	< 2	< 10	65	< 10	8	4	< 0.3	7.90	< 3	169	< 1	< 2	4.30
262687	1.35	0.329	0.047	< 0.01	3	9	45	0.21	< 20	2	< 2	< 10	70	< 10	8	3	< 0.3	8.13	< 3	257	< 1	< 2	4.67
262688	1.46	0.441	0.048	< 0.01	< 2	10	57	0.19	< 20	7	< 2	< 10	71	< 10	7	3	< 0.3	7.77	< 3	188	< 1	< 2	5.89
262001	1.64	0.163	0.067	0.24	12	13	27	0.22	< 20	5	< 2	< 10	104	< 10	9	28	0.4	6.78	18	419	1	< 2	2.19
262002	1.82	0.165	0.062	0.22	11	12	26	0.24	< 20	< 1	5	< 10	101	< 10	9	32	0.4	4.32	29	454	1	< 2	1.66
262003	2.06	0.377	0.080	0.29	11	15	109	0.32	< 20	3	3	< 10	112	44	9	41	0.6	7.41	33	592	1	< 2	2.33
262004	9.90	0.019	0.001	< 0.01	< 2	< 1	96	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1	< 0.3	0.06	< 3	90	< 1	< 2	18.0
262005	2.15	0.291	0.073	0.21	11	19	69	0.33	< 20	6	< 2	< 10	123	< 10	9	47	< 0.3	8.70	15	596	1	< 2	2.47
262006	2.08	0.146	0.071	0.20	6	19	22	0.33	< 20	4	< 2	< 10	124	< 10	9	41	0.3	7.43	22	744	1	< 2	2.00
262007	2.05	0.128	0.069	0.27	9	13	37	0.27	< 20	2	< 2	< 10	104	< 10	9	28	0.5	8.21	9	589	1	< 2	2.53
262008	2.08	0.252	0.070	0.24	6	16	69	0.29	< 20	2	< 2	< 10	107	< 10	10	33	0.4	8.34	32	672	1	< 2	2.53
262009	2.05	0.138	0.068	0.17	6	15	36	0.29	< 20	2	2	< 10	107	< 10	9	44	0.4	8.26	13	555	1	< 2	2.29
262010	1.96	0.133	0.067	0.24	3	15	30	0.22	< 20	1	2	< 10	102	< 10	8	35	0.4	8.37	< 3	535	1	< 2	2.32
262011	1.94	0.169	0.072	0.26	5	14	29	0.24	< 20	2	12	< 10	106	< 10	9	42	0.5	7.53	15	584	1	< 2	2.26
262012	1.86	0.129	0.070	0.25	5	15	26	0.29	< 20	5	< 2	< 10	108	< 10	9	40	0.4	6.95	4	756	1	< 2	2.24

Results

Activation Laboratories Ltd.

Report: A16-07773

Analyte Symbol	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262468	< 0.3	17	13	56	8.42	20	4	0.57	1.00	20	1540	< 1	1.96	2	0.137	< 3	< 5	0.12	19	217	4	0.27	< 5
262469	< 0.3	16	14	22	6.63	22	< 1	0.60	0.89	20	1060	< 1	2.60	3	0.124	< 3	< 5	0.02	17	132	23	0.20	< 5
262470	< 0.3	13	28	16	6.46	21	< 1	0.36	0.83	11	1010	< 1	2.77	2	0.119	< 3	< 5	0.02	15	154	< 2	0.19	< 5
262471	< 0.3	< 1	14	< 1	0.08	< 1	< 1	0.05	11.3	15	313	< 1	0.03	< 1	0.002	3	< 5	0.01	< 4	136	5	< 0.01	< 5
262472	< 0.3	17	17	15	6.64	18	2	0.24	0.93	8	1100	< 1	3.33	3	0.129	< 3	< 5	0.02	11	100	6	0.42	< 5
262473	< 0.3	17	27	13	6.93	18	< 1	0.62	0.99	16	1070	< 1	2.72	3	0.127	< 3	< 5	0.03	16	136	< 2	0.26	< 5
262474	< 0.3	17	13	15	6.82	19	< 1	1.41	1.02	23	1040	< 1	2.15	2	0.133	< 3	< 5	0.06	18	143	< 2	0.17	< 5
262674	< 0.3	14	60	43	3.29	17	< 1	0.73	1.16	17	688	< 1	2.31	37	0.038	< 3	< 5	< 0.01	15	113	18	0.12	< 5
262675	< 0.3	16	58	72	4.80	18	< 1	0.88	1.53	23	1160	< 1	2.18	41	0.043	< 3	< 5	< 0.01	17	216	26	0.23	< 5
262676	< 0.3	16	64	56	5.28	13	< 1	0.84	1.51	19	1530	< 1	2.36	40	0.045	< 3	< 5	< 0.01	19	254	2	0.27	< 5
262677	< 0.3	15	72	37	6.93	16	1	1.88	1.50	21	2460	< 1	0.75	37	0.044	< 3	< 5	< 0.01	18	175	< 2	0.24	< 5
262678	< 0.3	16	73	41	6.18	16	< 1	1.28	1.55	20	2470	< 1	0.89	45	0.041	< 3	< 5	< 0.01	16	161	< 2	0.25	< 5
262679	< 0.3	16	79	46	3.61	19	1	0.61	1.27	13	712	< 1	2.83	38	0.041	< 3	< 5	< 0.01	13	176	4	0.22	< 5
262680	< 0.3	13	86	40	3.02	15	< 1	0.61	0.91	12	622	< 1	2.48	29	0.037	< 3	< 5	< 0.01	6	113	< 2	0.27	< 5
262681	< 0.3	13	73	61	4.60	14	1	0.95	1.29	15	752	3	2.15	39	0.056	10	< 5	0.05	15	244	< 2	0.28	< 5
262682	< 0.3	14	88	44	3.67	19	2	0.79	1.16	18	742	< 1	2.60	35	0.040	< 3	< 5	< 0.01	13	156	< 2	0.25	< 5
262683	< 0.3	12	77	47	3.49	18	< 1	0.94	1.03	19	715	< 1	2.44	28	0.043	< 3	< 5	< 0.01	15	171	8	0.23	< 5
262684	< 0.3	13	64	48	3.74	15	< 1	0.75	1.09	16	838	< 1	2.40	29	0.043	< 3	< 5	< 0.01	15	177	< 2	0.15	< 5
262685	< 0.3	13	54	40	3.77	16	< 1	0.71	1.09	14	1010	< 1	2.35	29	0.043	< 3	< 5	< 0.01	12	156	< 2	0.15	< 5
262686	< 0.3	15	66	32	4.08	16	< 1	0.93	1.23	22	1100	< 1	2.34	35	0.043	< 3	< 5	< 0.01	15	187	4	0.18	< 5
262687	< 0.3	16	65	36	5.66	18	< 1	1.53	1.39	22	2200	< 1	1.63	40	0.043	< 3	< 5	< 0.01	16	132	< 2	0.25	< 5
262688	< 0.3	20	106	33	5.17	13	2	0.77	1.87	15	1720	< 1	1.76	55	0.046	< 3	< 5	< 0.01	17	163	< 2	0.27	< 5
262001	< 0.3	23	197	54	4.10	20	< 1	1.26	1.97	32	676	< 1	3.21	83	0.056	13	< 5	0.21	15	372	< 2	0.22	< 5
262002	1.3	26	218	43	3.91	16	2	1.24	1.67	32	596	< 1	2.56	80	0.055	12	7	0.21	5	349	12	0.33	< 5
262003	0.5	29	201	59	4.74	20	< 1	1.71	1.89	43	641	1	1.40	98	0.071	10	15	0.28	18	299	< 2	0.40	< 5
262004	0.9	< 1	8	< 1	0.06	< 1	< 1	0.04	11.5	10	280	< 1	0.03	< 1	0.001	< 3	< 5	0.02	< 4	108	5	< 0.01	< 5
262005	< 0.3	28	128	59	4.89	22	2	2.67	2.07	52	744	< 1	1.98	98	0.065	6	6	0.20	21	321	< 2	0.29	< 5
262006	< 0.3	25	145	54	4.73	18	< 1	1.85	1.92	51	650	< 1	2.55	83	0.065	13	< 5	0.19	19	316	3	0.28	< 5
262007	< 0.3	25	185	58	4.80	19	2	2.07	2.15	38	742	< 1	2.48	94	0.068	10	5	0.28	19	409	10	0.38	6
262008	0.4	27	158	57	4.70	17	< 1	2.23	2.03	59	682	1	1.93	93	0.066	< 3	< 5	0.23	19	335	3	0.34	< 5
262009	< 0.3	25	150	52	4.45	21	1	2.04	1.98	45	652	< 1	2.44	96	0.064	6	< 5	0.17	18	367	5	0.32	< 5
262010	< 0.3	27	190	56	4.71	19	< 1	2.32	2.02	58	578	< 1	2.39	95	0.065	9	< 5	0.25	19	353	< 2	0.38	< 5
262011	0.5	25	219	51	4.34	15	< 1	1.37	2.14	40	596	< 1	2.98	86	0.063	13	< 5	0.25	16	379	< 2	0.24	< 5
262012	< 0.3	25	215	56	4.21	18	< 1	1.81	1.88	46	689	< 1	2.92	88	0.061	9	< 5	0.24	15	304	15	0.30	< 5

Results

Activation Laboratories Ltd.

Report: A16-07773

Analyte Symbol	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262468	< 10	9	< 5	38	115	72
262469	< 10	7	< 5	35	107	88
262470	< 10	7	< 5	27	120	96
262471	< 10	3	< 5	1	10	< 5
262472	< 10	13	5	16	116	164
262473	< 10	9	< 5	30	115	121
262474	< 10	6	< 5	36	115	73
262674	< 10	35	< 5	14	55	48
262675	< 10	69	< 5	16	53	79
262676	< 10	83	< 5	17	54	127
262677	< 10	81	< 5	17	55	131
262678	< 10	79	< 5	17	66	122
262679	< 10	73	< 5	14	55	123
262680	< 10	84	< 5	6	48	90
262681	< 10	111	< 5	16	82	42
262682	< 10	77	< 5	13	56	86
262683	< 10	71	< 5	14	53	60
262684	< 10	44	< 5	15	55	45
262685	< 10	42	< 5	13	54	39
262686	< 10	54	< 5	14	51	49
262687	< 10	79	< 5	15	57	63
262688	< 10	95	< 5	13	59	53
262001	< 10	112	< 5	10	69	105
262002	< 10	103	7	8	72	137
262003	< 10	134	73	13	77	132
262004	< 10	2	< 5	< 1	7	< 5
262005	< 10	105	< 5	14	80	105
262006	< 10	100	< 5	14	77	108
262007	< 10	122	< 5	14	76	142
262008	< 10	113	< 5	14	74	120
262009	< 10	106	< 5	13	72	120
262010	< 10	123	< 5	13	77	141
262011	< 10	114	< 5	12	74	110
262012	< 10	103	< 5	11	71	125

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas		29.7	2.5	1200	806	12	26	688	656	0.37	402	11	389	0.8	1530	0.80	5	6	24.0	< 10	9	0.03	< 10
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50
GXR-4 Meas		3.4	0.6	6440	138	287	30	44	63	2.81	98	< 10	46	1.4	24	0.91	13	54	3.15	10	< 1	1.71	53
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5
SDC-1 Meas																							
SDC-1 Cert																							
SDC-1 Meas																							
SDC-1 Cert																							
GXR-6 Meas		0.2	< 0.5	74	1100	1	16	103	117	7.43	239	< 10	977	0.9	< 2	0.14	13	83	6.13	20	< 1	1.21	< 10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
GXR-6 Meas		0.2	< 0.5	72	1080	2	16	101	117	7.36	254	< 10	959	0.9	< 2	0.14	12	83	6.16	20	< 1	1.20	< 10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
Oreas 72a (4 Acid Digest) Meas																							
Oreas 72a (4 Acid Digest) Cert																							
Oreas 72a (4 Acid Digest) Meas																							
Oreas 72a (4 Acid Digest) Cert																							
DNC-1a Meas																							
DNC-1a Cert																							
SBC-1 Meas																							
SBC-1 Cert																							
SBC-1 Meas																							
SBC-1 Cert																							
SdAR-M2 (U.S.G.S.) Meas																							
SdAR-M2 (U.S.G.S.) Cert																							
SdAR-M2 (U.S.G.S.) Meas																							
SdAR-M2 (U.S.G.S.) Cert																							
SF85 Meas	830																						
SF85 Cert	848																						
OxD128 Meas	416																						
OxD128 Cert	424.000																						
262473 Orig		< 0.2	< 0.5	12	577	< 1	< 1	< 2	74	2.13	< 2	< 10	145	< 0.5	< 2	1.66	12	3	5.12	10	< 1	0.46	14
262473 Dup		0.2	< 0.5	13	565	1	< 1	< 2	74	2.13	< 2	< 10	148	< 0.5	< 2	1.65	12	4	5.10	10	< 1	0.47	14
262474 Orig																							
262474 Dup																							
262676 Orig	< 5																						
262676 Dup	< 5																						
262686 Orig	< 5	< 0.2	< 0.5	33	918	< 1	22	2	45	2.70	< 2	< 10	66	< 0.5	< 2	2.43	13	72	3.76	< 10	< 1	0.28	12
262686 Dup	< 5	< 0.2	< 0.5	33	927	< 1	23	4	45	2.74	< 2	< 10	66	< 0.5	< 2	2.46	13	70	3.81	< 10	< 1	0.29	12
262687 Orig																							
262687 Dup																							
262001 Orig																							
262001 Dup																							

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
262008 Orig	5																						
262008 Dup	5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	11	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank																							

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.3	0.01	3	7	1	2	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	0.14	0.047	0.049	0.21	84	1	183	< 0.01	< 20	14	< 2	31	76	150	24	16	32.5	1.81	417	695	1	1380	0.85
GXR-1 Cert	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0	0.390	34.9	80.0	164	32.0	38.0	31.0	3.52	427	750	1.22	1380	0.960
GXR-4 Meas	1.66	0.136	0.132	1.73	< 2	7	74	0.14	< 20	3	4	< 10	76	< 10	11	10	3.3	6.85	92	215	2	20	1.06
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970	3.20	6.20	87.0	30.8	14.0	186	4.0	7.20	98.0	1640	1.90	19.0	1.01
SDC-1 Meas																		7.36	< 3	630	3		1.04
SDC-1 Cert																		8.34	0.220	630	3.00		1.00
SDC-1 Meas																		8.50	< 3	630	3		1.10
SDC-1 Cert																		8.34	0.220	630	3.00		1.00
GXR-6 Meas	0.44	0.071	0.037	0.01	5	21	27	< 20	3	< 2	< 10	172	< 10	5	9	0.4	6.61	348	> 1000	1	< 2	0.13	
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0	5.30	0.0180	2.20	1.54	186	1.90	14.0	110	1.30	17.7	330	1300	1.40	0.290	0.180	
GXR-6 Meas	0.44	0.071	0.037	0.02	3	20	27	< 20	< 1	< 2	< 10	169	< 10	4	10	0.4	12.0	256	> 1000	1	< 2	0.15	
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0	5.30	0.0180	2.20	1.54	186	1.90	14.0	110	1.30	17.7	330	1300	1.40	0.290	0.180	
Oreas 72a (4 Acid Digest) Meas																				3			
Oreas 72a (4 Acid Digest) Cert																				14.7			
Oreas 72a (4 Acid Digest) Meas																				< 3			
Oreas 72a (4 Acid Digest) Cert																				14.7			
DNC-1a Meas																					105		
DNC-1a Cert																					118		
SBC-1 Meas																				51	766	3	< 2
SBC-1 Cert																				25.7	788.0	3.20	0.70
SBC-1 Meas																				13	767	3	5
SBC-1 Cert																				25.7	788.0	3.20	0.70
SdAR-M2 (U.S.G.S.) Meas																					> 1000	8	< 2
SdAR-M2 (U.S.G.S.) Cert																					990	6.6	1.05
SdAR-M2 (U.S.G.S.) Meas																					993	8	< 2
SdAR-M2 (U.S.G.S.) Cert																					990	6.6	1.05
SF85 Meas																							
SF85 Cert																							
OxD128 Meas																							
OxD128 Cert																							
262473 Orig	0.73	0.251	0.144	0.03	< 2	13	14	0.19	< 20	6	< 2	< 10	11	< 10	24	8							
262473 Dup	0.73	0.245	0.145	0.03	< 2	13	14	0.20	< 20	< 1	< 2	< 10	11	< 10	23	8							
262474 Orig																	< 0.3	7.41	< 3	263	< 1	< 2	3.77
262474 Dup																	< 0.3	7.66	< 3	269	< 1	5	3.86
262676 Orig																							
262676 Dup																							
262686 Orig	1.20	0.215	0.044	< 0.01	< 2	8	53	0.19	< 20	< 1	< 2	< 10	65	< 10	8	4							
262686 Dup	1.21	0.217	0.045	< 0.01	< 2	9	54	0.20	< 20	7	< 2	< 10	66	< 10	8	4							
262687 Orig																	< 0.3	8.12	< 3	258	< 1	< 2	4.68
262687 Dup																	< 0.3	8.13	3	256	< 1	< 2	4.67
262001 Orig																	0.4	7.51	38	500	1	2	2.30
262001 Dup																	0.4	7.17	37	489	1	< 2	2.26

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca	
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.3	0.01	3	7	1	2	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	
262008 Orig																								
262008 Dup																								
Method Blank																								
Method Blank																								
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	
Method Blank	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1								
Method Blank	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	2	< 2	< 10	< 1	< 10	< 1	< 1								
Method Blank	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	1	< 2	< 10	< 1	< 10	< 1	< 1								
Method Blank	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	1	< 2	< 10	< 1	< 10	< 1	< 1								
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	

Analyte Symbol	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	4.1	6	12	1090	23.2	12	2	0.05	0.20	8	822	15	0.05	42	0.058	720	19	0.24	< 4	294	< 2	0.03	8
GXR-1 Cert	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520	41.0	0.0650	730	122	0.257	1.58	275	13.0	0.036	0.390
GXR-4 Meas	< 0.3	15	36	6430	2.97	19	< 1	3.77	1.67	11	151	351	0.54	47	0.130	50	< 5	1.77	8	214	4	0.29	< 5
GXR-4 Cert	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564	42.0	0.120	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20
SDC-1 Meas		19	51	29	4.89	22	< 1	1.58	0.97	34	896		1.50	36	0.054	20	< 5		16	169		0.26	< 5
SDC-1 Cert		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34.00	880.00		1.52	38.0	0.0690	25.00	0.54		17.00	180.00		0.606	0.70
SDC-1 Meas		19	55	29	4.84	22	< 1	2.70	1.01	34	901		1.54	40	0.056	21	< 5		17	175		0.21	< 5
SDC-1 Cert		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34.00	880.00		1.52	38.0	0.0690	25.00	0.54		17.00	180.00		0.606	0.70
GXR-6 Meas	0.9	14	104	69	5.35	27	< 1	1.45	0.29	32	1040	2	0.10	27	0.032	94	< 5	< 0.01	19	27	< 2		< 5
GXR-6 Cert	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104	27.0	0.0350	101	3.60	0.0160	27.6	35.0	0.0180		2.20
GXR-6 Meas	< 0.3	15	71	73	5.60	28	2	1.77	0.56	32	1090	< 1	0.10	28	0.033	96	< 5	0.02	27	34	< 2		< 5
GXR-6 Cert	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104	27.0	0.0350	101	3.60	0.0160	27.6	35.0	0.0180		2.20
Oreas 72a (4 Acid Digest) Meas		160	208	326	9.94									6730				1.66					
Oreas 72a (4 Acid Digest) Cert		157	228	316	9.63									6930.000				1.74					
Oreas 72a (4 Acid Digest) Meas		144	186	318	9.38									6450				1.59					
Oreas 72a (4 Acid Digest) Cert		157	228	316	9.63									6930.000				1.74					
DNC-1a Meas		56	200	98		13				5				254		< 3	< 5		32	131		0.28	
DNC-1a Cert		57.0	270	100.00		15				5.20				247		6.3	0.96		31	144.0		0.29	
SBC-1 Meas	0.9	24	106	36		27				158				86		33	< 5		21	181		0.50	< 5
SBC-1 Cert	0.40	22.7	109	31.0000		27.0				163.0		2.40		82.8		35.0	1.01		20.0	178.0		0.51	0.89
SBC-1 Meas	< 0.3	25	91	34		28				161				87		20	< 5		21	175		0.53	6
SBC-1 Cert	0.40	22.7	109	31.0000		27.0				163.0		2.40		82.8		35.0	1.01		20.0	178.0		0.51	0.89
SdAR-M2 (U.S.G.S.) Meas	5.4	15	55	238		17	1			18		13		52		825			4	139			
SdAR-M2 (U.S.G.S.) Cert	5.1	12.4	49.6	236.0000		17.6	1.44			17.9		13.3		48.8		808			4.1	144			
SdAR-M2 (U.S.G.S.) Meas	5.6	14	44	243		18	1			18		14		54		822			5	146			
SdAR-M2 (U.S.G.S.) Cert	5.1	12.4	49.6	236.0000		17.6	1.44			17.9		13.3		48.8		808			4.1	144			
SF85 Meas																							
SF85 Cert																							
OxD128 Meas																							
OxD128 Cert																							
262473 Orig																							
262473 Dup																							
262474 Orig	< 0.3	17	10	15	6.77	19	3	1.41	1.01	23	1040	< 1	2.13	2	0.132	< 3	< 5	0.06	18	141	< 2	0.17	< 5
262474 Dup	< 0.3	16	15	15	6.88	19	< 1	1.42	1.03	22	1050	< 1	2.17	2	0.134	< 3	< 5	0.06	19	146	8	0.16	< 5
262676 Orig																							
262676 Dup																							
262686 Orig																							
262686 Dup																							
262687 Orig	< 0.3	18	64	36	5.67	18	< 1	1.54	1.39	22	2220	< 1	1.64	40	0.044	< 3	< 5	< 0.01	16	132	14	0.26	< 5
262687 Dup	< 0.3	15	66	36	5.64	18	< 1	1.53	1.39	22	2180	< 1	1.63	40	0.043	< 3	< 5	< 0.01	16	132	< 2	0.23	< 5
262001 Orig	< 0.3	25	223	56	4.39	21	< 1	1.25	1.97	33	716	1	3.29	84	0.062	12	13	0.23	17	466	9	0.36	< 5
262001 Dup	0.9	26	222	54	4.33	20	< 1	1.26	1.96	32	708	< 1	3.30	82	0.062	14	13	0.23	16	436	9	0.36	< 5

Analyte Symbol	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262008 Orig																							
262008 Dup																							
Method Blank																							
Method Blank																							
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		3	< 0.01	< 1	1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5

Analyte Symbol	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	30	83	156	34	719	31
GXR-1 Cert	34.9	80.0	164	32.0	760	38.0
GXR-4 Meas	< 10	86	36	15	68	46
GXR-4 Cert	6.20	87.0	30.8	14.0	73.0	186
SDC-1 Meas	< 10	63	< 5		97	47
SDC-1 Cert	3.10	102.00	0.80		103.00	290.00
SDC-1 Meas	< 10	49	< 5		99	31
SDC-1 Cert	3.10	102.00	0.80		103.00	290.00
GXR-6 Meas	< 10	198	< 5	7	124	103
GXR-6 Cert	1.54	186	1.90	14.0	118	110
GXR-6 Meas	< 10	116	< 5	12	129	65
GXR-6 Cert	1.54	186	1.90	14.0	118	110
Oreas 72a (4 Acid Digest) Meas						
Oreas 72a (4 Acid Digest) Cert						
Oreas 72a (4 Acid Digest) Meas						
Oreas 72a (4 Acid Digest) Cert						
DNC-1a Meas		143		17	59	37
DNC-1a Cert		148.0000		18.0	70.0	38.0
SBC-1 Meas	< 10	212	5	36	178	124
SBC-1 Cert	5.76	220.0	1.60	36.5	186.0	134.0
SBC-1 Meas	< 10	214	< 5	32	172	124
SBC-1 Cert	5.76	220.0	1.60	36.5	186.0	134.0
SdAR-M2 (U.S.G.S.) Meas	< 10	27	12	28	800	124
SdAR-M2 (U.S.G.S.) Cert	2.53	25.2	2.8	32.7	760	259
SdAR-M2 (U.S.G.S.) Meas	< 10	26	11	30	776	123
SdAR-M2 (U.S.G.S.) Cert	2.53	25.2	2.8	32.7	760	259
SF85 Meas						
SF85 Cert						
OxD128 Meas						
OxD128 Cert						
262473 Orig						
262473 Dup						
262474 Orig	< 10	7	< 5	36	114	81
262474 Dup	< 10	6	< 5	37	116	66
262676 Orig						
262676 Dup						
262686 Orig						
262686 Dup						
262687 Orig	< 10	81	< 5	15	57	66
262687 Dup	< 10	76	< 5	15	57	61
262001 Orig	< 10	113	9	15	70	141

Analyte Symbol	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262001 Dup	< 10	112	9	14	70	138
262008 Orig						
262008 Dup						
Method Blank						
Method Blank						
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank						
Method Blank						
Method Blank						
Method Blank						
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5



Date Submitted: 04-Aug-16
Invoice No.: A16-07642
Invoice Date: 31-Aug-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

34 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-50-Geraldton Au - Fire Assay AA

REPORT **A16-07642**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.



CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé".

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
801 Main Street, P.O. Box 999, Geraldton, Ontario, Canada, P0T 1M0
TELEPHONE +807 854-2020 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Geraldton@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Date Submitted: 04-Aug-16
Invoice No.: A16-07642
Invoice Date: 31-Aug-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

34 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1E3-Tbay Aqua Regia ICP(AQUAGEO)

Code 1F2-Tbay Total Digestion ICP(TOTAL)

REPORT **A16-07642**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:



Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
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E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A16-07642

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
262653	< 5	< 0.2	< 0.5	47	442	< 1	38	7	57	2.23	< 2	< 10	95	< 0.5	< 2	1.48	16	81	3.13	< 10	< 1	0.28	12
262654	< 5	< 0.2	< 0.5	48	463	< 1	36	< 2	49	2.31	2	< 10	39	< 0.5	< 2	1.89	16	72	3.13	< 10	< 1	0.15	12
262655	< 5	< 0.2	< 0.5	47	465	< 1	35	4	51	2.54	< 2	< 10	53	< 0.5	< 2	1.83	15	75	3.12	< 10	< 1	0.19	12
262656	< 5	< 0.2	< 0.5	47	471	< 1	33	< 2	46	2.33	< 2	< 10	64	< 0.5	< 2	1.49	15	74	3.13	< 10	< 1	0.20	12
262657	< 5	< 0.2	< 0.5	43	483	< 1	37	< 2	47	2.31	< 2	< 10	39	< 0.5	< 2	1.55	15	77	3.39	< 10	< 1	0.15	12
262658	< 5	< 0.2	< 0.5	48	429	< 1	35	2	46	2.01	< 2	< 10	67	< 0.5	< 2	1.42	14	76	3.05	< 10	< 1	0.29	12
262659	< 5	< 0.2	< 0.5	63	468	< 1	36	< 2	52	1.99	< 2	< 10	102	< 0.5	< 2	1.42	15	78	3.12	< 10	< 1	0.36	12
262660	< 5	< 0.2	< 0.5	44	407	< 1	29	2	41	1.84	< 2	< 10	58	< 0.5	< 2	1.68	12	68	2.52	< 10	< 1	0.23	12
262661	497	< 0.2	< 0.5	44	547	4	12	11	42	2.36	155	< 10	127	< 0.5	< 2	1.64	9	30	3.77	< 10	< 1	0.15	< 10
262662	< 5	< 0.2	< 0.5	43	450	< 1	33	< 2	52	2.40	< 2	< 10	76	< 0.5	< 2	1.48	15	74	3.31	< 10	< 1	0.31	12
262663	< 5	< 0.2	< 0.5	53	486	< 1	35	< 2	50	3.10	< 2	< 10	105	< 0.5	< 2	2.19	15	70	3.32	< 10	< 1	0.38	12
262664	< 5	< 0.2	< 0.5	44	442	< 1	31	< 2	45	2.86	< 2	< 10	99	< 0.5	< 2	2.03	14	68	3.13	< 10	< 1	0.42	12
262665	< 5	< 0.2	< 0.5	52	446	< 1	34	< 2	49	2.61	< 2	< 10	104	< 0.5	< 2	2.06	15	70	3.20	< 10	< 1	0.49	12
262666	< 5	< 0.2	< 0.5	46	466	< 1	36	< 2	53	2.82	< 2	< 10	122	< 0.5	< 2	1.80	15	73	3.35	10	< 1	0.57	12
262667	< 5	< 0.2	< 0.5	50	486	< 1	30	< 2	49	2.29	< 2	< 10	88	< 0.5	< 2	1.84	14	69	3.16	< 10	< 1	0.43	12
262668	< 5	< 0.2	< 0.5	39	424	< 1	32	2	41	2.50	< 2	< 10	62	< 0.5	< 2	2.27	14	56	2.88	< 10	< 1	0.27	< 10
262669	< 5	< 0.2	< 0.5	40	509	< 1	37	< 2	49	3.15	< 2	< 10	87	< 0.5	< 2	2.13	16	66	3.42	10	< 1	0.44	< 10
262670	< 5	< 0.2	< 0.5	43	499	< 1	34	< 2	48	3.14	< 2	< 10	86	< 0.5	< 2	2.59	17	65	3.34	< 10	< 1	0.38	< 10
262671	< 5	< 0.2	< 0.5	< 1	230	< 1	< 1	4	5	0.03	2	26	87	< 0.5	< 2	12.7	< 1	< 1	0.05	< 10	< 1	0.02	< 10
262672	< 5	< 0.2	< 0.5	39	491	< 1	31	< 2	41	2.89	< 2	< 10	49	< 0.5	< 2	2.54	14	64	3.16	10	< 1	0.23	12
262673	< 5	< 0.2	< 0.5	41	546	< 1	32	< 2	49	2.68	< 2	< 10	81	< 0.5	< 2	2.03	15	73	3.35	< 10	< 1	0.37	12
262455	< 5	< 0.2	< 0.5	18	745	< 1	1	2	72	2.27	< 2	< 10	95	< 0.5	< 2	1.90	13	4	5.54	10	< 1	0.36	13
262456	< 5	< 0.2	< 0.5	24	858	< 1	< 1	< 2	89	2.46	< 2	< 10	184	< 0.5	< 2	2.10	14	5	5.83	10	< 1	0.68	14
262457	< 5	< 0.2	< 0.5	30	722	< 1	1	< 2	85	2.48	< 2	< 10	204	< 0.5	< 2	1.71	14	3	5.68	10	< 1	0.69	13
262458	< 5	< 0.2	< 0.5	36	591	< 1	24	< 2	52	1.99	< 2	< 10	94	< 0.5	< 2	1.81	14	34	4.21	< 10	< 1	0.40	11
262459	< 5	< 0.2	< 0.5	37	761	< 1	1	3	92	2.27	< 2	< 10	124	< 0.5	< 2	1.99	15	5	5.62	10	< 1	0.37	14
262460	< 5	< 0.2	< 0.5	18	632	< 1	< 1	< 2	52	1.66	< 2	< 10	96	0.7	< 2	2.56	13	6	5.23	< 10	< 1	0.28	13
262461	411	< 0.2	< 0.5	45	558	4	14	9	42	2.39	154	< 10	130	< 0.5	< 2	1.70	9	31	3.82	< 10	< 1	0.15	< 10
262462	< 5	< 0.2	< 0.5	24	743	< 1	< 1	3	84	2.40	< 2	< 10	127	< 0.5	< 2	1.99	16	4	5.84	< 10	< 1	0.52	14
262463	< 5	< 0.2	< 0.5	23	837	< 1	< 1	< 2	83	2.42	< 2	< 10	137	< 0.5	< 2	1.98	14	5	5.84	10	< 1	0.49	14
262464	< 5	< 0.2	< 0.5	21	804	< 1	1	2	85	2.29	< 2	< 10	148	< 0.5	< 2	1.78	13	6	5.72	< 10	< 1	0.48	15
262465	< 5	< 0.2	< 0.5	12	811	< 1	1	< 2	77	2.31	< 2	< 10	175	< 0.5	< 2	1.82	12	6	5.57	< 10	< 1	0.39	14
262466	< 5	< 0.2	< 0.5	37	836	< 1	1	3	80	2.46	< 2	< 10	120	< 0.5	< 2	1.98	14	9	6.14	10	< 1	0.36	15
262467	< 5	< 0.2	< 0.5	21	718	< 1	27	< 2	62	2.06	< 2	< 10	50	< 0.5	< 2	2.34	17	33	4.75	< 10	< 1	0.31	11

Results

Activation Laboratories Ltd.

Report: A16-07642

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.3	0.01	3	7	1	2	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262653	1.45	0.225	0.051	0.02	< 2	10	25	0.21	< 20	< 1	< 2	< 10	75	< 10	9	15	0.3	7.57	< 3	201	< 1	< 2	3.58
262654	1.42	0.187	0.049	0.01	2	9	34	0.20	< 20	1	< 2	< 10	71	< 10	8	12	0.4	8.21	< 3	163	< 1	< 2	4.19
262655	1.43	0.262	0.050	< 0.01	< 2	9	44	0.20	< 20	< 1	< 2	< 10	68	< 10	7	10	0.3	5.45	< 3	181	< 1	< 2	3.89
262656	1.43	0.255	0.049	< 0.01	< 2	10	33	0.19	< 20	< 1	< 2	< 10	69	< 10	8	13	< 0.3	5.47	5	178	< 1	< 2	3.45
262657	1.57	0.195	0.050	< 0.01	< 2	10	33	0.19	< 20	6	< 2	< 10	71	< 10	9	13	< 0.3	5.32	< 3	175	< 1	< 2	3.28
262658	1.37	0.209	0.048	< 0.01	< 2	10	25	0.20	< 20	< 1	< 2	< 10	69	< 10	9	12	0.3	5.57	< 3	160	< 1	< 2	3.44
262659	1.41	0.171	0.049	0.01	< 2	10	31	0.23	< 20	2	< 2	< 10	74	< 10	9	15	< 0.3	5.38	< 3	218	< 1	< 2	3.48
262660	1.14	0.155	0.046	< 0.01	< 2	8	35	0.20	< 20	3	< 2	< 10	62	< 10	8	10	< 0.3	8.16	4	182	< 1	< 2	4.42
262661	0.79	0.219	0.051	0.05	3	7	82	0.17	< 20	< 1	< 2	< 10	88	< 10	9	5	< 0.3	3.51	139	410	< 1	< 2	3.03
262662	1.57	0.208	0.047	< 0.01	< 2	10	30	0.19	< 20	< 1	< 2	< 10	74	< 10	8	11	0.3	6.39	< 3	161	< 1	< 2	3.35
262663	1.39	0.435	0.048	< 0.01	< 2	10	49	0.20	< 20	10	< 2	< 10	72	< 10	8	6	0.5	7.93	< 3	181	< 1	< 2	4.35
262664	1.29	0.365	0.048	< 0.01	< 2	9	52	0.20	< 20	4	< 2	< 10	69	< 10	8	5	< 0.3	7.98	< 3	206	< 1	< 2	4.31
262665	1.33	0.335	0.047	< 0.01	< 2	10	32	0.20	< 20	5	< 2	< 10	69	< 10	9	5	< 0.3	5.38	6	157	< 1	< 2	4.24
262666	1.40	0.355	0.047	< 0.01	< 2	10	41	0.20	< 20	< 1	< 2	< 10	71	< 10	9	5	< 0.3	5.07	4	189	< 1	< 2	3.91
262667	1.31	0.259	0.046	< 0.01	< 2	10	32	0.21	< 20	4	3	< 10	70	< 10	9	6	< 0.3	8.19	< 3	136	< 1	< 2	4.49
262668	1.30	0.106	0.044	< 0.01	< 2	7	46	0.23	< 20	2	< 2	< 10	55	< 10	7	4	< 0.3	8.02	< 3	189	< 1	< 2	5.09
262669	1.57	0.244	0.049	< 0.01	2	8	49	0.23	< 20	8	< 2	< 10	68	< 10	7	3	< 0.3	4.82	< 3	212	< 1	< 2	3.72
262670	1.46	0.249	0.050	< 0.01	< 2	8	51	0.21	< 20	3	< 2	< 10	65	< 10	7	3	< 0.3	7.71	< 3	213	< 1	< 2	4.55
262671	9.37	0.020	0.004	< 0.01	< 2	< 1	118	< 0.01	< 20	5	< 2	< 10	< 1	< 10	< 1	< 1	< 0.3	0.06	< 3	73	< 1	< 2	16.7
262672	1.30	0.226	0.047	< 0.01	< 2	8	62	0.19	< 20	11	< 2	< 10	63	< 10	8	4	0.3	6.37	< 3	162	< 1	< 2	4.50
262673	1.42	0.284	0.047	< 0.01	< 2	10	36	0.21	< 20	< 1	< 2	< 10	72	< 10	9	4	< 0.3	4.22	< 3	175	< 1	< 2	3.85
262455	0.78	0.274	0.132	< 0.01	< 2	13	12	0.19	< 20	7	< 2	< 10	12	< 10	23	8	< 0.3	7.32	< 3	129	< 1	< 2	3.75
262456	0.79	0.241	0.143	0.08	< 2	13	21	0.21	< 20	< 1	< 2	< 10	12	< 10	24	6	< 0.3	7.50	< 3	195	< 1	3	4.04
262457	0.86	0.229	0.140	0.05	< 2	13	20	0.22	< 20	1	< 2	< 10	12	< 10	22	6	0.3	7.57	4	225	< 1	< 2	3.69
262458	1.32	0.230	0.094	0.04	< 2	12	11	0.20	< 20	< 1	< 2	< 10	45	< 10	14	7	< 0.3	7.69	< 3	123	< 1	< 2	4.33
262459	0.81	0.256	0.140	0.32	< 2	13	16	0.18	< 20	< 1	3	< 10	13	< 10	23	8	< 0.3	7.48	< 3	147	< 1	6	4.09
262460	0.79	0.181	0.111	0.12	< 2	11	35	0.15	< 20	< 1	< 2	< 10	19	< 10	25	10	< 0.3	6.93	< 3	141	2	< 2	4.34
262461	0.80	0.228	0.051	0.05	< 2	8	84	0.17	< 20	3	< 2	< 10	91	< 10	9	5	< 0.3	7.75	114	443	< 1	< 2	3.79
262462	0.81	0.267	0.146	0.27	< 2	14	19	0.21	< 20	10	< 2	< 10	12	< 10	25	6	0.4	7.00	< 3	150	< 1	3	3.99
262463	0.81	0.286	0.145	0.13	< 2	14	14	0.19	< 20	< 1	2	< 10	12	< 10	24	7	< 0.3	7.34	< 3	132	< 1	3	3.99
262464	0.78	0.263	0.147	0.08	< 2	13	11	0.18	< 20	8	< 2	< 10	11	< 10	23	7	< 0.3	7.59	< 3	143	< 1	3	3.89
262465	0.77	0.242	0.146	0.03	< 2	13	13	0.17	< 20	10	< 2	< 10	11	< 10	22	7	0.3	7.52	< 3	180	< 1	< 2	3.91
262466	0.87	0.246	0.151	0.04	< 2	14	21	0.19	< 20	1	< 2	< 10	11	< 10	23	7	< 0.3	7.29	< 3	153	< 1	4	3.73
262467	1.41	0.256	0.091	0.03	3	12	24	0.18	< 20	< 1	< 2	< 10	62	< 10	18	7	0.3	7.99	5	73	< 1	< 2	4.86

Results

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Analyte Symbol	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262653	< 0.3	18	94	45	3.47	18	1	0.68	1.54	19	606	< 1	2.69	52	0.046	< 3	< 5	0.02	13	144	< 2	0.24	< 5
262654	< 0.3	18	65	46	3.56	17	< 1	0.74	1.54	19	598	< 1	2.50	51	0.044	< 3	< 5	0.01	14	167	< 2	0.19	< 5
262655	0.3	20	91	43	3.60	16	< 1	0.63	1.48	17	627	< 1	2.32	50	0.043	< 3	< 5	< 0.01	10	166	6	0.29	< 5
262656	< 0.3	17	89	44	3.44	19	< 1	0.52	1.43	17	602	< 1	2.46	46	0.043	< 3	< 5	< 0.01	9	150	10	0.28	< 5
262657	< 0.3	18	102	40	3.62	17	< 1	0.60	1.54	21	597	< 1	2.58	47	0.044	< 3	< 5	< 0.01	10	141	3	0.29	< 5
262658	< 0.3	17	115	46	3.48	16	< 1	0.60	1.43	17	579	< 1	2.72	47	0.044	< 3	< 5	< 0.01	10	131	3	0.29	< 5
262659	< 0.3	18	87	60	3.43	21	< 1	0.66	1.37	19	623	< 1	2.99	47	0.044	< 3	< 5	< 0.01	9	132	9	0.29	< 5
262660	< 0.3	15	70	47	3.17	19	< 1	0.74	1.33	15	597	< 1	2.63	47	0.044	< 3	< 5	0.01	14	168	3	0.24	< 5
262661	< 0.3	13	43	40	3.97	15	< 1	0.79	1.08	7	847	4	2.25	21	0.044	12	< 5	0.04	8	194	< 2	0.29	< 5
262662	< 0.3	16	95	40	3.41	15	< 1	0.75	1.52	23	561	< 1	2.39	44	0.042	< 3	< 5	< 0.01	12	128	14	0.30	< 5
262663	< 0.3	18	88	50	3.75	18	< 1	0.72	1.50	17	639	< 1	2.24	49	0.046	< 3	< 5	< 0.01	16	166	< 2	0.30	< 5
262664	0.4	17	77	49	3.57	16	< 1	0.95	1.42	18	589	< 1	2.15	44	0.045	< 3	< 5	< 0.01	15	158	< 2	0.25	< 5
262665	< 0.3	19	85	49	3.60	15	< 1	0.69	1.36	19	599	< 1	2.42	47	0.042	< 3	< 5	< 0.01	10	119	10	0.29	< 5
262666	< 0.3	18	96	44	3.73	18	< 1	0.81	1.40	24	601	< 1	2.31	48	0.044	< 3	< 5	< 0.01	9	136	10	0.29	< 5
262667	< 0.3	17	63	49	3.70	17	< 1	0.74	1.47	15	635	< 1	2.43	47	0.045	< 3	< 5	< 0.01	15	148	< 2	0.20	10
262668	< 0.3	16	57	38	3.46	19	< 1	1.07	1.30	20	551	< 1	1.94	46	0.041	< 3	< 5	< 0.01	15	137	< 2	0.13	< 5
262669	0.3	17	76	37	3.55	16	< 1	0.99	1.35	27	625	< 1	2.04	43	0.041	< 3	< 5	< 0.01	8	108	6	0.28	< 5
262670	< 0.3	17	86	40	3.55	17	< 1	1.05	1.40	21	593	< 1	1.76	47	0.045	< 3	< 5	< 0.01	14	132	9	0.23	< 5
262671	< 0.3	< 1	10	1	0.05	< 1	< 1	0.03	10.8	11	287	< 1	0.03	< 1	0.004	7	< 5	< 0.01	< 4	127	3	< 0.01	< 5
262672	< 0.3	16	89	37	3.50	15	< 1	0.88	1.30	19	637	1	2.16	43	0.041	< 3	< 5	< 0.01	11	156	2	0.29	< 5
262673	< 0.3	18	95	39	3.46	16	< 1	0.74	1.29	17	678	< 1	2.29	42	0.038	< 3	< 5	< 0.01	7	100	5	0.28	9
262455	< 0.3	16	8	19	6.87	21	1	0.59	0.93	19	1170	< 1	2.68	3	0.114	< 3	< 5	< 0.01	17	115	< 2	0.13	< 5
262456	0.3	17	13	24	6.65	19	< 1	0.91	0.84	21	1270	< 1	2.41	2	0.125	< 3	< 5	0.08	18	136	18	0.19	< 5
262457	< 0.3	16	16	39	6.67	20	2	0.98	0.94	24	1120	< 1	2.42	3	0.128	< 3	< 5	0.05	18	151	< 2	0.19	6
262458	< 0.3	23	41	36	5.96	17	< 1	0.67	1.91	20	1030	< 1	2.56	55	0.082	< 3	< 5	0.04	20	140	15	0.27	< 5
262459	0.3	18	31	37	7.05	20	3	0.56	0.97	18	1190	< 1	2.48	5	0.126	< 3	< 5	0.32	18	132	< 2	0.29	< 5
262460	< 0.3	15	21	19	6.22	18	1	0.67	0.92	24	935	< 1	2.88	8	0.095	< 3	< 5	0.12	15	139	< 2	0.16	< 5
262461	< 0.3	14	38	44	4.61	19	< 1	0.91	1.31	7	890	< 1	2.45	27	0.046	< 3	< 5	0.05	20	278	< 2	0.19	< 5
262462	0.3	18	11	23	6.59	20	1	0.74	0.84	19	1100	< 1	2.49	2	0.130	< 3	< 5	0.27	16	156	28	0.36	< 5
262463	< 0.3	17	18	23	6.91	19	2	0.62	0.91	19	1290	< 1	2.42	3	0.129	< 3	< 5	0.13	18	150	< 2	0.25	< 5
262464	< 0.3	16	15	21	7.17	20	3	0.63	0.92	21	1360	< 1	2.48	3	0.131	< 3	< 5	0.08	18	154	< 2	0.13	7
262465	< 0.3	17	17	14	7.04	18	< 1	0.53	0.91	19	1370	< 1	2.40	4	0.129	< 3	< 5	0.03	18	142	10	0.15	8
262466	< 0.3	14	12	36	7.35	19	< 1	0.55	0.98	19	1390	< 1	2.38	4	0.131	< 3	< 5	0.04	18	165	< 2	0.17	< 5
262467	< 0.3	25	45	21	6.78	20	< 1	0.58	2.06	23	1200	< 1	2.70	58	0.080	3	< 5	0.03	21	208	17	0.32	< 5

Results

Activation Laboratories Ltd.

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Analyte Symbol	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262653	< 10	75	< 5	13	67	109
262654	< 10	61	< 5	14	59	84
262655	< 10	91	< 5	11	60	93
262656	< 10	87	6	11	57	96
262657	< 10	93	< 5	11	54	96
262658	< 10	88	< 5	11	57	95
262659	< 10	91	< 5	10	60	101
262660	< 10	73	< 5	14	53	94
262661	< 10	120	< 5	10	54	27
262662	< 10	92	< 5	11	59	105
262663	< 10	91	< 5	15	60	138
262664	< 10	75	< 5	14	57	79
262665	< 10	88	< 5	11	59	67
262666	< 10	91	< 5	10	63	71
262667	< 10	53	< 5	14	57	65
262668	< 10	35	< 5	14	48	32
262669	< 10	91	< 5	10	54	34
262670	< 10	70	< 5	14	51	44
262671	< 10	3	< 5	< 1	9	< 5
262672	< 10	90	< 5	11	49	70
262673	< 10	91	< 5	7	57	64
262455	< 10	4	< 5	32	97	61
262456	< 10	7	< 5	36	105	63
262457	< 10	7	< 5	34	105	73
262458	< 10	47	< 5	24	75	71
262459	< 10	10	< 5	34	116	78
262460	< 10	15	< 5	32	71	81
262461	< 10	89	< 5	19	56	26
262462	< 10	12	< 5	31	101	95
262463	< 10	10	< 5	35	104	89
262464	< 10	5	< 5	35	109	58
262465	< 10	5	< 5	35	104	64
262466	< 10	6	< 5	36	100	64
262467	< 10	69	< 5	27	91	73

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas		29.7	2.5	1200	806	12	26	688	656	0.37	402	11	389	0.8	1530	0.80	5	6	24.0	< 10	9	0.03	< 10
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50
GXR-4 Meas		3.4	0.6	6440	138	287	30	44	63	2.81	98	< 10	46	1.4	24	0.91	13	54	3.15	10	< 1	1.71	53
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5
SDC-1 Meas																							
SDC-1 Cert																							
SDC-1 Meas																							
SDC-1 Cert																							
GXR-6 Meas		0.2	< 0.5	74	1100	1	16	103	117	7.43	239	< 10	977	0.9	< 2	0.14	13	83	6.13	20	< 1	1.21	< 10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
GXR-6 Meas		0.2	< 0.5	72	1080	2	16	101	117	7.36	254	< 10	959	0.9	< 2	0.14	12	83	6.16	20	< 1	1.20	< 10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
Oreas 72a (4 Acid Digest) Meas																							
Oreas 72a (4 Acid Digest) Cert																							
Oreas 72a (4 Acid Digest) Meas																							
Oreas 72a (4 Acid Digest) Cert																							
DNC-1a Meas																							
DNC-1a Cert																							
SBC-1 Meas																							
SBC-1 Cert																							
SBC-1 Meas																							
SBC-1 Cert																							
SdAR-M2 (U.S.G.S.) Meas																							
SdAR-M2 (U.S.G.S.) Cert																							
SdAR-M2 (U.S.G.S.) Meas																							
SdAR-M2 (U.S.G.S.) Cert																							
SF85 Meas	842																						
SF85 Cert	848																						
OxD128 Meas	423																						
OxD128 Cert	424.000																						
262654 Orig																							
262654 Dup																							
262662 Orig	< 5																						
262662 Dup	< 5																						
262665 Orig		< 0.2	< 0.5	53	450	< 1	34	< 2	50	2.63	< 2	< 10	106	< 0.5	< 2	2.07	16	71	3.22	< 10	< 1	0.49	12
262665 Dup		< 0.2	< 0.5	52	442	< 1	33	< 2	49	2.58	< 2	< 10	103	< 0.5	< 2	2.04	15	69	3.17	< 10	< 1	0.48	12
262668 Orig																							
262668 Dup																							
262672 Orig	< 5																						
262672 Dup	< 5																						
262460 Orig		< 0.2	< 0.5	17	630	< 1	< 1	5	52	1.65	< 2	< 10	95	0.7	< 2	2.55	13	6	5.22	< 10	< 1	0.28	13
262460 Dup		< 0.2	< 0.5	19	634	< 1	< 1	< 2	51	1.67	< 2	< 10	97	0.8	< 2	2.57	14	6	5.24	< 10	< 1	0.28	13

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
262463 Orig	< 5																						
262463 Dup	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	11	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank																							

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.3	0.01	3	7	1	2	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	0.14	0.047	0.049	0.21	84	1	183	< 0.01	< 20	14	< 2	31	76	150	24	16	32.5	1.81	417	695	1	1380	0.85
GXR-1 Cert	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0	0.390	34.9	80.0	164	32.0	38.0	31.0	3.52	427	750	1.22	1380	0.960
GXR-4 Meas	1.66	0.136	0.132	1.73	< 2	7	74	0.14	< 20	3	4	< 10	76	< 10	11	10	3.3	6.85	92	215	2	20	1.06
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970	3.20	6.20	87.0	30.8	14.0	186	4.0	7.20	98.0	1640	1.90	19.0	1.01
SDC-1 Meas																		7.36	< 3	630	3		1.04
SDC-1 Cert																		8.34	0.220	630	3.00		1.00
SDC-1 Meas																		8.50	< 3	630	3		1.10
SDC-1 Cert																		8.34	0.220	630	3.00		1.00
GXR-6 Meas	0.44	0.071	0.037	0.01	5	21	27		< 20	3	< 2	< 10	172	< 10	5	9	0.4	6.61	348	> 1000	1	< 2	0.13
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110	1.30	17.7	330	1300	1.40	0.290	0.180
GXR-6 Meas	0.44	0.071	0.037	0.02	3	20	27		< 20	< 1	< 2	< 10	169	< 10	4	10	0.4	12.0	256	> 1000	1	< 2	0.15
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110	1.30	17.7	330	1300	1.40	0.290	0.180
Oreas 72a (4 Acid Digest) Meas																				3			
Oreas 72a (4 Acid Digest) Cert																				14.7			
Oreas 72a (4 Acid Digest) Meas																				< 3			
Oreas 72a (4 Acid Digest) Cert																				14.7			
DNC-1a Meas																					105		
DNC-1a Cert																					118		
SBC-1 Meas																				51	766	3	< 2
SBC-1 Cert																				25.7	788.0	3.20	0.70
SBC-1 Meas																				13	767	3	5
SBC-1 Cert																				25.7	788.0	3.20	0.70
SdAR-M2 (U.S.G.S.) Meas																					> 1000	8	< 2
SdAR-M2 (U.S.G.S.) Cert																					990	6.6	1.05
SdAR-M2 (U.S.G.S.) Meas																					993	8	< 2
SdAR-M2 (U.S.G.S.) Cert																					990	6.6	1.05
SF85 Meas																							
SF85 Cert																							
OxD128 Meas																							
OxD128 Cert																							
262654 Orig																	0.4	8.09	< 3	162	< 1	< 2	4.16
262654 Dup																	0.4	8.33	< 3	165	< 1	< 2	4.22
262662 Orig																							
262662 Dup																							
262665 Orig	1.34	0.341	0.047	< 0.01	< 2	10	33	0.20	< 20	4	< 2	< 10	70	< 10	9	5							
262665 Dup	1.32	0.329	0.046	< 0.01	< 2	10	32	0.20	< 20	6	< 2	< 10	69	< 10	9	5							
262668 Orig																	< 0.3	8.03	< 3	189	< 1	< 2	5.10
262668 Dup																	< 0.3	8.00	< 3	189	< 1	< 2	5.08
262672 Orig																							
262672 Dup																							
262460 Orig	0.79	0.179	0.111	0.12	< 2	11	35	0.15	< 20	6	< 2	< 10	19	< 10	25	10							
262460 Dup	0.79	0.183	0.111	0.12	< 2	11	35	0.15	< 20	< 1	< 2	< 10	19	< 10	25	10							

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.3	0.01	3	7	1	2	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262463 Orig																							
262463 Dup																							
Method Blank																							
Method Blank																							
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	2	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	1	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	1	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01

Analyte Symbol	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	4.1	6	12	1090	23.2	12	2	0.05	0.20	8	822	15	0.05	42	0.058	720	19	0.24	< 4	294	< 2	0.03	8
GXR-1 Cert	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520	41.0	0.0650	730	122	0.257	1.58	275	13.0	0.036	0.390
GXR-4 Meas	< 0.3	15	36	6430	2.97	19	< 1	3.77	1.67	11	151	351	0.54	47	0.130	50	< 5	1.77	8	214	4	0.29	< 5
GXR-4 Cert	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564	42.0	0.120	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20
SDC-1 Meas		19	51	29	4.89	22	< 1	1.58	0.97	34	896		1.50	36	0.054	20	< 5		16	169		0.26	< 5
SDC-1 Cert		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34.00	880.00		1.52	38.0	0.0690	25.00	0.54		17.00	180.00		0.606	0.70
SDC-1 Meas		19	55	29	4.84	22	< 1	2.70	1.01	34	901		1.54	40	0.056	21	< 5		17	175		0.21	< 5
SDC-1 Cert		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34.00	880.00		1.52	38.0	0.0690	25.00	0.54		17.00	180.00		0.606	0.70
GXR-6 Meas	0.9	14	104	69	5.35	27	< 1	1.45	0.29	32	1040	2	0.10	27	0.032	94	< 5	< 0.01	19	27	< 2		< 5
GXR-6 Cert	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104	27.0	0.0350	101	3.60	0.0160	27.6	35.0	0.0180		2.20
GXR-6 Meas	< 0.3	15	71	73	5.60	28	2	1.77	0.56	32	1090	< 1	0.10	28	0.033	96	< 5	0.02	27	34	< 2		< 5
GXR-6 Cert	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104	27.0	0.0350	101	3.60	0.0160	27.6	35.0	0.0180		2.20
Oreas 72a (4 Acid Digest) Meas		160	208	326	9.94									6730				1.66					
Oreas 72a (4 Acid Digest) Cert		157	228	316	9.63									6930.000				1.74					
Oreas 72a (4 Acid Digest) Meas		144	186	318	9.38									6450				1.59					
Oreas 72a (4 Acid Digest) Cert		157	228	316	9.63									6930.000				1.74					
DNC-1a Meas		56	200	98		13				5				254		< 3	< 5		32	131		0.28	
DNC-1a Cert		57.0	270	100.00		15				5.20				247		6.3	0.96		31	144.0		0.29	
SBC-1 Meas	0.9	24	106	36		27				158				86		33	< 5		21	181		0.50	< 5
SBC-1 Cert	0.40	22.7	109	31.0000		27.0				163.0		2.40		82.8		35.0	1.01		20.0	178.0		0.51	0.89
SBC-1 Meas	< 0.3	25	91	34		28				161				87		20	< 5		21	175		0.53	6
SBC-1 Cert	0.40	22.7	109	31.0000		27.0				163.0		2.40		82.8		35.0	1.01		20.0	178.0		0.51	0.89
SdAR-M2 (U.S.G.S.) Meas	5.4	15	55	238		17	1			18		13		52		825			4	139			
SdAR-M2 (U.S.G.S.) Cert	5.1	12.4	49.6	236.0000		17.6	1.44			17.9		13.3		48.8		808			4.1	144			
SdAR-M2 (U.S.G.S.) Meas	5.6	14	44	243		18	1			18		14		54		822			5	146			
SdAR-M2 (U.S.G.S.) Cert	5.1	12.4	49.6	236.0000		17.6	1.44			17.9		13.3		48.8		808			4.1	144			
SF85 Meas																							
SF85 Cert																							
OxD128 Meas																							
OxD128 Cert																							
262654 Orig	< 0.3	17	75	47	3.51	17	2	0.74	1.52	19	596	< 1	2.46	51	0.045	< 3	< 5	0.01	14	165	7	0.24	< 5
262654 Dup	< 0.3	18	56	46	3.60	17	< 1	0.74	1.55	19	599	< 1	2.54	52	0.044	< 3	< 5	0.01	14	168	< 2	0.14	< 5
262662 Orig																							
262662 Dup																							
262665 Orig																							
262665 Dup																							
262668 Orig	< 0.3	15	56	38	3.47	20	< 1	1.08	1.30	20	553	< 1	1.94	47	0.040	< 3	< 5	< 0.01	15	140	< 2	0.12	< 5
262668 Dup	< 0.3	17	58	38	3.45	18	2	1.06	1.30	20	549	< 1	1.94	45	0.042	< 3	< 5	< 0.01	15	135	< 2	0.14	< 5
262672 Orig																							
262672 Dup																							
262460 Orig																							
262460 Dup																							

Analyte Symbol	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262463 Orig																							
262463 Dup																							
Method Blank																							
Method Blank																							
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		3	< 0.01	< 1	1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5

Analyte Symbol	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	30	83	156	34	719	31
GXR-1 Cert	34.9	80.0	164	32.0	760	38.0
GXR-4 Meas	< 10	86	36	15	68	46
GXR-4 Cert	6.20	87.0	30.8	14.0	73.0	186
SDC-1 Meas	< 10	63	< 5		97	47
SDC-1 Cert	3.10	102.00	0.80		103.00	290.00
SDC-1 Meas	< 10	49	< 5		99	31
SDC-1 Cert	3.10	102.00	0.80		103.00	290.00
GXR-6 Meas	< 10	198	< 5	7	124	103
GXR-6 Cert	1.54	186	1.90	14.0	118	110
GXR-6 Meas	< 10	116	< 5	12	129	65
GXR-6 Cert	1.54	186	1.90	14.0	118	110
Oreas 72a (4 Acid Digest) Meas						
Oreas 72a (4 Acid Digest) Cert						
Oreas 72a (4 Acid Digest) Meas						
Oreas 72a (4 Acid Digest) Cert						
DNC-1a Meas		143		17	59	37
DNC-1a Cert		148.0000		18.0	70.0	38.0
SBC-1 Meas	< 10	212	5	36	178	124
SBC-1 Cert	5.76	220.0	1.60	36.5	186.0	134.0
SBC-1 Meas	< 10	214	< 5	32	172	124
SBC-1 Cert	5.76	220.0	1.60	36.5	186.0	134.0
SdAR-M2 (U.S.G.S.) Meas	< 10	27	12	28	800	124
SdAR-M2 (U.S.G.S.) Cert	2.53	25.2	2.8	32.7	760	259
SdAR-M2 (U.S.G.S.) Meas	< 10	26	11	30	776	123
SdAR-M2 (U.S.G.S.) Cert	2.53	25.2	2.8	32.7	760	259
SF85 Meas						
SF85 Cert						
OxD128 Meas						
OxD128 Cert						
262654 Orig	< 10	77	< 5	14	59	94
262654 Dup	< 10	46	< 5	14	58	74
262662 Orig						
262662 Dup						
262665 Orig						
262665 Dup						
262668 Orig	< 10	33	< 5	14	48	32
262668 Dup	< 10	37	< 5	14	48	32
262672 Orig						
262672 Dup						
262460 Orig						

Analyte Symbol	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262460 Dup						
262463 Orig						
262463 Dup						
Method Blank						
Method Blank						
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank						
Method Blank						
Method Blank						
Method Blank						
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5



Date Submitted: 04-Aug-16
Invoice No.: A16-07641 (i)
Invoice Date: 31-Aug-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

34 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-50-Geraldton Au - Fire Assay AA

REPORT **A16-07641 (i)**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.



CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé".

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
801 Main Street, P.O. Box 999, Geraldton, Ontario, Canada, P0T 1M0
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E-MAIL Geraldton@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Date Submitted: 04-Aug-16
Invoice No.: A16-07641 (i)
Invoice Date: 31-Aug-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

34 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1E3-Tbay Aqua Regia ICP(AQUAGEO)

Code 1F2-Tbay Total Digestion ICP(TOTAL)

REPORT **A16-07641 (i)**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:



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Results

Activation Laboratories Ltd.

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Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
262619	< 5	< 0.2	< 0.5	62	685	< 1	32	< 2	50	2.29	< 2	< 10	75	< 0.5	< 2	1.44	14	64	3.89	< 10	< 1	0.47	12
262620	< 5	< 0.2	< 0.5	24	524	< 1	28	< 2	42	1.85	< 2	< 10	28	< 0.5	< 2	2.03	12	66	2.95	< 10	< 1	0.14	14
262621	438	< 0.2	< 0.5	45	526	3	11	9	40	2.35	153	< 10	127	< 0.5	< 2	1.62	9	30	3.79	< 10	< 1	0.15	< 10
262622	< 5	< 0.2	< 0.5	36	596	< 1	24	< 2	41	2.19	< 2	< 10	67	< 0.5	< 2	2.45	12	59	2.93	< 10	< 1	0.30	12
262623	< 5	< 0.2	< 0.5	57	759	< 1	34	< 2	69	3.56	< 2	< 10	120	< 0.5	< 2	3.05	16	70	4.02	10	< 1	0.63	12
262624	< 5	< 0.2	< 0.5	49	1170	< 1	51	< 2	55	2.80	< 2	< 10	31	< 0.5	< 2	3.29	26	67	5.05	< 10	< 1	0.18	11
262625	< 5	< 0.2	< 0.5	52	939	< 1	37	< 2	67	3.31	< 2	< 10	119	< 0.5	< 2	3.74	18	72	4.38	< 10	< 1	0.64	12
262626	< 5	< 0.2	< 0.5	54	1190	< 1	40	< 2	69	3.09	< 2	< 10	108	< 0.5	< 2	4.21	19	61	5.07	< 10	< 1	0.34	10
262627	6	< 0.2	< 0.5	128	829	< 1	28	4	53	2.24	< 2	< 10	48	< 0.5	< 2	3.79	13	59	3.18	< 10	< 1	0.22	12
262628	< 5	< 0.2	< 0.5	17	738	< 1	24	< 2	39	2.11	< 2	< 10	50	< 0.5	< 2	3.70	13	62	3.01	< 10	< 1	0.18	11
262629	< 5	< 0.2	< 0.5	42	1070	< 1	30	3	47	2.35	< 2	< 10	61	< 0.5	< 2	3.42	13	64	3.89	< 10	< 1	0.26	12
262630	< 5	< 0.2	< 0.5	39	1630	< 1	26	2	47	3.41	< 2	< 10	82	< 0.5	< 2	3.04	13	66	5.46	10	< 1	0.50	11
262631	< 5	< 0.2	< 0.5	< 1	215	< 1	1	5	8	0.05	< 2	27	100	< 0.5	< 2	13.1	< 1	< 1	0.06	< 10	< 1	0.03	< 10
262632	< 5	< 0.2	< 0.5	37	1880	< 1	32	< 2	49	4.11	< 2	< 10	102	< 0.5	< 2	3.99	14	64	5.87	< 10	< 1	0.70	10
262633	< 5	< 0.2	< 0.5	54	1850	< 1	29	< 2	48	3.64	< 2	< 10	46	< 0.5	< 2	3.48	14	59	6.23	10	< 1	0.26	< 10
262634	< 5	< 0.2	< 0.5	30	1050	< 1	34	< 2	47	3.28	< 2	< 10	56	< 0.5	< 2	2.93	16	64	4.73	10	< 1	0.24	11
262635	< 5	< 0.2	< 0.5	< 1	537	< 1	29	< 2	30	2.75	< 2	< 10	18	< 0.5	< 2	2.32	15	64	3.56	< 10	< 1	0.05	13
262636	< 5	< 0.2	< 0.5	20	634	3	28	< 2	33	2.24	< 2	< 10	21	< 0.5	< 2	2.21	13	59	3.39	< 10	< 1	0.07	11
262637	< 5	< 0.2	< 0.5	42	1380	< 1	39	< 2	51	2.97	< 2	< 10	60	< 0.5	< 2	3.20	15	60	5.10	< 10	< 1	0.23	< 10
262638	< 5	< 0.2	< 0.5	29	856	< 1	20	3	46	3.02	< 2	< 10	168	< 0.5	< 2	3.55	17	37	5.02	10	< 1	0.39	10
262639	< 5	< 0.2	< 0.5	45	921	< 1	21	< 2	57	2.96	< 2	< 10	220	< 0.5	< 2	2.76	19	43	5.29	< 10	< 1	0.24	11
262640	< 5	< 0.2	< 0.5	39	849	< 1	18	< 2	45	2.51	< 2	< 10	182	< 0.5	< 2	3.36	17	32	5.35	< 10	< 1	0.38	< 10
262641	1740	6.4	11.6	1190	540	73	39	192	2080	1.51	68	< 10	38	< 0.5	< 2	1.07	8	24	6.47	< 10	< 1	0.22	12
262642	< 5	< 0.2	< 0.5	26	793	< 1	18	< 2	39	2.73	< 2	< 10	384	< 0.5	< 2	3.40	13	37	4.99	< 10	< 1	0.35	< 10
262643	< 5	< 0.2	< 0.5	30	734	< 1	19	< 2	38	2.70	< 2	14	402	< 0.5	2	2.95	16	34	5.46	< 10	< 1	0.45	10
262644	< 5	< 0.2	< 0.5	29	2740	< 1	34	4	45	4.22	3	< 10	61	< 0.5	< 2	3.72	13	63	7.92	< 10	< 1	0.36	10
262645	28	< 0.2	< 0.5	17	1880	< 1	28	< 2	40	3.31	< 2	< 10	50	< 0.5	< 2	3.26	12	63	6.53	< 10	< 1	0.24	11
262646	< 5	< 0.2	< 0.5	41	1940	< 1	36	2	41	3.71	< 2	< 10	80	< 0.5	< 2	3.25	15	65	6.81	< 10	< 1	0.40	11
262647	52	< 0.2	< 0.5	43	1960	< 1	29	4	44	4.22	< 2	< 10	78	< 0.5	< 2	4.05	15	56	7.03	< 10	< 1	0.38	< 10
262648	< 5	< 0.2	< 0.5	37	475	< 1	39	6	55	1.90	< 2	< 10	66	< 0.5	< 2	2.48	14	73	2.76	< 10	< 1	0.23	11
262649	< 5	< 0.2	< 0.5	47	471	< 1	45	6	178	2.50	< 2	< 10	58	< 0.5	< 2	2.33	20	70	3.62	< 10	< 1	0.30	11
262650	< 5	< 0.2	< 0.5	39	519	< 1	34	3	69	2.54	< 2	< 10	39	< 0.5	< 2	2.47	15	70	3.33	< 10	< 1	0.19	11
262651	< 5	< 0.2	< 0.5	< 1	225	< 1	9	2	9	0.04	< 2	22	105	< 0.5	< 2	11.7	< 1	1	0.07	< 10	< 1	0.03	< 10
262652	< 5	< 0.2	< 0.5	50	434	< 1	36	6	86	2.50	< 2	< 10	43	< 0.5	< 2	2.27	16	77	3.14	< 10	< 1	0.15	12

Results

Activation Laboratories Ltd.

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Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.3	0.01	3	7	1	2	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262619	1.01	0.137	0.038	0.07	2	10	29	0.17	< 20	2	< 2	< 10	62	< 10	9	21	0.5	7.71	< 3	229	< 1	< 2	3.16
262620	1.12	0.167	0.050	< 0.01	< 2	9	29	0.17	< 20	4	< 2	< 10	63	< 10	9	17	< 0.3	8.26	< 3	124	< 1	< 2	4.43
262621	0.77	0.214	0.050	0.05	< 2	7	82	0.17	< 20	7	< 2	< 10	88	< 10	9	5	< 0.3	7.71	112	470	< 1	< 2	3.89
262622	1.10	0.260	0.044	< 0.01	< 2	9	38	0.17	< 20	< 1	< 2	< 10	59	< 10	8	10	0.3	7.38	< 3	130	< 1	< 2	4.71
262623	1.31	0.315	0.061	0.01	< 2	10	60	0.24	< 20	1	< 2	< 10	84	< 10	10	9	0.3	7.99	< 3	264	< 1	< 2	4.96
262624	1.17	0.134	0.057	< 0.01	< 2	9	37	0.20	< 20	3	2	< 10	68	< 10	10	8	< 0.3	7.27	< 3	206	< 1	< 2	5.02
262625	1.22	0.320	0.070	< 0.01	< 2	12	39	0.24	< 20	2	< 2	< 10	85	< 10	12	5	< 0.3	7.90	< 3	250	< 1	< 2	5.74
262626	0.91	0.227	0.075	0.03	3	10	46	0.23	< 20	< 1	< 2	< 10	76	< 10	11	4	< 0.3	7.24	< 3	341	< 1	< 2	6.13
262627	1.07	0.154	0.041	0.02	< 2	8	42	0.18	< 20	2	< 2	< 10	57	< 10	8	6	0.4	7.52	< 3	183	< 1	< 2	6.26
262628	1.18	0.106	0.038	< 0.01	< 2	8	49	0.18	< 20	1	< 2	< 10	60	< 10	8	13	0.4	7.52	< 3	240	< 1	< 2	5.70
262629	1.32	0.175	0.043	< 0.01	2	10	42	0.19	< 20	< 1	< 2	< 10	64	< 10	9	10	< 0.3	5.99	< 3	266	< 1	< 2	5.06
262630	1.26	0.177	0.049	< 0.01	4	11	40	0.21	< 20	8	< 2	< 10	67	< 10	11	10	0.3	7.40	< 3	305	< 1	< 2	4.60
262631	10.2	0.021	0.002	< 0.01	3	< 1	109	< 0.01	< 20	2	< 2	< 10	1	< 10	< 1	< 1	< 0.3	0.08	< 3	97	< 1	< 2	18.2
262632	1.43	0.280	0.048	< 0.01	3	10	47	0.20	< 20	5	< 2	< 10	65	< 10	10	9	< 0.3	7.09	< 3	306	< 1	< 2	5.06
262633	1.55	0.250	0.044	< 0.01	4	9	51	0.19	< 20	4	< 2	< 10	59	< 10	9	11	0.4	7.15	< 3	248	< 1	3	5.21
262634	1.58	0.203	0.043	< 0.01	< 2	9	89	0.18	< 20	< 1	< 2	< 10	62	< 10	9	12	0.5	7.73	< 3	257	< 1	< 2	4.78
262635	1.27	0.082	0.051	< 0.01	< 2	8	185	0.23	< 20	< 1	< 2	< 10	57	< 10	8	9	< 0.3	7.89	< 3	147	< 1	< 2	4.81
262636	1.23	0.140	0.049	< 0.01	< 2	8	111	0.21	< 20	8	< 2	< 10	56	< 10	8	12	0.4	7.93	< 3	123	< 1	< 2	4.48
262637	1.46	0.180	0.044	< 0.01	< 2	9	71	0.18	< 20	< 1	< 2	< 10	60	< 10	9	8	< 0.3	7.50	< 3	327	< 1	< 2	4.91
262638	1.34	0.102	0.082	< 0.01	4	9	76	0.02	< 20	1	< 2	< 10	58	< 10	10	2	< 0.3	7.33	4	306	< 1	< 2	4.26
262639	1.46	0.115	0.085	< 0.01	4	10	127	0.07	< 20	9	< 2	< 10	66	< 10	11	3	< 0.3	5.65	< 3	247	< 1	3	3.76
262640	1.36	0.087	0.078	0.01	< 2	10	95	0.02	< 20	< 1	< 2	< 10	57	< 10	9	2	< 0.3	7.37	< 3	261	< 1	< 2	4.21
262641	1.61	0.067	0.040	3.85	12	4	61	0.05	< 20	2	< 2	< 10	46	< 10	5	8	7.6	5.29	61	382	< 1	< 2	1.48
262642	1.21	0.078	0.083	0.01	< 2	9	157	0.03	< 20	3	< 2	< 10	53	< 10	10	2	< 0.3	7.43	< 3	442	< 1	< 2	4.29
262643	1.30	0.084	0.088	0.12	2	10	94	0.01	< 20	< 1	< 2	< 10	53	< 10	10	2	< 0.3	7.47	< 3	448	< 1	< 2	3.30
262644	1.50	0.337	0.043	0.20	< 2	9	48	0.15	< 20	6	< 2	< 10	58	< 10	7	17	0.3	6.77	< 3	112	< 1	< 2	5.18
262645	1.41	0.220	0.043	0.03	3	9	39	0.16	< 20	4	< 2	< 10	61	< 10	8	19	0.4	6.89	< 3	104	< 1	< 2	4.78
262646	1.42	0.341	0.044	0.22	2	10	33	0.16	< 20	< 1	< 2	< 10	68	< 10	9	19	< 0.3	7.03	< 3	140	< 1	< 2	5.33
262647	1.56	0.321	0.042	0.17	2	9	63	0.10	< 20	< 1	< 2	< 10	58	< 10	8	15	0.5	7.05	< 3	143	< 1	< 2	5.38
262648	1.02	0.132	0.048	0.05	2	9	38	0.21	< 20	< 1	< 2	< 10	64	< 10	8	17	0.4	7.62	4	270	< 1	< 2	4.11
262649	1.44	0.172	0.046	0.20	< 2	8	35	0.17	< 20	2	2	< 10	62	< 10	8	15	< 0.3	7.35	< 3	216	< 1	< 2	3.80
262650	1.30	0.177	0.045	0.03	< 2	8	55	0.20	< 20	< 1	< 2	< 10	65	< 10	8	5	< 0.3	7.74	< 3	247	< 1	< 2	4.16
262651	9.52	0.021	0.002	0.01	2	< 1	88	< 0.01	< 20	< 1	< 2	< 10	1	< 10	< 1	< 1	< 0.3	0.14	< 3	101	< 1	< 2	17.2
262652	1.26	0.156	0.052	0.03	3	8	52	0.24	< 20	< 1	< 2	< 10	68	< 10	9	9	< 0.3	8.37	< 3	268	< 1	< 2	4.35

Results

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Analyte Symbol	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262619	0.4	18	69	68	4.26	16	< 1	1.40	1.04	22	1040	< 1	2.16	46	0.037	< 3	< 5	0.07	15	169	4	0.28	< 5
262620	0.5	16	65	26	4.00	16	< 1	0.68	1.46	14	855	< 1	2.96	47	0.044	3	< 5	< 0.01	16	250	7	0.17	< 5
262621	0.3	14	32	45	4.83	15	< 1	0.89	1.35	7	936	< 1	2.60	26	0.044	11	< 5	0.05	21	304	< 2	0.15	9
262622	0.4	15	43	35	3.75	14	< 1	0.65	1.35	14	854	< 1	2.29	45	0.038	< 3	< 5	< 0.01	14	217	3	0.18	< 5
262623	< 0.3	20	66	55	4.40	17	< 1	1.33	1.34	22	1020	< 1	1.80	47	0.057	< 3	< 5	0.01	17	175	8	0.30	< 5
262624	0.7	30	65	52	5.64	19	< 1	1.21	1.16	22	1550	< 1	1.83	63	0.050	5	< 5	< 0.01	18	142	8	0.26	< 5
262625	< 0.3	23	65	51	5.02	17	< 1	1.18	1.30	24	1300	< 1	1.99	54	0.065	< 3	< 5	< 0.01	19	138	< 2	0.27	< 5
262626	0.5	23	63	52	5.98	17	< 1	1.10	0.98	18	1700	< 1	1.62	51	0.068	< 3	< 5	0.03	18	147	< 2	0.30	< 5
262627	0.9	18	56	121	4.00	19	< 1	0.94	1.30	13	1140	< 1	2.22	46	0.041	4	< 5	0.02	15	180	16	0.27	< 5
262628	1.0	16	75	18	3.63	19	< 1	1.02	1.35	15	969	< 1	2.75	41	0.037	< 3	< 5	< 0.01	15	186	< 2	0.26	< 5
262629	< 0.3	15	75	43	4.28	19	< 1	1.06	1.35	16	1350	< 1	2.33	45	0.040	< 3	< 5	< 0.01	12	187	< 2	0.25	< 5
262630	0.7	15	81	37	5.94	17	< 1	1.75	1.29	23	2170	< 1	1.31	42	0.046	< 3	< 5	< 0.01	17	118	2	0.27	< 5
262631	< 0.3	< 1	10	< 1	0.07	< 1	< 1	0.04	11.9	10	279	< 1	0.03	< 1	0.002	6	< 5	< 0.01	< 4	137	< 2	< 0.01	< 5
262632	0.9	16	55	35	6.18	16	< 1	1.88	1.41	28	2240	< 1	1.17	46	0.043	< 3	< 5	< 0.01	15	112	< 2	0.25	< 5
262633	1.6	23	52	91	7.47	16	2	1.35	1.75	20	2470	< 1	1.27	46	0.040	< 3	< 5	0.02	15	141	< 2	0.26	< 5
262634	0.5	19	57	31	5.43	14	< 1	1.21	1.69	23	1370	< 1	1.74	47	0.042	< 3	< 5	< 0.01	15	279	3	0.27	< 5
262635	0.3	18	62	2	4.64	16	< 1	0.91	1.56	17	798	< 1	2.67	46	0.047	< 3	< 5	< 0.01	16	448	4	0.28	10
262636	0.5	18	58	19	4.60	16	< 1	0.58	1.73	15	972	3	3.36	48	0.046	5	< 5	< 0.01	16	357	2	0.28	< 5
262637	< 0.3	19	53	45	5.94	18	< 1	1.41	1.62	18	1850	< 1	1.85	55	0.042	4	< 5	< 0.01	16	226	13	0.27	< 5
262638	0.5	19	45	31	5.07	19	< 1	1.23	1.33	26	894	< 1	1.66	31	0.074	4	< 5	< 0.01	15	181	5	0.25	< 5
262639	0.4	20	54	41	5.17	15	< 1	0.66	1.28	22	1020	2	2.33	34	0.077	< 3	< 5	< 0.01	11	284	2	0.46	< 5
262640	< 0.3	20	43	44	5.38	20	< 1	1.12	1.36	36	891	< 1	1.82	33	0.071	3	< 5	0.02	15	216	17	0.15	< 5
262641	12.7	12	29	1200	6.99	17	< 1	1.40	1.79	11	587	84	1.30	58	0.040	201	< 5	3.96	12	197	< 2	0.18	< 5
262642	< 0.3	16	54	25	5.05	20	< 1	0.94	1.20	27	836	< 1	2.29	31	0.074	< 3	< 5	0.01	15	291	< 2	0.13	< 5
262643	0.7	16	89	31	5.48	17	< 1	1.27	1.27	33	772	< 1	2.25	33	0.075	5	< 5	0.12	16	191	< 2	0.15	< 5
262644	1.2	16	59	29	9.44	16	< 1	0.66	1.65	25	4040	< 1	1.13	45	0.040	7	< 5	0.21	13	126	17	0.25	< 5
262645	1.1	15	105	17	7.33	16	< 1	0.52	1.50	20	2420	< 1	1.73	44	0.041	< 3	< 5	0.03	13	155	4	0.26	< 5
262646	0.7	17	77	43	8.23	14	3	0.67	1.73	18	2670	< 1	1.69	50	0.043	< 3	< 5	0.23	14	123	< 2	0.27	< 5
262647	1.3	18	72	44	8.41	15	< 1	0.93	1.77	22	2630	< 1	0.87	48	0.042	< 3	< 5	0.16	14	119	16	0.27	< 5
262648	< 0.3	14	63	35	2.82	18	< 1	1.12	1.00	15	551	< 1	2.92	46	0.044	81	< 5	0.05	13	187	5	0.24	7
262649	1.1	20	81	44	3.70	18	< 1	1.18	1.47	19	577	< 1	2.21	54	0.043	8	< 5	0.16	13	132	3	0.24	< 5
262650	0.3	17	71	40	3.68	16	< 1	1.16	1.38	21	646	< 1	2.31	47	0.042	3	< 5	0.03	14	203	< 2	0.16	< 5
262651	0.6	< 1	5	< 1	0.09	< 1	< 1	0.04	12.1	13	298	< 1	0.04	4	0.003	< 3	< 5	0.01	< 4	112	< 2	< 0.01	< 5
262652	0.3	17	64	49	3.45	19	< 1	1.12	1.28	18	542	< 1	2.62	51	0.048	4	< 5	0.04	14	208	< 2	0.20	< 5

Results

Activation Laboratories Ltd.

Report: A16-07641

Analyte Symbol	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262619	< 10	90	< 5	15	56	140
262620	< 10	51	5	16	58	105
262621	< 10	87	< 5	21	59	21
262622	< 10	59	< 5	14	55	89
262623	< 10	75	< 5	18	78	90
262624	< 10	75	< 5	19	63	80
262625	< 10	60	< 5	22	83	64
262626	< 10	76	< 5	21	86	44
262627	< 10	86	< 5	15	64	129
262628	< 10	89	< 5	14	48	132
262629	< 10	84	< 5	13	56	123
262630	< 10	88	< 5	17	53	139
262631	< 10	3	< 5	1	11	< 5
262632	< 10	82	< 5	16	54	133
262633	< 10	83	< 5	17	59	134
262634	< 10	87	< 5	15	54	140
262635	< 10	89	< 5	16	37	97
262636	< 10	95	8	16	45	140
262637	< 10	88	< 5	16	63	134
262638	< 10	58	< 5	19	53	17
262639	< 10	101	< 5	16	61	59
262640	< 10	36	< 5	18	52	18
262641	< 10	76	< 5	14	2320	65
262642	< 10	31	< 5	20	59	22
262643	< 10	53	< 5	20	42	21
262644	< 10	81	< 5	13	53	119
262645	< 10	82	< 5	14	48	125
262646	< 10	86	< 5	16	50	126
262647	< 10	91	< 5	15	59	123
262648	< 10	72	< 5	12	62	119
262649	< 10	73	< 5	13	188	109
262650	< 10	55	< 5	14	83	63
262651	< 10	3	< 5	< 1	9	< 5
262652	< 10	66	< 5	14	96	73

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas		29.0	2.2	1130	768	13	18	649	699	0.35	388	< 10	512	0.7	1470	0.77	2	7	23.1	< 10	3	0.03	< 10
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50
GXR-1 Meas		28.3	2.7	1150	768	13	21	636	628	0.35	388	< 10	474	0.8	1480	0.77	8	7	23.2	< 10	1	0.03	< 10
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50
GXR-1 Meas		29.3	2.5	1190	802	13	31	667	648	0.38	402	10	481	0.8	1530	0.81	7	6	23.9	< 10	4	0.04	< 10
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50
GXR-4 Meas		3.5	< 0.5	6800	140	298	34	47	72	2.90	100	< 10	77	1.4	7	0.96	13	56	3.25	10	< 1	1.74	51
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5
GXR-4 Meas		3.5	< 0.5	6770	142	307	34	46	68	2.91	104	< 10	45	1.4	13	0.97	13	55	3.29	10	< 1	1.76	52
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5
GXR-4 Meas		3.4	< 0.5	6670	139	304	32	43	65	2.84	101	< 10	29	1.4	19	0.94	14	54	3.22	10	< 1	1.72	54
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5
SDC-1 Meas																							
SDC-1 Cert																							
SDC-1 Meas																							
SDC-1 Cert																							
SDC-1 Meas																							
SDC-1 Cert																							
GXR-6 Meas		0.2	< 0.5	72	1040	1	15	96	126	7.31	218	< 10	949	0.8	< 2	0.13	12	81	5.98	20	< 1	1.18	< 10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
GXR-6 Meas		0.2	< 0.5	72	1040	< 1	17	98	114	7.27	255	< 10	954	0.9	< 2	0.13	13	81	5.96	20	< 1	1.20	< 10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
GXR-6 Meas		0.2	< 0.5	71	1020	< 1	18	98	113	7.11	233	< 10	931	0.8	< 2	0.13	13	80	5.89	20	< 1	1.15	< 10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
Oreas 72a (4 Acid Digest) Meas																							
Oreas 72a (4 Acid Digest) Cert																							
Oreas 72a (4 Acid Digest) Meas																							
Oreas 72a (4 Acid Digest) Cert																							
DNC-1a Meas																							
DNC-1a Cert																							
DNC-1a Meas																							
DNC-1a Cert																							
DNC-1a Meas																							
DNC-1a Cert																							
SBC-1 Meas																							
SBC-1 Cert																							
SBC-1 Meas																							
SBC-1 Cert																							
SBC-1 Meas																							
SBC-1 Cert																							
SdAR-M2 (U.S.G.S.) Meas			5.2	245		13	41	845	748				154	5.0	< 2		13	11		< 10	1		47
SdAR-M2 (U.S.G.S.) Cert			5.1	236.0000		13.3	48.8	808	760				990	6.6	1.05		12.4	49.6		17.6	1.44		46.6
SdAR-M2 (U.S.G.S.) Meas			5.2	256		13	43	897	791				161	5.1	< 2		14	10		< 10	1		51

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
SdAR-M2 (U.S.G.S.) Cert			5.1	236.0000		13.3	48.8	808	760				990	6.6	1.05		12.4	49.6		17.6	1.44		46.6
SdAR-M2 (U.S.G.S.) Meas																							
SdAR-M2 (U.S.G.S.) Cert																							
SF85 Meas	837																						
SF85 Cert	848																						
OxD128 Meas	410																						
OxD128 Cert	424.000																						
262620 Orig		< 0.2	< 0.5	24	519	< 1	27	< 2	42	1.85	< 2	< 10	28	< 0.5	< 2	2.02	12	65	2.93	< 10	< 1	0.13	14
262620 Dup		< 0.2	< 0.5	24	529	< 1	29	4	43	1.86	< 2	< 10	29	< 0.5	< 2	2.05	13	66	2.96	< 10	< 1	0.14	14
262625 Orig		< 0.2	< 0.5	52	947	< 1	37	< 2	76	3.45	< 2	< 10	120	< 0.5	< 2	3.85	18	72	4.45	10	< 1	0.64	12
262625 Dup		< 0.2	< 0.5	52	930	< 1	39	< 2	74	3.37	< 2	< 10	120	< 0.5	< 2	3.83	19	72	4.41	10	< 1	0.64	12
262628 Orig	< 5																						
262628 Dup	< 5																						
262632 Orig																							
262632 Dup																							
262638 Orig	< 5																						
262638 Dup	< 5																						
262639 Orig		< 0.2	< 0.5	44	919	< 1	20	2	57	2.99	3	< 10	221	< 0.5	< 2	2.79	19	43	5.33	< 10	< 1	0.24	11
262639 Dup		< 0.2	< 0.5	46	923	< 1	22	< 2	56	2.94	< 2	< 10	218	< 0.5	3	2.74	18	42	5.24	< 10	< 1	0.25	11
262646 Orig																							
262646 Dup																							
262648 Orig	< 5																						
262648 Dup	< 5																						
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	2	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank																							

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.3	0.01	3	7	1	2	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	0.13	0.046	0.047	0.21	88	1	174	< 0.01	< 20	14	4	29	73	143	23	16	31.4	2.01	430	688	1	1380	0.89
GXR-1 Cert	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0	0.390	34.9	80.0	164	32.0	38.0	31.0	3.52	427	750	1.22	1380	0.960
GXR-1 Meas	0.14	0.046	0.047	0.20	80	1	173	< 0.01	< 20	12	2	31	73	141	24	16	31.5	2.36	406	645	< 1	1380	0.85
GXR-1 Cert	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0	0.390	34.9	80.0	164	32.0	38.0	31.0	3.52	427	750	1.22	1380	0.960
GXR-1 Meas	0.15	0.049	0.049	0.21	90	1	183	< 0.01	< 20	15	5	31	75	154	24	16	32.1	2.12	406	663	< 1	1470	0.87
GXR-1 Cert	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0	0.390	34.9	80.0	164	32.0	38.0	31.0	3.52	427	750	1.22	1380	0.960
GXR-4 Meas	1.72	0.135	0.132	1.78	6	8	75	0.14	< 20	< 1	< 2	< 10	78	11	11	10	3.6	6.67	101	348	2	22	1.09
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970	3.20	6.20	87.0	30.8	14.0	186	4.0	7.20	98.0	1640	1.90	19.0	1.01
GXR-4 Meas	1.72	0.140	0.133	1.82	5	8	74	0.14	< 20	< 1	4	< 10	78	11	12	10	3.5	6.60	101	178	2	22	1.08
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970	3.20	6.20	87.0	30.8	14.0	186	4.0	7.20	98.0	1640	1.90	19.0	1.01
GXR-4 Meas	1.69	0.133	0.135	1.82	2	8	74	0.14	< 20	2	2	< 10	78	13	11	10	3.7	6.30	89	229	2	13	1.08
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970	3.20	6.20	87.0	30.8	14.0	186	4.0	7.20	98.0	1640	1.90	19.0	1.01
SDC-1 Meas																		7.57	< 3	630	3		1.04
SDC-1 Cert																		8.34	0.220	630	3.00		1.00
SDC-1 Meas																		8.01	< 3	630	3		1.10
SDC-1 Cert																		8.34	0.220	630	3.00		1.00
SDC-1 Meas																		7.70	< 3	606	3		1.05
SDC-1 Cert																		8.34	0.220	630	3.00		1.00
GXR-6 Meas	0.42	0.069	0.036	0.01	5	21	27		< 20	< 1	< 2	< 10	156	< 10	5	6	0.5	12.3	271	> 1000	1	< 2	0.16
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110	1.30	17.7	330	1300	1.40	0.290	0.180
GXR-6 Meas	0.43	0.070	0.037	0.01	6	21	27		< 20	< 1	< 2	< 10	169	< 10	5	13	0.4	12.4	229	> 1000	1	< 2	0.16
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110	1.30	17.7	330	1300	1.40	0.290	0.180
GXR-6 Meas	0.42	0.068	0.036	0.01	3	21	26		< 20	< 1	< 2	< 10	163	< 10	5	9	0.5	12.5	259	> 1000	1	< 2	0.16
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110	1.30	17.7	330	1300	1.40	0.290	0.180
Oreas 72a (4 Acid Digest) Meas																			< 3				
Oreas 72a (4 Acid Digest) Cert																			14.7				
Oreas 72a (4 Acid Digest) Meas																			< 3				
Oreas 72a (4 Acid Digest) Cert																			14.7				
DNC-1a Meas																					98		
DNC-1a Cert																					118		
DNC-1a Meas																					97		
DNC-1a Cert																					118		
DNC-1a Meas																					95		
DNC-1a Cert																					118		
SBC-1 Meas																				23	785	3	< 2
SBC-1 Cert																				25.7	788.0	3.20	0.70
SBC-1 Meas																				22	775	3	3
SBC-1 Cert																				25.7	788.0	3.20	0.70
SBC-1 Meas																				13	768	3	2
SBC-1 Cert																				25.7	788.0	3.20	0.70
SdAR-M2 (U.S.G.S.) Meas							3	22	< 20			< 10	18	< 10	18	8				> 1000	8	< 2	
SdAR-M2 (U.S.G.S.) Cert							4.1	144	14.2			2.53	25.2	2.8	32.7	259				990	6.6	1.05	
SdAR-M2 (U.S.G.S.) Meas							3	23	< 20			< 10	19	< 10	19	8				952	6	< 2	

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.3	0.01	3	7	1	2	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
SdAR-M2 (U.S.G.S.) Cert						4.1	144		14.2			2.53	25.2	2.8	32.7	259				990	6.6	1.05	
SdAR-M2 (U.S.G.S.) Meas																				984	7	< 2	
SdAR-M2 (U.S.G.S.) Cert																				990	6.6	1.05	
SF85 Meas																							
SF85 Cert																							
OxD128 Meas																							
OxD128 Cert																							
262620 Orig	1.11	0.164	0.050	< 0.01	< 2	9	28	0.17	< 20	2	< 2	< 10	62	< 10	9	17							
262620 Dup	1.14	0.169	0.051	< 0.01	< 2	9	29	0.17	< 20	6	< 2	< 10	63	< 10	9	17							
262625 Orig	1.23	0.335	0.070	< 0.01	< 2	12	42	0.24	< 20	4	< 2	< 10	86	< 10	13	5	< 0.3	7.98	4	252	< 1	< 2	5.77
262625 Dup	1.22	0.330	0.070	< 0.01	< 2	12	41	0.23	< 20	2	2	< 10	85	< 10	12	5	< 0.3	7.81	< 3	248	< 1	< 2	5.71
262628 Orig																							
262628 Dup																							
262632 Orig																	0.5	7.17	< 3	308	< 1	< 2	5.09
262632 Dup																	< 0.3	7.01	< 3	303	< 1	< 2	5.04
262638 Orig																							
262638 Dup																							
262639 Orig	1.47	0.115	0.086	< 0.01	3	10	128	0.06	< 20	5	< 2	< 10	66	< 10	11	3							
262639 Dup	1.45	0.115	0.085	< 0.01	4	10	126	0.07	< 20	12	< 2	< 10	65	< 10	11	3							
262646 Orig																	< 0.3	6.99	< 3	140	< 1	4	5.31
262646 Dup																	0.4	7.06	< 3	139	< 1	< 2	5.36
262648 Orig																							
262648 Dup																							
Method Blank	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank																							
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01

Analyte Symbol	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	0.7	7	21	1200	23.6	10	< 1	0.05	0.21	9	871	16	0.05	46	0.058	738	38	0.24	< 4	292	3	0.03	< 5
GXR-1 Cert	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520	41.0	0.0650	730	122	0.257	1.58	275	13.0	0.036	0.390
GXR-1 Meas	5.0	9	20	1130	23.1	16	< 1	0.05	0.20	8	864	14	0.05	42	0.057	723	51	0.24	< 4	287	22	0.03	< 5
GXR-1 Cert	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520	41.0	0.0650	730	122	0.257	1.58	275	13.0	0.036	0.390
GXR-1 Meas	4.4	9	24	1170	23.8	14	< 1	0.05	0.20	8	874	14	0.05	45	0.059	748	31	0.24	< 4	291	26	0.03	< 5
GXR-1 Cert	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520	41.0	0.0650	730	122	0.257	1.58	275	13.0	0.036	0.390
GXR-4 Meas	< 0.3	16	45	6740	3.08	19	< 1	3.76	1.71	12	179	351	0.56	47	0.131	49	< 5	1.79	8	219	3	0.29	< 5
GXR-4 Cert	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564	42.0	0.120	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20
GXR-4 Meas	0.3	15	36	6500	3.12	20	< 1	4.10	1.69	13	153	341	0.57	42	0.132	51	< 5	1.79	8	220	11	0.29	< 5
GXR-4 Cert	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564	42.0	0.120	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20
GXR-4 Meas	0.5	15	52	6170	3.18	16	< 1	3.97	1.69	11	166	341	0.57	41	0.131	61	< 5	1.77	8	212	4	0.27	< 5
GXR-4 Cert	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564	42.0	0.120	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20
SDC-1 Meas		19	49	27	4.60	24	< 1	1.80	0.97	34	874		1.50	37	0.052	21	< 5		16	167		0.10	< 5
SDC-1 Cert		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34.00	880.00		1.52	38.0	0.0690	25.00	0.54		17.00	180.00		0.606	0.70
SDC-1 Meas		19	44	32	4.87	23	< 1	2.76	0.99	33	895		1.56	29	0.053	23	< 5		16	174		0.17	< 5
SDC-1 Cert		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34.00	880.00		1.52	38.0	0.0690	25.00	0.54		17.00	180.00		0.606	0.70
SDC-1 Meas		18	67	28	4.66	20	< 1	2.68	0.95	31	856		1.51	42	0.051	20	< 5		16	173		0.10	< 5
SDC-1 Cert		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34.00	880.00		1.52	38.0	0.0690	25.00	0.54		17.00	180.00		0.606	0.70
GXR-6 Meas	< 0.3	16	67	71	5.86	30	< 1	1.40	0.60	34	1080	4	0.10	29	0.036	99	< 5	0.02	26	35	6		< 5
GXR-6 Cert	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104	27.0	0.0350	101	3.60	0.0160	27.6	35.0	0.0180		2.20
GXR-6 Meas	0.8	15	63	70	5.81	31	< 1	1.95	0.58	31	1080	1	0.10	29	0.035	97	< 5	0.01	28	36	12		< 5
GXR-6 Cert	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104	27.0	0.0350	101	3.60	0.0160	27.6	35.0	0.0180		2.20
GXR-6 Meas	1.2	15	64	73	5.98	30	6	1.96	0.60	32	1080	< 1	0.10	28	0.036	104	< 5	0.02	26	36	< 2		< 5
GXR-6 Cert	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104	27.0	0.0350	101	3.60	0.0160	27.6	35.0	0.0180		2.20
Oreas 72a (4 Acid Digest) Meas		153	194	329	9.75									6420				1.62					
Oreas 72a (4 Acid Digest) Cert		157	228	316	9.63									6930.000				1.74					
Oreas 72a (4 Acid Digest) Meas		160	189	336	9.67									6720				1.66					
Oreas 72a (4 Acid Digest) Cert		157	228	316	9.63									6930.000				1.74					
DNC-1a Meas		56	202	97		14				5				258		5	< 5		32	130		0.29	
DNC-1a Cert		57.0	270	100.00		15				5.20				247		6.3	0.96		31	144.0		0.29	
DNC-1a Meas		56	198	99		13				5				261		3	< 5		31	127		0.28	
DNC-1a Cert		57.0	270	100.00		15				5.20				247		6.3	0.96		31	144.0		0.29	
DNC-1a Meas		56	234	101		13				5				255		5	< 5		30	130		0.28	
DNC-1a Cert		57.0	270	100.00		15				5.20				247		6.3	0.96		31	144.0		0.29	
SBC-1 Meas	< 0.3	24	83	27		27				159		2		86		33	< 5		20	174		0.53	< 5
SBC-1 Cert	0.40	22.7	109	31.0000		27.0				163.0		2.40		82.8		35.0	1.01		20.0	178.0		0.51	0.89
SBC-1 Meas	1.0	24	89	32		27				156		2		89		26	< 5		20	177		0.51	< 5
SBC-1 Cert	0.40	22.7	109	31.0000		27.0				163.0		2.40		82.8		35.0	1.01		20.0	178.0		0.51	0.89
SBC-1 Meas	0.9	24	100	32		28				154		1		87		30	< 5		20	180		0.52	< 5
SBC-1 Cert	0.40	22.7	109	31.0000		27.0				163.0		2.40		82.8		35.0	1.01		20.0	178.0		0.51	0.89
SdAR-M2 (U.S.G.S.) Meas	5.2	15	48	247		20	1			18		12		55		802			4	146			
SdAR-M2 (U.S.G.S.) Cert	5.1	12.4	49.6	236.0000		17.6	1.44			17.9		13.3		48.8		808			4.1	144			
SdAR-M2 (U.S.G.S.) Meas	5.0	13	54	229		16	2			18		12		51		819			4	141			

Analyte Symbol	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
SdAR-M2 (U.S.G.S.) Cert	5.1	12.4	49.6	236.0000		17.6	1.44			17.9		13.3		48.8		808			4.1	144			
SdAR-M2 (U.S.G.S.) Meas	5.5	14	39	241		17	< 1			17		9		51		822			5	151			
SdAR-M2 (U.S.G.S.) Cert	5.1	12.4	49.6	236.0000		17.6	1.44			17.9		13.3		48.8		808			4.1	144			
SF85 Meas																							
SF85 Cert																							
OxD128 Meas																							
OxD128 Cert																							
262620 Orig																							
262620 Dup																							
262625 Orig	< 0.3	23	65	51	5.04	18	< 1	1.19	1.31	24	1310	< 1	2.00	55	0.066	< 3	< 5	0.01	19	140	7	0.29	< 5
262625 Dup	< 0.3	23	66	50	4.99	16	< 1	1.17	1.30	24	1290	< 1	1.98	54	0.065	14	< 5	< 0.01	19	136	< 2	0.24	< 5
262628 Orig																							
262628 Dup																							
262632 Orig	0.8	16	62	36	6.27	16	< 1	1.90	1.43	29	2240	< 1	1.19	46	0.043	< 3	< 5	< 0.01	15	112	< 2	0.25	< 5
262632 Dup	1.0	17	48	35	6.10	16	< 1	1.86	1.40	28	2230	< 1	1.16	46	0.043	< 3	< 5	< 0.01	15	113	< 2	0.26	< 5
262638 Orig																							
262638 Dup																							
262639 Orig																							
262639 Dup																							
262646 Orig	0.8	17	78	43	8.16	15	3	0.67	1.72	18	2630	< 1	1.68	50	0.043	< 3	< 5	0.23	14	123	< 2	0.27	< 5
262646 Dup	0.6	18	76	43	8.30	13	3	0.68	1.74	18	2700	< 1	1.69	50	0.044	4	< 5	0.23	15	124	< 2	0.27	< 5
262648 Orig																							
262648 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		3	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	4	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank																							
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5

Analyte Symbol	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	30	88	157	35	737	32
GXR-1 Cert	34.9	80.0	164	32.0	760	38.0
GXR-1 Meas	40	89	158	34	734	31
GXR-1 Cert	34.9	80.0	164	32.0	760	38.0
GXR-1 Meas	40	91	161	35	746	31
GXR-1 Cert	34.9	80.0	164	32.0	760	38.0
GXR-4 Meas	< 10	88	38	15	71	46
GXR-4 Cert	6.20	87.0	30.8	14.0	73.0	186
GXR-4 Meas	< 10	93	37	15	73	47
GXR-4 Cert	6.20	87.0	30.8	14.0	73.0	186
GXR-4 Meas	< 10	92	33	15	75	46
GXR-4 Cert	6.20	87.0	30.8	14.0	73.0	186
SDC-1 Meas	< 10	38	< 5		95	35
SDC-1 Cert	3.10	102.00	0.80		103.00	290.00
SDC-1 Meas	< 10	48	< 5		101	30
SDC-1 Cert	3.10	102.00	0.80		103.00	290.00
SDC-1 Meas	< 10	43	< 5		97	34
SDC-1 Cert	3.10	102.00	0.80		103.00	290.00
GXR-6 Meas	< 10	149	< 5	11	129	70
GXR-6 Cert	1.54	186	1.90	14.0	118	110
GXR-6 Meas	< 10	96	< 5	13	131	59
GXR-6 Cert	1.54	186	1.90	14.0	118	110
GXR-6 Meas	< 10	139	< 5	12	130	72
GXR-6 Cert	1.54	186	1.90	14.0	118	110
Oreas 72a (4 Acid Digest) Meas						
Oreas 72a (4 Acid Digest) Cert						
Oreas 72a (4 Acid Digest) Meas						
Oreas 72a (4 Acid Digest) Cert						
DNC-1a Meas		139		17	56	36
DNC-1a Cert		148.0000		18.0	70.0	38.0
DNC-1a Meas		149		16	57	35
DNC-1a Cert		148.0000		18.0	70.0	38.0
DNC-1a Meas		144		17	57	36
DNC-1a Cert		148.0000		18.0	70.0	38.0
SBC-1 Meas	< 10	213	< 5	32	177	117
SBC-1 Cert	5.76	220.0	1.60	36.5	186.0	134.0
SBC-1 Meas	< 10	228	< 5	32	196	117
SBC-1 Cert	5.76	220.0	1.60	36.5	186.0	134.0
SBC-1 Meas	< 10	227	< 5	32	183	116
SBC-1 Cert	5.76	220.0	1.60	36.5	186.0	134.0
SdAR-M2 (U.S.G.S.) Meas	< 10	26	9	29	780	127
SdAR-M2 (U.S.G.S.)	2.53	25.2	2.8	32.7	760	259

Analyte Symbol	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Cert						
SdAR-M2 (U.S.G.S.) Meas	< 10	26	12	29	775	127
SdAR-M2 (U.S.G.S.) Cert	2.53	25.2	2.8	32.7	760	259
SdAR-M2 (U.S.G.S.) Meas	< 10	24	9	30	782	113
SdAR-M2 (U.S.G.S.) Cert	2.53	25.2	2.8	32.7	760	259
SF85 Meas						
SF85 Cert						
OxD128 Meas						
OxD128 Cert						
262620 Orig						
262620 Dup						
262625 Orig	< 10	65	< 5	22	84	66
262625 Dup	< 10	54	< 5	22	83	61
262628 Orig						
262628 Dup						
262632 Orig	< 10	82	< 5	17	54	134
262632 Dup	< 10	81	< 5	16	54	131
262638 Orig						
262638 Dup						
262639 Orig						
262639 Dup						
262646 Orig	< 10	85	< 5	16	51	124
262646 Dup	< 10	87	< 5	16	49	128
262648 Orig						
262648 Dup						
Method Blank						
Method Blank						
Method Blank						
Method Blank						
Method Blank						
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank						
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5



Date Submitted: 03-Aug-16
Invoice No.: A16-07609
Invoice Date: 31-Aug-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

34 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-50-Geraldton Au - Fire Assay AA

REPORT **A16-07609**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.



CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé".

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
801 Main Street, P.O. Box 999, Geraldton, Ontario, Canada, P0T 1M0
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Date Submitted: 03-Aug-16
Invoice No.: A16-07609
Invoice Date: 31-Aug-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

34 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1E3-Tbay Aqua Regia ICP(AQUAGEO)

Code 1F2-Tbay Total Digestion ICP(TOTAL)

REPORT **A16-07609**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:



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Quality Control

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Results

Activation Laboratories Ltd.

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Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
262585	< 5	< 0.2	< 0.5	37	421	< 1	35	< 2	58	2.23	< 2	< 10	296	< 0.5	< 2	1.54	14	81	2.82	< 10	< 1	0.83	13
262586	< 5	< 0.2	< 0.5	35	402	< 1	27	< 2	57	1.79	< 2	< 10	173	< 0.5	< 2	2.12	14	76	2.34	< 10	< 1	0.65	13
262587	< 5	< 0.2	< 0.5	41	493	< 1	21	< 2	70	1.75	< 2	< 10	129	< 0.5	< 2	2.61	12	74	2.12	< 10	< 1	0.70	14
262588	5	< 0.2	< 0.5	36	447	< 1	28	< 2	68	1.74	< 2	< 10	160	< 0.5	< 2	1.96	13	74	2.42	< 10	< 1	0.72	14
262589	< 5	< 0.2	< 0.5	38	432	< 1	34	< 2	66	1.84	< 2	< 10	219	< 0.5	< 2	1.45	15	82	2.61	< 10	< 1	0.83	14
262590	< 5	< 0.2	< 0.5	37	394	< 1	31	< 2	62	1.90	< 2	< 10	234	< 0.5	< 2	1.38	14	83	2.78	< 10	< 1	0.83	14
262591	< 5	< 0.2	< 0.5	< 1	191	< 1	2	3	4	0.04	< 2	23	108	< 0.5	< 2	11.8	< 1	< 1	0.08	< 10	< 1	0.04	< 10
262592	< 5	< 0.2	< 0.5	12	918	< 1	15	< 2	52	2.05	< 2	< 10	156	< 0.5	< 2	6.59	9	34	2.79	< 10	< 1	1.06	13
262593	< 5	< 0.2	< 0.5	18	422	< 1	19	< 2	65	2.00	< 2	< 10	162	< 0.5	< 2	0.99	13	49	2.66	< 10	< 1	1.05	12
262594	< 5	< 0.2	< 0.5	15	352	< 1	3	< 2	59	1.63	< 2	< 10	155	< 0.5	< 2	0.78	8	16	2.00	< 10	< 1	0.82	12
262595	< 5	< 0.2	< 0.5	8	417	< 1	21	< 2	63	1.65	< 2	< 10	359	< 0.5	< 2	0.67	12	62	2.64	< 10	< 1	0.78	13
262596	< 5	< 0.2	< 0.5	28	627	< 1	21	3	106	1.83	< 2	< 10	233	< 0.5	< 2	1.78	12	66	2.55	< 10	< 1	0.92	13
262597	< 5	< 0.2	< 0.5	42	552	< 1	23	< 2	70	3.41	< 2	< 10	93	< 0.5	< 2	2.66	13	59	2.36	< 10	< 1	0.94	13
262598	< 5	< 0.2	< 0.5	20	356	< 1	6	< 2	56	2.11	< 2	< 10	91	< 0.5	< 2	1.42	7	37	1.57	< 10	< 1	0.73	12
262599	< 5	< 0.2	< 0.5	10	391	< 1	4	< 2	48	1.42	< 2	< 10	95	< 0.5	< 2	1.47	6	30	1.60	< 10	< 1	0.68	12
262600	< 5	< 0.2	< 0.5	3	482	< 1	2	2	37	1.06	< 2	< 10	86	< 0.5	< 2	2.16	5	12	1.63	< 10	< 1	0.41	11
262601	> 5000	6.5	12.2	1250	561	73	37	198	2160	1.50	72	< 10	18	< 0.5	< 2	1.08	9	24	6.77	< 10	< 1	0.21	11
262602	< 5	< 0.2	< 0.5	42	797	< 1	25	2	106	1.65	< 2	< 10	131	< 0.5	< 2	2.78	13	67	2.52	< 10	< 1	0.72	13
262603	< 5	< 0.2	< 0.5	33	656	< 1	15	< 2	77	1.61	< 2	< 10	158	< 0.5	< 2	2.37	11	59	2.44	< 10	< 1	0.75	13
262604	< 5	< 0.2	< 0.5	5	486	< 1	2	< 2	47	1.37	< 2	< 10	124	< 0.5	< 2	1.53	8	16	1.92	< 10	< 1	0.60	10
262605	< 5	< 0.2	< 0.5	7	326	< 1	< 1	< 2	48	1.42	< 2	< 10	112	< 0.5	< 2	1.13	6	14	1.73	< 10	< 1	0.81	11
262606	< 5	< 0.2	< 0.5	60	569	< 1	26	< 2	63	1.98	< 2	< 10	146	< 0.5	< 2	2.27	12	61	2.87	< 10	< 1	0.88	12
262607	< 5	< 0.2	< 0.5	34	396	< 1	31	< 2	54	1.81	< 2	< 10	156	< 0.5	< 2	1.52	13	78	2.40	< 10	< 1	0.75	13
262608	< 5	< 0.2	< 0.5	38	685	< 1	27	< 2	56	2.49	< 2	< 10	176	< 0.5	< 2	2.03	12	75	2.99	< 10	< 1	0.84	14
262609	< 5	< 0.2	< 0.5	92	577	< 1	22	< 2	57	4.70	< 2	< 10	219	0.9	< 2	1.89	19	49	10.4	10	< 1	0.81	14
262610	< 5	< 0.2	< 0.5	28	772	< 1	29	< 2	47	3.59	< 2	< 10	68	0.6	< 2	2.92	20	118	6.92	< 10	< 1	0.22	12
262611	< 5	0.2	< 0.5	2	204	< 1	< 1	< 2	6	0.08	< 2	21	83	< 0.5	< 2	12.5	< 1	< 1	0.07	< 10	< 1	0.04	< 10
262612	< 5	< 0.2	< 0.5	51	765	< 1	37	< 2	63	4.07	< 2	< 10	62	0.5	< 2	1.62	20	71	9.99	10	< 1	0.16	13
262613	5	< 0.2	< 0.5	46	564	< 1	39	< 2	66	2.96	< 2	< 10	67	< 0.5	< 2	1.42	21	78	3.75	< 10	< 1	0.38	12
262614	< 5	< 0.2	< 0.5	50	447	< 1	37	< 2	73	2.22	< 2	< 10	138	< 0.5	< 2	1.00	19	78	2.69	< 10	< 1	0.56	17
262615	< 5	< 0.2	< 0.5	52	448	< 1	39	< 2	82	2.00	< 2	< 10	124	< 0.5	< 2	0.70	19	79	2.70	< 10	< 1	0.47	16
262616	< 5	< 0.2	< 0.5	55	503	< 1	52	< 2	83	2.22	< 2	< 10	110	< 0.5	< 2	0.66	24	73	3.00	< 10	< 1	0.49	16
262617	< 5	< 0.2	< 0.5	54	708	< 1	45	< 2	84	3.05	< 2	< 10	99	< 0.5	< 2	1.02	22	63	3.72	< 10	< 1	0.49	16
262618	5	< 0.2	< 0.5	46	944	< 1	37	3	78	3.76	< 2	< 10	108	< 0.5	< 2	2.04	18	68	4.53	< 10	< 1	0.67	14

Results

Activation Laboratories Ltd.

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Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.3	0.01	3	7	1	2	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262585	1.05	0.250	0.038	0.02	< 2	9	30	0.22	< 20	< 1	< 2	< 10	68	< 10	9	5	< 0.3	7.70	< 3	334	< 1	< 2	3.89
262586	0.75	0.183	0.039	0.02	< 2	9	26	0.21	< 20	3	< 2	< 10	65	< 10	10	7	0.4	7.20	< 3	255	< 1	< 2	4.13
262587	0.58	0.217	0.038	0.03	< 2	8	28	0.20	< 20	2	< 2	< 10	63	< 10	10	9	0.4	7.77	< 3	242	< 1	< 2	4.60
262588	0.76	0.179	0.039	0.02	< 2	9	24	0.19	< 20	< 1	< 2	< 10	63	< 10	10	14	0.7	3.44	< 3	219	< 1	< 2	3.13
262589	1.06	0.181	0.040	0.01	< 2	10	22	0.21	< 20	2	< 2	< 10	71	< 10	10	20	0.5	7.24	< 3	276	< 1	< 2	3.40
262590	1.20	0.177	0.039	0.01	< 2	10	23	0.21	< 20	5	< 2	< 10	72	< 10	9	22	0.6	6.11	< 3	250	< 1	< 2	3.15
262591	8.61	0.019	0.002	0.03	< 2	< 1	91	< 0.01	< 20	< 1	< 2	< 10	1	< 10	< 1	< 1	< 0.3	0.08	< 3	106	< 1	< 2	17.3
262592	0.93	0.153	0.043	< 0.01	2	6	63	0.18	< 20	5	< 2	< 10	47	< 10	6	11	0.4	8.38	< 3	305	< 1	< 2	8.53
262593	1.11	0.158	0.040	< 0.01	< 2	7	20	0.20	< 20	< 1	< 2	< 10	53	< 10	6	19	< 0.3	8.17	< 3	327	< 1	< 2	2.64
262594	0.75	0.132	0.036	< 0.01	< 2	3	17	0.14	< 20	6	< 2	< 10	29	< 10	3	15	0.3	7.95	< 3	363	< 1	< 2	2.32
262595	1.05	0.203	0.038	< 0.01	< 2	9	15	0.19	< 20	4	< 2	< 10	61	< 10	7	25	0.4	7.70	< 3	366	< 1	< 2	2.60
262596	0.81	0.177	0.040	0.02	< 2	8	20	0.20	< 20	< 1	< 2	< 10	60	< 10	9	20	0.4	7.70	< 3	351	< 1	< 2	3.43
262597	0.87	0.364	0.041	0.01	< 2	6	55	0.19	< 20	2	3	< 10	53	< 10	7	14	0.4	7.69	< 3	261	< 1	< 2	3.70
262598	0.52	0.278	0.038	< 0.01	< 2	5	37	0.16	< 20	3	2	< 10	38	< 10	6	18	0.3	7.77	< 3	266	< 1	< 2	3.13
262599	0.54	0.143	0.036	< 0.01	< 2	4	18	0.15	< 20	< 1	< 2	< 10	32	< 10	5	16	< 0.3	7.51	4	308	< 1	< 2	2.97
262600	0.51	0.135	0.033	< 0.01	< 2	3	25	0.06	< 20	< 1	2	< 10	21	< 10	3	10	0.4	6.10	< 3	191	< 1	< 2	2.94
262601	1.67	0.064	0.042	4.08	12	4	62	0.05	< 20	< 1	< 2	< 10	48	12	5	8	6.4	5.28	64	408	< 1	< 2	1.45
262602	0.53	0.158	0.039	0.04	< 2	7	24	0.18	< 20	1	< 2	< 10	57	< 10	9	9	0.5	7.59	< 3	258	< 1	< 2	4.38
262603	0.60	0.145	0.038	0.03	< 2	7	29	0.18	< 20	2	< 2	< 10	54	< 10	8	16	0.5	7.72	< 3	332	< 1	< 2	3.97
262604	0.68	0.145	0.032	< 0.01	< 2	3	18	0.13	< 20	3	3	< 10	26	< 10	3	10	< 0.3	7.51	< 3	229	< 1	< 2	2.99
262605	0.64	0.156	0.034	< 0.01	< 2	3	18	0.15	< 20	< 1	< 2	< 10	26	< 10	3	9	0.4	7.63	< 3	337	< 1	< 2	2.62
262606	0.76	0.149	0.039	0.02	3	7	29	0.19	< 20	5	< 2	< 10	57	< 10	8	3	< 0.3	7.85	< 3	248	< 1	< 2	4.23
262607	0.91	0.167	0.038	0.01	< 2	8	27	0.23	< 20	6	< 2	< 10	69	< 10	9	2	< 0.3	7.87	< 3	172	< 1	< 2	3.91
262608	0.90	0.277	0.039	0.06	< 2	9	34	0.23	< 20	< 1	< 2	< 10	69	< 10	9	3	< 0.3	7.70	< 3	202	< 1	< 2	4.10
262609	1.88	0.256	0.112	0.55	3	15	92	0.23	< 20	1	2	< 10	112	< 10	12	18	0.5	7.41	< 3	483	2	< 2	3.08
262610	2.13	0.184	0.088	0.16	3	15	69	0.19	< 20	2	< 2	< 10	86	< 10	10	14	0.4	5.30	< 3	143	< 1	< 2	5.53
262611	10.4	0.021	0.004	0.01	< 2	< 1	80	< 0.01	< 20	< 1	< 2	< 10	1	< 10	< 1	< 1	< 0.3	0.11	< 3	76	< 1	< 2	17.4
262612	1.92	0.193	0.120	0.18	4	15	58	0.16	< 20	< 1	< 2	< 10	102	< 10	13	13	0.5	6.33	< 3	156	1	< 2	2.55
262613	1.47	0.204	0.053	0.01	< 2	11	36	0.20	< 20	< 1	< 2	< 10	78	< 10	11	16	0.6	6.98	< 3	253	< 1	< 2	2.58
262614	0.87	0.175	0.031	0.01	< 2	11	27	0.19	< 20	< 1	< 2	< 10	69	< 10	10	33	0.4	9.14	5	398	< 1	< 2	2.88
262615	0.82	0.155	0.031	0.03	< 2	10	21	0.20	< 20	< 1	< 2	< 10	67	< 10	10	34	0.3	8.79	< 3	348	< 1	< 2	2.66
262616	0.80	0.159	0.037	0.02	< 2	10	22	0.20	< 20	2	< 2	< 10	69	< 10	11	33	0.4	9.38	< 3	355	< 1	< 2	2.74
262617	0.76	0.239	0.035	0.01	2	8	39	0.18	< 20	1	< 2	< 10	57	< 10	10	24	0.6	9.37	< 3	363	< 1	< 2	2.89
262618	0.74	0.290	0.042	0.02	< 2	9	49	0.19	< 20	4	< 2	< 10	68	< 10	9	16	0.5	8.47	< 3	240	< 1	< 2	3.70

Results

Activation Laboratories Ltd.

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Analyte Symbol	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262585	< 0.3	16	69	37	2.94	17	< 1	1.01	1.07	18	479	< 1	2.58	45	0.037	6	< 5	0.02	13	156	< 2	0.14	< 5
262586	< 0.3	15	60	33	2.32	16	< 1	0.98	0.71	18	435	2	2.76	36	0.034	< 3	< 5	0.02	12	140	4	0.13	< 5
262587	< 0.3	13	62	41	2.17	16	< 1	1.24	0.57	17	532	< 1	2.65	29	0.040	3	< 5	0.03	13	176	< 2	0.21	< 5
262588	< 0.3	14	81	33	2.02	17	< 1	0.90	0.57	17	447	2	2.57	33	0.033	< 3	< 5	0.02	5	116	13	0.27	< 5
262589	< 0.3	17	86	35	2.48	17	1	1.02	0.96	21	478	< 1	2.74	43	0.040	< 3	< 5	0.01	12	196	< 2	0.29	< 5
262590	0.4	15	87	36	2.66	18	< 1	1.03	1.09	21	458	< 1	2.94	43	0.038	< 3	< 5	0.01	10	204	< 2	0.29	< 5
262591	< 0.3	< 1	10	9	0.11	1	< 1	0.05	11.8	15	264	< 1	0.05	2	0.002	7	< 5	0.04	< 4	113	< 2	< 0.01	< 5
262592	< 0.3	11	22	14	2.79	20	< 1	1.65	0.90	20	967	< 1	3.18	22	0.040	7	5	< 0.01	9	277	10	0.23	< 5
262593	< 0.3	13	30	32	2.65	19	< 1	1.72	1.07	24	431	< 1	2.99	29	0.038	< 3	< 5	< 0.01	9	208	< 2	0.20	< 5
262594	< 0.3	7	19	17	2.03	20	< 1	1.61	0.74	18	359	1	3.05	19	0.031	13	< 5	< 0.01	5	174	2	0.12	< 5
262595	< 0.3	15	47	13	2.88	17	< 1	0.92	1.10	16	556	< 1	3.38	35	0.036	< 3	< 5	< 0.01	11	189	6	0.17	< 5
262596	< 0.3	13	63	26	2.53	16	< 1	1.46	0.76	18	673	< 1	2.69	30	0.037	< 3	< 5	0.02	11	169	< 2	0.23	< 5
262597	< 0.3	14	65	40	2.36	16	< 1	2.13	0.85	19	596	< 1	1.64	31	0.038	< 3	< 5	0.02	11	159	22	0.26	< 5
262598	0.4	8	35	20	1.68	18	< 1	1.80	0.53	12	394	< 1	2.24	13	0.035	< 3	< 5	< 0.01	10	204	7	0.14	< 5
262599	< 0.3	7	32	9	1.74	18	< 1	1.71	0.55	14	399	< 1	2.58	7	0.032	4	< 5	< 0.01	8	153	< 2	0.15	< 5
262600	< 0.3	5	22	3	1.54	18	< 1	1.06	0.48	13	471	< 1	3.53	6	0.030	< 3	< 5	< 0.01	< 4	166	< 2	0.17	< 5
262601	12.9	10	50	1200	6.77	15	< 1	1.40	1.76	11	593	82	1.25	52	0.041	193	9	3.94	12	194	8	0.18	< 5
262602	< 0.3	15	49	41	2.61	15	< 1	1.39	0.53	18	836	1	2.68	32	0.037	7	< 5	0.04	12	157	21	0.24	< 5
262603	0.4	12	45	34	2.60	18	< 1	1.40	0.61	19	711	1	2.98	24	0.038	< 3	< 5	0.03	12	229	< 2	0.24	< 5
262604	< 0.3	9	17	5	2.01	18	< 1	1.03	0.67	18	495	2	3.54	13	0.031	< 3	< 5	< 0.01	5	216	< 2	0.15	9
262605	0.4	6	13	8	1.78	19	< 1	1.60	0.62	17	321	< 1	3.10	8	0.031	< 3	< 5	< 0.01	5	189	3	0.14	< 5
262606	0.4	13	44	61	3.03	17	< 1	1.47	0.76	24	655	< 1	2.63	34	0.038	< 3	< 5	0.02	12	178	19	0.12	11
262607	0.4	14	69	36	2.56	16	< 1	0.96	0.89	18	469	< 1	2.83	39	0.040	< 3	< 5	0.01	13	181	< 2	0.22	< 5
262608	0.4	13	64	38	3.07	15	< 1	1.08	0.86	18	808	< 1	2.35	33	0.038	< 3	< 5	0.06	14	171	4	0.22	9
262609	1.1	22	64	91	11.0	15	< 1	1.70	1.96	35	915	< 1	0.78	35	0.108	6	< 5	0.59	22	205	15	0.42	< 5
262610	1.2	35	230	26	9.35	14	< 1	0.53	3.48	19	1400	< 1	0.61	56	0.080	4	< 5	0.16	22	147	8	0.39	< 5
262611	< 0.3	1	8	2	0.09	< 1	< 1	0.05	12.3	16	275	< 1	0.03	< 1	0.004	< 3	< 5	0.02	< 4	100	< 2	< 0.01	< 5
262612	1.1	23	81	53	10.5	14	< 1	0.45	1.93	36	1120	< 1	0.94	52	0.112	5	< 5	0.19	20	169	22	0.38	< 5
262613	0.3	24	99	44	3.96	16	< 1	1.44	1.51	24	736	< 1	1.37	48	0.047	12	< 5	0.01	19	123	3	0.29	< 5
262614	< 0.3	22	49	50	2.72	20	< 1	1.45	0.86	23	544	< 1	2.88	50	0.027	3	< 5	0.02	17	192	18	0.06	< 5
262615	< 0.3	21	41	52	2.80	18	< 1	1.26	0.82	21	606	< 1	2.95	53	0.028	5	< 5	0.03	16	184	< 2	0.09	< 5
262616	< 0.3	26	56	56	3.22	20	< 1	1.44	0.80	25	775	< 1	2.57	65	0.034	< 3	< 5	0.02	17	179	5	0.20	< 5
262617	0.4	27	84	55	4.38	20	< 1	1.79	0.78	22	1330	< 1	1.82	59	0.033	4	< 5	0.01	18	173	< 2	0.28	< 5
262618	< 0.3	22	72	53	5.25	15	< 1	1.59	0.77	26	1690	< 1	1.46	50	0.040	4	< 5	0.02	16	143	2	0.31	< 5

Analyte Symbol	U	V	W	Y	Zn	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne
Lower Limit	10	2	5	1	1	5	0.02
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	FA-GRA
262585	< 10	40	5	13	61	58	
262586	< 10	38	< 5	12	59	82	
262587	< 10	67	< 5	14	76	127	
262588	< 10	76	< 5	6	67	130	
262589	< 10	77	< 5	13	65	158	
262590	< 10	82	< 5	11	66	153	
262591	< 10	3	< 5	1	6	< 5	
262592	< 10	61	< 5	9	62	105	
262593	< 10	56	< 5	9	71	115	
262594	< 10	28	< 5	4	63	74	
262595	< 10	48	< 5	11	74	110	
262596	< 10	67	< 5	12	112	131	
262597	< 10	74	< 5	12	79	137	
262598	< 10	40	< 5	9	60	103	
262599	< 10	38	< 5	7	53	94	
262600	< 10	33	< 5	3	38	85	
262601	< 10	73	< 5	15	2250	65	5.90
262602	< 10	72	< 5	13	114	119	
262603	< 10	71	< 5	12	87	133	
262604	< 10	30	< 5	4	50	76	
262605	< 10	27	< 5	4	49	69	
262606	< 10	41	< 5	13	71	41	
262607	< 10	67	< 5	13	60	47	
262608	< 10	66	< 5	14	60	67	
262609	< 10	149	< 5	20	67	116	
262610	< 10	154	7	17	74	100	
262611	< 10	3	< 5	< 1	11	< 5	
262612	< 10	122	< 5	22	71	108	
262613	< 10	91	< 5	18	75	117	
262614	< 10	23	< 5	17	82	107	
262615	< 10	30	< 5	16	85	98	
262616	< 10	59	< 5	18	86	120	
262617	< 10	85	< 5	21	93	153	
262618	< 10	92	< 5	18	85	141	

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas		29.0	2.2	1130	768	13	18	649	699	0.35	388	< 10	512	0.7	1470	0.77	2	7	23.1	< 10	3	0.03	< 10
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50
GXR-1 Meas		28.3	2.7	1150	768	13	21	636	628	0.35	388	< 10	474	0.8	1480	0.77	8	7	23.2	< 10	1	0.03	< 10
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50
GXR-1 Meas		29.3	2.5	1190	802	13	31	667	648	0.38	402	10	481	0.8	1530	0.81	7	6	23.9	< 10	4	0.04	< 10
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50
GXR-4 Meas		3.5	< 0.5	6800	140	298	34	47	72	2.90	100	< 10	77	1.4	7	0.96	13	56	3.25	10	< 1	1.74	51
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5
GXR-4 Meas		3.5	< 0.5	6770	142	307	34	46	68	2.91	104	< 10	45	1.4	13	0.97	13	55	3.29	10	< 1	1.76	52
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5
GXR-4 Meas		3.4	< 0.5	6670	139	304	32	43	65	2.84	101	< 10	29	1.4	19	0.94	14	54	3.22	10	< 1	1.72	54
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5
SDC-1 Meas																							
SDC-1 Cert																							
SDC-1 Meas																							
SDC-1 Cert																							
SDC-1 Meas																							
SDC-1 Cert																							
GXR-6 Meas		0.2	< 0.5	72	1040	1	15	96	126	7.31	218	< 10	949	0.8	< 2	0.13	12	81	5.98	20	< 1	1.18	< 10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
GXR-6 Meas		0.2	< 0.5	72	1040	< 1	17	98	114	7.27	255	< 10	954	0.9	< 2	0.13	13	81	5.96	20	< 1	1.20	< 10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
GXR-6 Meas		0.2	< 0.5	71	1020	< 1	18	98	113	7.11	233	< 10	931	0.8	< 2	0.13	13	80	5.89	20	< 1	1.15	< 10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
Oreas 72a (4 Acid Digest) Meas																							
Oreas 72a (4 Acid Digest) Cert																							
Oreas 72a (4 Acid Digest) Meas																							
Oreas 72a (4 Acid Digest) Cert																							
DNC-1a Meas																							
DNC-1a Cert																							
DNC-1a Meas																							
DNC-1a Cert																							
DNC-1a Meas																							
DNC-1a Cert																							
OxP 91 Meas																							
OxP 91 Cert																							
SBC-1 Meas																							
SBC-1 Cert																							
SBC-1 Meas																							
SBC-1 Cert																							
SBC-1 Meas																							
SBC-1 Cert																							
OxK110 Meas																							
OxK110 Cert																							
SdAR-M2 (U.S.G.S.)			5.2	245		13	41	845	748				154	5.0	< 2		13	11		< 10	1		47

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Meas																							
SdAR-M2 (U.S.G.S.) Cert			5.1	236.0000		13.3	48.8	808	760				990	6.6	1.05		12.4	49.6		17.6	1.44		46.6
SdAR-M2 (U.S.G.S.) Meas			5.2	256		13	43	897	791				161	5.1	< 2		14	10		< 10	1		51
SdAR-M2 (U.S.G.S.) Cert			5.1	236.0000		13.3	48.8	808	760				990	6.6	1.05		12.4	49.6		17.6	1.44		46.6
SdAR-M2 (U.S.G.S.) Meas																							
SdAR-M2 (U.S.G.S.) Cert																							
SF85 Meas	824																						
SF85 Cert	848																						
OxD128 Meas	416																						
OxD128 Cert	424.000																						
262593 Orig		< 0.2	< 0.5	18	418	< 1	19	< 2	65	1.97	< 2	< 10	160	< 0.5	< 2	0.99	13	48	2.63	< 10	< 1	1.04	12
262593 Dup		< 0.2	< 0.5	18	426	< 1	20	< 2	66	2.02	< 2	< 10	163	< 0.5	< 2	1.00	13	49	2.69	< 10	< 1	1.06	13
262594 Orig	< 5																						
262594 Dup	< 5																						
262604 Orig	< 5																						
262604 Dup	< 5																						
262606 Orig		< 0.2	< 0.5	59	568	1	25	< 2	62	1.98	< 2	< 10	146	< 0.5	< 2	2.27	12	61	2.85	< 10	< 1	0.88	12
262606 Dup		< 0.2	< 0.5	61	570	< 1	26	< 2	64	1.97	< 2	< 10	146	< 0.5	< 2	2.26	12	61	2.89	< 10	< 1	0.89	12
262607 Orig																							
262607 Dup																							
262614 Orig	< 5																						
262614 Dup	< 5																						
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	2	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank																							
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank																							

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca	
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.3	0.01	3	7	1	2	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	
GXR-1 Meas	0.13	0.046	0.047	0.21	88	1	174	< 0.01	< 20	14	4	29	73	143	23	16	31.4	2.01	430	688	1	1380	0.89	
GXR-1 Cert	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0	0.390	34.9	80.0	164	32.0	38.0	31.0	3.52	427	750	1.22	1380	0.960	
GXR-1 Meas	0.14	0.046	0.047	0.20	80	1	173	< 0.01	< 20	12	2	31	73	141	24	16	31.5	2.36	406	645	< 1	1380	0.85	
GXR-1 Cert	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0	0.390	34.9	80.0	164	32.0	38.0	31.0	3.52	427	750	1.22	1380	0.960	
GXR-1 Meas	0.15	0.049	0.049	0.21	90	1	183	< 0.01	< 20	15	5	31	75	154	24	16	32.1	2.12	406	663	< 1	1470	0.87	
GXR-1 Cert	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0	0.390	34.9	80.0	164	32.0	38.0	31.0	3.52	427	750	1.22	1380	0.960	
GXR-4 Meas	1.72	0.135	0.132	1.78	6	8	75	0.14	< 20	< 1	< 2	< 10	78	11	11	10	3.6	6.67	101	348	2	22	1.09	
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970	3.20	6.20	87.0	30.8	14.0	186	4.0	7.20	98.0	1640	1.90	19.0	1.01	
GXR-4 Meas	1.72	0.140	0.133	1.82	5	8	74	0.14	< 20	< 1	4	< 10	78	11	12	10	3.5	6.60	101	178	2	22	1.08	
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970	3.20	6.20	87.0	30.8	14.0	186	4.0	7.20	98.0	1640	1.90	19.0	1.01	
GXR-4 Meas	1.69	0.133	0.135	1.82	2	8	74	0.14	< 20	2	2	< 10	78	13	11	10	3.7	6.30	89	229	2	13	1.08	
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970	3.20	6.20	87.0	30.8	14.0	186	4.0	7.20	98.0	1640	1.90	19.0	1.01	
SDC-1 Meas																		7.57	< 3	630	3		1.04	
SDC-1 Cert																		8.34	0.220	630	3.00		1.00	
SDC-1 Meas																		8.01	< 3	630	3		1.10	
SDC-1 Cert																		8.34	0.220	630	3.00		1.00	
SDC-1 Meas																		7.70	< 3	606	3		1.05	
SDC-1 Cert																		8.34	0.220	630	3.00		1.00	
GXR-6 Meas	0.42	0.069	0.036	0.01	5	21	27		< 20	< 1	< 2	< 10	156	< 10	5	6	0.5	12.3	271	> 1000	1	< 2	0.16	
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110	1.30	17.7	330	1300	1.40	0.290	0.180	
GXR-6 Meas	0.43	0.070	0.037	0.01	6	21	27		< 20	< 1	< 2	< 10	169	< 10	5	13	0.4	12.4	229	> 1000	1	< 2	0.16	
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110	1.30	17.7	330	1300	1.40	0.290	0.180	
GXR-6 Meas	0.42	0.068	0.036	0.01	3	21	26		< 20	< 1	< 2	< 10	163	< 10	5	9	0.5	12.5	259	> 1000	1	< 2	0.16	
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110	1.30	17.7	330	1300	1.40	0.290	0.180	
Oreas 72a (4 Acid Digest) Meas																				< 3				
Oreas 72a (4 Acid Digest) Cert																				14.7				
Oreas 72a (4 Acid Digest) Meas																				< 3				
Oreas 72a (4 Acid Digest) Cert																				14.7				
DNC-1a Meas																					98			
DNC-1a Cert																					118			
DNC-1a Meas																					97			
DNC-1a Cert																					118			
DNC-1a Meas																					95			
DNC-1a Cert																					118			
OxP 91 Meas																								
OxP 91 Cert																								
SBC-1 Meas																				23	785	3	< 2	
SBC-1 Cert																				25.7	788.0	3.20	0.70	
SBC-1 Meas																				22	775	3	3	
SBC-1 Cert																				25.7	788.0	3.20	0.70	
SBC-1 Meas																				13	768	3	2	
SBC-1 Cert																				25.7	788.0	3.20	0.70	
OxK110 Meas																								
OxK110 Cert																								
SdAR-M2 (U.S.G.S.)							3	22	< 20			< 10	18	< 10	18	8				> 1000	8	< 2		

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.3	0.01	3	7	1	2	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Meas																							
SdAR-M2 (U.S.G.S.) Cert						4.1	144		14.2			2.53	25.2	2.8	32.7	259				990	6.6	1.05	
SdAR-M2 (U.S.G.S.) Meas						3	23		< 20			< 10	19	< 10	19	8				952	6	< 2	
SdAR-M2 (U.S.G.S.) Cert						4.1	144		14.2			2.53	25.2	2.8	32.7	259				990	6.6	1.05	
SdAR-M2 (U.S.G.S.) Meas																				984	7	< 2	
SdAR-M2 (U.S.G.S.) Cert																				990	6.6	1.05	
SF85 Meas																							
SF85 Cert																							
OxD128 Meas																							
OxD128 Cert																							
262593 Orig	1.10	0.155	0.040	< 0.01	< 2	7	20	0.20	< 20	< 1	< 2	< 10	53	< 10	6	20	0.3	8.06	< 3	322	< 1	< 2	2.60
262593 Dup	1.12	0.160	0.040	< 0.01	< 2	7	21	0.20	< 20	5	2	< 10	53	< 10	6	19	< 0.3	8.28	< 3	332	< 1	< 2	2.67
262594 Orig																							
262594 Dup																							
262604 Orig																							
262604 Dup																							
262606 Orig	0.75	0.150	0.039	0.02	3	7	29	0.19	< 20	5	< 2	< 10	57	< 10	8	3							
262606 Dup	0.77	0.148	0.039	0.02	3	7	29	0.19	< 20	5	< 2	< 10	57	< 10	8	3							
262607 Orig																	< 0.3	7.79	< 3	172	< 1	< 2	3.92
262607 Dup																	< 0.3	7.95	< 3	172	< 1	< 2	3.90
262614 Orig																							
262614 Dup																							
Method Blank	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01

Analyte Symbol	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	0.7	7	21	1200	23.6	10	< 1	0.05	0.21	9	871	16	0.05	46	0.058	738	38	0.24	< 4	292	3	0.03	< 5
GXR-1 Cert	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520	41.0	0.0650	730	122	0.257	1.58	275	13.0	0.036	0.390
GXR-1 Meas	5.0	9	20	1130	23.1	16	< 1	0.05	0.20	8	864	14	0.05	42	0.057	723	51	0.24	< 4	287	22	0.03	< 5
GXR-1 Cert	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520	41.0	0.0650	730	122	0.257	1.58	275	13.0	0.036	0.390
GXR-1 Meas	4.4	9	24	1170	23.8	14	< 1	0.05	0.20	8	874	14	0.05	45	0.059	748	31	0.24	< 4	291	26	0.03	< 5
GXR-1 Cert	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520	41.0	0.0650	730	122	0.257	1.58	275	13.0	0.036	0.390
GXR-4 Meas	< 0.3	16	45	6740	3.08	19	< 1	3.76	1.71	12	179	351	0.56	47	0.131	49	< 5	1.79	8	219	3	0.29	< 5
GXR-4 Cert	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564	42.0	0.120	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20
GXR-4 Meas	0.3	15	36	6500	3.12	20	< 1	4.10	1.69	13	153	341	0.57	42	0.132	51	< 5	1.79	8	220	11	0.29	< 5
GXR-4 Cert	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564	42.0	0.120	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20
GXR-4 Meas	0.5	15	52	6170	3.18	16	< 1	3.97	1.69	11	166	341	0.57	41	0.131	61	< 5	1.77	8	212	4	0.27	< 5
GXR-4 Cert	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564	42.0	0.120	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20
SDC-1 Meas		19	49	27	4.60	24	< 1	1.80	0.97	34	874		1.50	37	0.052	21	< 5		16	167		0.10	< 5
SDC-1 Cert		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34.00	880.00		1.52	38.0	0.0690	25.00	0.54		17.00	180.00		0.606	0.70
SDC-1 Meas		19	44	32	4.87	23	< 1	2.76	0.99	33	895		1.56	29	0.053	23	< 5		16	174		0.17	< 5
SDC-1 Cert		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34.00	880.00		1.52	38.0	0.0690	25.00	0.54		17.00	180.00		0.606	0.70
SDC-1 Meas		18	67	28	4.66	20	< 1	2.68	0.95	31	856		1.51	42	0.051	20	< 5		16	173		0.10	< 5
SDC-1 Cert		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34.00	880.00		1.52	38.0	0.0690	25.00	0.54		17.00	180.00		0.606	0.70
GXR-6 Meas	< 0.3	16	67	71	5.86	30	< 1	1.40	0.60	34	1080	4	0.10	29	0.036	99	< 5	0.02	26	35	6		< 5
GXR-6 Cert	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104	27.0	0.0350	101	3.60	0.0160	27.6	35.0	0.0180		2.20
GXR-6 Meas	0.8	15	63	70	5.81	31	< 1	1.95	0.58	31	1080	1	0.10	29	0.035	97	< 5	0.01	28	36	12		< 5
GXR-6 Cert	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104	27.0	0.0350	101	3.60	0.0160	27.6	35.0	0.0180		2.20
GXR-6 Meas	1.2	15	64	73	5.98	30	6	1.96	0.60	32	1080	< 1	0.10	28	0.036	104	< 5	0.02	26	36	< 2		< 5
GXR-6 Cert	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104	27.0	0.0350	101	3.60	0.0160	27.6	35.0	0.0180		2.20
Oreas 72a (4 Acid Digest) Meas		153	194	329	9.75									6420				1.62					
Oreas 72a (4 Acid Digest) Cert		157	228	316	9.63									6930.000				1.74					
Oreas 72a (4 Acid Digest) Meas		160	189	336	9.67									6720				1.66					
Oreas 72a (4 Acid Digest) Cert		157	228	316	9.63									6930.000				1.74					
DNC-1a Meas		56	202	97		14				5				258		5	< 5		32	130		0.29	
DNC-1a Cert		57.0	270	100.00		15				5.20				247		6.3	0.96		31	144.0		0.29	
DNC-1a Meas		56	198	99		13				5				261		3	< 5		31	127		0.28	
DNC-1a Cert		57.0	270	100.00		15				5.20				247		6.3	0.96		31	144.0		0.29	
DNC-1a Meas		56	234	101		13				5				255		5	< 5		30	130		0.28	
DNC-1a Cert		57.0	270	100.00		15				5.20				247		6.3	0.96		31	144.0		0.29	
OxP 91 Meas																							
OxP 91 Cert																							
SBC-1 Meas	< 0.3	24	83	27		27				159		2		86		33	< 5		20	174		0.53	< 5
SBC-1 Cert	0.40	22.7	109	31.0000		27.0				163.0		2.40		82.8		35.0	1.01		20.0	178.0		0.51	0.89
SBC-1 Meas	1.0	24	89	32		27				156		2		89		26	< 5		20	177		0.51	< 5
SBC-1 Cert	0.40	22.7	109	31.0000		27.0				163.0		2.40		82.8		35.0	1.01		20.0	178.0		0.51	0.89
SBC-1 Meas	0.9	24	100	32		28				154		1		87		30	< 5		20	180		0.52	< 5
SBC-1 Cert	0.40	22.7	109	31.0000		27.0				163.0		2.40		82.8		35.0	1.01		20.0	178.0		0.51	0.89
OxK110 Meas																							
OxK110 Cert																							
SdAR-M2 (U.S.G.S.)	5.2	15	48	247		20	1			18		12		55		802			4	146			

Analyte Symbol	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Meas																							
SdAR-M2 (U.S.G.S.) Cert	5.1	12.4	49.6	236.0000		17.6	1.44			17.9		13.3		48.8		808			4.1	144			
SdAR-M2 (U.S.G.S.) Meas	5.0	13	54	229		16	2			18		12		51		819			4	141			
SdAR-M2 (U.S.G.S.) Cert	5.1	12.4	49.6	236.0000		17.6	1.44			17.9		13.3		48.8		808			4.1	144			
SdAR-M2 (U.S.G.S.) Meas	5.5	14	39	241		17	< 1			17		9		51		822			5	151			
SdAR-M2 (U.S.G.S.) Cert	5.1	12.4	49.6	236.0000		17.6	1.44			17.9		13.3		48.8		808			4.1	144			
SF85 Meas																							
SF85 Cert																							
OxD128 Meas																							
OxD128 Cert																							
262593 Orig	< 0.3	12	31	18	2.61	19	< 1	1.69	1.05	24	424	< 1	2.95	29	0.037	< 3	< 5	< 0.01	9	206	8	0.21	< 5
262593 Dup	0.4	14	30	46	2.70	19	< 1	1.74	1.09	24	437	< 1	3.02	29	0.038	< 3	< 5	< 0.01	10	209	< 2	0.20	< 5
262594 Orig																							
262594 Dup																							
262604 Orig																							
262604 Dup																							
262606 Orig																							
262606 Dup																							
262607 Orig	0.4	15	63	35	2.56	15	< 1	0.97	0.89	18	468	< 1	2.82	40	0.040	< 3	< 5	0.01	13	179	2	0.18	< 5
262607 Dup	0.5	14	76	36	2.57	17	< 1	0.96	0.89	18	471	< 1	2.84	39	0.041	5	< 5	0.01	13	183	< 2	0.26	< 5
262614 Orig																							
262614 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		3	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	4	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	2	< 0.01	< 5
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5

Analyte Symbol	U	V	W	Y	Zn	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne
Lower Limit	10	2	5	1	1	5	0.02
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	FA-GRA
GXR-1 Meas	30	88	157	35	737	32	
GXR-1 Cert	34.9	80.0	164	32.0	760	38.0	
GXR-1 Meas	40	89	158	34	734	31	
GXR-1 Cert	34.9	80.0	164	32.0	760	38.0	
GXR-1 Meas	40	91	161	35	746	31	
GXR-1 Cert	34.9	80.0	164	32.0	760	38.0	
GXR-4 Meas	< 10	88	38	15	71	46	
GXR-4 Cert	6.20	87.0	30.8	14.0	73.0	186	
GXR-4 Meas	< 10	93	37	15	73	47	
GXR-4 Cert	6.20	87.0	30.8	14.0	73.0	186	
GXR-4 Meas	< 10	92	33	15	75	46	
GXR-4 Cert	6.20	87.0	30.8	14.0	73.0	186	
SDC-1 Meas	< 10	38	< 5		95	35	
SDC-1 Cert	3.10	102.00	0.80		103.00	290.00	
SDC-1 Meas	< 10	48	< 5		101	30	
SDC-1 Cert	3.10	102.00	0.80		103.00	290.00	
SDC-1 Meas	< 10	43	< 5		97	34	
SDC-1 Cert	3.10	102.00	0.80		103.00	290.00	
GXR-6 Meas	< 10	149	< 5	11	129	70	
GXR-6 Cert	1.54	186	1.90	14.0	118	110	
GXR-6 Meas	< 10	96	< 5	13	131	59	
GXR-6 Cert	1.54	186	1.90	14.0	118	110	
GXR-6 Meas	< 10	139	< 5	12	130	72	
GXR-6 Cert	1.54	186	1.90	14.0	118	110	
Oreas 72a (4 Acid Digest) Meas							
Oreas 72a (4 Acid Digest) Cert							
Oreas 72a (4 Acid Digest) Meas							
Oreas 72a (4 Acid Digest) Cert							
DNC-1a Meas		139		17	56	36	
DNC-1a Cert		148.0000		18.0	70.0	38.0	
DNC-1a Meas		149		16	57	35	
DNC-1a Cert		148.0000		18.0	70.0	38.0	
DNC-1a Meas		144		17	57	36	
DNC-1a Cert		148.0000		18.0	70.0	38.0	
OxP 91 Meas							14.8
OxP 91 Cert							14.82
SBC-1 Meas	< 10	213	< 5	32	177	117	
SBC-1 Cert	5.76	220.0	1.60	36.5	186.0	134.0	
SBC-1 Meas	< 10	228	< 5	32	196	117	
SBC-1 Cert	5.76	220.0	1.60	36.5	186.0	134.0	
SBC-1 Meas	< 10	227	< 5	32	183	116	
SBC-1 Cert	5.76	220.0	1.60	36.5	186.0	134.0	
OxK110 Meas							3.59

Analyte Symbol	U	V	W	Y	Zn	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne
Lower Limit	10	2	5	1	1	5	0.02
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	FA-GRA
OxK110 Cert							3.602
SdAR-M2 (U.S.G.S.) Meas	< 10	26	9	29	780	127	
SdAR-M2 (U.S.G.S.) Cert	2.53	25.2	2.8	32.7	760	259	
SdAR-M2 (U.S.G.S.) Meas	< 10	26	12	29	775	127	
SdAR-M2 (U.S.G.S.) Cert	2.53	25.2	2.8	32.7	760	259	
SdAR-M2 (U.S.G.S.) Meas	< 10	24	9	30	782	113	
SdAR-M2 (U.S.G.S.) Cert	2.53	25.2	2.8	32.7	760	259	
SF85 Meas							
SF85 Cert							
OxD128 Meas							
OxD128 Cert							
262593 Orig	< 10	57	< 5	9	71	117	
262593 Dup	< 10	55	< 5	9	71	113	
262594 Orig							
262594 Dup							
262604 Orig							
262604 Dup							
262606 Orig							
262606 Dup							
262607 Orig	< 10	57	< 5	13	61	43	
262607 Dup	< 10	77	6	13	59	52	
262614 Orig							
262614 Dup							
Method Blank							
Method Blank							
Method Blank							
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5	
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5	
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5	
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5	
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5	
Method Blank							
Method Blank							
Method Blank							< 0.02
Method Blank							
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5	



Date Submitted: 03-Aug-16
Invoice No.: A16-07607
Invoice Date: 31-Aug-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

14 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1E3-Tbay Aqua Regia ICP(AQUAGEO)

Code 1F2-Tbay Total Digestion ICP(TOTAL)

REPORT **A16-07607**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is written in a cursive style with a large, stylized 'E'.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
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Date Submitted: 03-Aug-16
Invoice No.: A16-07607
Invoice Date: 31-Aug-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

14 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-50-Geraldton Au - Fire Assay AA

REPORT **A16-07607**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.



CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé".

Emmanuel Esemé , Ph.D.
Quality Control

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Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
262240	< 5	< 0.2	< 0.5	59	569	< 1	23	7	58	2.21	< 2	< 10	278	< 0.5	< 2	2.03	14	52	3.48	< 10	< 1	0.88	12
262241	> 5000	6.7	12.1	1210	545	73	39	193	2170	1.44	70	< 10	17	< 0.5	< 2	1.09	9	23	6.54	< 10	< 1	0.21	11
262242	< 5	< 0.2	< 0.5	47	515	< 1	24	< 2	68	2.58	< 2	< 10	257	< 0.5	< 2	2.13	13	49	3.30	< 10	< 1	0.96	12
262243	< 5	< 0.2	< 0.5	49	488	< 1	16	< 2	49	2.43	< 2	< 10	141	< 0.5	< 2	2.87	13	42	2.98	< 10	< 1	0.52	11
262244	< 5	< 0.2	< 0.5	42	564	< 1	18	< 2	55	2.08	< 2	< 10	166	< 0.5	< 2	2.60	12	46	3.22	< 10	< 1	0.89	10
262245	< 5	< 0.2	< 0.5	41	586	< 1	17	< 2	49	2.03	< 2	< 10	67	< 0.5	< 2	3.60	12	41	3.22	< 10	< 1	0.41	11
262246	< 5	< 0.2	< 0.5	48	685	< 1	20	< 2	54	2.00	< 2	< 10	167	< 0.5	< 2	2.78	12	43	3.43	< 10	< 1	0.69	10
262247	< 5	< 0.2	< 0.5	48	633	< 1	20	< 2	55	1.99	< 2	< 10	138	< 0.5	< 2	3.39	13	45	3.36	< 10	< 1	0.71	11
262248	< 5	< 0.2	< 0.5	48	473	< 1	23	< 2	54	2.08	< 2	< 10	131	< 0.5	< 2	2.49	13	47	3.24	< 10	< 1	0.68	12
262249	< 5	< 0.2	< 0.5	50	644	< 1	23	< 2	52	1.85	< 2	< 10	119	< 0.5	< 2	3.90	13	43	3.34	< 10	< 1	0.60	11
262250	< 5	< 0.2	< 0.5	39	613	< 1	33	< 2	59	3.11	< 2	< 10	283	< 0.5	< 2	2.21	17	55	4.16	< 10	< 1	1.04	11
262251	< 5	< 0.2	< 0.5	< 1	243	< 1	< 1	32	15	0.03	< 2	17	49	< 0.5	< 2	12.1	< 1	< 1	0.06	< 10	1	0.02	< 10
262252	< 5	< 0.2	< 0.5	59	529	< 1	22	< 2	46	2.59	< 2	< 10	97	< 0.5	< 2	3.30	13	46	3.35	< 10	< 1	0.36	12
262253	< 5	< 0.2	< 0.5	43	556	< 1	23	< 2	49	2.50	< 2	< 10	155	< 0.5	< 2	3.12	13	48	3.48	< 10	< 1	0.45	13

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.3	0.01	3	7	1	2	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262240	1.21	0.226	0.067	< 0.01	< 2	12	20	0.22	< 20	5	< 2	< 10	91	< 10	10	7	0.4	5.87	< 3	271	< 1	< 2	4.02
262241	1.61	0.064	0.040	3.98	12	4	60	0.05	< 20	4	< 2	< 10	46	< 10	5	8	7.2	5.32	64	383	< 1	< 2	1.48
262242	1.26	0.322	0.065	< 0.01	< 2	11	27	0.23	< 20	< 1	< 2	< 10	91	< 10	10	3	< 0.3	8.18	< 3	248	< 1	< 2	4.82
262243	1.09	0.333	0.059	< 0.01	< 2	10	34	0.18	< 20	< 1	< 2	< 10	74	< 10	8	3	< 0.3	7.48	< 3	147	< 1	< 2	5.53
262244	1.00	0.213	0.057	< 0.01	< 2	10	24	0.22	< 20	4	< 2	< 10	84	< 10	9	2	< 0.3	3.99	< 3	153	< 1	< 2	4.48
262245	1.06	0.195	0.058	< 0.01	< 2	10	27	0.17	< 20	3	< 2	< 10	72	< 10	9	3	0.4	6.65	3	78	< 1	< 2	6.06
262246	0.88	0.193	0.056	< 0.01	< 2	10	24	0.21	< 20	1	< 2	< 10	78	< 10	9	2	< 0.3	7.11	< 3	166	< 1	< 2	5.20
262247	0.99	0.200	0.058	< 0.01	< 2	10	26	0.21	< 20	< 1	< 2	< 10	78	< 10	9	2	< 0.3	7.62	< 3	142	< 1	< 2	6.00
262248	1.23	0.237	0.061	< 0.01	< 2	10	25	0.22	< 20	10	< 2	< 10	80	< 10	10	3	< 0.3	7.81	< 3	135	< 1	< 2	5.11
262249	1.06	0.189	0.060	< 0.01	< 2	10	23	0.21	< 20	7	< 2	< 10	75	< 10	9	2	< 0.3	7.59	< 3	127	< 1	< 2	6.35
262250	1.39	0.338	0.060	< 0.01	< 2	10	30	0.23	< 20	< 1	< 2	< 10	85	< 10	9	3	< 0.3	7.89	3	287	< 1	< 2	4.53
262251	9.43	0.015	0.002	< 0.01	< 2	< 1	100	< 0.01	< 20	< 1	< 2	< 10	1	< 10	< 1	< 1	< 0.3	0.08	< 3	52	< 1	< 2	17.8
262252	1.18	0.306	0.061	< 0.01	< 2	10	37	0.19	< 20	5	< 2	< 10	74	< 10	9	3	< 0.3	8.24	< 3	123	< 1	< 2	6.10
262253	1.19	0.256	0.064	< 0.01	< 2	10	33	0.20	< 20	< 1	< 2	< 10	76	< 10	10	3	< 0.3	8.33	< 3	195	< 1	< 2	6.05

Analyte Symbol	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262240	0.7	16	60	58	3.86	17	< 1	1.03	1.23	19	791	< 1	2.62	35	0.063	6	< 5	< 0.01	11	120	5	0.37	< 5
262241	12.6	10	43	1150	7.00	14	< 1	1.42	1.80	11	638	85	1.27	56	0.042	194	7	3.91	12	195	8	0.18	< 5
262242	< 0.3	18	39	53	3.83	18	< 1	1.02	1.40	18	694	< 1	2.45	40	0.059	4	< 5	< 0.01	18	138	3	0.16	< 5
262243	0.7	23	58	50	4.02	17	2	0.59	1.40	15	728	< 1	2.24	61	0.055	< 3	23	< 0.01	17	155	13	0.22	< 5
262244	< 0.3	15	57	38	3.23	13	1	0.86	0.87	17	699	< 1	2.35	29	0.050	< 3	< 5	< 0.01	8	112	8	0.34	< 5
262245	< 0.3	16	50	41	4.06	16	< 1	0.49	1.25	15	798	< 1	2.21	37	0.052	6	15	< 0.01	15	142	< 2	0.29	21
262246	< 0.3	19	52	44	3.90	14	< 1	0.76	0.95	16	852	< 1	2.34	35	0.052	< 3	< 5	< 0.01	15	145	5	0.15	< 5
262247	< 0.3	17	43	46	3.99	16	< 1	0.80	1.11	16	792	< 1	2.48	35	0.053	< 3	< 5	< 0.01	17	162	< 2	0.10	< 5
262248	< 0.3	18	46	46	3.88	17	< 1	0.78	1.42	17	630	< 1	2.58	39	0.055	5	< 5	< 0.01	17	155	5	0.11	< 5
262249	0.7	18	45	48	4.20	15	< 1	0.78	1.25	14	838	< 1	2.65	42	0.058	< 3	< 5	< 0.01	17	140	< 2	0.24	< 5
262250	< 0.3	23	51	36	4.97	16	< 1	1.17	1.58	21	868	< 1	2.04	51	0.056	< 3	< 5	< 0.01	18	130	10	0.25	< 5
262251	0.4	< 1	6	< 1	0.09	2	2	0.03	12.2	10	340	< 1	0.03	< 1	0.003	39	< 5	0.01	< 4	137	< 2	< 0.01	< 5
262252	< 0.3	19	44	60	4.63	18	< 1	0.53	1.53	15	800	< 1	2.32	42	0.059	7	< 5	0.01	18	153	14	0.30	< 5
262253	< 0.3	22	44	43	4.97	18	< 1	0.65	1.64	16	870	< 1	2.34	45	0.060	4	< 5	0.01	19	167	13	0.26	7

Analyte Symbol	U	V	W	Y	Zn	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne
Lower Limit	10	2	5	1	1	5	0.02
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	FA-GRA
262240	< 10	112	< 5	13	65	111	
262241	< 10	75	< 5	14	2260	65	5.92
262242	< 10	49	< 5	17	79	48	
262243	< 10	61	< 5	16	67	48	
262244	< 10	101	< 5	9	62	59	
262245	< 10	88	< 5	15	63	55	
262246	< 10	43	< 5	15	64	28	
262247	< 10	32	< 5	16	67	22	
262248	< 10	34	< 5	16	68	34	
262249	< 10	73	< 5	16	67	41	
262250	< 10	68	< 5	17	75	35	
262251	< 10	3	< 5	< 1	24	< 5	
262252	< 10	82	< 5	17	68	44	
262253	< 10	73	< 5	18	73	38	

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas		29.0	2.2	1130	768	13	18	649	699	0.35	388	< 10	512	0.7	1470	0.77	2	7	23.1	< 10	3	0.03	< 10
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50
GXR-1 Meas		28.3	2.7	1150	768	13	21	636	628	0.35	388	< 10	474	0.8	1480	0.77	8	7	23.2	< 10	1	0.03	< 10
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50
GXR-1 Meas		29.3	2.5	1190	802	13	31	667	648	0.38	402	10	481	0.8	1530	0.81	7	6	23.9	< 10	4	0.04	< 10
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50
GXR-4 Meas		3.5	< 0.5	6800	140	298	34	47	72	2.90	100	< 10	77	1.4	7	0.96	13	56	3.25	10	< 1	1.74	51
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5
GXR-4 Meas		3.5	< 0.5	6770	142	307	34	46	68	2.91	104	< 10	45	1.4	13	0.97	13	55	3.29	10	< 1	1.76	52
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5
GXR-4 Meas		3.4	< 0.5	6670	139	304	32	43	65	2.84	101	< 10	29	1.4	19	0.94	14	54	3.22	10	< 1	1.72	54
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5
SDC-1 Meas																							
SDC-1 Cert																							
SDC-1 Meas																							
SDC-1 Cert																							
SDC-1 Meas																							
SDC-1 Cert																							
GXR-6 Meas		0.2	< 0.5	72	1040	1	15	96	126	7.31	218	< 10	949	0.8	< 2	0.13	12	81	5.98	20	< 1	1.18	< 10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
GXR-6 Meas		0.2	< 0.5	72	1040	< 1	17	98	114	7.27	255	< 10	954	0.9	< 2	0.13	13	81	5.96	20	< 1	1.20	< 10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
GXR-6 Meas		0.2	< 0.5	71	1020	< 1	18	98	113	7.11	233	< 10	931	0.8	< 2	0.13	13	80	5.89	20	< 1	1.15	< 10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
Oreas 72a (4 Acid Digest) Meas																							
Oreas 72a (4 Acid Digest) Cert																							
Oreas 72a (4 Acid Digest) Meas																							
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OxP 91 Meas																							
OxP 91 Cert																							
SBC-1 Meas																							
SBC-1 Cert																							
SBC-1 Meas																							
SBC-1 Cert																							
SBC-1 Meas																							
SBC-1 Cert																							
OxK110 Meas																							
OxK110 Cert																							
SdAR-M2 (U.S.G.S.)			5.2	245		13	41	845	748				154	5.0	< 2		13	11		< 10	1		47

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Meas																							
SdAR-M2 (U.S.G.S.) Cert			5.1	236.0000		13.3	48.8	808	760				990	6.6	1.05		12.4	49.6		17.6	1.44		46.6
SdAR-M2 (U.S.G.S.) Meas			5.2	256		13	43	897	791				161	5.1	< 2		14	10		< 10	1		51
SdAR-M2 (U.S.G.S.) Cert			5.1	236.0000		13.3	48.8	808	760				990	6.6	1.05		12.4	49.6		17.6	1.44		46.6
SdAR-M2 (U.S.G.S.) Meas																							
SdAR-M2 (U.S.G.S.) Cert																							
SF85 Meas	823																						
SF85 Cert	848																						
SF85 Meas	826																						
SF85 Cert	848																						
SF85 Meas	830																						
SF85 Cert	848																						
OxD128 Meas	454																						
OxD128 Cert	424.000																						
OxD128 Meas	440																						
OxD128 Cert	424.000																						
OxD128 Meas	425																						
OxD128 Cert	424.000																						
262247 Orig		< 0.2	< 0.5	50	634	< 1	19	< 2	59	2.01	< 2	< 10	138	< 0.5	< 2	3.43	13	45	3.37	< 10	< 1	0.71	11
262247 Dup		< 0.2	< 0.5	48	634	< 1	20	< 2	59	2.02	< 2	< 10	138	< 0.5	< 2	3.41	13	44	3.36	< 10	< 1	0.70	10
262248 Orig		< 0.2	< 0.5	49	478	< 1	24	< 2	54	2.11	< 2	< 10	132	< 0.5	< 2	2.52	14	47	3.27	< 10	< 1	0.69	12
262248 Dup		< 0.2	< 0.5	47	467	< 1	23	2	53	2.04	< 2	< 10	130	< 0.5	< 2	2.45	13	46	3.20	< 10	< 1	0.68	11
262249 Orig	< 5																						
262249 Dup	< 5																						
Method Blank	< 5																						
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	2	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank																							
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Method Blank	< 5																						
Method Blank	< 5																						
Method Blank																							
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank																							

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca	
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.3	0.01	3	7	1	2	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	
GXR-1 Meas	0.13	0.046	0.047	0.21	88	1	174	< 0.01	< 20	14	4	29	73	143	23	16	31.4	2.01	430	688	1	1380	0.89	
GXR-1 Cert	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0	0.390	34.9	80.0	164	32.0	38.0	31.0	3.52	427	750	1.22	1380	0.960	
GXR-1 Meas	0.14	0.046	0.047	0.20	80	1	173	< 0.01	< 20	12	2	31	73	141	24	16	31.5	2.36	406	645	< 1	1380	0.85	
GXR-1 Cert	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0	0.390	34.9	80.0	164	32.0	38.0	31.0	3.52	427	750	1.22	1380	0.960	
GXR-1 Meas	0.15	0.049	0.049	0.21	90	1	183	< 0.01	< 20	15	5	31	75	154	24	16	32.1	2.12	406	663	< 1	1470	0.87	
GXR-1 Cert	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0	0.390	34.9	80.0	164	32.0	38.0	31.0	3.52	427	750	1.22	1380	0.960	
GXR-4 Meas	1.72	0.135	0.132	1.78	6	8	75	0.14	< 20	< 1	< 2	< 10	78	11	11	10	3.6	6.67	101	348	2	22	1.09	
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970	3.20	6.20	87.0	30.8	14.0	186	4.0	7.20	98.0	1640	1.90	19.0	1.01	
GXR-4 Meas	1.72	0.140	0.133	1.82	5	8	74	0.14	< 20	< 1	4	< 10	78	11	12	10	3.5	6.60	101	178	2	22	1.08	
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970	3.20	6.20	87.0	30.8	14.0	186	4.0	7.20	98.0	1640	1.90	19.0	1.01	
GXR-4 Meas	1.69	0.133	0.135	1.82	2	8	74	0.14	< 20	2	2	< 10	78	13	11	10	3.7	6.30	89	229	2	13	1.08	
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970	3.20	6.20	87.0	30.8	14.0	186	4.0	7.20	98.0	1640	1.90	19.0	1.01	
SDC-1 Meas																		7.57	< 3	630	3		1.04	
SDC-1 Cert																		8.34	0.220	630	3.00		1.00	
SDC-1 Meas																		8.01	< 3	630	3		1.10	
SDC-1 Cert																		8.34	0.220	630	3.00		1.00	
SDC-1 Meas																		7.70	< 3	606	3		1.05	
SDC-1 Cert																		8.34	0.220	630	3.00		1.00	
GXR-6 Meas	0.42	0.069	0.036	0.01	5	21	27		< 20	< 1	< 2	< 10	156	< 10	5	6	0.5	12.3	271	> 1000	1	< 2	0.16	
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110	1.30	17.7	330	1300	1.40	0.290	0.180	
GXR-6 Meas	0.43	0.070	0.037	0.01	6	21	27		< 20	< 1	< 2	< 10	169	< 10	5	13	0.4	12.4	229	> 1000	1	< 2	0.16	
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110	1.30	17.7	330	1300	1.40	0.290	0.180	
GXR-6 Meas	0.42	0.068	0.036	0.01	3	21	26		< 20	< 1	< 2	< 10	163	< 10	5	9	0.5	12.5	259	> 1000	1	< 2	0.16	
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110	1.30	17.7	330	1300	1.40	0.290	0.180	
Oreas 72a (4 Acid Digest) Meas																				< 3				
Oreas 72a (4 Acid Digest) Cert																				14.7				
Oreas 72a (4 Acid Digest) Meas																				< 3				
Oreas 72a (4 Acid Digest) Cert																				14.7				
DNC-1a Meas																					98			
DNC-1a Cert																					118			
DNC-1a Meas																					97			
DNC-1a Cert																					118			
DNC-1a Meas																					95			
DNC-1a Cert																					118			
OxP 91 Meas																								
OxP 91 Cert																								
SBC-1 Meas																				23	785	3	< 2	
SBC-1 Cert																				25.7	788.0	3.20	0.70	
SBC-1 Meas																				22	775	3	3	
SBC-1 Cert																				25.7	788.0	3.20	0.70	
SBC-1 Meas																				13	768	3	2	
SBC-1 Cert																				25.7	788.0	3.20	0.70	
OxK110 Meas																								
OxK110 Cert																								
SdAR-M2 (U.S.G.S.)							3	22	< 20			< 10	18	< 10	18	8				> 1000	8	< 2		

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.3	0.01	3	7	1	2	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Meas																							
SdAR-M2 (U.S.G.S.) Cert						4.1	144		14.2			2.53	25.2	2.8	32.7	259				990	6.6	1.05	
SdAR-M2 (U.S.G.S.) Meas						3	23		< 20			< 10	19	< 10	19	8				952	6	< 2	
SdAR-M2 (U.S.G.S.) Cert						4.1	144		14.2			2.53	25.2	2.8	32.7	259				990	6.6	1.05	
SdAR-M2 (U.S.G.S.) Meas																				984	7	< 2	
SdAR-M2 (U.S.G.S.) Cert																				990	6.6	1.05	
SF85 Meas																							
SF85 Cert																							
SF85 Meas																							
SF85 Cert																							
SF85 Meas																							
SF85 Cert																							
OxD128 Meas																							
OxD128 Cert																							
OxD128 Meas																							
OxD128 Cert																							
OxD128 Meas																							
OxD128 Cert																							
262247 Orig	0.99	0.200	0.058	< 0.01	< 2	10	27	0.21	< 20	2	< 2	< 10	79	< 10	9	2	< 0.3	7.66	< 3	143	< 1	< 2	6.03
262247 Dup	0.99	0.199	0.058	< 0.01	< 2	10	28	0.21	< 20	14	< 2	< 10	79	< 10	9	2	< 0.3	7.58	< 3	142	< 1	< 2	5.97
262248 Orig	1.25	0.239	0.061	< 0.01	3	10	25	0.22	< 20	2	< 2	< 10	81	< 10	10	3							
262248 Dup	1.22	0.235	0.060	< 0.01	< 2	10	25	0.22	< 20	3	2	< 10	79	< 10	10	3							
262249 Orig																							
262249 Dup																							
Method Blank																							
Method Blank	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01

Analyte Symbol	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	0.7	7	21	1200	23.6	10	< 1	0.05	0.21	9	871	16	0.05	46	0.058	738	38	0.24	< 4	292	3	0.03	< 5
GXR-1 Cert	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520	41.0	0.0650	730	122	0.257	1.58	275	13.0	0.036	0.390
GXR-1 Meas	5.0	9	20	1130	23.1	16	< 1	0.05	0.20	8	864	14	0.05	42	0.057	723	51	0.24	< 4	287	22	0.03	< 5
GXR-1 Cert	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520	41.0	0.0650	730	122	0.257	1.58	275	13.0	0.036	0.390
GXR-1 Meas	4.4	9	24	1170	23.8	14	< 1	0.05	0.20	8	874	14	0.05	45	0.059	748	31	0.24	< 4	291	26	0.03	< 5
GXR-1 Cert	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520	41.0	0.0650	730	122	0.257	1.58	275	13.0	0.036	0.390
GXR-4 Meas	< 0.3	16	45	6740	3.08	19	< 1	3.76	1.71	12	179	351	0.56	47	0.131	49	< 5	1.79	8	219	3	0.29	< 5
GXR-4 Cert	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564	42.0	0.120	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20
GXR-4 Meas	0.3	15	36	6500	3.12	20	< 1	4.10	1.69	13	153	341	0.57	42	0.132	51	< 5	1.79	8	220	11	0.29	< 5
GXR-4 Cert	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564	42.0	0.120	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20
GXR-4 Meas	0.5	15	52	6170	3.18	16	< 1	3.97	1.69	11	166	341	0.57	41	0.131	61	< 5	1.77	8	212	4	0.27	< 5
GXR-4 Cert	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564	42.0	0.120	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20
SDC-1 Meas		19	49	27	4.60	24	< 1	1.80	0.97	34	874		1.50	37	0.052	21	< 5		16	167		0.10	< 5
SDC-1 Cert		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34.00	880.00		1.52	38.0	0.0690	25.00	0.54		17.00	180.00		0.606	0.70
SDC-1 Meas		19	44	32	4.87	23	< 1	2.76	0.99	33	895		1.56	29	0.053	23	< 5		16	174		0.17	< 5
SDC-1 Cert		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34.00	880.00		1.52	38.0	0.0690	25.00	0.54		17.00	180.00		0.606	0.70
SDC-1 Meas		18	67	28	4.66	20	< 1	2.68	0.95	31	856		1.51	42	0.051	20	< 5		16	173		0.10	< 5
SDC-1 Cert		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34.00	880.00		1.52	38.0	0.0690	25.00	0.54		17.00	180.00		0.606	0.70
GXR-6 Meas	< 0.3	16	67	71	5.86	30	< 1	1.40	0.60	34	1080	4	0.10	29	0.036	99	< 5	0.02	26	35	6		< 5
GXR-6 Cert	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104	27.0	0.0350	101	3.60	0.0160	27.6	35.0	0.0180		2.20
GXR-6 Meas	0.8	15	63	70	5.81	31	< 1	1.95	0.58	31	1080	1	0.10	29	0.035	97	< 5	0.01	28	36	12		< 5
GXR-6 Cert	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104	27.0	0.0350	101	3.60	0.0160	27.6	35.0	0.0180		2.20
GXR-6 Meas	1.2	15	64	73	5.98	30	6	1.96	0.60	32	1080	< 1	0.10	28	0.036	104	< 5	0.02	26	36	< 2		< 5
GXR-6 Cert	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104	27.0	0.0350	101	3.60	0.0160	27.6	35.0	0.0180		2.20
Oreas 72a (4 Acid Digest) Meas		153	194	329	9.75									6420				1.62					
Oreas 72a (4 Acid Digest) Cert		157	228	316	9.63									6930.000				1.74					
Oreas 72a (4 Acid Digest) Meas		160	189	336	9.67									6720				1.66					
Oreas 72a (4 Acid Digest) Cert		157	228	316	9.63									6930.000				1.74					
DNC-1a Meas		56	202	97		14				5				258		5	< 5		32	130		0.29	
DNC-1a Cert		57.0	270	100.00		15				5.20				247		6.3	0.96		31	144.0		0.29	
DNC-1a Meas		56	198	99		13				5				261		3	< 5		31	127		0.28	
DNC-1a Cert		57.0	270	100.00		15				5.20				247		6.3	0.96		31	144.0		0.29	
DNC-1a Meas		56	234	101		13				5				255		5	< 5		30	130		0.28	
DNC-1a Cert		57.0	270	100.00		15				5.20				247		6.3	0.96		31	144.0		0.29	
OxP 91 Meas																							
OxP 91 Cert																							
SBC-1 Meas	< 0.3	24	83	27		27				159		2		86		33	< 5		20	174		0.53	< 5
SBC-1 Cert	0.40	22.7	109	31.0000		27.0				163.0		2.40		82.8		35.0	1.01		20.0	178.0		0.51	0.89
SBC-1 Meas	1.0	24	89	32		27				156		2		89		26	< 5		20	177		0.51	< 5
SBC-1 Cert	0.40	22.7	109	31.0000		27.0				163.0		2.40		82.8		35.0	1.01		20.0	178.0		0.51	0.89
SBC-1 Meas	0.9	24	100	32		28				154		1		87		30	< 5		20	180		0.52	< 5
SBC-1 Cert	0.40	22.7	109	31.0000		27.0				163.0		2.40		82.8		35.0	1.01		20.0	178.0		0.51	0.89
OxK110 Meas																							
OxK110 Cert																							
SdAR-M2 (U.S.G.S.)	5.2	15	48	247		20	1			18		12		55		802			4	146			

Analyte Symbol	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Meas																							
SdAR-M2 (U.S.G.S.) Cert	5.1	12.4	49.6	236.0000		17.6	1.44			17.9		13.3		48.8		808			4.1	144			
SdAR-M2 (U.S.G.S.) Meas	5.0	13	54	229		16	2			18		12		51		819			4	141			
SdAR-M2 (U.S.G.S.) Cert	5.1	12.4	49.6	236.0000		17.6	1.44			17.9		13.3		48.8		808			4.1	144			
SdAR-M2 (U.S.G.S.) Meas	5.5	14	39	241		17	< 1			17		9		51		822			5	151			
SdAR-M2 (U.S.G.S.) Cert	5.1	12.4	49.6	236.0000		17.6	1.44			17.9		13.3		48.8		808			4.1	144			
SF85 Meas																							
SF85 Cert																							
SF85 Meas																							
SF85 Cert																							
SF85 Meas																							
SF85 Cert																							
OxD128 Meas																							
OxD128 Cert																							
OxD128 Meas																							
OxD128 Cert																							
OxD128 Meas																							
OxD128 Cert																							
262247 Orig	< 0.3	17	52	46	4.03	16	< 1	0.81	1.12	16	807	< 1	2.50	34	0.054	< 3	< 5	< 0.01	17	163	18	0.11	< 5
262247 Dup	< 0.3	17	35	46	3.95	16	< 1	0.79	1.10	16	777	< 1	2.46	35	0.053	< 3	< 5	< 0.01	16	161	< 2	0.10	< 5
262248 Orig																							
262248 Dup																							
262249 Orig																							
262249 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		3	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	4	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	2	< 0.01	< 5
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5

Analyte Symbol	U	V	W	Y	Zn	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne
Lower Limit	10	2	5	1	1	5	0.02
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	FA-GRA
GXR-1 Meas	30	88	157	35	737	32	
GXR-1 Cert	34.9	80.0	164	32.0	760	38.0	
GXR-1 Meas	40	89	158	34	734	31	
GXR-1 Cert	34.9	80.0	164	32.0	760	38.0	
GXR-1 Meas	40	91	161	35	746	31	
GXR-1 Cert	34.9	80.0	164	32.0	760	38.0	
GXR-4 Meas	< 10	88	38	15	71	46	
GXR-4 Cert	6.20	87.0	30.8	14.0	73.0	186	
GXR-4 Meas	< 10	93	37	15	73	47	
GXR-4 Cert	6.20	87.0	30.8	14.0	73.0	186	
GXR-4 Meas	< 10	92	33	15	75	46	
GXR-4 Cert	6.20	87.0	30.8	14.0	73.0	186	
SDC-1 Meas	< 10	38	< 5		95	35	
SDC-1 Cert	3.10	102.00	0.80		103.00	290.00	
SDC-1 Meas	< 10	48	< 5		101	30	
SDC-1 Cert	3.10	102.00	0.80		103.00	290.00	
SDC-1 Meas	< 10	43	< 5		97	34	
SDC-1 Cert	3.10	102.00	0.80		103.00	290.00	
GXR-6 Meas	< 10	149	< 5	11	129	70	
GXR-6 Cert	1.54	186	1.90	14.0	118	110	
GXR-6 Meas	< 10	96	< 5	13	131	59	
GXR-6 Cert	1.54	186	1.90	14.0	118	110	
GXR-6 Meas	< 10	139	< 5	12	130	72	
GXR-6 Cert	1.54	186	1.90	14.0	118	110	
Oreas 72a (4 Acid Digest) Meas							
Oreas 72a (4 Acid Digest) Cert							
Oreas 72a (4 Acid Digest) Meas							
Oreas 72a (4 Acid Digest) Cert							
DNC-1a Meas		139		17	56	36	
DNC-1a Cert		148.0000		18.0	70.0	38.0	
DNC-1a Meas		149		16	57	35	
DNC-1a Cert		148.0000		18.0	70.0	38.0	
DNC-1a Meas		144		17	57	36	
DNC-1a Cert		148.0000		18.0	70.0	38.0	
OxP 91 Meas							14.8
OxP 91 Cert							14.82
SBC-1 Meas	< 10	213	< 5	32	177	117	
SBC-1 Cert	5.76	220.0	1.60	36.5	186.0	134.0	
SBC-1 Meas	< 10	228	< 5	32	196	117	
SBC-1 Cert	5.76	220.0	1.60	36.5	186.0	134.0	
SBC-1 Meas	< 10	227	< 5	32	183	116	
SBC-1 Cert	5.76	220.0	1.60	36.5	186.0	134.0	
OxK110 Meas							3.59

Analyte Symbol	U	V	W	Y	Zn	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne
Lower Limit	10	2	5	1	1	5	0.02
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	FA-GRA
OxK110 Cert							3.602
SdAR-M2 (U.S.G.S.) Meas	< 10	26	9	29	780	127	
SdAR-M2 (U.S.G.S.) Cert	2.53	25.2	2.8	32.7	760	259	
SdAR-M2 (U.S.G.S.) Meas	< 10	26	12	29	775	127	
SdAR-M2 (U.S.G.S.) Cert	2.53	25.2	2.8	32.7	760	259	
SdAR-M2 (U.S.G.S.) Meas	< 10	24	9	30	782	113	
SdAR-M2 (U.S.G.S.) Cert	2.53	25.2	2.8	32.7	760	259	
SF85 Meas							
SF85 Cert							
SF85 Meas							
SF85 Cert							
SF85 Meas							
SF85 Cert							
OxD128 Meas							
OxD128 Cert							
OxD128 Meas							
OxD128 Cert							
OxD128 Meas							
OxD128 Cert							
262247 Orig	< 10	34	< 5	16	67	24	
262247 Dup	< 10	30	< 5	16	66	20	
262248 Orig							
262248 Dup							
262249 Orig							
262249 Dup							
Method Blank							
Method Blank							
Method Blank							
Method Blank							
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5	
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5	
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5	
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5	
Method Blank							
Method Blank							
Method Blank							< 0.02
Method Blank							
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5	



Date Submitted: 03-Aug-16
Invoice No.: A16-07603
Invoice Date: 31-Aug-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

34 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1E3-Tbay Aqua Regia ICP(AQUAGEO)

Code 1F2-Tbay Total Digestion ICP(TOTAL)

REPORT **A16-07603**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

A handwritten signature in black ink, appearing to read "Emmanuel Esemé". The signature is stylized with loops and is positioned above a horizontal line.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Date Submitted: 03-Aug-16
Invoice No.: A16-07603
Invoice Date: 31-Aug-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

34 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-50-Geraldton Au - Fire Assay AA

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.



CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé".

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
801 Main Street, P.O. Box 999, Geraldton, Ontario, Canada, P0T 1M0
TELEPHONE +807 854-2020 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Geraldton@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A16-07603

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
262206	< 5	< 0.2	< 0.5	2	290	< 1	4	4	46	1.33	< 2	< 10	227	< 0.5	< 2	0.62	7	23	2.02	< 10	< 1	0.62	12
262207	< 5	< 0.2	< 0.5	< 1	312	< 1	4	< 2	46	1.41	< 2	< 10	192	< 0.5	< 2	0.87	6	24	2.08	< 10	< 1	0.65	12
262208	< 5	< 0.2	< 0.5	< 1	321	< 1	4	< 2	50	1.51	< 2	< 10	207	< 0.5	< 2	0.95	8	24	2.25	< 10	< 1	0.67	12
262209	< 5	< 0.2	< 0.5	< 1	243	< 1	2	< 2	37	1.21	< 2	< 10	156	< 0.5	< 2	1.59	6	23	1.74	< 10	< 1	0.59	10
262210	< 5	< 0.2	< 0.5	3	233	< 1	4	< 2	39	1.18	< 2	< 10	190	< 0.5	< 2	0.97	6	29	1.67	< 10	< 1	0.60	< 10
262211	< 5	< 0.2	< 0.5	< 1	227	< 1	< 1	5	6	0.03	< 2	20	67	< 0.5	< 2	13.3	< 1	< 1	0.05	< 10	< 1	0.02	< 10
262212	< 5	< 0.2	< 0.5	2	212	< 1	4	< 2	41	1.14	< 2	< 10	187	< 0.5	< 2	0.77	6	25	1.70	< 10	< 1	0.56	10
262213	< 5	< 0.2	< 0.5	7	228	< 1	2	< 2	49	1.18	< 2	< 10	189	< 0.5	< 2	0.69	7	26	1.77	< 10	< 1	0.56	10
262214	< 5	< 0.2	< 0.5	5	215	< 1	3	2	42	1.13	< 2	< 10	197	< 0.5	< 2	0.70	6	24	1.68	< 10	< 1	0.61	10
262215	< 5	< 0.2	< 0.5	6	208	< 1	1	< 2	41	1.17	< 2	< 10	172	< 0.5	< 2	0.50	6	22	1.72	< 10	< 1	0.61	10
262216	< 5	< 0.2	< 0.5	4	244	< 1	3	< 2	44	1.19	< 2	< 10	184	< 0.5	< 2	0.56	6	21	1.79	< 10	< 1	0.59	11
262217	< 5	< 0.2	< 0.5	4	230	< 1	2	< 2	37	0.95	< 2	< 10	104	< 0.5	< 2	0.52	6	26	1.60	< 10	< 1	0.31	< 10
262218	< 5	0.2	< 0.5	109	1500	< 1	10	2	48	2.42	4	< 10	13	< 0.5	< 2	2.19	12	25	5.48	< 10	< 1	0.07	12
262219	8	< 0.2	< 0.5	95	2000	< 1	23	< 2	55	4.11	< 2	< 10	232	< 0.5	< 2	4.17	17	31	7.55	10	< 1	0.61	10
262220	< 5	< 0.2	< 0.5	37	1460	< 1	11	3	42	3.02	< 2	< 10	108	< 0.5	< 2	3.70	12	24	4.96	< 10	< 1	0.38	< 10
262221	353	< 0.2	< 0.5	44	524	3	11	10	41	2.31	152	< 10	124	< 0.5	< 2	1.60	9	30	3.74	< 10	< 1	0.14	< 10
262222	< 5	< 0.2	< 0.5	53	894	< 1	17	< 2	68	2.07	< 2	< 10	248	< 0.5	< 2	2.74	12	32	3.53	< 10	< 1	1.03	11
262223	< 5	< 0.2	< 0.5	50	741	< 1	15	< 2	63	1.87	< 2	< 10	284	< 0.5	< 2	2.15	12	33	3.27	< 10	< 1	0.88	12
262224	< 5	< 0.2	< 0.5	53	772	< 1	18	< 2	56	1.72	< 2	< 10	264	< 0.5	< 2	1.96	14	30	3.36	< 10	< 1	0.56	12
262225	< 5	< 0.2	< 0.5	52	339	< 1	11	< 2	41	1.19	< 2	< 10	150	< 0.5	< 2	1.26	10	31	2.04	< 10	< 1	0.29	13
262226	< 5	< 0.2	< 0.5	48	366	< 1	11	< 2	38	1.23	< 2	< 10	147	< 0.5	< 2	1.61	10	30	2.16	< 10	< 1	0.28	12
262227	< 5	< 0.2	< 0.5	45	376	< 1	13	< 2	41	1.78	< 2	< 10	81	< 0.5	< 2	1.73	11	30	2.72	< 10	< 1	0.19	12
262228	< 5	< 0.2	< 0.5	46	464	< 1	12	< 2	48	2.34	< 2	< 10	29	< 0.5	< 2	2.46	11	26	2.84	< 10	< 1	0.06	13
262229	< 5	< 0.2	< 0.5	42	855	< 1	16	3	69	2.24	< 2	< 10	110	< 0.5	< 2	2.46	13	26	3.90	< 10	< 1	0.39	12
262230	< 5	< 0.2	< 0.5	37	1680	< 1	20	< 2	50	3.91	< 2	< 10	79	< 0.5	< 2	4.28	14	23	6.51	10	< 1	0.33	10
262231	< 5	< 0.2	< 0.5	< 1	233	< 1	< 1	5	6	0.12	< 2	35	283	< 0.5	< 2	13.3	< 1	< 1	0.07	< 10	< 1	0.08	< 10
262232	< 5	< 0.2	< 0.5	31	1630	< 1	13	< 2	44	4.99	< 2	< 10	96	< 0.5	< 2	4.40	13	25	5.93	10	< 1	0.40	11
262233	< 5	< 0.2	< 0.5	51	649	< 1	14	< 2	48	2.73	< 2	< 10	166	< 0.5	< 2	2.98	12	28	3.62	< 10	< 1	0.59	10
262234	< 5	< 0.2	< 0.5	45	884	< 1	15	< 2	47	3.07	< 2	< 10	130	< 0.5	< 2	3.17	12	28	4.09	< 10	< 1	0.43	11
262235	< 5	< 0.2	< 0.5	36	1080	< 1	22	< 2	50	3.49	< 2	< 10	142	< 0.5	< 2	4.15	13	36	4.47	< 10	< 1	0.61	10
262236	< 5	< 0.2	< 0.5	35	770	< 1	21	< 2	47	2.20	< 2	< 10	157	< 0.5	< 2	3.30	12	41	3.44	< 10	< 1	0.60	12
262237	< 5	< 0.2	< 0.5	36	359	< 1	15	3	34	1.28	< 2	< 10	126	< 0.5	< 2	1.83	8	41	2.10	< 10	< 1	0.38	10
262238	5	< 0.2	< 0.5	53	1090	< 1	21	< 2	46	2.82	< 2	< 10	126	< 0.5	< 2	3.69	14	40	5.01	< 10	< 1	0.41	12
262239	< 5	< 0.2	< 0.5	46	536	< 1	23	< 2	52	2.23	< 2	< 10	142	< 0.5	< 2	2.57	13	44	3.27	< 10	< 1	0.69	11

Results

Activation Laboratories Ltd.

Report: A16-07603

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.3	0.01	3	7	1	2	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262206	0.67	0.196	0.034	< 0.01	< 2	5	20	0.13	< 20	< 1	< 2	< 10	36	< 10	3	16	< 0.3	8.43	< 3	239	< 1	< 2	2.00
262207	0.69	0.192	0.034	< 0.01	< 2	5	25	0.14	< 20	3	< 2	< 10	36	< 10	3	15	0.3	8.45	< 3	222	< 1	< 2	2.39
262208	0.77	0.185	0.038	< 0.01	< 2	4	21	0.12	< 20	1	< 2	< 10	38	< 10	3	16	0.4	9.10	< 3	303	< 1	< 2	2.26
262209	0.65	0.166	0.031	< 0.01	< 2	4	28	0.13	< 20	4	< 2	< 10	31	< 10	2	17	< 0.3	7.54	< 3	205	< 1	< 2	2.76
262210	0.65	0.182	0.028	< 0.01	< 2	4	22	0.11	< 20	6	< 2	< 10	28	< 10	2	15	0.3	6.67	< 3	219	< 1	< 2	2.00
262211	10.1	0.019	0.003	< 0.01	< 2	< 1	104	< 0.01	< 20	< 1	< 2	< 10	1	< 10	< 1	< 1	< 0.3	0.07	< 3	65	< 1	< 2	18.0
262212	0.60	0.163	0.030	< 0.01	< 2	4	25	0.12	< 20	8	< 2	< 10	31	< 10	2	14	0.4	7.72	< 3	226	< 1	< 2	2.10
262213	0.59	0.169	0.030	< 0.01	< 2	4	28	0.13	< 20	3	< 2	< 10	33	< 10	3	14	< 0.3	7.64	< 3	218	< 1	< 2	2.08
262214	0.57	0.173	0.030	< 0.01	< 2	4	25	0.13	< 20	7	< 2	< 10	31	< 10	2	15	< 0.3	7.54	< 3	223	< 1	< 2	2.10
262215	0.61	0.179	0.031	< 0.01	< 2	4	20	0.14	< 20	< 1	< 2	< 10	32	< 10	2	14	1.4	7.32	< 3	195	< 1	< 2	1.91
262216	0.63	0.175	0.032	< 0.01	< 2	4	21	0.14	< 20	4	< 2	< 10	32	< 10	3	15	0.5	7.42	< 3	196	< 1	< 2	1.87
262217	0.53	0.165	0.029	< 0.01	2	4	15	0.10	< 20	4	< 2	< 10	31	< 10	2	17	< 0.3	7.44	< 3	118	< 1	< 2	1.58
262218	1.16	0.269	0.064	0.02	< 2	9	12	0.15	< 20	4	< 2	< 10	62	< 10	9	7	0.4	6.95	< 3	17	< 1	3	4.44
262219	1.55	0.350	0.065	0.02	4	10	28	0.18	< 20	< 1	< 2	< 10	72	< 10	9	5	0.5	7.07	< 3	240	< 1	< 2	6.19
262220	1.03	0.312	0.049	< 0.01	< 2	9	35	0.16	< 20	6	< 2	< 10	59	< 10	7	3	< 0.3	4.14	< 3	101	< 1	< 2	5.00
262221	0.77	0.209	0.050	0.05	4	7	80	0.17	< 20	8	< 2	< 10	88	< 10	9	5	< 0.3	7.55	123	456	< 1	< 2	3.83
262222	1.17	0.170	0.071	< 0.01	< 2	15	13	0.25	< 20	3	< 2	< 10	100	< 10	11	12	0.4	7.71	< 3	238	< 1	< 2	4.95
262223	1.30	0.161	0.073	< 0.01	< 2	13	17	0.24	< 20	< 1	< 2	< 10	97	< 10	11	13	0.4	7.72	< 3	291	< 1	< 2	4.31
262224	1.10	0.175	0.070	< 0.01	< 2	13	18	0.22	< 20	1	< 2	< 10	90	< 10	10	10	0.3	7.90	< 3	290	< 1	< 2	4.35
262225	1.01	0.182	0.074	< 0.01	< 2	9	17	0.20	< 20	< 1	< 2	< 10	77	< 10	9	16	< 0.3	7.91	13	182	< 1	5	3.95
262226	0.96	0.166	0.075	< 0.01	< 2	9	17	0.19	< 20	< 1	< 2	< 10	82	< 10	9	14	0.3	8.28	< 3	189	< 1	< 2	4.08
262227	0.99	0.252	0.076	< 0.01	< 2	10	36	0.18	< 20	4	< 2	< 10	74	< 10	9	9	0.5	8.57	< 3	103	< 1	< 2	4.67
262228	0.87	0.343	0.077	< 0.01	< 2	10	59	0.17	< 20	9	< 2	< 10	66	< 10	9	5	< 0.3	8.27	< 3	60	< 1	< 2	5.42
262229	1.13	0.216	0.069	< 0.01	< 2	9	21	0.17	< 20	3	< 2	< 10	74	< 10	8	6	0.4	8.17	< 3	143	< 1	< 2	4.91
262230	1.32	0.328	0.065	< 0.01	2	9	35	0.16	< 20	6	< 2	< 10	66	< 10	8	4	< 0.3	4.64	< 3	100	< 1	< 2	5.77
262231	11.4	0.026	0.002	< 0.01	< 2	< 1	107	< 0.01	< 20	2	< 2	< 10	1	< 10	< 1	< 1	< 0.3	0.14	< 3	265	< 1	< 2	17.5
262232	1.29	0.489	0.069	< 0.01	< 2	9	71	0.18	< 20	5	< 2	< 10	71	< 10	9	4	0.3	7.43	< 3	110	< 1	< 2	6.24
262233	1.01	0.336	0.065	< 0.01	< 2	10	29	0.19	< 20	4	< 2	< 10	78	< 10	9	7	< 0.3	7.28	< 3	170	< 1	< 2	5.15
262234	1.08	0.358	0.070	< 0.01	< 2	10	34	0.19	< 20	3	< 2	< 10	78	< 10	9	7	< 0.3	7.99	< 3	150	< 1	< 2	5.58
262235	1.07	0.338	0.065	< 0.01	< 2	10	42	0.18	< 20	< 1	< 2	< 10	76	< 10	8	4	< 0.3	7.64	< 3	147	< 1	< 2	6.47
262236	1.07	0.246	0.068	< 0.01	< 2	10	19	0.19	< 20	5	< 2	< 10	78	< 10	9	7	< 0.3	8.01	< 3	166	< 1	< 2	5.94
262237	0.70	0.157	0.053	< 0.01	< 2	9	15	0.16	< 20	2	< 2	< 10	69	< 10	9	8	< 0.3	6.63	< 3	138	< 1	< 2	4.05
262238	1.14	0.284	0.062	< 0.01	< 2	11	25	0.17	< 20	< 1	< 2	< 10	75	< 10	9	5	0.3	7.63	< 3	138	< 1	3	6.16
262239	1.19	0.260	0.060	< 0.01	< 2	11	21	0.19	< 20	2	< 2	< 10	80	< 10	9	5	< 0.3	7.61	< 3	144	< 1	< 2	5.01

Results

Activation Laboratories Ltd.

Report: A16-07603

Analyte Symbol	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	
Lower Limit	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262206	< 0.3	6	23	3	2.02	21	< 1	0.73	0.63	15	334	1	5.22	13	0.030	< 3	< 5	< 0.01	5	279	< 2	0.11	< 5
262207	< 0.3	7	21	3	1.94	20	< 1	0.81	0.60	19	322	< 1	5.20	8	0.029	< 3	< 5	< 0.01	5	330	< 2	0.13	< 5
262208	1.0	12	26	5	2.29	22	1	0.99	0.73	24	340	< 1	5.29	12	0.035	18	< 5	< 0.01	6	274	3	0.19	< 5
262209	< 0.3	6	28	2	1.68	17	< 1	0.79	0.59	16	263	2	4.42	7	0.027	3	< 5	< 0.01	5	301	< 2	0.13	< 5
262210	0.5	5	22	2	1.60	16	< 1	0.76	0.60	18	247	< 1	4.05	6	0.025	4	< 5	< 0.01	4	244	< 2	0.11	< 5
262211	< 0.3	1	8	< 1	0.06	1	< 1	0.03	11.8	11	287	< 1	0.04	< 1	0.003	10	< 5	< 0.01	< 4	125	< 2	< 0.01	< 5
262212	< 0.3	7	16	2	1.67	18	< 1	0.75	0.55	17	234	< 1	4.48	7	0.027	< 3	< 5	< 0.01	5	335	< 2	0.17	< 5
262213	< 0.3	6	21	7	1.70	18	1	0.72	0.53	18	241	2	4.23	8	0.028	< 3	< 5	< 0.01	5	355	< 2	0.17	< 5
262214	< 0.3	6	22	61	1.70	19	< 1	0.75	0.54	17	255	< 1	4.56	6	0.028	< 3	< 5	< 0.01	5	296	< 2	0.12	5
262215	0.6	6	23	7	1.69	19	< 1	0.73	0.57	18	239	1	4.47	8	0.027	< 3	< 5	< 0.01	5	267	< 2	0.12	< 5
262216	< 0.3	6	27	4	1.73	18	< 1	0.71	0.57	18	273	< 1	4.53	7	0.029	< 3	< 5	< 0.01	5	290	4	0.16	< 5
262217	0.5	6	32	5	1.66	19	< 1	0.39	0.52	11	283	1	4.78	6	0.026	< 3	< 5	< 0.01	4	250	< 2	0.16	< 5
262218	1.0	26	31	106	10.9	15	< 1	0.13	2.46	10	4060	< 1	1.96	43	0.060	< 3	< 5	0.02	17	160	8	0.37	< 5
262219	1.7	23	40	93	10.7	16	< 1	0.83	2.05	19	3350	< 1	1.17	44	0.065	< 3	< 5	0.02	17	87	3	0.38	< 5
262220	0.4	17	44	35	6.21	12	< 1	0.46	1.21	12	2120	< 1	0.98	29	0.043	< 3	< 5	< 0.01	11	83	< 2	0.28	< 5
262221	0.5	14	54	45	4.76	14	< 1	0.88	1.32	7	931	2	2.53	24	0.047	15	< 5	0.04	20	297	< 2	0.29	< 5
262222	< 0.3	16	42	53	3.70	17	1	1.06	1.18	25	1080	< 1	2.82	29	0.061	< 3	< 5	< 0.01	18	103	< 2	0.18	< 5
262223	< 0.3	15	32	49	3.56	18	< 1	0.94	1.35	28	968	< 1	3.13	29	0.060	< 3	< 5	< 0.01	17	142	< 2	0.14	< 5
262224	< 0.3	19	23	53	4.19	17	< 1	0.65	1.30	24	1120	< 1	3.19	35	0.060	5	< 5	< 0.01	19	212	4	0.10	< 5
262225	< 0.3	17	34	56	3.59	19	2	0.35	1.76	19	797	< 1	3.75	32	0.061	< 3	< 5	< 0.01	17	227	20	0.13	6
262226	0.5	16	33	45	3.81	19	< 1	0.39	1.60	20	813	< 1	3.78	30	0.068	< 3	10	< 0.01	18	237	< 2	0.29	< 5
262227	< 0.3	19	39	51	4.66	19	< 1	0.29	1.59	18	770	< 1	3.13	32	0.074	< 3	< 5	< 0.01	19	351	< 2	0.42	< 5
262228	< 0.3	18	44	49	4.83	20	< 1	0.14	1.40	14	854	< 1	2.63	35	0.071	< 3	< 5	0.01	18	334	< 2	0.33	< 5
262229	0.4	20	33	46	5.45	19	< 1	0.62	1.49	25	1320	< 1	2.70	33	0.068	< 3	< 5	< 0.01	17	186	21	0.39	< 5
262230	0.7	21	40	34	8.30	18	< 1	0.52	1.51	24	2550	< 1	1.24	35	0.059	3	< 5	< 0.01	9	84	< 2	0.35	< 5
262231	< 0.3	< 1	6	< 1	0.09	2	< 1	0.10	12.2	9	296	< 1	0.03	< 1	0.002	< 3	< 5	0.01	< 4	129	< 2	< 0.01	< 5
262232	0.7	28	41	30	8.67	17	3	0.59	1.76	17	2690	1	1.15	34	0.059	< 3	< 5	< 0.01	17	112	7	0.25	< 5
262233	< 0.3	17	37	49	4.63	16	1	0.68	1.26	16	926	< 1	2.11	30	0.056	< 3	< 5	< 0.01	16	103	5	0.18	< 5
262234	0.4	18	31	48	5.69	18	< 1	0.55	1.49	14	1340	< 1	2.17	34	0.060	< 3	17	0.01	18	121	< 2	0.23	< 5
262235	1.0	21	36	38	6.13	17	< 1	0.79	1.37	15	1700	< 1	1.80	37	0.059	< 3	< 5	< 0.01	16	104	< 2	0.23	< 5
262236	0.9	19	41	35	4.77	21	< 1	0.75	1.37	13	1110	< 1	2.63	38	0.062	< 3	< 5	< 0.01	18	132	4	0.25	< 5
262237	< 0.3	12	65	39	2.81	14	< 1	0.49	0.89	11	530	< 1	2.56	30	0.050	< 3	< 5	< 0.01	15	130	< 2	0.16	< 5
262238	0.6	23	50	54	7.21	15	< 1	0.56	1.60	15	1690	< 1	2.07	47	0.058	< 3	< 5	< 0.01	19	151	< 2	0.32	< 5
262239	< 0.3	18	35	48	3.97	16	5	0.76	1.39	16	733	< 1	2.40	40	0.053	< 3	< 5	< 0.01	17	128	< 2	0.15	< 5

Results

Activation Laboratories Ltd.

Report: A16-07603

Analyte Symbol	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262206	< 10	24	< 5	4	48	61
262207	< 10	28	< 5	3	46	60
262208	< 10	47	< 5	4	52	80
262209	< 10	26	< 5	3	38	62
262210	< 10	24	< 5	3	41	57
262211	< 10	4	< 5	< 1	10	< 5
262212	< 10	34	< 5	3	38	72
262213	< 10	35	< 5	3	46	72
262214	< 10	26	< 5	3	46	59
262215	< 10	26	< 5	3	44	61
262216	< 10	32	< 5	3	46	72
262217	< 10	34	< 5	3	39	68
262218	< 10	107	5	19	104	127
262219	< 10	113	< 5	18	82	121
262220	< 10	88	< 5	11	58	59
262221	< 10	127	< 5	21	57	33
262222	< 10	57	< 5	16	74	115
262223	< 10	47	< 5	16	72	110
262224	< 10	39	< 5	16	72	78
262225	< 10	40	< 5	16	75	89
262226	< 10	84	< 5	16	70	113
262227	< 10	116	< 5	17	69	107
262228	< 10	90	5	17	85	70
262229	< 10	109	< 5	16	109	101
262230	< 10	105	< 5	12	71	84
262231	< 10	3	< 5	< 1	6	< 5
262232	< 10	88	< 5	18	68	91
262233	< 10	49	< 5	16	64	65
262234	< 10	61	< 5	17	71	76
262235	< 10	65	< 5	17	71	73
262236	< 10	72	< 5	17	67	91
262237	< 10	56	< 5	14	48	83
262238	< 10	109	< 5	17	71	84
262239	< 10	45	< 5	16	66	71

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas		29.0	2.2	1130	768	13	18	649	699	0.35	388	< 10	512	0.7	1470	0.77	2	7	23.1	< 10	3	0.03	< 10
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50
GXR-1 Meas		28.3	2.7	1150	768	13	21	636	628	0.35	388	< 10	474	0.8	1480	0.77	8	7	23.2	< 10	1	0.03	< 10
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50
GXR-1 Meas		29.3	2.5	1190	802	13	31	667	648	0.38	402	10	481	0.8	1530	0.81	7	6	23.9	< 10	4	0.04	< 10
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50
GXR-4 Meas		3.5	< 0.5	6800	140	298	34	47	72	2.90	100	< 10	77	1.4	7	0.96	13	56	3.25	10	< 1	1.74	51
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5
GXR-4 Meas		3.5	< 0.5	6770	142	307	34	46	68	2.91	104	< 10	45	1.4	13	0.97	13	55	3.29	10	< 1	1.76	52
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5
GXR-4 Meas		3.4	< 0.5	6670	139	304	32	43	65	2.84	101	< 10	29	1.4	19	0.94	14	54	3.22	10	< 1	1.72	54
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5
SDC-1 Meas																							
SDC-1 Cert																							
SDC-1 Meas																							
SDC-1 Cert																							
SDC-1 Meas																							
SDC-1 Cert																							
GXR-6 Meas		0.2	< 0.5	72	1040	1	15	96	126	7.31	218	< 10	949	0.8	< 2	0.13	12	81	5.98	20	< 1	1.18	< 10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
GXR-6 Meas		0.2	< 0.5	72	1040	< 1	17	98	114	7.27	255	< 10	954	0.9	< 2	0.13	13	81	5.96	20	< 1	1.20	< 10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
GXR-6 Meas		0.2	< 0.5	71	1020	< 1	18	98	113	7.11	233	< 10	931	0.8	< 2	0.13	13	80	5.89	20	< 1	1.15	< 10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
Oreas 72a (4 Acid Digest) Meas																							
Oreas 72a (4 Acid Digest) Cert																							
Oreas 72a (4 Acid Digest) Meas																							
Oreas 72a (4 Acid Digest) Cert																							
DNC-1a Meas																							
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DNC-1a Cert																							
SBC-1 Meas																							
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SBC-1 Cert																							
SBC-1 Meas																							
SBC-1 Cert																							
SdAR-M2 (U.S.G.S.) Meas			5.2	245		13	41	845	748				154	5.0	< 2		13	11		< 10	1		47
SdAR-M2 (U.S.G.S.) Cert			5.1	236.0000		13.3	48.8	808	760				990	6.6	1.05		12.4	49.6		17.6	1.44		46.6
SdAR-M2 (U.S.G.S.) Meas			5.2	256		13	43	897	791				161	5.1	< 2		14	10		< 10	1		51

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
SdAR-M2 (U.S.G.S.) Cert			5.1	236.0000		13.3	48.8	808	760				990	6.6	1.05		12.4	49.6		17.6	1.44		46.6
SdAR-M2 (U.S.G.S.) Meas																							
SdAR-M2 (U.S.G.S.) Cert																							
SF85 Meas	823																						
SF85 Cert	848																						
OxD128 Meas	454																						
OxD128 Cert	424.000																						
262211 Orig		< 0.2	< 0.5	< 1	228	< 1	< 1	7	6	0.03	< 2	20	68	< 0.5	< 2	13.4	< 1	< 1	0.05	< 10	< 1	0.02	< 10
262211 Dup		< 0.2	< 0.5	< 1	226	< 1	< 1	4	6	0.03	< 2	19	67	< 0.5	< 2	13.2	< 1	< 1	0.05	< 10	< 1	0.02	< 10
262215 Orig	< 5																						
262215 Dup	< 5																						
262223 Orig																							
262223 Dup																							
262225 Orig	< 5	< 0.2	< 0.5	52	337	< 1	12	3	41	1.20	< 2	< 10	149	< 0.5	< 2	1.26	9	30	2.04	< 10	< 1	0.29	13
262225 Dup	< 5	< 0.2	< 0.5	52	341	< 1	10	2	41	1.19	< 2	< 10	151	< 0.5	< 2	1.25	10	31	2.04	< 10	< 1	0.29	13
262235 Orig	< 5																						
262235 Dup	< 5																						
262237 Orig																							
262237 Dup																							
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	2	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank																							
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Method Blank	< 5																						
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Method Blank	< 5																						
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank																							

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.3	0.01	3	7	1	2	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	0.13	0.046	0.047	0.21	88	1	174	< 0.01	< 20	14	4	29	73	143	23	16	31.4	2.01	430	688	1	1380	0.89
GXR-1 Cert	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0	0.390	34.9	80.0	164	32.0	38.0	31.0	3.52	427	750	1.22	1380	0.960
GXR-1 Meas	0.14	0.046	0.047	0.20	80	1	173	< 0.01	< 20	12	2	31	73	141	24	16	31.5	2.36	406	645	< 1	1380	0.85
GXR-1 Cert	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0	0.390	34.9	80.0	164	32.0	38.0	31.0	3.52	427	750	1.22	1380	0.960
GXR-1 Meas	0.15	0.049	0.049	0.21	90	1	183	< 0.01	< 20	15	5	31	75	154	24	16	32.1	2.12	406	663	< 1	1470	0.87
GXR-1 Cert	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0	0.390	34.9	80.0	164	32.0	38.0	31.0	3.52	427	750	1.22	1380	0.960
GXR-4 Meas	1.72	0.135	0.132	1.78	6	8	75	0.14	< 20	< 1	< 2	< 10	78	11	11	10	3.6	6.67	101	348	2	22	1.09
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970	3.20	6.20	87.0	30.8	14.0	186	4.0	7.20	98.0	1640	1.90	19.0	1.01
GXR-4 Meas	1.72	0.140	0.133	1.82	5	8	74	0.14	< 20	< 1	4	< 10	78	11	12	10	3.5	6.60	101	178	2	22	1.08
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970	3.20	6.20	87.0	30.8	14.0	186	4.0	7.20	98.0	1640	1.90	19.0	1.01
GXR-4 Meas	1.69	0.133	0.135	1.82	2	8	74	0.14	< 20	2	2	< 10	78	13	11	10	3.7	6.30	89	229	2	13	1.08
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970	3.20	6.20	87.0	30.8	14.0	186	4.0	7.20	98.0	1640	1.90	19.0	1.01
SDC-1 Meas																		7.57	< 3	630	3		1.04
SDC-1 Cert																		8.34	0.220	630	3.00		1.00
SDC-1 Meas																		8.01	< 3	630	3		1.10
SDC-1 Cert																		8.34	0.220	630	3.00		1.00
SDC-1 Meas																		7.70	< 3	606	3		1.05
SDC-1 Cert																		8.34	0.220	630	3.00		1.00
GXR-6 Meas	0.42	0.069	0.036	0.01	5	21	27		< 20	< 1	< 2	< 10	156	< 10	5	6	0.5	12.3	271	> 1000	1	< 2	0.16
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110	1.30	17.7	330	1300	1.40	0.290	0.180
GXR-6 Meas	0.43	0.070	0.037	0.01	6	21	27		< 20	< 1	< 2	< 10	169	< 10	5	13	0.4	12.4	229	> 1000	1	< 2	0.16
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110	1.30	17.7	330	1300	1.40	0.290	0.180
GXR-6 Meas	0.42	0.068	0.036	0.01	3	21	26		< 20	< 1	< 2	< 10	163	< 10	5	9	0.5	12.5	259	> 1000	1	< 2	0.16
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110	1.30	17.7	330	1300	1.40	0.290	0.180
Oreas 72a (4 Acid Digest) Meas																			< 3				
Oreas 72a (4 Acid Digest) Cert																			14.7				
Oreas 72a (4 Acid Digest) Meas																			< 3				
Oreas 72a (4 Acid Digest) Cert																			14.7				
DNC-1a Meas																					98		
DNC-1a Cert																					118		
DNC-1a Meas																					97		
DNC-1a Cert																					118		
DNC-1a Meas																					95		
DNC-1a Cert																					118		
SBC-1 Meas																				23	785	3	< 2
SBC-1 Cert																				25.7	788.0	3.20	0.70
SBC-1 Meas																				22	775	3	3
SBC-1 Cert																				25.7	788.0	3.20	0.70
SBC-1 Meas																				13	768	3	2
SBC-1 Cert																				25.7	788.0	3.20	0.70
SdAR-M2 (U.S.G.S.) Meas							3	22	< 20			< 10	18	< 10	18	8				> 1000	8	< 2	
SdAR-M2 (U.S.G.S.) Cert							4.1	144	14.2			2.53	25.2	2.8	32.7	259				990	6.6	1.05	
SdAR-M2 (U.S.G.S.) Meas							3	23	< 20			< 10	19	< 10	19	8				952	6	< 2	

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.3	0.01	3	7	1	2	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
SdAR-M2 (U.S.G.S.) Cert						4.1	144		14.2			2.53	25.2	2.8	32.7	259				990	6.6	1.05	
SdAR-M2 (U.S.G.S.) Meas																				984	7	< 2	
SdAR-M2 (U.S.G.S.) Cert																				990	6.6	1.05	
SF85 Meas																							
SF85 Cert																							
OxD128 Meas																							
OxD128 Cert																							
262211 Orig	10.2	0.019	0.003	0.01	< 2	< 1	105	< 0.01	< 20	< 1	< 2	< 10	1	< 10	< 1	< 1							
262211 Dup	10.1	0.019	0.003	< 0.01	< 2	< 1	103	< 0.01	< 20	5	< 2	< 10	1	< 10	< 1	< 1							
262215 Orig																							
262215 Dup																							
262223 Orig																	0.5	8.31	< 3	307	< 1	< 2	4.45
262223 Dup																	< 0.3	8.25	< 3	306	< 1	< 2	4.40
262225 Orig	1.01	0.180	0.075	< 0.01	< 2	9	17	0.19	< 20	6	< 2	< 10	77	< 10	9	16							
262225 Dup	1.01	0.185	0.074	< 0.01	< 2	9	17	0.20	< 20	< 1	< 2	< 10	77	< 10	9	16							
262235 Orig																							
262235 Dup																							
262237 Orig																	< 0.3	6.64	< 3	138	< 1	< 2	4.05
262237 Dup																	0.3	6.62	< 3	139	< 1	< 2	4.04
Method Blank	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01

Analyte Symbol	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	0.7	7	21	1200	23.6	10	< 1	0.05	0.21	9	871	16	0.05	46	0.058	738	38	0.24	< 4	292	3	0.03	< 5
GXR-1 Cert	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520	41.0	0.0650	730	122	0.257	1.58	275	13.0	0.036	0.390
GXR-1 Meas	5.0	9	20	1130	23.1	16	< 1	0.05	0.20	8	864	14	0.05	42	0.057	723	51	0.24	< 4	287	22	0.03	< 5
GXR-1 Cert	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520	41.0	0.0650	730	122	0.257	1.58	275	13.0	0.036	0.390
GXR-1 Meas	4.4	9	24	1170	23.8	14	< 1	0.05	0.20	8	874	14	0.05	45	0.059	748	31	0.24	< 4	291	26	0.03	< 5
GXR-1 Cert	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520	41.0	0.0650	730	122	0.257	1.58	275	13.0	0.036	0.390
GXR-4 Meas	< 0.3	16	45	6740	3.08	19	< 1	3.76	1.71	12	179	351	0.56	47	0.131	49	< 5	1.79	8	219	3	0.29	< 5
GXR-4 Cert	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564	42.0	0.120	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20
GXR-4 Meas	0.3	15	36	6500	3.12	20	< 1	4.10	1.69	13	153	341	0.57	42	0.132	51	< 5	1.79	8	220	11	0.29	< 5
GXR-4 Cert	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564	42.0	0.120	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20
GXR-4 Meas	0.5	15	52	6170	3.18	16	< 1	3.97	1.69	11	166	341	0.57	41	0.131	61	< 5	1.77	8	212	4	0.27	< 5
GXR-4 Cert	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564	42.0	0.120	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20
SDC-1 Meas		19	49	27	4.60	24	< 1	1.80	0.97	34	874		1.50	37	0.052	21	< 5		16	167		0.10	< 5
SDC-1 Cert		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34.00	880.00		1.52	38.0	0.0690	25.00	0.54		17.00	180.00		0.606	0.70
SDC-1 Meas		19	44	32	4.87	23	< 1	2.76	0.99	33	895		1.56	29	0.053	23	< 5		16	174		0.17	< 5
SDC-1 Cert		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34.00	880.00		1.52	38.0	0.0690	25.00	0.54		17.00	180.00		0.606	0.70
SDC-1 Meas		18	67	28	4.66	20	< 1	2.68	0.95	31	856		1.51	42	0.051	20	< 5		16	173		0.10	< 5
SDC-1 Cert		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34.00	880.00		1.52	38.0	0.0690	25.00	0.54		17.00	180.00		0.606	0.70
GXR-6 Meas	< 0.3	16	67	71	5.86	30	< 1	1.40	0.60	34	1080	4	0.10	29	0.036	99	< 5	0.02	26	35	6		< 5
GXR-6 Cert	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104	27.0	0.0350	101	3.60	0.0160	27.6	35.0	0.0180		2.20
GXR-6 Meas	0.8	15	63	70	5.81	31	< 1	1.95	0.58	31	1080	1	0.10	29	0.035	97	< 5	0.01	28	36	12		< 5
GXR-6 Cert	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104	27.0	0.0350	101	3.60	0.0160	27.6	35.0	0.0180		2.20
GXR-6 Meas	1.2	15	64	73	5.98	30	6	1.96	0.60	32	1080	< 1	0.10	28	0.036	104	< 5	0.02	26	36	< 2		< 5
GXR-6 Cert	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104	27.0	0.0350	101	3.60	0.0160	27.6	35.0	0.0180		2.20
Oreas 72a (4 Acid Digest) Meas		153	194	329	9.75									6420				1.62					
Oreas 72a (4 Acid Digest) Cert		157	228	316	9.63									6930.000				1.74					
Oreas 72a (4 Acid Digest) Meas		160	189	336	9.67									6720				1.66					
Oreas 72a (4 Acid Digest) Cert		157	228	316	9.63									6930.000				1.74					
DNC-1a Meas		56	202	97		14				5				258		5	< 5		32	130		0.29	
DNC-1a Cert		57.0	270	100.00		15				5.20				247		6.3	0.96		31	144.0		0.29	
DNC-1a Meas		56	198	99		13				5				261		3	< 5		31	127		0.28	
DNC-1a Cert		57.0	270	100.00		15				5.20				247		6.3	0.96		31	144.0		0.29	
DNC-1a Meas		56	234	101		13				5				255		5	< 5		30	130		0.28	
DNC-1a Cert		57.0	270	100.00		15				5.20				247		6.3	0.96		31	144.0		0.29	
SBC-1 Meas	< 0.3	24	83	27		27				159		2		86		33	< 5		20	174		0.53	< 5
SBC-1 Cert	0.40	22.7	109	31.0000		27.0				163.0		2.40		82.8		35.0	1.01		20.0	178.0		0.51	0.89
SBC-1 Meas	1.0	24	89	32		27				156		2		89		26	< 5		20	177		0.51	< 5
SBC-1 Cert	0.40	22.7	109	31.0000		27.0				163.0		2.40		82.8		35.0	1.01		20.0	178.0		0.51	0.89
SBC-1 Meas	0.9	24	100	32		28				154		1		87		30	< 5		20	180		0.52	< 5
SBC-1 Cert	0.40	22.7	109	31.0000		27.0				163.0		2.40		82.8		35.0	1.01		20.0	178.0		0.51	0.89
SdAR-M2 (U.S.G.S.) Meas	5.2	15	48	247		20	1			18		12		55		802			4	146			
SdAR-M2 (U.S.G.S.) Cert	5.1	12.4	49.6	236.0000		17.6	1.44			17.9		13.3		48.8		808			4.1	144			
SdAR-M2 (U.S.G.S.) Meas	5.0	13	54	229		16	2			18		12		51		819			4	141			

Analyte Symbol	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
SdAR-M2 (U.S.G.S.) Cert	5.1	12.4	49.6	236.0000		17.6	1.44			17.9		13.3		48.8		808			4.1	144			
SdAR-M2 (U.S.G.S.) Meas	5.5	14	39	241		17	< 1			17		9		51		822			5	151			
SdAR-M2 (U.S.G.S.) Cert	5.1	12.4	49.6	236.0000		17.6	1.44			17.9		13.3		48.8		808			4.1	144			
SF85 Meas																							
SF85 Cert																							
OxD128 Meas																							
OxD128 Cert																							
262211 Orig																							
262211 Dup																							
262215 Orig																							
262215 Dup																							
262223 Orig	0.4	16	27	52	3.82	18	< 1	1.10	1.42	29	1010	< 1	3.34	32	0.064	5	< 5	< 0.01	19	166	< 2	0.12	< 5
262223 Dup	0.8	15	21	53	3.81	18	< 1	1.10	1.41	29	1020	< 1	3.34	29	0.062	< 3	< 5	< 0.01	18	163	13	0.11	< 5
262225 Orig																							
262225 Dup																							
262235 Orig																							
262235 Dup																							
262237 Orig	0.6	12	71	40	2.79	13	< 1	0.49	0.89	11	530	< 1	2.54	30	0.050	3	< 5	< 0.01	15	130	< 2	0.13	< 5
262237 Dup	< 0.3	11	59	37	2.82	14	< 1	0.49	0.89	11	531	< 1	2.58	30	0.051	< 3	< 5	< 0.01	15	130	< 2	0.19	< 5
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		3	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	4	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	2	< 0.01	< 5
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5

Analyte Symbol	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	30	88	157	35	737	32
GXR-1 Cert	34.9	80.0	164	32.0	760	38.0
GXR-1 Meas	40	89	158	34	734	31
GXR-1 Cert	34.9	80.0	164	32.0	760	38.0
GXR-1 Meas	40	91	161	35	746	31
GXR-1 Cert	34.9	80.0	164	32.0	760	38.0
GXR-4 Meas	< 10	88	38	15	71	46
GXR-4 Cert	6.20	87.0	30.8	14.0	73.0	186
GXR-4 Meas	< 10	93	37	15	73	47
GXR-4 Cert	6.20	87.0	30.8	14.0	73.0	186
GXR-4 Meas	< 10	92	33	15	75	46
GXR-4 Cert	6.20	87.0	30.8	14.0	73.0	186
SDC-1 Meas	< 10	38	< 5		95	35
SDC-1 Cert	3.10	102.00	0.80		103.00	290.00
SDC-1 Meas	< 10	48	< 5		101	30
SDC-1 Cert	3.10	102.00	0.80		103.00	290.00
SDC-1 Meas	< 10	43	< 5		97	34
SDC-1 Cert	3.10	102.00	0.80		103.00	290.00
GXR-6 Meas	< 10	149	< 5	11	129	70
GXR-6 Cert	1.54	186	1.90	14.0	118	110
GXR-6 Meas	< 10	96	< 5	13	131	59
GXR-6 Cert	1.54	186	1.90	14.0	118	110
GXR-6 Meas	< 10	139	< 5	12	130	72
GXR-6 Cert	1.54	186	1.90	14.0	118	110
Oreas 72a (4 Acid Digest) Meas						
Oreas 72a (4 Acid Digest) Cert						
Oreas 72a (4 Acid Digest) Meas						
Oreas 72a (4 Acid Digest) Cert						
DNC-1a Meas		139		17	56	36
DNC-1a Cert		148.0000		18.0	70.0	38.0
DNC-1a Meas		149		16	57	35
DNC-1a Cert		148.0000		18.0	70.0	38.0
DNC-1a Meas		144		17	57	36
DNC-1a Cert		148.0000		18.0	70.0	38.0
SBC-1 Meas	< 10	213	< 5	32	177	117
SBC-1 Cert	5.76	220.0	1.60	36.5	186.0	134.0
SBC-1 Meas	< 10	228	< 5	32	196	117
SBC-1 Cert	5.76	220.0	1.60	36.5	186.0	134.0
SBC-1 Meas	< 10	227	< 5	32	183	116
SBC-1 Cert	5.76	220.0	1.60	36.5	186.0	134.0
SdAR-M2 (U.S.G.S.) Meas	< 10	26	9	29	780	127
SdAR-M2 (U.S.G.S.)	2.53	25.2	2.8	32.7	760	259

Analyte Symbol	U	V	W	Y	Zn	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Cert						
SdAR-M2 (U.S.G.S.) Meas	< 10	26	12	29	775	127
SdAR-M2 (U.S.G.S.) Cert	2.53	25.2	2.8	32.7	760	259
SdAR-M2 (U.S.G.S.) Meas	< 10	24	9	30	782	113
SdAR-M2 (U.S.G.S.) Cert	2.53	25.2	2.8	32.7	760	259
SF85 Meas						
SF85 Cert						
OxD128 Meas						
OxD128 Cert						
262211 Orig						
262211 Dup						
262215 Orig						
262215 Dup						
262223 Orig	< 10	48	< 5	18	75	99
262223 Dup	< 10	47	< 5	18	74	74
262225 Orig						
262225 Dup						
262235 Orig						
262235 Dup						
262237 Orig	< 10	47	< 5	14	48	77
262237 Dup	< 10	64	< 5	15	48	88
Method Blank						
Method Blank						
Method Blank						
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5
Method Blank						
Method Blank						
Method Blank						
Method Blank						
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5



Date Submitted: 03-Aug-16
Invoice No.: A16-07598
Invoice Date: 22-Aug-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

34 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-50-Geraldton Au - Fire Assay AA

REPORT **A16-07598**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.



CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé".

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
801 Main Street, P.O. Box 999, Geraldton, Ontario, Canada, P0T 1M0
TELEPHONE +807 854-2020 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Geraldton@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Date Submitted: 03-Aug-16
Invoice No.: A16-07598
Invoice Date: 22-Aug-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

34 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1E3-Tbay Aqua Regia ICP(AQUAGEO)

Code 1F2-Tbay Total Digestion ICP(TOTAL)

REPORT **A16-07598**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:



Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
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Results

Activation Laboratories Ltd.

Report: A16-07598

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
262172	< 5	0.2	< 0.5	13	303	< 1	4	3	25	1.25	< 2	< 10	158	< 0.5	< 2	0.85	6	18	1.57	< 10	< 1	0.74	< 10
262173	< 5	< 0.2	< 0.5	4	305	< 1	3	< 2	43	1.35	< 2	< 10	220	< 0.5	< 2	0.39	6	16	1.73	< 10	< 1	0.81	< 10
262174	< 5	< 0.2	< 0.5	10	239	< 1	< 1	< 2	26	1.24	< 2	< 10	211	< 0.5	< 2	0.49	6	18	1.65	< 10	< 1	0.75	< 10
262175	< 5	< 0.2	< 0.5	89	242	< 1	2	3	42	1.15	< 2	< 10	119	< 0.5	< 2	0.60	5	23	1.37	< 10	< 1	0.65	< 10
262176	< 5	< 0.2	< 0.5	14	198	< 1	2	< 2	22	1.27	< 2	< 10	116	< 0.5	< 2	0.48	7	20	1.60	< 10	< 1	0.76	10
262177	< 5	< 0.2	< 0.5	13	229	< 1	4	< 2	22	1.33	< 2	< 10	120	< 0.5	< 2	0.58	7	21	1.63	< 10	< 1	0.78	< 10
262178	< 5	< 0.2	< 0.5	10	241	< 1	2	< 2	26	1.36	< 2	< 10	146	< 0.5	< 2	0.57	6	16	1.66	< 10	< 1	0.81	< 10
262179	< 5	< 0.2	< 0.5	55	192	1	2	< 2	18	1.22	< 2	< 10	119	< 0.5	< 2	0.50	6	16	1.60	< 10	< 1	0.73	10
262180	< 5	< 0.2	< 0.5	74	347	2	6	< 2	89	1.60	< 2	< 10	170	1.4	< 2	1.30	10	53	2.29	< 10	< 1	0.84	< 10
262181	429	< 0.2	< 0.5	45	532	3	13	10	42	2.39	158	< 10	128	< 0.5	< 2	1.65	9	30	3.85	< 10	< 1	0.15	< 10
262182	< 5	< 0.2	< 0.5	68	735	< 1	28	< 2	41	2.17	< 2	< 10	92	< 0.5	< 2	2.53	15	85	2.95	< 10	< 1	0.28	< 10
262183	< 5	< 0.2	< 0.5	47	927	< 1	30	< 2	63	2.50	< 2	< 10	160	< 0.5	< 2	2.17	14	110	3.54	< 10	< 1	0.63	11
262184	12	< 0.2	< 0.5	60	889	< 1	21	< 2	56	1.99	< 2	< 10	201	< 0.5	< 2	1.53	12	96	3.16	< 10	< 1	0.65	< 10
262185	< 5	< 0.2	< 0.5	48	695	< 1	18	< 2	62	1.98	< 2	< 10	195	< 0.5	< 2	1.93	11	95	2.88	< 10	< 1	0.58	12
262186	< 5	< 0.2	< 0.5	53	900	< 1	25	3	80	1.91	< 2	< 10	198	< 0.5	< 2	2.47	12	93	3.08	< 10	< 1	0.62	10
262187	< 5	< 0.2	< 0.5	74	759	< 1	22	3	66	1.85	< 2	< 10	141	< 0.5	< 2	2.34	10	85	2.95	< 10	< 1	0.44	12
262188	< 5	< 0.2	< 0.5	68	825	< 1	22	< 2	71	1.77	< 2	< 10	115	< 0.5	< 2	2.44	12	83	3.07	< 10	< 1	0.39	13
262189	< 5	< 0.2	< 0.5	13	301	< 1	2	< 2	47	1.20	< 2	< 10	118	< 0.5	< 2	0.71	6	22	1.85	< 10	< 1	0.48	11
262190	< 5	< 0.2	< 0.5	8	261	< 1	1	< 2	44	1.22	< 2	< 10	95	< 0.5	< 2	1.00	6	19	1.75	< 10	< 1	0.58	11
262191	< 5	< 0.2	< 0.5	< 1	236	< 1	< 1	< 2	8	0.03	< 2	26	217	< 0.5	< 2	12.9	< 1	< 1	0.05	< 10	< 1	0.03	< 10
262192	< 5	< 0.2	< 0.5	39	873	< 1	24	3	43	1.66	< 2	< 10	132	< 0.5	< 2	3.17	11	88	2.88	< 10	< 1	0.41	13
262193	< 5	< 0.2	< 0.5	40	928	< 1	21	2	42	1.89	< 2	< 10	139	< 0.5	< 2	3.21	11	92	3.14	< 10	< 1	0.60	13
262194	< 5	< 0.2	< 0.5	56	1120	< 1	24	< 2	45	1.97	< 2	< 10	138	< 0.5	< 2	3.09	11	87	3.54	< 10	< 1	0.52	13
262195	< 5	< 0.2	< 0.5	41	1340	< 1	26	< 2	41	2.01	< 2	< 10	135	< 0.5	< 2	3.50	12	86	3.80	< 10	< 1	0.53	13
262196	5	< 0.2	< 0.5	38	1590	< 1	28	< 2	54	2.44	< 2	< 10	140	< 0.5	< 2	3.01	13	83	4.71	< 10	< 1	0.66	13
262197	5	< 0.2	< 0.5	36	1680	< 1	23	< 2	43	3.14	< 2	< 10	219	< 0.5	< 2	3.30	15	58	6.11	< 10	< 1	0.76	12
262198	< 5	< 0.2	< 0.5	71	1850	< 1	15	< 2	38	2.48	< 2	< 10	23	< 0.5	< 2	2.95	13	38	5.87	< 10	< 1	0.12	12
262199	< 5	< 0.2	< 0.5	35	1780	< 1	13	< 2	46	3.50	< 2	< 10	155	< 0.5	< 2	3.01	14	29	5.79	< 10	< 1	0.70	11
262200	< 5	< 0.2	< 0.5	23	2770	< 1	17	< 2	45	4.47	< 2	< 10	90	< 0.5	< 2	4.52	13	21	8.42	10	< 1	0.55	< 10
262201	> 5000	7.6	12.7	1290	580	78	42	203	2230	1.54	76	< 10	18	< 0.5	< 2	1.12	9	25	6.91	< 10	< 1	0.21	12
262202	6	< 0.2	< 0.5	49	2590	< 1	18	< 2	50	4.16	< 2	< 10	184	< 0.5	< 2	4.20	15	23	7.79	10	< 1	0.59	< 10
262203	< 5	< 0.2	< 0.5	38	1580	< 1	14	2	39	2.03	< 2	< 10	15	< 0.5	< 2	3.30	12	21	4.57	< 10	< 1	0.08	11
262204	< 5	< 0.2	< 0.5	45	1360	< 1	15	< 2	38	2.34	< 2	< 10	18	< 0.5	< 2	2.81	12	22	5.01	< 10	< 1	0.09	11
262205	6	< 0.2	< 0.5	80	1060	< 1	14	< 2	36	2.19	< 2	< 10	50	< 0.5	< 2	1.97	12	24	4.76	< 10	< 1	0.25	12

Results

Activation Laboratories Ltd.

Report: A16-07598

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.3	0.01	3	7	1	2	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262172	0.68	0.158	0.030	< 0.01	< 2	3	26	0.15	< 20	1	< 2	< 10	27	< 10	4	13	0.5	7.32	< 3	283	< 1	< 2	2.46
262173	0.68	0.186	0.030	< 0.01	< 2	2	24	0.16	< 20	9	< 2	< 10	28	< 10	2	16	< 0.3	7.85	< 3	332	< 1	< 2	2.16
262174	0.65	0.166	0.029	< 0.01	< 2	3	23	0.14	< 20	3	< 2	< 10	27	< 10	2	16	0.7	7.59	< 3	321	< 1	< 2	2.09
262175	0.60	0.178	0.030	0.01	< 2	3	18	0.14	< 20	5	< 2	< 10	25	< 10	3	19	0.4	7.63	< 3	273	< 1	< 2	1.95
262176	0.64	0.172	0.031	< 0.01	< 2	2	18	0.15	< 20	5	< 2	< 10	26	< 10	3	17	0.4	7.48	< 3	226	< 1	< 2	2.05
262177	0.71	0.178	0.030	0.01	< 2	2	21	0.15	< 20	< 1	< 2	< 10	27	< 10	2	16	< 0.3	7.68	< 3	195	< 1	< 2	2.23
262178	0.70	0.178	0.029	< 0.01	< 2	2	26	0.14	< 20	< 1	3	< 10	26	< 10	3	18	< 0.3	7.66	< 3	378	< 1	< 2	2.02
262179	0.64	0.173	0.029	< 0.01	< 2	3	23	0.14	< 20	< 1	< 2	< 10	26	< 10	3	18	0.4	7.66	< 3	322	1	< 2	2.11
262180	1.10	0.177	0.039	0.02	< 2	6	47	0.17	< 20	< 1	< 2	< 10	44	< 10	4	16	< 0.3	7.55	< 3	373	3	< 2	3.00
262181	0.78	0.217	0.051	0.05	4	7	83	0.17	< 20	< 1	< 2	< 10	89	< 10	9	5	< 0.3	5.11	140	431	< 1	< 2	3.50
262182	0.96	0.148	0.065	0.40	< 2	8	29	0.29	< 20	2	< 2	< 10	54	< 10	8	5	< 0.3	8.46	< 3	118	< 1	< 2	7.16
262183	1.56	0.181	0.064	0.28	2	8	23	0.31	< 20	1	< 2	< 10	59	< 10	11	3	< 0.3	9.02	< 3	173	< 1	< 2	6.05
262184	1.33	0.218	0.058	0.11	< 2	9	22	0.22	< 20	3	< 2	< 10	64	< 10	9	4	< 0.3	7.80	< 3	219	< 1	< 2	4.42
262185	1.36	0.216	0.061	0.05	< 2	9	25	0.21	< 20	5	< 2	< 10	61	< 10	9	5	< 0.3	7.89	< 3	254	< 1	< 2	4.65
262186	1.14	0.197	0.061	0.08	< 2	9	30	0.24	< 20	2	< 2	< 10	63	< 10	10	3	< 0.3	8.00	< 3	208	< 1	< 2	5.35
262187	1.22	0.239	0.056	0.06	< 2	9	29	0.18	< 20	< 1	< 2	< 10	60	< 10	9	7	0.8	7.90	< 3	155	< 1	2	4.89
262188	1.25	0.193	0.063	0.08	< 2	9	29	0.18	< 20	< 1	< 2	< 10	58	< 10	10	7	0.7	7.71	< 3	171	< 1	< 2	5.02
262189	0.62	0.186	0.033	0.05	< 2	4	17	0.12	< 20	< 1	< 2	< 10	31	< 10	3	19	0.4	7.95	7	157	< 1	< 2	1.95
262190	0.57	0.172	0.032	0.11	< 2	3	14	0.12	< 20	2	< 2	< 10	24	< 10	2	22	< 0.3	7.67	< 3	151	< 1	< 2	2.00
262191	9.65	0.020	0.002	< 0.01	< 2	< 1	106	< 0.01	< 20	2	< 2	< 10	1	< 10	< 1	< 1	< 0.3	0.07	< 3	198	< 1	< 2	17.2
262192	1.15	0.191	0.059	0.02	< 2	9	23	0.16	< 20	8	< 2	< 10	64	< 10	10	5	0.3	7.35	< 3	138	< 1	< 2	5.63
262193	1.28	0.212	0.058	0.02	2	9	22	0.19	< 20	4	< 2	< 10	67	< 10	10	5	0.4	7.62	< 3	138	< 1	< 2	5.55
262194	1.07	0.217	0.056	0.09	< 2	10	20	0.19	< 20	< 1	< 2	< 10	64	< 10	10	5	< 0.3	7.61	< 3	144	< 1	< 2	5.61
262195	1.11	0.218	0.056	0.07	< 2	10	21	0.18	< 20	6	< 2	< 10	66	< 10	10	4	< 0.3	7.59	< 3	141	< 1	< 2	5.99
262196	1.27	0.242	0.057	0.03	3	10	18	0.19	< 20	7	< 2	< 10	67	< 10	10	5	0.4	7.65	< 3	143	< 1	< 2	5.46
262197	1.32	0.276	0.059	0.26	2	10	22	0.19	< 20	< 1	< 2	< 10	65	< 10	10	7	0.4	7.32	< 3	223	< 1	< 2	5.27
262198	1.12	0.298	0.066	0.17	< 2	11	18	0.16	< 20	< 1	< 2	< 10	65	< 10	9	7	0.3	7.67	< 3	32	< 1	< 2	5.38
262199	1.46	0.346	0.075	0.02	< 2	12	30	0.21	< 20	5	< 2	< 10	81	< 10	10	10	0.4	7.75	< 3	158	< 1	< 2	4.97
262200	1.59	0.284	0.066	0.02	3	9	39	0.18	< 20	< 1	3	< 10	65	< 10	9	7	< 0.3	6.77	< 3	114	< 1	< 2	6.34
262201	1.71	0.067	0.042	4.17	11	4	64	0.05	< 20	2	< 2	< 10	49	11	5	8	7.1	4.68	62	325	< 1	< 2	1.41
262202	1.50	0.285	0.063	0.03	3	9	24	0.19	< 20	< 1	< 2	< 10	65	< 10	9	6	0.4	6.68	< 3	202	< 1	< 2	6.15
262203	1.10	0.270	0.064	0.04	< 2	9	17	0.16	< 20	< 1	< 2	< 10	58	< 10	8	5	< 0.3	7.12	< 3	32	< 1	< 2	6.06
262204	1.12	0.294	0.062	< 0.01	< 2	9	20	0.15	< 20	6	< 2	< 10	57	< 10	7	5	< 0.3	7.13	< 3	24	< 1	< 2	5.45
262205	1.08	0.261	0.063	0.01	< 2	10	12	0.16	< 20	< 1	< 2	< 10	65	< 10	9	8	0.3	7.43	< 3	52	< 1	< 2	4.47

Results

Activation Laboratories Ltd.

Report: A16-07598

Analyte Symbol	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262172	0.6	6	75	13	1.58	17	< 1	1.02	0.63	12	314	1	3.67	10	0.027	< 3	< 5	< 0.01	5	286	< 2	0.16	< 5
262173	< 0.3	6	16	4	1.76	19	1	1.03	0.63	13	309	< 1	3.89	7	0.028	9	< 5	< 0.01	5	330	4	0.17	6
262174	< 0.3	6	18	8	1.68	19	< 1	1.01	0.62	13	249	2	3.90	8	0.027	< 3	< 5	< 0.01	4	294	< 2	0.16	< 5
262175	< 0.3	6	18	79	1.37	18	< 1	1.07	0.56	12	237	1	4.08	6	0.027	< 3	< 5	0.01	5	191	< 2	0.16	< 5
262176	< 0.3	6	19	16	1.60	18	< 1	1.12	0.57	13	200	< 1	3.75	9	0.028	6	< 5	0.01	4	201	3	0.16	< 5
262177	< 0.3	7	21	13	1.64	18	< 1	1.05	0.64	14	238	1	3.79	7	0.027	5	< 5	0.01	4	242	2	0.16	< 5
262178	< 0.3	6	31	13	1.69	18	< 1	1.31	0.65	15	248	< 1	3.90	8	0.027	< 3	< 5	< 0.01	4	311	6	0.17	< 5
262179	< 0.3	5	24	53	1.63	19	< 1	1.25	0.59	16	211	< 1	3.88	6	0.027	< 3	< 5	0.01	4	263	< 2	0.16	< 5
262180	< 0.3	12	78	71	2.52	18	< 1	1.38	1.16	18	422	2	3.47	15	0.036	< 3	< 5	0.02	9	301	11	0.22	< 5
262181	0.8	14	43	44	4.38	16	< 1	0.80	1.11	7	900	4	2.41	29	0.044	14	< 5	0.04	11	268	5	0.29	< 5
262182	0.5	16	142	63	4.60	24	< 1	0.39	1.34	11	1420	< 1	2.08	40	0.061	< 3	< 5	0.34	18	127	18	0.38	< 5
262183	0.5	15	202	46	4.49	23	< 1	0.76	1.69	21	1420	< 1	2.86	41	0.056	5	< 5	0.26	16	145	< 2	0.35	< 5
262184	0.6	15	74	60	4.16	18	< 1	0.79	1.62	20	1380	< 1	2.70	36	0.055	< 3	< 5	0.10	16	172	< 2	0.16	< 5
262185	< 0.3	13	69	46	3.90	22	< 1	0.85	1.70	20	1120	< 1	2.72	32	0.056	6	< 5	0.05	16	190	10	0.20	< 5
262186	0.7	16	62	48	4.03	18	< 1	0.76	1.36	17	1280	< 1	2.79	35	0.057	< 3	< 5	0.08	16	226	3	0.15	27
262187	0.7	15	67	71	4.08	15	< 1	0.55	1.58	16	1170	< 1	2.84	37	0.056	8	< 5	0.06	15	261	12	0.32	12
262188	0.3	17	76	68	4.24	18	< 1	0.63	1.64	17	1230	< 1	2.92	40	0.061	< 3	< 5	0.07	16	267	11	0.25	< 5
262189	< 0.3	6	23	13	1.85	19	4	0.76	0.58	16	326	< 1	4.73	7	0.032	< 3	< 5	0.05	5	191	5	0.18	< 5
262190	< 0.3	7	18	9	1.77	18	< 1	0.96	0.55	14	271	< 1	4.27	7	0.031	< 3	< 5	0.10	4	177	< 2	0.17	< 5
262191	0.3	< 1	3	< 1	0.06	1	< 1	0.04	11.3	10	300	< 1	0.04	< 1	0.002	4	< 5	0.01	< 4	124	3	< 0.01	< 5
262192	< 0.3	13	113	36	3.83	18	< 1	0.50	1.43	17	1180	< 1	2.88	41	0.058	< 3	8	0.02	14	199	< 2	0.26	< 5
262193	< 0.3	13	101	38	3.86	19	< 1	0.71	1.49	18	1200	< 1	2.69	36	0.055	< 3	< 5	0.02	15	177	7	0.28	< 5
262194	0.5	14	65	54	4.63	17	3	0.64	1.30	17	1530	< 1	2.63	41	0.053	< 3	< 5	0.08	16	177	11	0.18	< 5
262195	0.8	14	66	43	4.90	16	< 1	0.67	1.35	17	1830	< 1	2.54	42	0.055	< 3	< 5	0.07	16	181	9	0.20	< 5
262196	0.8	19	78	40	6.42	19	< 1	0.80	1.58	18	2560	< 1	2.38	47	0.058	< 3	< 5	0.04	17	176	14	0.31	< 5
262197	0.8	20	69	38	8.09	16	< 1	0.96	1.67	18	3000	< 1	1.95	41	0.056	6	< 5	0.22	17	117	17	0.33	< 5
262198	1.1	21	52	71	9.90	18	< 1	0.20	1.81	12	4120	< 1	2.45	40	0.066	< 3	< 5	0.16	18	241	3	0.38	< 5
262199	0.8	20	30	36	7.86	20	< 1	0.88	1.90	19	2920	< 1	2.01	37	0.073	< 3	< 5	0.02	17	102	15	0.41	< 5
262200	1.6	21	30	24	12.3	18	< 1	0.86	2.11	18	4770	< 1	0.58	38	0.061	< 3	< 5	0.02	15	69	15	0.31	< 5
262201	13.1	9	45	1150	6.69	12	< 1	1.35	1.72	11	641	81	1.24	55	0.041	205	5	3.84	11	185	10	0.18	< 5
262202	1.0	22	34	47	11.1	15	< 1	0.85	1.96	18	4830	< 1	0.88	38	0.058	< 3	< 5	0.02	16	77	3	0.33	< 5
262203	0.5	23	30	39	7.92	17	< 1	0.16	1.86	10	3080	< 1	2.28	40	0.061	< 3	< 5	0.04	17	192	8	0.32	< 5
262204	1.3	25	34	45	9.60	17	< 1	0.16	2.11	11	3580	< 1	2.00	47	0.058	< 3	< 5	0.01	16	220	20	0.30	< 5
262205	0.8	27	33	79	10.4	18	< 1	0.34	2.50	13	3210	< 1	2.50	49	0.059	< 3	< 5	0.02	18	187	11	0.33	< 5

Results

Activation Laboratories Ltd.

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Analyte Symbol	U	V	W	Y	Zn	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne
Lower Limit	10	2	5	1	1	5	0.02
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	FA-GRA
262172	< 10	34	< 5	6	26	68	
262173	< 10	34	< 5	4	43	76	
262174	< 10	32	< 5	4	27	73	
262175	< 10	32	< 5	4	41	73	
262176	< 10	32	< 5	4	22	74	
262177	< 10	33	< 5	4	21	74	
262178	< 10	33	< 5	4	27	76	
262179	< 10	32	< 5	4	19	78	
262180	< 10	61	< 5	8	92	73	
262181	< 10	130	7	14	55	30	
262182	< 10	111	< 5	20	56	105	
262183	< 10	92	< 5	22	74	41	
262184	< 10	70	< 5	17	74	51	
262185	< 10	69	< 5	18	82	63	
262186	< 10	62	< 5	18	104	39	
262187	< 10	91	< 5	17	91	157	
262188	< 10	81	< 5	18	97	118	
262189	< 10	36	< 5	4	48	85	
262190	< 10	32	< 5	4	45	90	
262191	< 10	< 2	< 5	1	11	< 5	
262192	< 10	82	< 5	17	58	102	
262193	< 10	85	< 5	17	54	106	
262194	< 10	69	< 5	17	59	58	
262195	< 10	68	< 5	17	57	55	
262196	< 10	98	< 5	19	75	149	
262197	< 10	98	< 5	19	58	139	
262198	< 10	111	< 5	20	68	136	
262199	< 10	116	< 5	17	67	138	
262200	< 10	96	< 5	17	66	113	
262201	< 10	75	< 5	11	2210	59	6.05
262202	< 10	103	< 5	17	75	107	
262203	< 10	92	< 5	17	73	80	
262204	< 10	97	< 5	18	85	80	
262205	< 10	108	< 5	19	90	112	

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas		28.3	2.7	1150	768	13	21	636	628	0.35	388	< 10	474	0.8	1480	0.77	8	7	23.2	< 10	1	0.03	< 10
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50
GXR-1 Meas		29.3	2.5	1190	802	13	31	667	648	0.38	402	10	481	0.8	1530	0.81	7	6	23.9	< 10	4	0.04	< 10
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50
GXR-4 Meas		3.5	< 0.5	6770	142	307	34	46	68	2.91	104	< 10	45	1.4	13	0.97	13	55	3.29	10	< 1	1.76	52
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5
GXR-4 Meas		3.4	< 0.5	6670	139	304	32	43	65	2.84	101	< 10	29	1.4	19	0.94	14	54	3.22	10	< 1	1.72	54
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5
SDC-1 Meas																							
SDC-1 Cert																							
SDC-1 Meas																							
SDC-1 Cert																							
GXR-6 Meas		0.2	< 0.5	72	1040	< 1	17	98	114	7.27	255	< 10	954	0.9	< 2	0.13	13	81	5.96	20	< 1	1.20	< 10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
GXR-6 Meas		0.2	< 0.5	71	1020	< 1	18	98	113	7.11	233	< 10	931	0.8	< 2	0.13	13	80	5.89	20	< 1	1.15	< 10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
Oreas 72a (4 Acid Digest) Meas																							
Oreas 72a (4 Acid Digest) Cert																							
Oreas 72a (4 Acid Digest) Meas																							
Oreas 72a (4 Acid Digest) Cert																							
DNC-1a Meas																							
DNC-1a Cert																							
DNC-1a Meas																							
DNC-1a Cert																							
OxP 91 Meas																							
OxP 91 Cert																							
SBC-1 Meas																							
SBC-1 Cert																							
SBC-1 Meas																							
SBC-1 Cert																							
OxK110 Meas																							
OxK110 Cert																							
SdAR-M2 (U.S.G.S.) Meas			5.2	245		13	41	845	748				154	5.0	< 2		13	11		< 10	1		47
SdAR-M2 (U.S.G.S.) Cert			5.1	236.0000		13.3	48.8	808	760				990	6.6	1.05		12.4	49.6		17.6	1.44		46.6
SdAR-M2 (U.S.G.S.) Meas			5.2	256		13	43	897	791				161	5.1	< 2		14	10		< 10	1		51
SdAR-M2 (U.S.G.S.) Cert			5.1	236.0000		13.3	48.8	808	760				990	6.6	1.05		12.4	49.6		17.6	1.44		46.6
SF85 Meas	814																						
SF85 Cert	848																						
262182 Orig	< 5																						
262182 Dup	< 5																						
262184 Orig		< 0.2	< 0.5	60	883	< 1	21	< 2	56	1.97	< 2	< 10	198	< 0.5	< 2	1.51	12	94	3.12	< 10	< 1	0.64	< 10
262184 Dup		< 0.2	< 0.5	60	895	< 1	20	< 2	57	2.02	< 2	< 10	203	< 0.5	< 2	1.55	12	99	3.19	< 10	< 1	0.65	10

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
262191 Orig	< 5																						
262191 Dup	< 5																						
262198 Orig		< 0.2	< 0.5	68	1830	< 1	16	< 2	37	2.45	< 2	< 10	22	< 0.5	< 2	2.92	13	37	5.81	< 10	< 1	0.12	12
262198 Dup		< 0.2	< 0.5	73	1880	< 1	15	< 2	39	2.51	< 2	< 10	23	< 0.5	< 2	2.98	12	39	5.93	< 10	< 1	0.12	13
262202 Orig	5																						
262202 Dup	6																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	2	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca	
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.3	0.01	3	7	1	2	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	
GXR-1 Meas	0.14	0.046	0.047	0.20	80	1	173	< 0.01	< 20	12	2	31	73	141	24	16	31.5	2.36	406	645	< 1	1380	0.85	
GXR-1 Cert	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0	0.390	34.9	80.0	164	32.0	38.0	31.0	3.52	427	750	1.22	1380	0.960	
GXR-1 Meas	0.15	0.049	0.049	0.21	90	1	183	< 0.01	< 20	15	5	31	75	154	24	16	32.1	2.12	406	663	< 1	1470	0.87	
GXR-1 Cert	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0	0.390	34.9	80.0	164	32.0	38.0	31.0	3.52	427	750	1.22	1380	0.960	
GXR-4 Meas	1.72	0.140	0.133	1.82	5	8	74	0.14	< 20	< 1	4	< 10	78	11	12	10	3.5	6.60	101	178	2	22	1.08	
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970	3.20	6.20	87.0	30.8	14.0	186	4.0	7.20	98.0	1640	1.90	19.0	1.01	
GXR-4 Meas	1.69	0.133	0.135	1.82	2	8	74	0.14	< 20	2	2	< 10	78	13	11	10	3.7	6.30	89	229	2	13	1.08	
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970	3.20	6.20	87.0	30.8	14.0	186	4.0	7.20	98.0	1640	1.90	19.0	1.01	
SDC-1 Meas																		8.01	< 3	630	3		1.10	
SDC-1 Cert																		8.34	0.220	630	3.00		1.00	
SDC-1 Meas																		7.70	< 3	606	3		1.05	
SDC-1 Cert																		8.34	0.220	630	3.00		1.00	
GXR-6 Meas	0.43	0.070	0.037	0.01	6	21	27		< 20	< 1	< 2	< 10	169	< 10	5	13	0.4	12.4	229	> 1000	1	< 2	0.16	
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110	1.30	17.7	330	1300	1.40	0.290	0.180	
GXR-6 Meas	0.42	0.068	0.036	0.01	3	21	26		< 20	< 1	< 2	< 10	163	< 10	5	9	0.5	12.5	259	> 1000	1	< 2	0.16	
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110	1.30	17.7	330	1300	1.40	0.290	0.180	
Oreas 72a (4 Acid Digest) Meas																				< 3				
Oreas 72a (4 Acid Digest) Cert																				14.7				
Oreas 72a (4 Acid Digest) Meas																				< 3				
Oreas 72a (4 Acid Digest) Cert																				14.7				
DNC-1a Meas																					97			
DNC-1a Cert																					118			
DNC-1a Meas																					95			
DNC-1a Cert																					118			
OxP 91 Meas																								
OxP 91 Cert																								
SBC-1 Meas																				22	775	3	3	
SBC-1 Cert																				25.7	788.0	3.20	0.70	
SBC-1 Meas																				13	768	3	2	
SBC-1 Cert																				25.7	788.0	3.20	0.70	
OxK110 Meas																								
OxK110 Cert																								
SdAR-M2 (U.S.G.S.) Meas						3	22		< 20			< 10	18	< 10	18	8				952	6	< 2		
SdAR-M2 (U.S.G.S.) Cert						4.1	144		14.2			2.53	25.2	2.8	32.7	259				990	6.6	1.05		
SdAR-M2 (U.S.G.S.) Meas						3	23		< 20			< 10	19	< 10	19	8				984	7	< 2		
SdAR-M2 (U.S.G.S.) Cert						4.1	144		14.2			2.53	25.2	2.8	32.7	259				990	6.6	1.05		
SF85 Meas																								
SF85 Cert																								
262182 Orig																								
262182 Dup																								
262184 Orig	1.32	0.212	0.057	0.11	< 2	9	22	0.22	< 20	5	< 2	< 10	63	< 10	9	4	< 0.3	7.83	< 3	221	< 1	< 2	4.44	
262184 Dup	1.35	0.223	0.059	0.11	< 2	9	22	0.22	< 20	2	< 2	< 10	65	< 10	9	4	< 0.3	7.78	< 3	217	< 1	< 2	4.40	

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca	
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.3	0.01	3	7	1	2	0.01	
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	
262191 Orig																								
262191 Dup																								
262198 Orig	1.11	0.295	0.066	0.16	< 2	11	18	0.16	< 20	< 1	< 2	< 10	65	< 10	9	7	0.3	7.71	< 3	32	< 1	< 2	5.45	
262198 Dup	1.13	0.301	0.066	0.18	3	11	19	0.16	< 20	3	< 2	< 10	66	< 10	9	7	0.3	7.62	< 3	31	< 1	< 2	5.32	
262202 Orig																								
262202 Dup																								
Method Blank																								
Method Blank																								
Method Blank	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1								
Method Blank	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1								
Method Blank	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1								
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	

Analyte Symbol	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	5.0	9	20	1130	23.1	16	< 1	0.05	0.20	8	864	14	0.05	42	0.057	723	51	0.24	< 4	287	22	0.03	< 5
GXR-1 Cert	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520	41.0	0.0650	730	122	0.257	1.58	275	13.0	0.036	0.390
GXR-1 Meas	4.4	9	24	1170	23.8	14	< 1	0.05	0.20	8	874	14	0.05	45	0.059	748	31	0.24	< 4	291	26	0.03	< 5
GXR-1 Cert	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520	41.0	0.0650	730	122	0.257	1.58	275	13.0	0.036	0.390
GXR-4 Meas	0.3	15	36	6500	3.12	20	< 1	4.10	1.69	13	153	341	0.57	42	0.132	51	< 5	1.79	8	220	11	0.29	< 5
GXR-4 Cert	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564	42.0	0.120	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20
GXR-4 Meas	0.5	15	52	6170	3.18	16	< 1	3.97	1.69	11	166	341	0.57	41	0.131	61	< 5	1.77	8	212	4	0.27	< 5
GXR-4 Cert	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564	42.0	0.120	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20
SDC-1 Meas		19	44	32	4.87	23	< 1	2.76	0.99	33	895		1.56	29	0.053	23	< 5		16	174		0.17	< 5
SDC-1 Cert		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34.00	880.00		1.52	38.0	0.0690	25.00	0.54		17.00	180.00		0.606	0.70
SDC-1 Meas		18	67	28	4.66	20	< 1	2.68	0.95	31	856		1.51	42	0.051	20	< 5		16	173		0.10	< 5
SDC-1 Cert		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34.00	880.00		1.52	38.0	0.0690	25.00	0.54		17.00	180.00		0.606	0.70
GXR-6 Meas	0.8	15	63	70	5.81	31	< 1	1.95	0.58	31	1080	1	0.10	29	0.035	97	< 5	0.01	28	36	12		< 5
GXR-6 Cert	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104	27.0	0.0350	101	3.60	0.0160	27.6	35.0	0.0180		2.20
GXR-6 Meas	1.2	15	64	73	5.98	30	6	1.96	0.60	32	1080	< 1	0.10	28	0.036	104	< 5	0.02	26	36	< 2		< 5
GXR-6 Cert	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104	27.0	0.0350	101	3.60	0.0160	27.6	35.0	0.0180		2.20
Oreas 72a (4 Acid Digest) Meas		153	194	329	9.75									6420				1.62					
Oreas 72a (4 Acid Digest) Cert		157	228	316	9.63									6930.000				1.74					
Oreas 72a (4 Acid Digest) Meas		160	189	336	9.67									6720				1.66					
Oreas 72a (4 Acid Digest) Cert		157	228	316	9.63									6930.000				1.74					
DNC-1a Meas		56	198	99		13				5				261		3	< 5		31	127		0.28	
DNC-1a Cert		57.0	270	100.00		15				5.20				247		6.3	0.96		31	144.0		0.29	
DNC-1a Meas		56	234	101		13				5				255		5	< 5		30	130		0.28	
DNC-1a Cert		57.0	270	100.00		15				5.20				247		6.3	0.96		31	144.0		0.29	
OxP 91 Meas																							
OxP 91 Cert																							
SBC-1 Meas	1.0	24	89	32		27				156		2		89		26	< 5		20	177		0.51	< 5
SBC-1 Cert	0.40	22.7	109	31.0000		27.0				163.0		2.40		82.8		35.0	1.01		20.0	178.0		0.51	0.89
SBC-1 Meas	0.9	24	100	32		28				154		1		87		30	< 5		20	180		0.52	< 5
SBC-1 Cert	0.40	22.7	109	31.0000		27.0				163.0		2.40		82.8		35.0	1.01		20.0	178.0		0.51	0.89
OxK110 Meas																							
OxK110 Cert																							
SdAR-M2 (U.S.G.S.) Meas	5.0	13	54	229		16	2			18		12		51		819			4	141			
SdAR-M2 (U.S.G.S.) Cert	5.1	12.4	49.6	236.0000		17.6	1.44			17.9		13.3		48.8		808			4.1	144			
SdAR-M2 (U.S.G.S.) Meas	5.5	14	39	241		17	< 1			17		9		51		822			5	151			
SdAR-M2 (U.S.G.S.) Cert	5.1	12.4	49.6	236.0000		17.6	1.44			17.9		13.3		48.8		808			4.1	144			
SF85 Meas																							
SF85 Cert																							
262182 Orig																							
262182 Dup																							
262184 Orig	0.6	15	81	62	4.19	17	< 1	0.79	1.64	20	1380	< 1	2.73	36	0.055	< 3	< 5	0.11	16	172	25	0.17	< 5
262184 Dup	0.5	15	68	59	4.14	20	< 1	0.78	1.61	19	1370	< 1	2.66	36	0.055	< 3	< 5	0.10	16	172	< 2	0.16	< 5

Analyte Symbol	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262191 Orig																							
262191 Dup																							
262198 Orig	1.3	22	52	71	10.0	20	< 1	0.20	1.82	12	4150	< 1	2.47	42	0.066	< 3	< 5	0.16	18	242	4	0.37	< 5
262198 Dup	0.9	20	51	71	9.77	15	< 1	0.20	1.79	12	4080	< 1	2.42	38	0.065	< 3	< 5	0.17	17	241	2	0.38	< 5
262202 Orig																							
262202 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		3	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	4	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	2	< 0.01	< 5
Method Blank																							

Analyte Symbol	U	V	W	Y	Zn	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne
Lower Limit	10	2	5	1	1	5	0.02
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	FA-GRA
GXR-1 Meas	40	89	158	34	734	31	
GXR-1 Cert	34.9	80.0	164	32.0	760	38.0	
GXR-1 Meas	40	91	161	35	746	31	
GXR-1 Cert	34.9	80.0	164	32.0	760	38.0	
GXR-4 Meas	< 10	93	37	15	73	47	
GXR-4 Cert	6.20	87.0	30.8	14.0	73.0	186	
GXR-4 Meas	< 10	92	33	15	75	46	
GXR-4 Cert	6.20	87.0	30.8	14.0	73.0	186	
SDC-1 Meas	< 10	48	< 5		101	30	
SDC-1 Cert	3.10	102.00	0.80		103.00	290.00	
SDC-1 Meas	< 10	43	< 5		97	34	
SDC-1 Cert	3.10	102.00	0.80		103.00	290.00	
GXR-6 Meas	< 10	96	< 5	13	131	59	
GXR-6 Cert	1.54	186	1.90	14.0	118	110	
GXR-6 Meas	< 10	139	< 5	12	130	72	
GXR-6 Cert	1.54	186	1.90	14.0	118	110	
Oreas 72a (4 Acid Digest) Meas							
Oreas 72a (4 Acid Digest) Cert							
Oreas 72a (4 Acid Digest) Meas							
Oreas 72a (4 Acid Digest) Cert							
DNC-1a Meas		149		16	57	35	
DNC-1a Cert		148.0000		18.0	70.0	38.0	
DNC-1a Meas		144		17	57	36	
DNC-1a Cert		148.0000		18.0	70.0	38.0	
OxP 91 Meas							14.8
OxP 91 Cert							14.82
SBC-1 Meas	< 10	228	< 5	32	196	117	
SBC-1 Cert	5.76	220.0	1.60	36.5	186.0	134.0	
SBC-1 Meas	< 10	227	< 5	32	183	116	
SBC-1 Cert	5.76	220.0	1.60	36.5	186.0	134.0	
OxK110 Meas							3.59
OxK110 Cert							3.602
SdAR-M2 (U.S.G.S.) Meas	< 10	26	12	29	775	127	
SdAR-M2 (U.S.G.S.) Cert	2.53	25.2	2.8	32.7	760	259	
SdAR-M2 (U.S.G.S.) Meas	< 10	24	9	30	782	113	
SdAR-M2 (U.S.G.S.) Cert	2.53	25.2	2.8	32.7	760	259	
SF85 Meas							
SF85 Cert							
262182 Orig							
262182 Dup							
262184 Orig	< 10	74	< 5	17	74	56	

Analyte Symbol	U	V	W	Y	Zn	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne
Lower Limit	10	2	5	1	1	5	0.02
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	FA-GRA
262184 Dup	< 10	66	< 5	17	75	47	
262191 Orig							
262191 Dup							
262198 Orig	< 10	112	< 5	20	67	138	
262198 Dup	< 10	110	< 5	20	68	135	
262202 Orig							
262202 Dup							
Method Blank							
Method Blank							
Method Blank							
Method Blank							
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5	
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5	
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5	
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5	
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5	
Method Blank							< 0.02



Date Submitted: 25-Jul-16
Invoice No.: A16-07200
Invoice Date: 10-Aug-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

35 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1E3 Aqua Regia ICP(AQUAGEO)

Code 1F2 Total Digestion ICP(TOTAL)

REPORT **A16-07200**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is written in a cursive, somewhat stylized font.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Date Submitted: 25-Jul-16
Invoice No.: A16-07200
Invoice Date: 10-Aug-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

35 Core samples were submitted for analysis.

The following analytical package(s) were requested: Code 1A2-50-Geraldton Au - Fire Assay AA

REPORT **A16-07200**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.



ACTIVATION LABORATORIES LTD.
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E-MAIL Geraldton@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé".

Emmanuel Esemé , Ph.D.
Quality Control

Results

Activation Laboratories Ltd.

Report: A16-07200

Analyte Symbol	Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni
Unit Symbol	ppb	g/tonne	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm
Lower Limit	5	0.02	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1
Method Code	FA-AA	FA-GRA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262420	6		< 0.3	7.59	4	173	< 1	< 2	4.66	< 0.3	25	40	25	5.65	16	1	0.95	1.93	22	901	< 1	2.57	48
262421	436		< 0.3	7.19	132	475	< 1	< 2	3.96	< 0.3	14	37	49	4.80	16	2	0.84	1.41	8	928	3	2.54	26
262422	5		0.4	7.09	< 3	157	< 1	2	4.35	< 0.3	22	34	16	5.27	17	1	1.02	1.62	21	860	< 1	2.49	38
262423	< 5		< 0.3	6.84	< 3	187	< 1	< 2	4.21	< 0.3	17	11	20	6.56	19	< 1	0.69	1.01	24	1070	< 1	2.13	3
262424	< 5		< 0.3	6.89	10	187	< 1	< 2	3.75	< 0.3	18	8	26	7.00	19	< 1	0.45	1.04	24	1150	< 1	2.53	3
262425	6		0.3	7.20	8	75	< 1	< 2	4.66	< 0.3	19	94	37	7.10	21	< 1	0.33	1.00	15	989	< 1	2.67	8
262426	8		< 0.3	6.55	6	135	< 1	< 2	6.47	0.4	48	36	86	10.0	18	< 1	0.72	2.76	26	1390	< 1	1.19	89
262427	6		< 0.3	6.81	< 3	67	< 1	< 2	6.64	< 0.3	53	34	110	10.8	18	< 1	0.45	3.06	20	1550	6	1.39	93
262428	97		0.9	7.44	< 3	125	< 1	< 2	4.02	< 0.3	22	15	54	7.09	20	< 1	0.43	1.42	18	1010	3	3.32	15
262429	8		< 0.3	7.17	< 3	102	< 1	< 2	4.12	< 0.3	19	11	24	7.19	20	1	0.50	1.07	21	1110	< 1	2.87	3
262430	6		< 0.3	7.14	< 3	135	< 1	< 2	4.80	0.4	19	7	46	7.97	19	< 1	0.63	1.17	20	1320	< 1	2.22	2
262431	< 5		< 0.3	0.12	3	165	< 1	< 2	16.8	< 0.3	< 1	3	< 1	0.06	< 1	< 1	0.10	11.9	17	300	< 1	0.03	1
262432	7		< 0.3	6.28	< 3	255	< 1	< 2	4.42	< 0.3	24	53	34	5.31	16	< 1	1.14	2.00	25	992	< 1	2.70	53
262433	8		< 0.3	8.18	< 3	108	< 1	< 2	5.15	< 0.3	24	39	32	4.95	17	1	0.56	1.98	15	900	< 1	3.20	50
262434	7		0.3	8.06	< 3	214	< 1	< 2	4.79	< 0.3	24	44	25	4.89	16	< 1	1.22	2.15	23	852	< 1	3.14	58
262435	10		< 0.3	8.01	5	148	< 1	< 2	4.87	< 0.3	24	35	27	4.91	17	< 1	0.71	1.99	20	908	< 1	3.26	53
262436	< 5		< 0.3	7.17	12	58	< 1	< 2	4.89	< 0.3	16	15	25	6.55	22	2	0.37	1.05	16	1110	< 1	2.52	7
262437	667		< 0.3	7.17	< 3	62	< 1	< 2	5.08	0.4	16	18	58	7.24	21	1	0.31	0.98	15	1350	< 1	2.27	3
262438	< 5		< 0.3	7.21	4	117	< 1	< 2	4.06	< 0.3	18	16	11	7.35	20	< 1	0.38	1.13	18	1360	< 1	2.81	2
262439	7		0.3	7.30	< 3	101	< 1	< 2	4.33	< 0.3	18	12	17	7.85	21	< 1	0.38	1.13	16	1470	< 1	2.80	3
262440	9		< 0.3	7.79	10	105	< 1	< 2	5.79	< 0.3	39	93	7	7.01	16	< 1	0.50	3.47	22	1390	< 1	3.15	101
262441	> 5000	5.91	7.6	5.10	68	95	< 1	< 2	1.52	12.6	11	28	1310	7.11	13	1	1.35	1.90	13	622	86	1.30	64
262442	5		0.4	7.07	< 3	144	< 1	< 2	4.81	< 0.3	16	11	9	7.15	21	< 1	0.45	1.03	21	1440	< 1	2.21	2
262443	< 5		< 0.3	6.88	< 3	188	< 1	< 2	5.13	< 0.3	16	13	16	7.30	20	1	0.61	1.05	23	1420	< 1	1.81	2
262444	< 5		< 0.3	6.83	5	153	< 1	< 2	4.14	< 0.3	17	82	17	7.04	19	1	0.53	1.06	24	1240	< 1	2.30	2
262445	9		< 0.3	6.94	4	144	< 1	< 2	4.41	< 0.3	21	30	34	6.80	18	< 1	0.52	1.56	22	1160	< 1	2.41	31
262446	7		< 0.3	6.59	< 3	185	< 1	< 2	4.54	< 0.3	20	79	49	6.78	17	< 1	0.68	1.48	21	1130	< 1	1.95	38
262447	7		< 0.3	6.96	11	129	< 1	< 2	6.05	< 0.3	51	410	18	7.49	13	2	0.69	5.44	24	1340	2	1.96	266
262448	7		0.4	6.48	< 3	100	< 1	< 2	5.66	< 0.3	46	357	74	7.64	13	2	0.55	4.70	28	1240	1	1.88	212
262449	< 5		< 0.3	6.77	3	167	< 1	< 2	4.43	< 0.3	17	16	22	7.08	18	2	0.49	0.94	15	1540	< 1	2.43	5
262450	< 5		< 0.3	7.40	< 3	242	< 1	< 2	4.58	< 0.3	17	88	22	7.09	20	1	0.61	0.87	15	1330	< 1	2.66	2
262451	< 5		< 0.3	7.28	< 3	9	< 1	< 2	0.20	< 0.3	< 1	2	< 1	0.14	20	< 1	3.20	0.02	22	34	< 1	7.68	1
262452	5		< 0.3	6.68	< 3	236	< 1	< 2	4.99	< 0.3	18	11	40	8.98	20	1	0.69	1.03	19	2000	< 1	2.01	3
262453	5		0.5	7.26	3	197	< 1	3	3.51	< 0.3	20	18	26	8.58	17	< 1	0.59	1.10	18	1750	< 1	2.48	2
262454	8		0.3	7.09	< 3	181	< 1	< 2	4.03	< 0.3	22	16	38	7.31	18	1	0.60	1.52	19	1410	< 1	2.90	20

Results

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Analyte Symbol	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Th	Ag	Cd	Cu	Mn	Mo	Ni	Pb
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5	20	0.2	0.5	1	5	1	1	2
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
262420	0.067	< 3	< 5	< 0.01	20	134	< 2	0.28	< 5	< 10	71	< 5	22	78	76	< 20	< 0.2	< 0.5	17	535	< 1	33	< 2
262421	0.052	11	< 5	0.06	21	303	< 2	0.27	< 5	< 10	109	< 5	21	55	27	< 20	< 0.2	< 0.5	43	535	3	19	8
262422	0.074	< 3	< 5	< 0.01	18	127	< 2	0.48	< 5	< 10	129	< 5	23	72	132	< 20	< 0.2	< 0.5	15	547	< 1	27	< 2
262423	0.116	< 3	< 5	0.03	19	157	5	0.48	< 5	< 10	22	< 5	35	97	132	< 20	< 0.2	< 0.5	18	606	< 1	1	< 2
262424	0.114	< 3	< 5	0.03	20	160	5	0.37	< 5	< 10	15	< 5	38	119	106	< 20	< 0.2	< 0.5	16	616	< 1	1	< 2
262425	0.115	< 3	< 5	0.10	20	221	4	0.34	< 5	< 10	19	< 5	36	95	110	< 20	< 0.2	< 0.5	30	479	2	2	< 2
262426	0.093	5	< 5	0.17	34	205	< 2	0.29	< 5	< 10	134	< 5	25	116	18	< 20	< 0.2	< 0.5	82	704	< 1	67	< 2
262427	0.101	< 3	< 5	0.19	37	181	3	0.52	< 5	< 10	178	< 5	27	111	32	< 20	< 0.2	< 0.5	102	713	12	64	< 2
262428	0.113	< 3	< 5	0.30	21	159	10	0.59	< 5	< 10	65	6	35	99	187	< 20	0.6	< 0.5	51	500	2	8	< 2
262429	0.115	< 3	< 5	< 0.01	20	155	6	0.25	< 5	< 10	9	< 5	37	102	83	< 20	< 0.2	< 0.5	17	613	< 1	1	< 2
262430	0.122	4	< 5	0.09	20	169	3	0.25	< 5	< 10	9	< 5	39	116	64	< 20	< 0.2	< 0.5	43	796	< 1	1	< 2
262431	0.005	< 3	< 5	0.02	< 4	140	< 2	< 0.01	< 5	< 10	< 2	< 5	1	7	< 5	< 20	< 0.2	< 0.5	< 1	259	< 1	1	2
262432	0.055	< 3	< 5	< 0.01	16	113	3	0.41	< 5	< 10	102	< 5	14	82	97	< 20	< 0.2	< 0.5	31	639	< 1	37	< 2
262433	0.038	< 3	< 5	0.01	20	185	< 2	0.37	< 5	< 10	123	< 5	15	66	100	< 20	< 0.2	< 0.5	27	542	< 1	31	< 2
262434	0.034	< 3	< 5	< 0.01	21	188	< 2	0.34	< 5	< 10	120	< 5	14	77	86	< 20	< 0.2	< 0.5	24	594	< 1	43	< 2
262435	0.035	< 3	< 5	< 0.01	21	189	< 2	0.36	< 5	< 10	122	< 5	17	74	98	< 20	< 0.2	< 0.5	25	572	< 1	36	< 2
262436	0.113	< 3	< 5	0.03	19	220	5	0.35	< 5	< 10	18	< 5	35	93	106	< 20	< 0.2	< 0.5	20	628	< 1	3	< 2
262437	0.122	< 3	< 5	0.19	20	195	4	0.32	< 5	< 10	14	< 5	38	108	89	< 20	< 0.2	< 0.5	56	670	< 1	< 1	< 2
262438	0.120	< 3	< 5	0.03	20	155	5	0.29	< 5	< 10	9	< 5	39	110	91	< 20	< 0.2	< 0.5	8	639	< 1	1	< 2
262439	0.129	< 3	< 5	0.03	21	165	4	0.52	< 5	< 10	18	< 5	38	99	138	< 20	< 0.2	< 0.5	13	679	< 1	< 1	< 2
262440	0.045	< 3	< 5	< 0.01	36	126	< 2	0.38	< 5	< 10	169	< 5	13	95	45	< 20	< 0.2	< 0.5	5	621	< 1	54	< 2
262441	0.045	196	5	4.30	12	190	< 2	0.19	< 5	< 10	76	11	13	2330	46	< 20	7.1	12.0	1240	566	70	49	181
262442	0.123	< 3	< 5	0.03	19	147	3	0.59	< 5	< 10	21	< 5	39	93	155	< 20	< 0.2	< 0.5	9	836	< 1	2	< 2
262443	0.115	3	< 5	0.03	18	133	5	0.45	< 5	< 10	17	< 5	36	106	101	< 20	< 0.2	< 0.5	8	749	< 1	< 1	< 2
262444	0.116	< 3	< 5	0.02	19	160	3	0.41	< 5	< 10	15	< 5	36	100	110	< 20	< 0.2	< 0.5	15	708	< 1	< 1	< 2
262445	0.101	< 3	< 5	0.01	20	154	4	0.29	< 5	< 10	33	< 5	31	85	92	< 20	< 0.2	< 0.5	32	698	< 1	18	< 2
262446	0.099	6	< 5	0.11	21	144	3	0.23	< 5	< 10	20	< 5	33	116	71	< 20	< 0.2	< 0.5	43	677	< 1	24	3
262447	0.036	4	< 5	0.02	35	125	4	0.34	< 5	< 10	157	7	15	83	60	< 20	< 0.2	< 0.5	8	619	< 1	152	< 2
262448	0.062	3	< 5	0.17	34	126	< 2	0.42	< 5	< 10	110	< 5	20	87	90	< 20	< 0.2	< 0.5	70	645	< 1	131	< 2
262449	0.130	4	< 5	0.06	19	166	3	0.30	< 5	< 10	9	< 5	39	90	79	< 20	< 0.2	< 0.5	18	925	< 1	1	< 2
262450	0.142	< 3	< 5	0.03	20	201	6	0.39	< 5	< 10	11	< 5	42	106	93	< 20	< 0.2	< 0.5	18	778	< 1	1	< 2
262451	< 0.001	< 3	< 5	< 0.01	< 4	16	< 2	< 0.01	< 5	< 10	< 2	< 5	2	8	13	< 20	< 0.2	< 0.5	< 1	22	< 1	< 1	< 2
262452	0.123	< 3	< 5	0.03	18	156	6	0.46	< 5	< 10	15	< 5	40	97	101	< 20	< 0.2	< 0.5	34	1100	< 1	1	< 2
262453	0.137	< 3	< 5	0.04	22	133	5	0.58	< 5	< 10	17	< 5	47	101	217	< 20	< 0.2	< 0.5	17	875	< 1	< 1	< 2
262454	0.106	< 3	< 5	0.02	21	113	< 2	0.44	< 5	< 10	57	< 5	31	86	113	< 20	< 0.2	< 0.5	38	741	< 1	7	< 2

Results

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Analyte Symbol	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%
Lower Limit	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
262420	61	2.45	< 2	< 10	129	< 0.5	< 2	1.83	17	38	4.31	< 10	< 1	0.72	13	1.50	0.263	0.061	< 0.01	< 2	11	16	0.26
262421	45	2.39	161	< 10	106	< 0.5	< 2	1.69	9	30	3.87	< 10	< 1	0.14	< 10	0.78	0.244	0.048	0.05	3	7	80	0.17
262422	62	2.54	< 2	< 10	99	< 0.5	< 2	1.86	16	24	4.24	< 10	< 1	0.68	14	1.31	0.275	0.063	< 0.01	< 2	11	19	0.24
262423	82	2.68	< 2	< 10	108	< 0.5	< 2	2.12	13	6	5.04	10	< 1	0.45	13	0.87	0.245	0.102	0.03	< 2	12	27	0.20
262424	90	2.27	< 2	< 10	129	< 0.5	< 2	1.65	13	4	5.03	< 10	< 1	0.33	13	0.81	0.248	0.107	0.02	< 2	12	15	0.19
262425	57	2.11	< 2	< 10	48	< 0.5	< 2	2.03	12	5	4.68	10	< 1	0.25	13	0.63	0.251	0.110	0.09	< 2	12	34	0.19
262426	84	3.53	< 2	< 10	114	< 0.5	< 2	3.37	32	29	6.67	10	< 1	0.56	< 10	1.96	0.331	0.095	0.16	< 2	18	47	0.28
262427	70	3.62	< 2	< 10	42	< 0.5	< 2	3.74	32	26	6.40	10	< 1	0.23	< 10	1.90	0.444	0.101	0.18	< 2	18	60	0.24
262428	72	2.06	< 2	< 10	92	< 0.5	< 2	1.74	16	11	4.95	< 10	< 1	0.33	14	0.93	0.266	0.101	0.28	< 2	12	16	0.23
262429	76	2.37	< 2	< 10	76	< 0.5	< 2	2.00	13	5	5.11	10	< 1	0.34	13	0.81	0.288	0.111	< 0.01	< 2	12	15	0.19
262430	99	3.12	< 2	< 10	88	< 0.5	< 2	2.61	14	4	6.29	10	< 1	0.44	14	1.00	0.303	0.118	0.08	< 2	12	28	0.22
262431	6	0.10	< 2	29	152	< 0.5	< 2	14.0	< 1	< 1	0.07	< 10	< 1	0.08	< 10	10.1	0.029	0.003	0.02	< 2	< 1	126	< 0.01
262432	72	2.48	< 2	< 10	177	< 0.5	< 2	1.96	18	42	4.46	< 10	< 1	1.08	< 10	1.69	0.229	0.048	< 0.01	< 2	11	14	0.24
262433	49	1.99	< 2	< 10	70	< 0.5	< 2	1.84	15	29	3.40	< 10	< 1	0.39	< 10	1.36	0.273	0.033	< 0.01	< 2	11	15	0.21
262434	67	2.28	2	< 10	127	< 0.5	< 2	1.95	18	42	3.95	< 10	< 1	0.72	< 10	1.74	0.222	0.032	< 0.01	< 2	11	24	0.25
262435	57	1.99	< 2	< 10	93	< 0.5	< 2	2.00	16	34	3.60	< 10	< 1	0.48	< 10	1.45	0.243	0.031	< 0.01	< 2	10	21	0.22
262436	68	2.36	< 2	< 10	32	< 0.5	< 2	2.34	11	10	4.75	10	< 1	0.22	13	0.79	0.255	0.106	0.03	< 2	12	33	0.23
262437	79	2.45	< 2	< 10	40	< 0.5	< 2	2.37	12	7	4.71	< 10	< 1	0.18	14	0.66	0.261	0.117	0.17	< 2	11	35	0.18
262438	77	2.21	< 2	< 10	75	< 0.5	< 2	1.81	12	4	4.75	10	< 1	0.27	14	0.77	0.278	0.113	0.02	< 2	12	10	0.17
262439	62	2.27	< 2	< 10	42	< 0.5	< 2	2.01	11	8	5.04	10	< 1	0.17	13	0.72	0.273	0.111	0.02	< 2	12	22	0.18
262440	55	1.97	< 2	< 10	21	< 0.5	< 2	2.30	20	79	3.78	< 10	< 1	0.14	< 10	1.84	0.205	0.038	< 0.01	< 2	13	13	0.16
262441	2290	1.61	73	< 10	11	< 0.5	< 2	1.10	9	25	6.81	< 10	< 1	0.21	11	1.71	0.073	0.039	3.95	11	4	61	0.05
262442	81	2.78	< 2	< 10	88	< 0.5	< 2	2.52	12	8	5.59	10	< 1	0.31	14	0.88	0.260	0.116	0.02	< 2	12	31	0.21
262443	82	2.73	< 2	< 10	120	< 0.5	< 2	2.29	12	5	5.21	10	< 1	0.40	12	0.87	0.233	0.109	0.01	< 2	11	22	0.21
262444	84	2.64	< 2	< 10	107	< 0.5	< 2	2.08	13	7	5.44	< 10	< 1	0.38	13	0.91	0.262	0.112	0.02	< 2	12	17	0.20
262445	72	2.75	< 2	< 10	57	< 0.5	< 2	2.39	15	21	5.40	10	< 1	0.25	12	1.29	0.257	0.102	< 0.01	< 2	12	22	0.22
262446	100	2.72	< 2	< 10	101	< 0.5	< 2	2.23	15	66	5.40	10	< 1	0.40	12	1.22	0.212	0.100	0.10	< 2	12	24	0.24
262447	49	2.62	< 2	< 10	20	< 0.5	< 2	2.39	24	383	4.19	< 10	< 1	0.11	< 10	2.72	0.209	0.033	0.01	3	11	23	0.16
262448	52	3.00	< 2	< 10	14	< 0.5	< 2	2.58	27	374	5.05	< 10	< 1	0.07	< 10	2.65	0.114	0.059	0.15	< 3	12	42	0.19
262449	73	2.50	< 2	< 10	66	< 0.5	< 2	2.33	12	9	5.40	< 10	< 1	0.21	13	0.78	0.248	0.124	0.05	< 2	11	29	0.20
262450	86	2.46	< 2	< 10	95	< 0.5	< 2	2.14	12	7	5.14	10	< 1	0.30	15	0.70	0.256	0.126	0.02	< 2	12	25	0.19
262451	4	4.28	< 2	< 10	< 10	< 0.5	< 2	0.14	< 1	< 1	0.09	< 10	< 1	1.23	< 10	0.02	2.88	0.001	< 0.01	< 2	< 1	9	< 0.01
262452	75	2.82	< 2	< 10	93	< 0.5	< 2	2.69	13	5	6.35	10	< 1	0.33	13	0.80	0.245	0.108	0.02	3	10	33	0.20
262453	75	2.30	< 2	< 10	97	< 0.5	< 2	1.71	13	5	6.00	< 10	< 1	0.34	13	0.77	0.243	0.121	0.03	2	11	10	0.17
262454	63	2.37	< 2	< 10	78	< 0.5	< 2	2.12	14	8	5.25	10	< 1	0.26	13	1.08	0.270	0.105	0.01	< 2	13	15	0.21

Analyte Symbol	Te	Tl	U	V	W	Y	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
262420	2	< 2	< 10	97	< 10	12	10
262421	3	< 2	< 10	95	< 10	10	5
262422	3	< 2	< 10	98	< 10	14	7
262423	< 1	< 2	< 10	20	< 10	22	6
262424	2	< 2	< 10	17	< 10	22	8
262425	2	< 2	< 10	22	< 10	23	8
262426	< 1	< 2	< 10	163	< 10	14	4
262427	< 1	< 2	< 10	162	< 10	14	4
262428	3	< 2	< 10	49	< 10	22	12
262429	< 1	< 2	< 10	17	< 10	23	8
262430	< 1	< 2	< 10	16	< 10	23	6
262431	< 1	< 2	< 10	< 1	< 10	< 1	< 1
262432	5	< 2	< 10	77	< 10	11	6
262433	3	< 2	< 10	80	< 10	8	10
262434	3	< 2	< 10	88	< 10	9	10
262435	2	< 2	< 10	83	< 10	10	11
262436	< 1	< 2	< 10	21	< 10	21	8
262437	4	< 2	< 10	15	< 10	21	7
262438	1	< 2	< 10	15	< 10	22	7
262439	3	< 2	< 10	15	< 10	22	6
262440	1	< 2	< 10	85	< 10	6	3
262441	2	< 2	< 10	53	11	5	7
262442	4	< 2	< 10	16	< 10	23	7
262443	4	< 2	< 10	14	< 10	19	7
262444	< 1	< 2	< 10	15	< 10	21	7
262445	2	< 2	< 10	40	< 10	19	7
262446	4	< 2	< 10	25	< 10	19	5
262447	1	< 2	< 10	72	< 10	7	4
262448	1	< 2	< 10	56	< 10	11	3
262449	3	< 2	< 10	12	< 10	23	6
262450	4	< 2	< 10	11	< 10	24	4
262451	< 1	< 2	< 10	< 1	< 10	2	< 1
262452	3	< 2	< 10	10	< 10	21	6
262453	4	< 2	< 10	11	< 10	21	6
262454	3	< 2	< 10	48	< 10	20	6

Analyte Symbol	Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni
Unit Symbol	ppb	g/tonne	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm
Lower Limit	5	0.02	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1
Method Code	FA-AA	FA-GRA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas			31.8	2.07	390	679	1	1370	0.89	2.8	8	15	1220	24.0	14	8	0.04	0.22	8	886	16	0.05	47
GXR-1 Cert			31.0	3.52	427	750	1.22	1380	0.960	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520	41.0
GXR-1 Meas			33.3	2.12	415	711	1	1430	0.93	3.0	8	15	1280	25.2	14	5	0.05	0.22	9	927	17	0.05	50
GXR-1 Cert			31.0	3.52	427	750	1.22	1380	0.960	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520	41.0
GXR-4 Meas			3.2	6.62	100	106	2	28	1.07	0.4	15	47	6410	3.00	19	< 1	2.08	1.70	13	163	320	0.54	44
GXR-4 Cert			4.0	7.20	98.0	1640	1.90	19.0	1.01	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564	42.0
GXR-4 Meas			3.3	6.92	100	98	2	14	1.09	0.3	15	48	6640	3.06	19	< 1	2.93	1.73	13	172	325	0.55	44
GXR-4 Cert			4.0	7.20	98.0	1640	1.90	19.0	1.01	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564	42.0
SDC-1 Meas				7.20	8	630	3		1.09		19	46	35	4.66	21	< 1	1.98	0.98	33	865		1.49	37
SDC-1 Cert				8.34	0.220	630	3.00		1.00		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34.00	880.00		1.52	38.0
GXR-6 Meas			0.4	11.7	241	> 1000	1	< 2	0.20	< 0.3	15	47	73	5.65	28	< 1	1.88	0.62	33	1060	1	0.11	29
GXR-6 Cert			1.30	17.7	330	1300	1.40	0.290	0.180	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104	27.0
GXR-6 Meas			0.4	11.8	266	> 1000	1	< 2	0.19	< 0.3	16	63	73	5.83	29	1	2.15	0.62	33	1120	1	0.10	29
GXR-6 Cert			1.30	17.7	330	1300	1.40	0.290	0.180	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104	27.0
DNC-1a Meas						94					56	253	101			13			4				256
DNC-1a Cert						118					57.0	270	100.00			15			5.20				247
DNC-1a Meas						95					56	137	101			13			4				256
DNC-1a Cert						118					57.0	270	100.00			15			5.20				247
OxP 91 Meas		14.8																					
OxP 91 Cert		14.82																					
SBC-1 Meas					23	650	3	3		0.5	24	74	39						160		3		92
SBC-1 Cert					25.7	788.0	3.20	0.70		0.40	22.7	109	31.0000						163.0		2.40		82.8
SBC-1 Meas					22	723	3	< 2		0.6	24	90	35						159		2		91
SBC-1 Cert					25.7	788.0	3.20	0.70		0.40	22.7	109	31.0000						163.0		2.40		82.8
OxK110 Meas		3.59																					
OxK110 Cert		3.602																					
SdAR-M2 (U.S.G.S.) Meas						937	8	< 2		5.2	15	43	255		17	1			17		14		58
SdAR-M2 (U.S.G.S.) Cert						990	6.6	1.05		5.1	12.4	49.6	236.0000		17.6	1.44			17.9		13.3		48.8
SdAR-M2 (U.S.G.S.) Meas						966	8	< 2		5.4	15	42	261		17	< 1			18		12		61
SdAR-M2 (U.S.G.S.) Cert						990	6.6	1.05		5.1	12.4	49.6	236.0000		17.6	1.44			17.9		13.3		48.8
SF85 Meas	839																						
SF85 Cert	848																						
OxD128 Meas	428																						
OxD128 Cert	424.000																						
262427 Orig			< 0.3	6.84	< 3	67	< 1	< 2	6.70	0.4	54	34	110	10.8	19	2	0.45	3.08	20	1560	6	1.40	93
262427 Dup			< 0.3	6.78	< 3	67	< 1	< 2	6.58	< 0.3	52	33	110	10.7	18	< 1	0.45	3.03	20	1540	7	1.39	92
262428 Orig																							
262428 Dup																							
262429 Orig	8																						
262429 Dup	7																						
262439 Orig	5																						
262439 Dup	8																						
262444 Orig																							
262444 Dup																							
262449 Orig	< 5																						

Analyte Symbol	Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni
Unit Symbol	ppb	g/tonne	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm
Lower Limit	5	0.02	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1
Method Code	FA-AA	FA-GRA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262449 Dup	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank		< 0.02																					
Method Blank			< 0.3	0.02	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1
Method Blank			< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		2	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1
Method Blank			< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1
Method Blank			< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1
Method Blank			< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1
Method Blank			< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank			< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1

Analyte Symbol	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Th	Ag	Cd	Cu	Mn	Mo	Ni	Pb
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5	20	0.2	0.5	1	5	1	1	2
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	0.063	731	68	0.25	< 4	293	12	0.03	< 5	40	88	168	33	739	23	< 20	28.9	2.3	1130	748	13	31	597
GXR-1 Cert	0.0650	730	122	0.257	1.58	275	13.0	0.036	0.390	34.9	80.0	164	32.0	760	38.0	2.44	31.0	3.30	1110	852	18.0	41.0	730
GXR-1 Meas	0.069	761	33	0.27	< 4	308	9	0.03	< 5	40	93	161	34	759	24	< 20	29.8	2.0	1150	840	13	35	616
GXR-1 Cert	0.0650	730	122	0.257	1.58	275	13.0	0.036	0.390	34.9	80.0	164	32.0	760	38.0	2.44	31.0	3.30	1110	852	18.0	41.0	730
GXR-4 Meas	0.126	48	< 5	1.77	8	209	4	0.29	< 5	< 10	86	38	15	73	47	< 20	3.6	< 0.5	6360	134	275	39	39
GXR-4 Cert	0.120	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20	6.20	87.0	30.8	14.0	73.0	186	22.5	4.0	0.860	6520	155	310	42.0	52.0
GXR-4 Meas	0.141	44	< 5	1.84	8	212	2	0.30	< 5	< 10	88	39	16	73	48	< 20	3.4	< 0.5	6100	133	264	37	40
GXR-4 Cert	0.120	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20	6.20	87.0	30.8	14.0	73.0	186	22.5	4.0	0.860	6520	155	310	42.0	52.0
SDC-1 Meas	0.053	21	< 5		16	170		0.30	< 5	< 10	64	< 5		94	38								
SDC-1 Cert	0.0690	25.00	0.54		17.00	180.00		0.606	0.70	3.10	102.00	0.80		103.00	290.00								
GXR-6 Meas	0.035	92	< 5	0.02	30	40	< 2		< 5	< 10	151	< 5	15	124	86	< 20	0.3	< 0.5	62	949	< 1	21	83
GXR-6 Cert	0.0350	101	3.60	0.0160	27.6	35.0	0.0180		2.20	1.54	186	1.90	14.0	118	110	5.30	1.30	1.00	66.0	1010	2.40	27.0	101
GXR-6 Meas	0.040	97	< 5	0.02	32	41	< 2		< 5	< 10	158	< 5	15	131	90	< 20	0.3	< 0.5	67	1010	1	22	88
GXR-6 Cert	0.0350	101	3.60	0.0160	27.6	35.0	0.0180		2.20	1.54	186	1.90	14.0	118	110	5.30	1.30	1.00	66.0	1010	2.40	27.0	101
DNC-1a Meas		4	< 5		31	129		0.30			140			17	54	36							
DNC-1a Cert		6.3	0.96		31	144.0		0.29			148.0000			18.0	70.0	38.0							
DNC-1a Meas		5	< 5		32	130		0.30			142			17	54	36							
DNC-1a Cert		6.3	0.96		31	144.0		0.29			148.0000			18.0	70.0	38.0							
OxP 91 Meas																							
OxP 91 Cert																							
SBC-1 Meas		29	< 5		22	178		0.52	< 5	< 10	217	< 5	37	177	119								
SBC-1 Cert		35.0	1.01		20.0	178.0		0.51	0.89	5.76	220.0	1.60	36.5	186.0	134.0								
SBC-1 Meas		27	< 5		22	178		0.53	< 5	< 10	218	< 5	38	182	122								
SBC-1 Cert		35.0	1.01		20.0	178.0		0.51	0.89	5.76	220.0	1.60	36.5	186.0	134.0								
OxK110 Meas																							
OxK110 Cert																							
SdAR-M2 (U.S.G.S.) Meas		816			4	146				< 10	27	10	31	784	65	< 20		5.4	247		12	49	819
SdAR-M2 (U.S.G.S.) Cert		808			4.1	144				2.53	25.2	2.8	32.7	760	259	14.2		5.1	236.0000		13.3	48.8	808
SdAR-M2 (U.S.G.S.) Meas		831			4	147				< 10	26	8	30	799	118	< 20		5.3	248		12	48	803
SdAR-M2 (U.S.G.S.) Cert		808			4.1	144				2.53	25.2	2.8	32.7	760	259	14.2		5.1	236.0000		13.3	48.8	808
SF85 Meas																							
SF85 Cert																							
OxD128 Meas																							
OxD128 Cert																							
262427 Orig	0.102	< 3	< 5	0.19	38	181	5	0.48	< 5	< 10	173	< 5	27	113	29								
262427 Dup	0.100	< 3	< 5	0.19	37	180	2	0.55	< 5	< 10	184	< 5	26	110	34								
262428 Orig																< 20	0.6	< 0.5	52	507	2	8	< 2
262428 Dup																< 20	0.6	< 0.5	51	492	2	7	< 2
262429 Orig																							
262429 Dup																							
262439 Orig																							
262439 Dup																							
262444 Orig																< 20	< 0.2	< 0.5	14	686	< 1	1	< 2
262444 Dup																< 20	< 0.2	< 0.5	16	730	< 1	< 1	< 2

Analyte Symbol	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Th	Ag	Cd	Cu	Mn	Mo	Ni	Pb
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5	20	0.2	0.5	1	5	1	1	2
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
262449 Orig																							
262449 Dup																							
Method Blank																							
Method Blank																							
Method Blank	< 0.001	< 3	< 5	< 0.01	< 4	3	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5								
Method Blank	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5								
Method Blank	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5								
Method Blank	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5								
Method Blank	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5								
Method Blank																< 20	< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2
Method Blank																< 20	< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2
Method Blank																< 20	< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2
Method Blank	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5								

Analyte Symbol	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%
Lower Limit	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	660	0.36	387	< 10	358	0.8	1480	0.79	4	6	23.6	< 10	4	0.03	< 10	0.14	0.056	0.044	0.20	74	1	180	< 0.01
GXR-1 Cert	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036
GXR-1 Meas	683	0.37	398	< 10	183	0.8	1510	0.82	6	8	24.1	< 10	4	0.03	< 10	0.14	0.054	0.046	0.20	81	1	181	< 0.01
GXR-1 Cert	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036
GXR-4 Meas	70	2.73	102	< 10	30	1.3	21	0.90	13	55	3.18	10	< 1	1.61	53	1.65	0.135	0.123	1.68	3	7	68	0.13
GXR-4 Cert	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29
GXR-4 Meas	68	2.81	97	< 10	21	1.3	16	0.90	13	52	3.05	10	< 1	1.63	49	1.60	0.152	0.117	1.64	3	7	72	0.13
GXR-4 Cert	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29
SDC-1 Meas																							
SDC-1 Cert																							
GXR-6 Meas	117	7.12	200	< 10	1040	0.9	< 2	0.20	12	76	5.26	20	< 1	1.05	11	0.41	0.105	0.031	0.01	3	22	37	
GXR-6 Cert	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0	
GXR-6 Meas	123	7.42	244	< 10	845	0.9	< 2	0.16	13	81	5.60	20	< 1	1.11	12	0.42	0.088	0.034	0.01	4	23	31	
GXR-6 Cert	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0	
DNC-1a Meas																							
DNC-1a Cert																							
DNC-1a Meas																							
DNC-1a Cert																							
OxP 91 Meas																							
OxP 91 Cert																							
SBC-1 Meas																							
SBC-1 Cert																							
SBC-1 Meas																							
SBC-1 Cert																							
OxK110 Meas																							
OxK110 Cert																							
SdAR-M2 (U.S.G.S.) Meas	825				127	5.0	< 2		13	10		< 10	1		47						2	21	
SdAR-M2 (U.S.G.S.) Cert	760				990	6.6	1.05		12.4	49.6		17.6	1.44		46.6						4.1	144	
SdAR-M2 (U.S.G.S.) Meas	818				123	5.0	< 2		13	10		< 10	1		47						2	21	
SdAR-M2 (U.S.G.S.) Cert	760				990	6.6	1.05		12.4	49.6		17.6	1.44		46.6						4.1	144	
SF85 Meas																							
SF85 Cert																							
OxD128 Meas																							
OxD128 Cert																							
262427 Orig																							
262427 Dup																							
262428 Orig	73	2.09	< 2	< 10	93	< 0.5	< 2	1.75	16	12	4.99	10	< 1	0.33	14	0.93	0.269	0.102	0.28	< 2	13	17	0.23
262428 Dup	72	2.02	< 2	< 10	91	< 0.5	< 2	1.73	16	11	4.91	< 10	< 1	0.33	14	0.92	0.263	0.101	0.28	< 2	12	16	0.22
262429 Orig																							
262429 Dup																							
262439 Orig																							
262439 Dup																							
262444 Orig	82	2.54	< 2	< 10	104	< 0.5	< 2	2.02	13	8	5.27	< 10	< 1	0.37	13	0.88	0.254	0.111	0.02	< 2	11	17	0.20
262444 Dup	86	2.74	< 2	< 10	110	< 0.5	< 2	2.14	13	6	5.62	10	< 1	0.39	14	0.94	0.269	0.114	0.02	< 2	12	18	0.20
262449 Orig																							

Analyte Symbol	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%
Lower Limit	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
262449 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01
Method Blank	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01
Method Blank	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01
Method Blank																							

Analyte Symbol	Te	Tl	U	V	W	Y	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	12	< 2	31	79	132	24	14
GXR-1 Cert	13.0	0.390	34.9	80.0	164	32.0	38.0
GXR-1 Meas	11	< 2	32	81	140	24	15
GXR-1 Cert	13.0	0.390	34.9	80.0	164	32.0	38.0
GXR-4 Meas	1	< 2	< 10	81	11	11	10
GXR-4 Cert	0.970	3.20	6.20	87.0	30.8	14.0	186
GXR-4 Meas	2	< 2	< 10	77	14	11	11
GXR-4 Cert	0.970	3.20	6.20	87.0	30.8	14.0	186
SDC-1 Meas							
SDC-1 Cert							
GXR-6 Meas	< 1	< 2	< 10	167	< 10	6	7
GXR-6 Cert	0.0180	2.20	1.54	186	1.90	14.0	110
GXR-6 Meas	< 1	< 2	< 10	179	< 10	6	9
GXR-6 Cert	0.0180	2.20	1.54	186	1.90	14.0	110
DNC-1a Meas							
DNC-1a Cert							
DNC-1a Meas							
DNC-1a Cert							
OxP 91 Meas							
OxP 91 Cert							
SBC-1 Meas							
SBC-1 Cert							
SBC-1 Meas							
SBC-1 Cert							
OxK110 Meas							
OxK110 Cert							
SdAR-M2 (U.S.G.S.) Meas			< 10	20	< 10	18	7
SdAR-M2 (U.S.G.S.) Cert			2.53	25.2	2.8	32.7	259
SdAR-M2 (U.S.G.S.) Meas			< 10	20	< 10	18	7
SdAR-M2 (U.S.G.S.) Cert			2.53	25.2	2.8	32.7	259
SF85 Meas							
SF85 Cert							
OxD128 Meas							
OxD128 Cert							
262427 Orig							
262427 Dup							
262428 Orig	2	< 2	< 10	50	< 10	22	13
262428 Dup	3	< 2	< 10	49	< 10	21	12
262429 Orig							
262429 Dup							
262439 Orig							
262439 Dup							
262444 Orig	< 1	< 2	< 10	14	< 10	20	7
262444 Dup	2	< 2	< 10	15	< 10	22	7
262449 Orig							

Analyte Symbol	Te	Tl	U	V	W	Y	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
262449 Dup							
Method Blank							
Method Blank							
Method Blank							
Method Blank							
Method Blank							
Method Blank							
Method Blank							
Method Blank							
Method Blank	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank							



Date Submitted: 22-Jul-16
Invoice No.: A16-07199
Invoice Date: 18-Aug-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

35 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-50-Geraldton Au - Fire Assay AA

REPORT **A16-07199**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.



CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is written in a cursive style with some loops and flourishes.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
801 Main Street, P.O. Box 999, Geraldton, Ontario, Canada, P0T 1M0
TELEPHONE +807 854-2020 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Geraldton@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Date Submitted: 22-Jul-16
Invoice No.: A16-07199
Invoice Date: 18-Aug-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

35 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1E3 Aqua Regia ICP(AQUAGEO)

Code 1F2 Total Digestion ICP(TOTAL)

REPORT **A16-07199**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:



Emmanuel Esemé , Ph.D.
Quality Control

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Results

Activation Laboratories Ltd.

Report: A16-07199

Analyte Symbol	Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni
Unit Symbol	ppb	g/tonne	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm
Lower Limit	5	0.02	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1
Method Code	FA-AA	FA-GRA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262137	< 5		1.1	7.01	5	227	< 1	< 2	2.51	< 0.3	6	28	13	1.81	18	< 1	0.76	0.52	11	194	< 1	3.58	7
262138	< 5		< 0.3	7.27	11	296	< 1	< 2	2.65	< 0.3	6	24	15	1.83	19	3	0.89	0.61	12	222	< 1	3.53	9
262139	< 5		< 0.3	7.30	< 3	304	< 1	< 2	2.42	< 0.3	8	17	18	1.97	19	1	1.02	0.71	9	246	< 1	3.52	8
262140	< 5		< 0.3	7.36	< 3	302	< 1	< 2	2.53	< 0.3	8	19	19	2.00	20	< 1	1.13	0.65	10	249	< 1	3.47	8
262141	345		< 0.3	7.19	124	471	< 1	< 2	3.94	< 0.3	14	33	49	4.78	15	1	0.83	1.38	8	943	2	2.54	26
262142	< 5		< 0.3	7.36	6	305	< 1	< 2	2.56	< 0.3	6	20	20	1.95	19	< 1	0.96	0.59	9	246	2	3.59	7
262143	< 5		< 0.3	7.05	6	330	< 1	< 2	2.50	< 0.3	7	26	21	1.85	19	< 1	1.02	0.57	9	250	< 1	3.60	8
262144	< 5		< 0.3	7.18	6	311	< 1	< 2	2.31	< 0.3	6	17	4	1.79	20	1	1.33	0.56	10	229	1	3.79	8
262145	< 5		< 0.3	7.27	10	381	< 1	< 2	2.88	< 0.3	6	20	8	1.84	19	< 1	1.31	0.56	10	337	1	3.49	7
262146	< 5		< 0.3	7.41	14	430	< 1	< 2	3.13	< 0.3	9	19	14	1.91	19	1	1.55	0.57	11	388	< 1	3.51	12
262147	< 5		< 0.3	7.10	8	346	< 1	< 2	2.70	< 0.3	6	18	9	1.78	18	2	1.55	0.55	9	326	< 1	3.59	8
262148	< 5		< 0.3	7.09	9	350	< 1	< 2	3.14	< 0.3	7	19	9	1.79	19	2	1.43	0.53	11	369	< 1	3.57	8
262149	< 5		< 0.3	6.31	< 3	326	< 1	< 2	2.85	< 0.3	7	55	5	1.84	18	< 1	1.48	0.57	11	389	< 1	3.37	8
262150	< 5		< 0.3	6.64	12	363	1	< 2	2.46	< 0.3	7	26	9	1.91	19	3	1.39	0.62	11	353	2	3.59	8
262151	< 5		< 0.3	8.54	< 3	11	< 1	< 2	0.38	< 0.3	< 1	3	< 1	0.62	22	< 1	3.50	0.02	25	145	< 1	7.73	1
262152	< 5		< 0.3	7.37	< 3	420	< 1	< 2	2.66	< 0.3	7	19	18	1.91	19	< 1	1.78	0.68	12	376	< 1	3.46	8
262153	< 5		< 0.3	6.90	< 3	325	< 1	< 2	2.41	< 0.3	7	27	7	1.78	19	< 1	1.37	0.56	11	315	1	3.61	7
262154	< 5		< 0.3	6.99	< 3	335	< 1	< 2	2.31	< 0.3	6	25	9	1.80	19	2	1.47	0.55	10	315	< 1	3.50	7
262155	< 5		< 0.3	7.20	7	338	< 1	< 2	2.49	< 0.3	6	25	13	1.76	19	< 1	1.52	0.50	10	300	< 1	3.61	9
262156	< 5		< 0.3	6.84	3	261	< 1	< 2	2.66	< 0.3	6	22	12	1.76	19	< 1	0.97	0.51	10	299	< 1	3.66	7
262157	< 5		< 0.3	6.98	< 3	217	1	< 2	2.41	< 0.3	7	20	8	1.84	19	< 1	0.86	0.56	13	293	< 1	3.95	7
262158	< 5		< 0.3	6.40	8	203	< 1	< 2	2.30	< 0.3	6	25	9	1.67	18	2	0.82	0.52	11	285	< 1	3.58	8
262159	< 5		< 0.3	6.52	< 3	241	< 1	< 2	2.52	< 0.3	6	23	9	1.76	19	< 1	1.21	0.62	12	306	< 1	3.88	7
262160	< 5		< 0.3	6.68	< 3	280	< 1	< 2	2.55	0.3	7	21	12	1.81	20	< 1	1.23	0.60	12	346	< 1	3.85	9
262161	> 5000	5.98	7.7	5.30	74	157	< 1	< 2	1.59	13.2	12	39	1320	7.41	14	< 1	1.41	1.98	13	668	88	1.34	62
262162	< 5		< 0.3	6.84	< 3	260	< 1	< 2	2.44	0.6	6	20	42	1.57	19	< 1	1.05	0.66	13	359	< 1	4.05	8
262163	< 5		< 0.3	7.60	7	284	< 1	< 2	2.78	< 0.3	6	19	4	1.70	20	1	1.12	0.53	11	288	< 1	4.01	8
262164	< 5		< 0.3	7.23	< 3	287	< 1	< 2	2.43	< 0.3	6	30	5	1.61	19	< 1	1.15	0.49	11	249	< 1	3.72	8
262165	< 5		< 0.3	6.65	< 3	276	< 1	< 2	2.46	< 0.3	6	22	3	1.75	19	< 1	1.20	0.55	11	263	1	3.62	9
262166	< 5		< 0.3	7.08	< 3	458	< 1	< 2	2.25	< 0.3	7	18	5	1.94	20	< 1	1.89	0.59	12	259	< 1	3.72	8
262167	< 5		< 0.3	6.52	< 3	247	< 1	< 2	2.14	< 0.3	7	23	6	1.73	18	< 1	1.17	0.56	12	259	1	3.51	7
262168	< 5		< 0.3	6.61	< 3	234	< 1	< 2	2.40	< 0.3	7	25	32	2.03	19	< 1	0.80	0.96	14	431	< 1	3.99	13
262169	< 5		< 0.3	6.70	< 3	276	< 1	< 2	2.22	< 0.3	6	19	23	1.57	20	< 1	0.83	0.74	14	260	< 1	4.21	8
262170	< 5		< 0.3	6.55	8	266	< 1	< 2	2.53	< 0.3	6	16	11	1.55	19	< 1	1.15	0.67	14	256	1	3.95	8
262171	< 5		< 0.3	0.09	< 3	146	< 1	< 2	16.9	< 0.3	< 1	5	1	0.07	< 1	< 1	0.05	11.8	17	241	< 1	0.04	2

Results

Activation Laboratories Ltd.

Report: A16-07199

Analyte Symbol	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Th	Ag	Cd	Cu	Mn	Mo	Ni	Pb
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5	20	0.2	0.5	1	5	1	1	2
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
262137	0.033	< 3	< 5	0.03	4	312	< 2	0.18	< 5	< 10	32	< 5	4	17	43	< 20	< 0.2	< 0.5	6	172	< 1	6	< 2
262138	0.036	< 3	< 5	0.02	5	257	< 2	0.19	< 5	< 10	33	< 5	4	26	43	< 20	< 0.2	< 0.5	3	198	< 1	5	< 2
262139	0.035	< 3	< 5	0.11	5	279	< 2	0.19	< 5	< 10	33	< 5	4	22	46	< 20	< 0.2	< 0.5	16	225	< 1	5	< 2
262140	0.035	< 3	< 5	0.19	5	301	< 2	0.17	< 5	< 10	31	< 5	4	21	42	< 20	< 0.2	< 0.5	19	230	< 1	5	< 2
262141	0.054	10	< 5	0.06	21	302	< 2	0.22	< 5	< 10	91	< 5	21	59	26	< 20	< 0.2	< 0.5	43	527	3	19	8
262142	0.035	< 3	< 5	0.17	5	291	< 2	0.19	< 5	< 10	34	5	4	25	44	< 20	< 0.2	< 0.5	9	212	< 1	4	< 2
262143	0.034	< 3	< 5	0.23	5	302	< 2	0.18	< 5	< 10	32	< 5	4	34	41	< 20	< 0.2	< 0.5	18	227	< 1	5	< 2
262144	0.034	< 3	< 5	0.05	5	285	< 2	0.17	< 5	< 10	31	< 5	4	33	41	< 20	< 0.2	< 0.5	4	206	< 1	5	< 2
262145	0.035	< 3	< 5	0.06	5	283	< 2	0.19	< 5	< 10	34	< 5	4	32	44	< 20	< 0.2	< 0.5	4	304	< 1	5	< 2
262146	0.037	< 3	< 5	0.16	5	303	3	0.19	< 5	< 10	34	< 5	4	38	49	< 20	< 0.2	< 0.5	9	380	< 1	8	< 2
262147	0.031	< 3	< 5	0.06	6	266	< 2	0.17	< 5	< 10	32	< 5	7	32	51	< 20	< 0.2	< 0.5	4	316	< 1	4	< 2
262148	0.038	< 3	< 5	0.06	6	277	5	0.18	< 5	< 10	34	< 5	12	30	52	< 20	< 0.2	< 0.5	5	348	< 1	5	< 2
262149	0.026	< 3	< 5	0.02	5	248	3	0.17	< 5	< 10	32	< 5	6	30	39	< 20	< 0.2	< 0.5	4	366	< 1	5	< 2
262150	0.028	< 3	< 5	0.02	5	275	< 2	0.13	< 5	< 10	21	< 5	4	38	41	< 20	< 0.2	< 0.5	7	338	< 1	5	< 2
262151	< 0.001	< 3	< 5	< 0.01	< 4	24	< 2	< 0.01	< 5	< 10	< 2	< 5	4	24	28	< 20	< 0.2	< 0.5	< 1	86	< 1	< 1	< 2
262152	0.032	< 3	< 5	0.02	5	291	< 2	0.12	< 5	< 10	22	< 5	4	37	39	< 20	< 0.2	< 0.5	14	352	< 1	6	< 2
262153	0.036	< 3	< 5	< 0.01	5	272	< 2	0.19	< 5	< 10	33	< 5	5	40	54	< 20	< 0.2	< 0.5	6	282	< 1	5	< 2
262154	0.033	< 3	< 5	< 0.01	5	273	2	0.18	< 5	< 10	32	< 5	4	39	49	< 20	< 0.2	< 0.5	8	275	< 1	5	< 2
262155	0.034	< 3	< 5	< 0.01	5	302	< 2	0.18	< 5	< 10	33	< 5	4	40	48	< 20	< 0.2	< 0.5	12	263	< 1	6	< 2
262156	0.032	< 3	< 5	< 0.01	5	315	3	0.19	< 5	< 10	33	< 5	4	46	47	< 20	< 0.2	< 0.5	13	262	< 1	5	< 2
262157	0.031	< 3	< 5	< 0.01	5	282	< 2	0.18	< 5	< 10	33	< 5	4	51	50	< 20	< 0.2	< 0.5	8	265	< 1	5	< 2
262158	0.028	< 3	< 5	< 0.01	4	263	< 2	0.16	< 5	< 10	28	< 5	3	44	45	< 20	< 0.2	< 0.5	7	250	< 1	5	< 2
262159	0.030	< 3	< 5	< 0.01	5	243	6	0.18	< 5	< 10	30	< 5	4	42	51	< 20	< 0.2	< 0.5	7	264	< 1	5	< 2
262160	0.034	< 3	< 5	< 0.01	5	264	< 2	0.19	< 5	< 10	33	< 5	3	125	56	< 20	< 0.2	< 0.5	11	300	< 1	6	< 2
262161	0.049	205	8	4.49	13	203	< 2	0.19	< 5	< 10	80	12	13	2410	47	< 20	6.8	12.0	1230	561	71	50	181
262162	0.030	< 3	< 5	0.02	5	283	3	0.12	< 5	< 10	20	6	4	293	45	< 20	< 0.2	< 0.5	31	306	< 1	4	< 2
262163	0.036	< 3	< 5	< 0.01	5	282	3	0.16	< 5	< 10	27	< 5	4	44	52	< 20	< 0.2	< 0.5	2	231	< 1	5	< 2
262164	0.035	< 3	< 5	< 0.01	5	260	< 2	0.19	< 5	< 10	33	< 5	4	52	67	< 20	< 0.2	< 0.5	5	211	< 1	5	< 2
262165	0.032	< 3	< 5	< 0.01	5	234	< 2	0.19	< 5	< 10	33	< 5	4	53	65	< 20	< 0.2	< 0.5	3	229	< 1	6	< 2
262166	0.034	< 3	< 5	< 0.01	5	230	3	0.20	< 5	< 10	36	< 5	4	54	71	< 20	< 0.2	< 0.5	4	232	< 1	6	< 2
262167	0.034	< 3	< 5	< 0.01	4	174	3	0.18	< 5	< 10	33	< 5	5	47	68	< 20	< 0.2	< 0.5	7	245	< 1	6	< 2
262168	0.032	< 3	< 5	< 0.01	6	192	< 2	0.14	< 5	< 10	29	< 5	6	34	61	< 20	< 0.2	< 0.5	32	371	< 1	10	< 2
262169	0.028	< 3	< 5	< 0.01	4	266	2	0.16	< 5	< 10	27	< 5	3	31	65	< 20	< 0.2	< 0.5	20	246	< 1	6	< 2
262170	0.028	< 3	< 5	< 0.01	4	294	< 2	0.19	< 5	< 10	34	< 5	3	23	67	< 20	< 0.2	< 0.5	12	237	< 1	6	< 2
262171	0.003	< 3	< 5	0.01	< 4	114	< 2	< 0.01	< 5	< 10	2	< 5	1	6	< 5	< 20	< 0.2	< 0.5	< 1	178	< 1	1	< 2

Results

Activation Laboratories Ltd.

Report: A16-07199

Analyte Symbol	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%
Lower Limit	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
262137	18	1.11	< 2	< 10	122	< 0.5	< 2	0.64	6	20	1.77	< 10	< 1	0.49	< 10	0.53	0.168	0.028	0.02	< 2	2	28	0.12
262138	19	1.36	< 2	< 10	168	< 0.5	< 2	0.62	5	23	1.81	< 10	< 1	0.64	10	0.62	0.194	0.030	0.01	< 2	3	23	0.14
262139	23	1.49	< 2	< 10	192	< 0.5	< 2	0.42	8	23	2.02	< 10	< 1	0.73	11	0.73	0.211	0.030	0.10	< 2	3	20	0.14
262140	25	1.42	< 2	< 10	149	< 0.5	< 2	0.55	7	19	2.01	< 10	< 1	0.69	10	0.65	0.210	0.029	0.17	< 2	3	23	0.14
262141	45	2.38	159	< 10	103	< 0.5	< 2	1.67	9	30	3.82	< 10	< 1	0.14	< 10	0.78	0.241	0.046	0.05	2	7	80	0.16
262142	23	1.30	< 2	< 10	152	< 0.5	< 2	0.50	5	20	1.84	< 10	< 1	0.62	< 10	0.56	0.215	0.027	0.15	< 2	3	22	0.13
262143	34	1.22	< 2	< 10	125	< 0.5	< 2	0.60	6	19	1.71	< 10	< 1	0.61	< 10	0.53	0.185	0.028	0.19	< 2	2	22	0.13
262144	34	1.26	< 2	< 10	121	< 0.5	< 2	0.58	6	18	1.65	< 10	< 1	0.67	< 10	0.53	0.183	0.028	0.04	< 2	2	20	0.13
262145	30	1.26	< 2	< 10	111	< 0.5	< 2	0.97	5	16	1.65	< 10	< 1	0.67	< 10	0.52	0.171	0.028	0.04	< 2	2	21	0.14
262146	40	1.29	< 2	< 10	110	< 0.5	< 2	1.33	8	20	1.85	< 10	< 1	0.69	11	0.55	0.181	0.030	0.14	< 2	2	26	0.14
262147	33	1.19	< 2	< 10	100	< 0.5	< 2	1.13	5	17	1.73	< 10	< 1	0.61	< 10	0.54	0.173	0.027	0.05	< 2	3	30	0.11
262148	31	1.18	< 2	< 10	105	< 0.5	< 2	1.57	6	20	1.71	< 10	< 1	0.59	13	0.52	0.161	0.030	0.05	< 2	3	32	0.11
262149	32	1.28	< 2	< 10	131	< 0.5	< 2	1.17	6	17	1.70	< 10	< 1	0.67	< 10	0.55	0.172	0.027	0.02	< 2	3	30	0.13
262150	36	1.42	< 2	< 10	138	< 0.5	< 2	0.64	6	20	1.87	< 10	< 1	0.74	< 10	0.63	0.201	0.028	0.02	< 2	3	27	0.14
262151	15	4.42	< 2	< 10	< 10	< 0.5	< 2	0.20	< 1	< 1	0.39	< 10	< 1	1.28	< 10	0.02	2.92	< 0.001	< 0.01	< 2	< 1	6	< 0.01
262152	41	1.39	< 2	< 10	121	< 0.5	< 2	0.67	6	18	1.81	< 10	< 1	0.75	< 10	0.67	0.190	0.029	0.02	< 2	3	26	0.14
262153	40	1.23	< 2	< 10	104	< 0.5	< 2	0.69	6	18	1.63	< 10	< 1	0.62	< 10	0.52	0.177	0.029	< 0.01	< 2	2	29	0.13
262154	41	1.25	< 2	< 10	96	< 0.5	< 2	0.66	6	18	1.61	< 10	< 1	0.65	< 10	0.52	0.168	0.028	< 0.01	< 2	2	27	0.13
262155	40	1.19	3	< 10	93	< 0.5	< 2	0.79	6	19	1.52	< 10	< 1	0.59	< 10	0.48	0.168	0.028	< 0.01	< 2	2	35	0.13
262156	50	1.24	< 2	< 10	102	< 0.5	< 2	0.76	6	20	1.59	< 10	< 1	0.58	< 10	0.51	0.164	0.030	< 0.01	< 2	2	38	0.14
262157	53	1.18	< 2	< 10	105	< 0.5	< 2	0.66	6	20	1.76	< 10	< 1	0.55	< 10	0.56	0.171	0.028	< 0.01	< 2	3	30	0.12
262158	51	1.19	< 2	< 10	97	< 0.5	< 2	0.63	6	23	1.57	< 10	< 1	0.56	< 10	0.53	0.179	0.028	< 0.01	< 2	2	31	0.13
262159	45	1.33	< 2	< 10	91	< 0.5	< 2	0.60	5	20	1.58	< 10	< 1	0.68	< 10	0.63	0.173	0.031	< 0.01	< 2	2	29	0.15
262160	128	1.31	< 2	< 10	86	< 0.5	< 2	0.62	6	19	1.60	< 10	< 1	0.68	< 10	0.59	0.183	0.031	< 0.01	< 2	2	27	0.15
262161	2330	1.59	76	< 10	19	< 0.5	< 2	1.09	9	25	6.76	< 10	< 1	0.21	12	1.70	0.071	0.038	3.97	11	4	61	0.05
262162	284	1.18	< 2	< 10	120	< 0.5	< 2	0.53	5	18	1.35	< 10	< 1	0.62	< 10	0.62	0.161	0.029	0.02	< 2	2	23	0.14
262163	43	1.10	< 2	< 10	78	< 0.5	< 2	0.86	5	19	1.41	< 10	< 1	0.54	< 10	0.50	0.151	0.030	< 0.01	< 2	2	28	0.14
262164	53	1.11	< 2	< 10	77	< 0.5	< 2	0.79	5	21	1.38	< 10	< 1	0.55	< 10	0.46	0.154	0.031	< 0.01	< 2	2	28	0.14
262165	54	1.28	< 2	< 10	81	< 0.5	< 2	0.76	6	18	1.59	< 10	< 1	0.65	< 10	0.56	0.165	0.032	< 0.01	< 2	2	26	0.15
262166	57	1.35	< 2	< 10	82	< 0.5	< 2	0.64	7	20	1.80	< 10	< 1	0.74	< 10	0.59	0.165	0.033	< 0.01	< 2	2	26	0.15
262167	49	1.34	< 2	< 10	97	< 0.5	< 2	0.59	6	18	1.69	< 10	< 1	0.71	< 10	0.58	0.187	0.032	< 0.01	< 2	2	21	0.14
262168	35	1.48	< 2	< 10	186	< 0.5	< 2	0.56	6	34	1.95	< 10	< 1	0.71	11	0.93	0.251	0.035	< 0.01	< 2	5	17	0.17
262169	32	1.34	< 2	< 10	218	< 0.5	< 2	0.34	5	15	1.58	< 10	< 1	0.72	< 10	0.76	0.236	0.027	< 0.01	< 2	3	21	0.14
262170	25	1.35	< 2	< 10	156	< 0.5	< 2	0.57	5	14	1.50	< 10	< 1	0.71	< 10	0.68	0.210	0.027	< 0.01	< 2	2	25	0.15
262171	4	0.05	< 2	19	124	< 0.5	< 2	12.9	< 1	< 1	0.05	< 10	< 1	0.04	< 10	8.53	0.024	0.002	< 0.01	< 2	< 1	94	< 0.01

Analyte Symbol	Te	Tl	U	V	W	Y	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
262137	< 1	< 2	< 10	27	< 10	3	8
262138	1	< 2	< 10	30	< 10	3	8
262139	< 1	< 2	< 10	32	< 10	3	8
262140	2	< 2	< 10	30	< 10	3	9
262141	2	< 2	< 10	97	< 10	9	4
262142	< 1	< 2	< 10	30	< 10	3	7
262143	1	< 2	< 10	27	< 10	2	7
262144	< 1	< 2	< 10	27	< 10	2	8
262145	< 1	< 2	< 10	26	< 10	2	6
262146	2	< 2	< 10	27	< 10	3	7
262147	< 1	< 2	< 10	27	< 10	5	8
262148	2	< 2	< 10	26	< 10	7	6
262149	2	< 2	< 10	25	< 10	4	7
262150	< 1	< 2	< 10	28	< 10	3	7
262151	< 1	< 2	< 10	< 1	< 10	3	< 1
262152	1	< 2	< 10	28	< 10	3	8
262153	4	< 2	< 10	25	< 10	3	7
262154	< 1	< 2	< 10	24	< 10	2	7
262155	1	< 2	< 10	24	< 10	3	7
262156	2	< 2	< 10	25	< 10	2	7
262157	1	< 2	< 10	27	< 10	3	7
262158	1	< 2	< 10	26	< 10	2	7
262159	1	< 2	< 10	27	< 10	2	8
262160	1	< 2	< 10	28	< 10	2	9
262161	3	< 2	< 10	52	12	5	8
262162	< 1	< 2	< 10	24	< 10	2	9
262163	< 1	< 2	< 10	24	< 10	2	8
262164	3	< 2	< 10	23	< 10	2	7
262165	2	< 2	< 10	25	< 10	2	9
262166	< 1	< 2	< 10	28	< 10	3	11
262167	< 1	< 2	< 10	27	< 10	4	13
262168	4	< 2	< 10	42	< 10	4	18
262169	< 1	< 2	< 10	33	< 10	2	16
262170	2	< 2	< 10	30	< 10	2	13
262171	< 1	< 2	< 10	< 1	< 10	< 1	< 1

Analyte Symbol	Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni
Unit Symbol	ppb	g/tonne	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm
Lower Limit	5	0.02	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1
Method Code	FA-AA	FA-GRA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas			31.7	1.94	391	693	1	1390	0.91	2.5	9	12	1210	24.2	13	6	0.06	0.22	8	912	14	0.05	48
GXR-1 Cert			31.0	3.52	427	750	1.22	1380	0.960	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520	41.0
GXR-1 Meas			31.8	2.07	390	679	1	1370	0.89	2.8	8	15	1220	24.0	14	8	0.04	0.22	8	886	16	0.05	47
GXR-1 Cert			31.0	3.52	427	750	1.22	1380	0.960	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520	41.0
GXR-1 Meas			33.3	2.12	415	711	1	1430	0.93	3.0	8	15	1280	25.2	14	5	0.05	0.22	9	927	17	0.05	50
GXR-1 Cert			31.0	3.52	427	750	1.22	1380	0.960	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520	41.0
DH-1a Meas																							
DH-1a Cert																							
GXR-4 Meas			3.3	6.83	94	265	2	13	1.06	0.4	15	39	6420	3.03	18	1	3.58	1.69	13	156	279	0.55	41
GXR-4 Cert			4.0	7.20	98.0	1640	1.90	19.0	1.01	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564	42.0
GXR-4 Meas			3.2	6.62	100	106	2	28	1.07	0.4	15	47	6410	3.00	19	< 1	2.08	1.70	13	163	320	0.54	44
GXR-4 Cert			4.0	7.20	98.0	1640	1.90	19.0	1.01	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564	42.0
GXR-4 Meas			3.3	6.92	100	98	2	14	1.09	0.3	15	48	6640	3.06	19	< 1	2.93	1.73	13	172	325	0.55	44
GXR-4 Cert			4.0	7.20	98.0	1640	1.90	19.0	1.01	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564	42.0
SDC-1 Meas				7.38	4	630	3		1.08		19	44	29	4.69	20	< 1	2.26	0.99	33	861		1.53	38
SDC-1 Cert				8.34	0.220	630	3.00		1.00		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34.00	880.00		1.52	38.0
SDC-1 Meas				7.20	8	630	3		1.09		19	46	35	4.66	21	< 1	1.98	0.98	33	865		1.49	37
SDC-1 Cert				8.34	0.220	630	3.00		1.00		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34.00	880.00		1.52	38.0
GXR-6 Meas			0.5	11.3	295	> 1000	1	< 2	0.19	0.3	15	64	69	5.56	27	< 1	2.11	0.61	32	1100	2	0.10	28
GXR-6 Cert			1.30	17.7	330	1300	1.40	0.290	0.180	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104	27.0
GXR-6 Meas			0.4	11.7	241	> 1000	1	< 2	0.20	< 0.3	15	47	73	5.65	28	< 1	1.88	0.62	33	1060	1	0.11	29
GXR-6 Cert			1.30	17.7	330	1300	1.40	0.290	0.180	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104	27.0
GXR-6 Meas			0.4	11.8	266	> 1000	1	< 2	0.19	< 0.3	16	63	73	5.83	29	1	2.15	0.62	33	1120	1	0.10	29
GXR-6 Cert			1.30	17.7	330	1300	1.40	0.290	0.180	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104	27.0
DNC-1a Meas						96					56	214	97		13				4				252
DNC-1a Cert						118					57.0	270	100.00		15				5.20				247
DNC-1a Meas						94					56	253	101		13				4				256
DNC-1a Cert						118					57.0	270	100.00		15				5.20				247
DNC-1a Meas						95					56	137	101		13				4				256
DNC-1a Cert						118					57.0	270	100.00		15				5.20				247
OxP 91 Meas		14.8																					
OxP 91 Cert		14.82																					
SBC-1 Meas					27	855	3	< 2		0.3	22	93	32		25				156		2		86
SBC-1 Cert					25.7	788.0	3.20	0.70		0.40	22.7	109	31.0000		27.0				163.0		2.40		82.8
SBC-1 Meas					23	650	3	3		0.5	24	74	39		26				160		3		92
SBC-1 Cert					25.7	788.0	3.20	0.70		0.40	22.7	109	31.0000		27.0				163.0		2.40		82.8
SBC-1 Meas					22	723	3	< 2		0.6	24	90	35		26				159		2		91
SBC-1 Cert					25.7	788.0	3.20	0.70		0.40	22.7	109	31.0000		27.0				163.0		2.40		82.8
OREAS 45d (4-Acid) Meas				7.30	11	184	< 1	< 2	0.20		34	483	394	14.1	22		0.44	0.24	21	508	1	0.10	253
OREAS 45d (4-Acid) Cert				8.150	13.80	183.0	0.79	0.31	0.185		29.50	549.0	371.0	14.520	21.20		0.412	0.245	21.50	490.000	2.500	0.101	231.0
OxK110 Meas		3.59																					
OxK110 Cert		3.602																					
SdAR-M2 (U.S.G.S.) Meas						939	8	< 2		5.0	15	41	241		17	< 1			17		10		53
SdAR-M2 (U.S.G.S.) Cert						990	6.6	1.05		5.1	12.4	49.6	236.0000		17.6	1.44			17.9		13.3		48.8
SdAR-M2 (U.S.G.S.)						937	8	< 2		5.2	15	43	255		17	1			17		14		58

Analyte Symbol	Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni
Unit Symbol	ppb	g/tonne	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm
Lower Limit	5	0.02	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1
Method Code	FA-AA	FA-GRA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Meas																							
SdAR-M2 (U.S.G.S.) Cert						990	6.6	1.05		5.1	12.4	49.6	236.0000		17.6	1.44			17.9		13.3		48.8
SdAR-M2 (U.S.G.S.) Meas						966	8	< 2		5.4	15	42	261		17	< 1			18		12		61
SdAR-M2 (U.S.G.S.) Cert						990	6.6	1.05		5.1	12.4	49.6	236.0000		17.6	1.44			17.9		13.3		48.8
OxD128 Meas	425																						
OxD128 Cert	424.000																						
262146 Orig	< 5																						
262146 Dup	< 5																						
262149 Orig			< 0.3	6.52	< 3	335	< 1	< 2	2.86	< 0.3	7	22	5	1.85	18	< 1	1.55	0.58	11	390	< 1	3.35	9
262149 Dup			< 0.3	6.10	< 3	317	< 1	< 2	2.85	< 0.3	6	88	5	1.82	18	< 1	1.40	0.56	11	389	< 1	3.39	8
262150 Orig																							
262150 Dup																							
262156 Orig	< 5																						
262156 Dup	< 5																						
262164 Orig			< 0.3	7.67	< 3	290	< 1	< 2	2.46	< 0.3	6	30	6	1.61	18	< 1	1.18	0.51	11	245	< 1	3.66	8
262164 Dup			< 0.3	6.80	< 3	284	< 1	< 2	2.41	< 0.3	6	29	5	1.61	19	1	1.13	0.47	11	252	1	3.78	8
262165 Orig																							
262165 Dup																							
262166 Orig	< 5																						
262166 Dup	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank		< 0.02																					
Method Blank			< 0.3	0.02	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1
Method Blank			< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		2	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1
Method Blank			< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1
Method Blank			< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1
Method Blank			< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1
Method Blank			< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1
Method Blank			< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1
Method Blank			< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1	2	< 1	< 0.01	< 1
Method Blank			< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		2	< 1	< 0.01

Analyte Symbol	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Th	Ag	Cd	Cu	Mn	Mo	Ni	Pb
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5	20	0.2	0.5	1	5	1	1	2
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	0.061	752	19	0.25	< 4	297	16	0.03	< 5	40	90	153	33	755	22	< 20	28.9	2.3	1130	748	13	31	597
GXR-1 Cert	0.0650	730	122	0.257	1.58	275	13.0	0.036	0.390	34.9	80.0	164	32.0	760	38.0	2.44	31.0	3.30	1110	852	18.0	41.0	730
GXR-1 Meas	0.063	731	68	0.25	< 4	293	12	0.03	< 5	40	88	168	33	739	23	< 20	29.8	2.0	1150	840	13	35	616
GXR-1 Cert	0.0650	730	122	0.257	1.58	275	13.0	0.036	0.390	34.9	80.0	164	32.0	760	38.0	2.44	31.0	3.30	1110	852	18.0	41.0	730
GXR-1 Meas	0.069	761	33	0.27	< 4	308	9	0.03	< 5	40	93	161	34	759	24								
GXR-1 Cert	0.0650	730	122	0.257	1.58	275	13.0	0.036	0.390	34.9	80.0	164	32.0	760	38.0								
DH-1a Meas										2420													
DH-1a Cert										2629													
GXR-4 Meas	0.127	53	< 5	1.76	8	210	4	0.29	< 5	< 10	86	41	16	75	47	< 20	3.6	< 0.5	6360	134	275	39	39
GXR-4 Cert	0.120	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20	6.20	87.0	30.8	14.0	73.0	186	22.5	4.0	0.860	6520	155	310	42.0	52.0
GXR-4 Meas	0.126	48	< 5	1.77	8	209	4	0.29	< 5	< 10	86	38	15	73	47	< 20	3.4	< 0.5	6100	133	264	37	40
GXR-4 Cert	0.120	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20	6.20	87.0	30.8	14.0	73.0	186	22.5	4.0	0.860	6520	155	310	42.0	52.0
GXR-4 Meas	0.141	44	< 5	1.84	8	212	2	0.30	< 5	< 10	88	39	16	73	48								
GXR-4 Cert	0.120	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20	6.20	87.0	30.8	14.0	73.0	186								
SDC-1 Meas	0.054	23	< 5		17	170		0.30	< 5	< 10	64	< 5		95	32								
SDC-1 Cert	0.0690	25.00	0.54		17.00	180.00		0.606	0.70	3.10	102.00	0.80		103.00	290.00								
SDC-1 Meas	0.053	21	< 5		16	170		0.30	< 5	< 10	64	< 5		94	38								
SDC-1 Cert	0.0690	25.00	0.54		17.00	180.00		0.606	0.70	3.10	102.00	0.80		103.00	290.00								
GXR-6 Meas	0.038	89	< 5	0.02	30	39	3		< 5	< 10	193	< 5	15	123	96	< 20	0.3	< 0.5	62	949	< 1	21	83
GXR-6 Cert	0.0350	101	3.60	0.0160	27.6	35.0	0.0180		2.20	1.54	186	1.90	14.0	118	110	5.30	1.30	1.00	66.0	1010	2.40	27.0	101
GXR-6 Meas	0.035	92	< 5	0.02	30	40	< 2		< 5	< 10	151	< 5	15	124	86	< 20	0.3	< 0.5	67	1010	1	22	88
GXR-6 Cert	0.0350	101	3.60	0.0160	27.6	35.0	0.0180		2.20	1.54	186	1.90	14.0	118	110	5.30	1.30	1.00	66.0	1010	2.40	27.0	101
GXR-6 Meas	0.040	97	< 5	0.02	32	41	< 2		< 5	< 10	158	< 5	15	131	90								
GXR-6 Cert	0.0350	101	3.60	0.0160	27.6	35.0	0.0180		2.20	1.54	186	1.90	14.0	118	110								
DNC-1a Meas		4	< 5		31	126		0.28			138		17	54	31								
DNC-1a Cert		6.3	0.96		31	144.0		0.29			148.0000		18.0	70.0	38.0								
DNC-1a Meas		4	< 5		31	129		0.30			140		17	54	36								
DNC-1a Cert		6.3	0.96		31	144.0		0.29			148.0000		18.0	70.0	38.0								
DNC-1a Meas		5	< 5		32	130		0.30			142		17	54	36								
DNC-1a Cert		6.3	0.96		31	144.0		0.29			148.0000		18.0	70.0	38.0								
OxP 91 Meas																							
OxP 91 Cert																							
SBC-1 Meas		25	< 5		31	194		0.51	< 5	< 10	205	< 5	53	167	108								
SBC-1 Cert		35.0	1.01		20.0	178.0		0.51	0.89	5.76	220.0	1.60	36.5	186.0	134.0								
SBC-1 Meas		29	< 5		22	178		0.52	< 5	< 10	217	< 5	37	177	119								
SBC-1 Cert		35.0	1.01		20.0	178.0		0.51	0.89	5.76	220.0	1.60	36.5	186.0	134.0								
SBC-1 Meas		27	< 5		22	178		0.53	< 5	< 10	218	< 5	38	182	122								
SBC-1 Cert		35.0	1.01		20.0	178.0		0.51	0.89	5.76	220.0	1.60	36.5	186.0	134.0								
OREAS 45d (4-Acid) Meas	0.035	20	< 5	0.04	57	32		0.30	< 5	< 10	141	< 5	13	45	83								
OREAS 45d (4-Acid) Cert	0.042	21.8	0.82	0.049	49.30	31.30		0.773	0.27	2.63	235.0	1.62	9.53	45.7	141								
OxK110 Meas																							
OxK110 Cert																							
SdAR-M2 (U.S.G.S.) Meas		797			4	142				< 10	27	6	30	768	110	< 20		5.4	247		12	49	819
SdAR-M2 (U.S.G.S.)		808			4.1	144				2.53	25.2	2.8	32.7	760	259	14.2		5.1			13.3	48.8	808

Analyte Symbol	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Th	Ag	Cd	Cu	Mn	Mo	Ni	Pb
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	5	5	20	0.2	0.5	1	5	1	1	2
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Cert																			236.0000				
SdAR-M2 (U.S.G.S.) Meas		816			4	146				< 10	27	10	31	784	65	< 20		5.3	248		12	48	803
SdAR-M2 (U.S.G.S.) Cert		808			4.1	144				2.53	25.2	2.8	32.7	760	259	14.2		5.1			13.3	48.8	808
SdAR-M2 (U.S.G.S.) Meas		831			4	147				< 10	26	8	30	799	118								
SdAR-M2 (U.S.G.S.) Cert		808			4.1	144				2.53	25.2	2.8	32.7	760	259								
OxD128 Meas																							
OxD128 Cert																							
262146 Orig																							
262146 Dup																							
262149 Orig	0.027	< 3	< 5	0.02	5	255	2	0.17	< 5	< 10	32	< 5	6	30	39								
262149 Dup	0.025	< 3	< 5	0.02	4	240	4	0.17	< 5	< 10	32	< 5	5	30	39								
262150 Orig																< 20	< 0.2	< 0.5	8	344	< 1	6	< 2
262150 Dup																< 20	< 0.2	< 0.5	7	333	< 1	5	< 2
262156 Orig																							
262156 Dup																							
262164 Orig	0.037	< 3	< 5	< 0.01	6	270	< 2	0.19	< 5	< 10	33	7	4	52	72								
262164 Dup	0.033	< 3	< 5	< 0.01	5	250	< 2	0.19	< 5	< 10	34	< 5	4	52	62								
262165 Orig																< 20	< 0.2	< 0.5	3	229	< 1	5	< 2
262165 Dup																< 20	< 0.2	< 0.5	3	230	< 1	6	< 2
262166 Orig																							
262166 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 0.001	< 3	< 5	< 0.01	< 4	3	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5								
Method Blank	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5								
Method Blank	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5								
Method Blank	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5								
Method Blank	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5								
Method Blank																< 20	< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2
Method Blank																< 20	< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2
Method Blank																< 20	< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2
Method Blank	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5								
Method Blank	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5								
Method Blank	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5								

Analyte Symbol	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%
Lower Limit	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	660	0.36	387	< 10	358	0.8	1480	0.79	4	6	23.6	< 10	4	0.03	< 10	0.14	0.056	0.044	0.20	74	1	180	< 0.01
GXR-1 Cert	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036
GXR-1 Meas	683	0.37	398	< 10	183	0.8	1510	0.82	6	8	24.1	< 10	4	0.03	< 10	0.14	0.054	0.046	0.20	81	1	181	< 0.01
GXR-1 Cert	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036
GXR-1 Meas																							
GXR-1 Cert																							
DH-1a Meas																							
DH-1a Cert																							
GXR-4 Meas	70	2.73	102	< 10	30	1.3	21	0.90	13	55	3.18	10	< 1	1.61	53	1.65	0.135	0.123	1.68	3	7	68	0.13
GXR-4 Cert	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29
GXR-4 Meas	68	2.81	97	< 10	21	1.3	16	0.90	13	52	3.05	10	< 1	1.63	49	1.60	0.152	0.117	1.64	3	7	72	0.13
GXR-4 Cert	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29
GXR-4 Meas																							
GXR-4 Cert																							
SDC-1 Meas																							
SDC-1 Cert																							
SDC-1 Meas																							
SDC-1 Cert																							
GXR-6 Meas	117	7.12	200	< 10	1040	0.9	< 2	0.20	12	76	5.26	20	< 1	1.05	11	0.41	0.105	0.031	0.01	3	22	37	
GXR-6 Cert	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0	
GXR-6 Meas	123	7.42	244	< 10	845	0.9	< 2	0.16	13	81	5.60	20	< 1	1.11	12	0.42	0.088	0.034	0.01	4	23	31	
GXR-6 Cert	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0	
GXR-6 Meas																							
GXR-6 Cert																							
DNC-1a Meas																							
DNC-1a Cert																							
DNC-1a Meas																							
DNC-1a Cert																							
DNC-1a Meas																							
DNC-1a Cert																							
OxP 91 Meas																							
OxP 91 Cert																							
SBC-1 Meas																							
SBC-1 Cert																							
SBC-1 Meas																							
SBC-1 Cert																							
SBC-1 Meas																							
SBC-1 Cert																							
OREAS 45d (4-Acid) Meas																							
OREAS 45d (4-Acid) Cert																							
OxK110 Meas																							
OxK110 Cert																							
SdAR-M2 (U.S.G.S.) Meas	825				127	5.0	< 2		13	10		< 10	1		47						2	21	
SdAR-M2 (U.S.G.S.) Cert	760				990	6.6	1.05		12.4	49.6		17.6	1.44		46.6						4.1	144	
SdAR-M2 (U.S.G.S.)	818				123	5.0	< 2		13	10		< 10	1		47						2	21	

Analyte Symbol	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%
Lower Limit	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Meas																							
SdAR-M2 (U.S.G.S.) Cert	760				990	6.6	1.05		12.4	49.6		17.6	1.44		46.6						4.1	144	
SdAR-M2 (U.S.G.S.) Meas																							
SdAR-M2 (U.S.G.S.) Cert																							
OxD128 Meas																							
OxD128 Cert																							
262146 Orig																							
262146 Dup																							
262149 Orig																							
262149 Dup																							
262150 Orig	36	1.43	< 2	< 10	142	< 0.5	< 2	0.65	6	19	1.90	< 10	< 1	0.75	< 10	0.64	0.205	0.029	0.02	< 2	3	28	0.14
262150 Dup	36	1.40	< 2	< 10	135	< 0.5	< 2	0.63	6	20	1.85	< 10	< 1	0.73	< 10	0.62	0.197	0.028	0.02	< 2	3	27	0.13
262156 Orig																							
262156 Dup																							
262164 Orig																							
262164 Dup																							
262165 Orig	54	1.27	< 2	< 10	81	< 0.5	< 2	0.76	6	18	1.58	< 10	< 1	0.65	< 10	0.56	0.165	0.032	< 0.01	< 2	2	26	0.15
262165 Dup	54	1.29	< 2	< 10	81	< 0.5	< 2	0.77	6	18	1.60	< 10	< 1	0.66	< 10	0.56	0.164	0.032	< 0.01	< 2	2	26	0.15
262166 Orig																							
262166 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01
Method Blank	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01
Method Blank	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Te	Tl	U	V	W	Y	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	12	< 2	31	79	132	24	14
GXR-1 Cert	13.0	0.390	34.9	80.0	164	32.0	38.0
GXR-1 Meas	11	< 2	32	81	140	24	15
GXR-1 Cert	13.0	0.390	34.9	80.0	164	32.0	38.0
GXR-1 Meas							
GXR-1 Cert							
DH-1a Meas							
DH-1a Cert							
GXR-4 Meas	1	< 2	< 10	81	11	11	10
GXR-4 Cert	0.970	3.20	6.20	87.0	30.8	14.0	186
GXR-4 Meas	2	< 2	< 10	77	14	11	11
GXR-4 Cert	0.970	3.20	6.20	87.0	30.8	14.0	186
GXR-4 Meas							
GXR-4 Cert							
SDC-1 Meas							
SDC-1 Cert							
SDC-1 Meas							
SDC-1 Cert							
GXR-6 Meas	< 1	< 2	< 10	167	< 10	6	7
GXR-6 Cert	0.0180	2.20	1.54	186	1.90	14.0	110
GXR-6 Meas	< 1	< 2	< 10	179	< 10	6	9
GXR-6 Cert	0.0180	2.20	1.54	186	1.90	14.0	110
GXR-6 Meas							
GXR-6 Cert							
DNC-1a Meas							
DNC-1a Cert							
DNC-1a Meas							
DNC-1a Cert							
DNC-1a Meas							
DNC-1a Cert							
OxP 91 Meas							
OxP 91 Cert							
SBC-1 Meas							
SBC-1 Cert							
SBC-1 Meas							
SBC-1 Cert							
SBC-1 Meas							
SBC-1 Cert							
OREAS 45d (4-Acid) Meas							
OREAS 45d (4-Acid) Cert							
OxK110 Meas							
OxK110 Cert							
SdAR-M2 (U.S.G.S.) Meas			< 10	20	< 10	18	7
SdAR-M2 (U.S.G.S.) Cert			2.53	25.2	2.8	32.7	259
SdAR-M2 (U.S.G.S.)			< 10	20	< 10	18	7

Analyte Symbol	Te	Tl	U	V	W	Y	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Meas							
SdAR-M2 (U.S.G.S.) Cert			2.53	25.2	2.8	32.7	259
SdAR-M2 (U.S.G.S.) Meas							
SdAR-M2 (U.S.G.S.) Cert							
OxD128 Meas							
OxD128 Cert							
262146 Orig							
262146 Dup							
262149 Orig							
262149 Dup							
262150 Orig	< 1	< 2	< 10	29	< 10	3	7
262150 Dup	3	< 2	< 10	28	< 10	3	7
262156 Orig							
262156 Dup							
262164 Orig							
262164 Dup							
262165 Orig	3	< 2	< 10	25	< 10	2	9
262165 Dup	2	< 2	< 10	25	< 10	2	9
262166 Orig							
262166 Dup							
Method Blank							
Method Blank							
Method Blank							
Method Blank							
Method Blank							
Method Blank							
Method Blank							
Method Blank							
Method Blank	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank							
Method Blank							
Method Blank							



Date Submitted: 25-Jul-16
Invoice No.: A16-07197
Invoice Date: 10-Aug-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

21 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1E3 Aqua Regia ICP(AQUAGEO)

Code 1F2 Total Digestion ICP(TOTAL)

REPORT **A16-07197**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is written in a cursive style with some loops and is positioned above a horizontal line.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Date Submitted: 25-Jul-16
Invoice No.: A16-07197
Invoice Date: 10-Aug-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

21 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-50-Geraldton Au - Fire Assay AA

REPORT **A16-07197**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.



CERTIFIED BY:

A handwritten signature in black ink, appearing to read "Emmanuel Esemé".

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
801 Main Street, P.O. Box 999, Geraldton, Ontario, Canada, P0T 1M0
TELEPHONE +807 854-2020 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Geraldton@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P
Unit Symbol	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%
Lower Limit	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001
Method Code	FA-AA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262331	< 5	< 0.3	0.12	3	422	< 1	< 2	16.7	< 0.3	< 1	6	2	0.07	< 1	< 1	0.11	11.3	10	289	< 1	0.04	2	0.004
262332	< 5	< 0.3	6.94	< 3	159	< 1	< 2	4.79	< 0.3	24	40	102	5.52	17	< 1	0.64	1.83	16	881	< 1	2.46	41	0.075
262333	6	< 0.3	7.21	< 3	176	< 1	< 2	4.97	< 0.3	26	42	76	5.73	16	< 1	0.72	2.01	21	910	< 1	2.47	48	0.069
262334	7	< 0.3	7.28	< 3	199	< 1	< 2	4.95	< 0.3	27	36	116	5.72	17	< 1	0.82	2.12	19	910	< 1	2.57	56	0.067
262335	< 5	< 0.3	7.33	< 3	143	< 1	< 2	4.89	0.3	26	28	91	5.78	17	< 1	0.61	2.16	18	917	< 1	2.74	52	0.070
262336	5	< 0.3	7.61	5	219	< 1	< 2	4.73	< 0.3	28	40	65	6.14	17	< 1	0.82	2.25	23	952	< 1	2.83	53	0.071
262337	< 5	< 0.3	7.72	5	258	< 1	2	5.06	< 0.3	29	45	91	6.09	17	1	0.89	2.38	24	894	< 1	2.80	64	0.073
262338	< 5	< 0.3	7.21	5	206	< 1	< 2	2.82	< 0.3	7	28	11	2.11	19	< 1	0.67	0.70	20	303	< 1	4.19	11	0.036
262339	< 5	< 0.3	7.35	< 3	265	< 1	2	4.68	< 0.3	27	31	83	5.86	17	2	0.77	2.19	18	857	< 1	2.74	52	0.073
262340	< 5	< 0.3	6.40	8	250	< 1	< 2	4.54	< 0.3	27	53	65	5.52	17	2	0.90	2.15	22	878	< 1	2.58	54	0.070
262341	403	< 0.3	6.94	141	460	< 1	< 2	3.82	< 0.3	14	44	45	4.66	14	< 1	0.80	1.35	7	911	4	2.47	26	0.054
262342	< 5	< 0.3	7.16	5	262	< 1	< 2	4.45	< 0.3	27	46	69	5.64	15	2	0.92	2.32	23	822	< 1	2.61	62	0.067
262343	5	< 0.3	6.97	3	387	< 1	< 2	4.97	< 0.3	26	41	75	5.52	16	< 1	0.71	2.09	17	876	< 1	2.60	59	0.082
262344	6	< 0.3	7.06	< 3	227	< 1	< 2	4.43	< 0.3	24	30	66	5.01	16	< 1	0.72	1.93	17	788	< 1	2.90	49	0.061
262345	7	< 0.3	8.10	4	233	< 1	< 2	5.15	< 0.3	26	34	62	5.88	18	< 1	0.72	2.29	20	1010	< 1	3.33	52	0.074
262346	6	< 0.3	7.22	4	208	< 1	< 2	4.83	< 0.3	26	26	63	5.77	17	2	0.66	1.89	17	842	< 1	2.67	41	0.075
262347	6	< 0.3	7.67	5	334	< 1	2	4.63	< 0.3	26	27	51	6.19	18	2	1.49	2.07	25	893	< 1	2.81	40	0.080
262348	5	< 0.3	7.76	< 3	275	< 1	< 2	5.12	< 0.3	27	69	78	6.00	18	2	0.96	2.22	17	953	< 1	3.30	57	0.076
262349	6	< 0.3	7.53	< 3	380	< 1	< 2	1.92	< 0.3	4	20	10	1.32	20	< 1	1.29	0.38	10	199	1	4.43	7	0.025
262350	7	< 0.3	6.85	< 3	397	< 1	< 2	1.79	< 0.3	4	37	10	1.20	19	< 1	1.35	0.32	10	187	< 1	4.28	6	0.022
262351	5	< 0.3	0.10	< 3	69	< 1	< 2	16.0	< 0.3	< 1	4	< 1	0.10	< 1	< 1	0.05	11.6	17	325	< 1	0.06	1	0.004

Analyte Symbol	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Th	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn
Unit Symbol	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5	20	0.2	0.5	1	5	1	1	2	2
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
262331	< 3	< 5	0.04	< 4	237	< 2	< 0.01	< 5	< 10	3	< 5	1	11	< 5	< 20	< 0.2	< 0.5	< 1	234	< 1	2	2	9
262332	< 3	< 5	0.39	20	151	< 2	0.45	< 5	< 10	145	< 5	19	71	64	< 20	< 0.2	< 0.5	100	558	< 1	33	< 2	56
262333	< 3	< 5	0.33	22	150	< 2	0.37	< 5	< 10	135	< 5	19	70	69	< 20	< 0.2	< 0.5	72	547	< 1	39	< 2	55
262334	< 3	< 5	0.44	22	166	< 2	0.35	< 5	< 10	120	< 5	18	71	50	< 20	< 0.2	< 0.5	104	527	< 1	43	< 2	53
262335	< 3	< 5	0.31	22	163	< 2	0.31	< 5	< 10	120	< 5	19	71	65	< 20	< 0.2	< 0.5	81	484	< 1	38	< 2	51
262336	< 3	< 5	0.15	24	161	< 2	0.38	< 5	< 10	132	< 5	20	82	83	< 20	< 0.2	< 0.5	57	497	< 1	38	< 2	61
262337	< 3	< 5	0.39	24	195	2	0.52	< 5	< 10	162	< 5	19	77	74	< 20	< 0.2	< 0.5	60	519	< 1	47	< 2	57
262338	< 3	< 5	0.05	7	261	< 2	0.23	< 5	< 10	50	< 5	7	38	82	< 20	< 0.2	< 0.5	10	247	< 1	9	< 2	38
262339	< 3	< 5	0.53	23	187	2	0.52	< 5	< 10	154	< 5	20	77	83	< 20	< 0.2	< 0.5	77	512	< 1	42	< 2	59
262340	< 3	< 5	0.12	18	172	3	0.51	< 5	< 10	152	< 5	16	72	90	< 20	< 0.2	< 0.5	62	482	< 1	40	< 2	56
262341	10	< 5	0.05	20	292	5	0.34	< 5	< 10	129	< 5	21	56	36	< 20	< 0.2	< 0.5	41	511	3	18	9	44
262342	< 3	< 5	0.32	23	154	< 2	0.37	< 5	< 10	128	< 5	19	72	78	< 20	< 0.2	< 0.5	63	472	< 1	48	< 2	58
262343	< 3	< 5	0.43	22	166	5	0.41	< 5	< 10	129	< 5	19	68	64	< 20	< 0.2	< 0.5	68	487	< 1	47	< 2	52
262344	< 3	< 5	0.44	20	172	3	0.33	< 5	< 10	98	< 5	18	65	58	< 20	< 0.2	< 0.5	59	472	< 1	38	< 2	51
262345	< 3	< 5	0.43	25	184	< 2	0.38	< 5	< 10	128	< 5	22	75	84	< 20	< 0.2	< 0.5	58	578	< 1	41	< 2	57
262346	< 3	< 5	0.25	22	227	< 2	0.43	< 5	< 10	145	< 5	20	75	74	< 20	< 0.2	< 0.5	56	489	< 1	30	< 2	58
262347	< 3	< 5	0.24	23	241	2	0.57	< 5	< 10	174	6	21	90	86	< 20	< 0.2	< 0.5	46	605	< 1	30	< 2	78
262348	< 3	< 5	0.37	24	295	< 2	0.55	< 5	< 10	165	< 5	22	84	91	< 20	< 0.2	< 0.5	66	567	< 1	44	< 2	62
262349	< 3	< 5	0.07	< 4	435	< 2	0.13	< 5	< 10	23	< 5	5	33	68	< 20	< 0.2	< 0.5	10	178	< 1	4	< 2	35
262350	< 3	< 5	0.08	< 4	378	3	0.12	< 5	< 10	22	< 5	4	31	63	< 20	< 0.2	< 0.5	10	163	< 1	4	< 2	32
262351	7	< 5	0.01	< 4	89	< 2	< 0.01	< 5	< 10	3	< 5	1	12	< 5	< 20	< 0.2	< 0.5	< 1	249	< 1	1	6	10

Results

Activation Laboratories Ltd.

Report: A16-07197

Analyte Symbol	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
262331	0.09	< 2	25	393	< 0.5	< 2	13.8	< 1	2	0.07	< 10	< 1	0.09	< 10	9.83	0.032	0.002	0.03	< 2	< 1	213	< 0.01	< 1
262332	2.08	< 2	< 10	109	< 0.5	< 2	2.03	20	28	4.46	< 10	< 1	0.49	11	1.43	0.274	0.062	0.37	< 2	11	17	0.30	4
262333	2.10	< 2	< 10	128	< 0.5	< 2	1.94	20	33	4.32	< 10	< 1	0.57	10	1.49	0.264	0.058	0.31	< 2	11	16	0.30	4
262334	2.07	< 2	< 10	133	< 0.5	< 2	1.76	21	29	4.10	< 10	< 1	0.63	< 10	1.48	0.252	0.054	0.40	< 2	11	17	0.30	< 1
262335	1.91	< 2	< 10	100	< 0.5	< 2	1.73	19	26	3.84	< 10	< 1	0.45	< 10	1.41	0.258	0.058	0.27	< 2	10	14	0.23	2
262336	2.01	< 2	< 10	161	< 0.5	< 2	1.60	20	27	4.27	< 10	< 1	0.65	10	1.56	0.252	0.059	0.13	< 2	11	14	0.24	< 1
262337	2.12	< 2	< 10	158	< 0.5	< 2	2.01	22	33	4.41	< 10	< 1	0.64	< 10	1.70	0.246	0.056	0.33	< 2	11	17	0.27	3
262338	1.24	3	< 10	147	< 0.5	< 2	0.63	6	21	2.05	< 10	< 1	0.52	< 10	0.69	0.229	0.030	0.05	< 2	5	21	0.15	3
262339	2.06	< 2	< 10	86	< 0.5	< 2	1.74	22	27	4.46	< 10	< 1	0.64	11	1.60	0.286	0.059	0.49	< 2	12	15	0.27	3
262340	2.11	< 2	< 10	192	< 0.5	< 2	1.73	18	30	4.01	< 10	< 1	0.66	11	1.60	0.281	0.059	0.11	< 2	11	16	0.22	2
262341	2.28	155	< 10	100	< 0.5	< 2	1.62	9	30	3.71	< 10	< 1	0.13	< 10	0.76	0.231	0.044	0.05	3	7	75	0.15	< 1
262342	2.14	3	< 10	195	< 0.5	< 2	1.59	21	33	4.11	< 10	< 1	0.72	10	1.65	0.262	0.055	0.29	< 2	11	12	0.26	2
262343	1.88	< 2	< 10	110	< 0.5	< 2	1.84	21	30	3.86	< 10	< 1	0.53	< 10	1.40	0.243	0.070	0.40	< 2	10	19	0.25	2
262344	1.87	< 2	< 10	151	< 0.5	< 2	1.69	18	26	3.78	< 10	< 1	0.58	< 10	1.38	0.266	0.051	0.41	< 2	10	16	0.25	4
262345	1.95	< 2	< 10	151	< 0.5	< 2	1.89	19	30	4.19	< 10	< 1	0.57	13	1.56	0.289	0.064	0.39	< 2	13	16	0.23	3
262346	2.03	< 2	< 10	159	< 0.5	< 2	1.91	19	22	4.24	< 10	< 1	0.53	11	1.39	0.297	0.064	0.22	< 2	11	24	0.24	1
262347	2.49	< 2	< 10	233	< 0.5	< 2	1.94	21	22	4.84	< 10	< 1	1.08	11	1.73	0.250	0.062	0.21	< 2	12	28	0.36	4
262348	1.92	< 2	< 10	152	< 0.5	< 2	1.98	20	35	4.14	< 10	< 1	0.66	11	1.50	0.240	0.057	0.32	< 2	11	25	0.32	1
262349	0.95	< 2	< 10	69	< 0.5	< 2	0.62	4	17	1.18	< 10	< 1	0.32	< 10	0.35	0.188	0.020	0.06	< 2	2	40	0.09	1
262350	0.85	< 2	< 10	62	< 0.5	< 2	0.61	4	19	1.07	< 10	< 1	0.27	< 10	0.31	0.174	0.018	0.07	< 2	2	39	0.08	< 1
262351	0.05	< 2	26	64	< 0.5	< 2	11.6	< 1	< 1	0.08	< 10	< 1	0.04	< 10	7.97	0.025	0.002	0.01	< 2	< 1	73	< 0.01	< 1

Results

Activation Laboratories Ltd.

Report: A16-07197

Analyte Symbol	Tl	U	V	W	Y	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
262331	< 2	< 10	< 1	< 10	< 1	< 1
262332	< 2	< 10	116	< 10	11	5
262333	< 2	< 10	113	< 10	11	5
262334	< 2	< 10	103	< 10	10	5
262335	< 2	< 10	98	< 10	9	5
262336	< 2	< 10	112	< 10	10	5
262337	< 2	< 10	106	< 10	10	4
262338	< 2	< 10	47	< 10	5	11
262339	< 2	< 10	111	< 10	11	5
262340	< 2	< 10	103	< 10	10	3
262341	< 2	< 10	92	< 10	9	4
262342	< 2	< 10	102	< 10	10	5
262343	< 2	< 10	94	< 10	11	5
262344	< 2	< 10	95	< 10	11	8
262345	< 2	< 10	107	< 10	12	6
262346	< 2	< 10	114	< 10	11	5
262347	< 2	< 10	139	< 10	13	5
262348	< 2	< 10	108	< 10	13	5
262349	< 2	< 10	17	< 10	3	9
262350	< 2	< 10	16	< 10	3	10
262351	< 2	< 10	< 1	< 10	1	< 1

Analyte Symbol	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	
Unit Symbol	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	
Lower Limit	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	
Method Code	FA-AA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	
GXR-1 Meas		31.8	2.07	390	679	1	1370	0.89	2.8	8	15	1220	24.0	14	8	0.04	0.22	8	886	16	0.05	47	0.063	
GXR-1 Cert		31.0	3.52	427	750	1.22	1380	0.960	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520	41.0	0.0650	
GXR-1 Meas		33.3	2.12	415	711	1	1430	0.93	3.0	8	15	1280	25.2	14	5	0.05	0.22	9	927	17	0.05	50	0.069	
GXR-1 Cert		31.0	3.52	427	750	1.22	1380	0.960	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520	41.0	0.0650	
GXR-4 Meas		3.2	6.62	100	106	2	28	1.07	0.4	15	47	6410	3.00	19	< 1	2.08	1.70	13	163	320	0.54	44	0.126	
GXR-4 Cert		4.0	7.20	98.0	1640	1.90	19.0	1.01	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564	42.0	0.120	
GXR-4 Meas		3.3	6.92	100	98	2	14	1.09	0.3	15	48	6640	3.06	19	< 1	2.93	1.73	13	172	325	0.55	44	0.141	
GXR-4 Cert		4.0	7.20	98.0	1640	1.90	19.0	1.01	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564	42.0	0.120	
SDC-1 Meas			7.20	8	630	3		1.09		19	46	35	4.66	21	< 1	1.98	0.98	33	865		1.49	37	0.053	
SDC-1 Cert			8.34	0.220	630	3.00		1.00		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34.00	880.00		1.52	38.0	0.0690	
GXR-6 Meas		0.4	11.7	241	> 1000	1	< 2	0.20	< 0.3	15	47	73	5.65	28	< 1	1.88	0.62	33	1060		1	0.11	29	0.035
GXR-6 Cert		1.30	17.7	330	1300	1.40	0.290	0.180	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104	27.0	0.0350	
GXR-6 Meas		0.4	11.8	266	> 1000	1	< 2	0.19	< 0.3	16	63	73	5.83	29	1	2.15	0.62	33	1120		1	0.10	29	0.040
GXR-6 Cert		1.30	17.7	330	1300	1.40	0.290	0.180	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104	27.0	0.0350	
DNC-1a Meas					94					56	253	101		13					4				256	
DNC-1a Cert					118					57.0	270	100.00		15					5.20				247	
DNC-1a Meas					95					56	137	101		13					4				256	
DNC-1a Cert					118					57.0	270	100.00		15					5.20				247	
SBC-1 Meas				23	650	3	3		0.5	24	74	39		26					160		3		92	
SBC-1 Cert				25.7	788.0	3.20	0.70		0.40	22.7	109	31.0000		27.0					163.0		2.40		82.8	
SBC-1 Meas				22	723	3	< 2		0.6	24	90	35		26					159		2		91	
SBC-1 Cert				25.7	788.0	3.20	0.70		0.40	22.7	109	31.0000		27.0					163.0		2.40		82.8	
SdAR-M2 (U.S.G.S.) Meas					937	8	< 2		5.2	15	43	255		17	1				17		14		58	
SdAR-M2 (U.S.G.S.) Cert					990	6.6	1.05		5.1	12.4	49.6	236.0000		17.6	1.44				17.9		13.3		48.8	
SdAR-M2 (U.S.G.S.) Meas					966	8	< 2		5.4	15	42	261		17	< 1				18		12		61	
SdAR-M2 (U.S.G.S.) Cert					990	6.6	1.05		5.1	12.4	49.6	236.0000		17.6	1.44				17.9		13.3		48.8	
SF85 Meas	828																							
SF85 Cert	848																							
OxD128 Meas	442																							
OxD128 Cert	424.000																							
262334 Orig		< 0.3	7.19	< 3	197	< 1	< 2	4.91	0.3	27	37	114	5.67	17	< 1	0.82	2.10	19	895	< 1	2.55	56	0.068	
262334 Dup		< 0.3	7.37	< 3	201	< 1	< 2	4.98	< 0.3	27	35	117	5.76	17	< 1	0.83	2.14	19	924	< 1	2.58	55	0.067	
262340 Orig	< 5																							
262340 Dup	5																							
262349 Orig		< 0.3	7.48	< 3	379	< 1	< 2	1.92	< 0.3	4	20	11	1.32	20	< 1	1.33	0.38	10	203	2	4.41	7	0.025	
262349 Dup		< 0.3	7.57	< 3	382	< 1	< 2	1.92	< 0.3	5	19	10	1.32	20	< 1	1.24	0.38	10	196	1	4.45	8	0.024	
262350 Orig	5																							
262350 Dup	8																							
Method Blank	< 5																							
Method Blank	< 5																							
Method Blank		< 0.3	0.02	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	
Method Blank		< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		2	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	
Method Blank		< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	
Method Blank		< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	
Method Blank		< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	

Analyte Symbol	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P
Unit Symbol	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%
Lower Limit	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001
Method Code	FA-AA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank		< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001

Analyte Symbol	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Th	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn
Unit Symbol	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5	20	0.2	0.5	1	5	1	1	2	2
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	731	68	0.25	< 4	293	12	0.03	< 5	40	88	168	33	739	23	< 20	28.9	2.3	1130	748	13	31	597	660
GXR-1 Cert	730	122	0.257	1.58	275	13.0	0.036	0.390	34.9	80.0	164	32.0	760	38.0	2.44	31.0	3.30	1110	852	18.0	41.0	730	760
GXR-1 Meas	761	33	0.27	< 4	308	9	0.03	< 5	40	93	161	34	759	24	< 20	29.8	2.0	1150	840	13	35	616	683
GXR-1 Cert	730	122	0.257	1.58	275	13.0	0.036	0.390	34.9	80.0	164	32.0	760	38.0	2.44	31.0	3.30	1110	852	18.0	41.0	730	760
GXR-4 Meas	48	< 5	1.77	8	209	4	0.29	< 5	< 10	86	38	15	73	47	< 20	3.6	< 0.5	6360	134	275	39	39	70
GXR-4 Cert	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20	6.20	87.0	30.8	14.0	73.0	186	22.5	4.0	0.860	6520	155	310	42.0	52.0	73.0
GXR-4 Meas	44	< 5	1.84	8	212	2	0.30	< 5	< 10	88	39	16	73	48	< 20	3.4	< 0.5	6100	133	264	37	40	68
GXR-4 Cert	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20	6.20	87.0	30.8	14.0	73.0	186	22.5	4.0	0.860	6520	155	310	42.0	52.0	73.0
SDC-1 Meas	21	< 5		16	170		0.30	< 5	< 10	64	< 5		94	38									
SDC-1 Cert	25.00	0.54		17.00	180.00		0.606	0.70	3.10	102.00	0.80		103.00	290.00									
GXR-6 Meas	92	< 5	0.02	30	40	< 2		< 5	< 10	151	< 5	15	124	86	< 20	0.3	< 0.5	62	949	< 1	21	83	117
GXR-6 Cert	101	3.60	0.0160	27.6	35.0	0.0180		2.20	1.54	186	1.90	14.0	118	110	5.30	1.30	1.00	66.0	1010	2.40	27.0	101	118
GXR-6 Meas	97	< 5	0.02	32	41	< 2		< 5	< 10	158	< 5	15	131	90	< 20	0.3	< 0.5	67	1010	1	22	88	123
GXR-6 Cert	101	3.60	0.0160	27.6	35.0	0.0180		2.20	1.54	186	1.90	14.0	118	110	5.30	1.30	1.00	66.0	1010	2.40	27.0	101	118
DNC-1a Meas	4	< 5		31	129		0.30			140			17	54	36								
DNC-1a Cert	6.3	0.96		31	144.0		0.29			148.0000			18.0	70.0	38.0								
DNC-1a Meas	5	< 5		32	130		0.30			142			17	54	36								
DNC-1a Cert	6.3	0.96		31	144.0		0.29			148.0000			18.0	70.0	38.0								
SBC-1 Meas	29	< 5		22	178		0.52	< 5	< 10	217	< 5	37	177	119									
SBC-1 Cert	35.0	1.01		20.0	178.0		0.51	0.89	5.76	220.0	1.60	36.5	186.0	134.0									
SBC-1 Meas	27	< 5		22	178		0.53	< 5	< 10	218	< 5	38	182	122									
SBC-1 Cert	35.0	1.01		20.0	178.0		0.51	0.89	5.76	220.0	1.60	36.5	186.0	134.0									
SdAR-M2 (U.S.G.S.) Meas	816			4	146				< 10	27	10	31	784	65	< 20		5.4	247		12	49	819	825
SdAR-M2 (U.S.G.S.) Cert	808			4.1	144				2.53	25.2	2.8	32.7	760	259	14.2		5.1	236.0000		13.3	48.8	808	760
SdAR-M2 (U.S.G.S.) Meas	831			4	147				< 10	26	8	30	799	118	< 20		5.3	248		12	48	803	818
SdAR-M2 (U.S.G.S.) Cert	808			4.1	144				2.53	25.2	2.8	32.7	760	259	14.2		5.1	236.0000		13.3	48.8	808	760
SF85 Meas																							
SF85 Cert																							
OxD128 Meas																							
OxD128 Cert																							
262334 Orig	< 3	< 5	0.44	22	164	< 2	0.40	< 5	< 10	135	< 5	18	70	56	< 20	< 0.2	< 0.5	105	534	< 1	43	< 2	53
262334 Dup	< 3	< 5	0.44	23	167	4	0.31	< 5	< 10	104	< 5	18	73	44	< 20	< 0.2	< 0.5	103	519	< 1	43	< 2	53
262340 Orig																							
262340 Dup																							
262349 Orig	< 3	< 5	0.07	< 4	433	< 2	0.13	< 5	< 10	23	< 5	5	33	67	< 20	< 0.2	< 0.5	10	176	< 1	4	< 2	34
262349 Dup	< 3	< 5	0.07	< 4	436	< 2	0.13	< 5	< 10	23	< 5	5	33	69	< 20	< 0.2	< 0.5	10	181	< 1	4	< 2	35
262350 Orig																							
262350 Dup																							
Method Blank																							
Method Blank																							
Method Blank	< 3	< 5	< 0.01	< 4	3	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5									
Method Blank	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5									
Method Blank	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5									
Method Blank	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5									

Analyte Symbol	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Th	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn
Unit Symbol	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5	20	0.2	0.5	1	5	1	1	2	2
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5									
Method Blank															< 20	< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2
Method Blank															< 20	< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2
Method Blank															< 20	< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2
Method Blank	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5									

Analyte Symbol	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	0.36	387	< 10	358	0.8	1480	0.79	4	6	23.6	< 10	4	0.03	< 10	0.14	0.056	0.044	0.20	74	1	180	< 0.01	12
GXR-1 Cert	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	13.0
GXR-1 Meas	0.37	398	< 10	183	0.8	1510	0.82	6	8	24.1	< 10	4	0.03	< 10	0.14	0.054	0.046	0.20	81	1	181	< 0.01	11
GXR-1 Cert	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	13.0
GXR-4 Meas	2.73	102	< 10	30	1.3	21	0.90	13	55	3.18	10	< 1	1.61	53	1.65	0.135	0.123	1.68	3	7	68	0.13	1
GXR-4 Cert	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	0.970
GXR-4 Meas	2.81	97	< 10	21	1.3	16	0.90	13	52	3.05	10	< 1	1.63	49	1.60	0.152	0.117	1.64	3	7	72	0.13	2
GXR-4 Cert	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	0.970
SDC-1 Meas																							
SDC-1 Cert																							
GXR-6 Meas	7.12	200	< 10	1040	0.9	< 2	0.20	12	76	5.26	20	< 1	1.05	11	0.41	0.105	0.031	0.01	3	22	37		< 1
GXR-6 Cert	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180
GXR-6 Meas	7.42	244	< 10	845	0.9	< 2	0.16	13	81	5.60	20	< 1	1.11	12	0.42	0.088	0.034	0.01	4	23	31		< 1
GXR-6 Cert	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180
DNC-1a Meas																							
DNC-1a Cert																							
DNC-1a Meas																							
DNC-1a Cert																							
SBC-1 Meas																							
SBC-1 Cert																							
SBC-1 Meas																							
SBC-1 Cert																							
SdAR-M2 (U.S.G.S.) Meas				127	5.0	< 2		13	10		< 10	1		47						2	21		
SdAR-M2 (U.S.G.S.) Cert				990	6.6	1.05		12.4	49.6		17.6	1.44		46.6						4.1	144		
SdAR-M2 (U.S.G.S.) Meas				123	5.0	< 2		13	10		< 10	1		47						2	21		
SdAR-M2 (U.S.G.S.) Cert				990	6.6	1.05		12.4	49.6		17.6	1.44		46.6						4.1	144		
SF85 Meas																							
SF85 Cert																							
OxD128 Meas																							
OxD128 Cert																							
262334 Orig	2.11	< 2	< 10	131	< 0.5	< 2	1.79	21	30	4.16	< 10	< 1	0.64	< 10	1.50	0.255	0.054	0.40	< 2	11	17	0.31	2
262334 Dup	2.02	< 2	< 10	134	< 0.5	< 2	1.73	20	29	4.04	< 10	< 1	0.63	< 10	1.46	0.250	0.054	0.40	< 2	10	16	0.29	< 1
262340 Orig																							
262340 Dup																							
262349 Orig	0.94	< 2	< 10	68	< 0.5	< 2	0.62	4	17	1.16	< 10	< 1	0.31	< 10	0.34	0.185	0.020	0.06	< 2	2	40	0.09	1
262349 Dup	0.96	< 2	< 10	70	< 0.5	< 2	0.63	4	18	1.20	< 10	< 1	0.32	< 10	0.35	0.191	0.020	0.06	< 2	2	40	0.09	1
262350 Orig																							
262350 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1
Method Blank	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1
Method Blank	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1
Method Blank																							

Analyte Symbol	Tl	U	V	W	Y	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	< 2	31	79	132	24	14
GXR-1 Cert	0.390	34.9	80.0	164	32.0	38.0
GXR-1 Meas	< 2	32	81	140	24	15
GXR-1 Cert	0.390	34.9	80.0	164	32.0	38.0
GXR-4 Meas	< 2	< 10	81	11	11	10
GXR-4 Cert	3.20	6.20	87.0	30.8	14.0	186
GXR-4 Meas	< 2	< 10	77	14	11	11
GXR-4 Cert	3.20	6.20	87.0	30.8	14.0	186
SDC-1 Meas						
SDC-1 Cert						
GXR-6 Meas	< 2	< 10	167	< 10	6	7
GXR-6 Cert	2.20	1.54	186	1.90	14.0	110
GXR-6 Meas	< 2	< 10	179	< 10	6	9
GXR-6 Cert	2.20	1.54	186	1.90	14.0	110
DNC-1a Meas						
DNC-1a Cert						
DNC-1a Meas						
DNC-1a Cert						
SBC-1 Meas						
SBC-1 Cert						
SBC-1 Meas						
SBC-1 Cert						
SdAR-M2 (U.S.G.S.) Meas		< 10	20	< 10	18	7
SdAR-M2 (U.S.G.S.) Cert		2.53	25.2	2.8	32.7	259
SdAR-M2 (U.S.G.S.) Meas		< 10	20	< 10	18	7
SdAR-M2 (U.S.G.S.) Cert		2.53	25.2	2.8	32.7	259
SF85 Meas						
SF85 Cert						
OxD128 Meas						
OxD128 Cert						
262334 Orig	< 2	< 10	105	< 10	10	5
262334 Dup	< 2	< 10	101	< 10	10	5
262340 Orig						
262340 Dup						
262349 Orig	< 2	< 10	17	< 10	3	9
262349 Dup	< 2	< 10	18	< 10	3	9
262350 Orig						
262350 Dup						
Method Blank						
Method Blank						
Method Blank						
Method Blank						
Method Blank						
Method Blank						
Method Blank						

Analyte Symbol	Tl	U	V	W	Y	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank						



Date Submitted: 22-Jul-16
Invoice No.: A16-07195
Invoice Date: 10-Aug-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

28 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1E3 Aqua Regia ICP(AQUAGEO)

Code 1F2 Total Digestion ICP(TOTAL)

REPORT **A16-07195**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is written over a horizontal line.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Date Submitted: 22-Jul-16
Invoice No.: A16-07195
Invoice Date: 10-Aug-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

28 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-50-Geraldton Au - Fire Assay AA

REPORT **A16-07195**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.



ACTIVATION LABORATORIES LTD.
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CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé".

Emmanuel Esemé , Ph.D.
Quality Control

Results

Activation Laboratories Ltd.

Report: A16-07195

Analyte Symbol	Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni
Unit Symbol	ppb	g/tonne	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm
Lower Limit	5	0.02	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1
Method Code	FA-AA	FA-GRA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262303	10		< 0.3	7.38	< 3	130	< 1	< 2	5.01	< 0.3	31	101	96	5.63	15	< 1	0.64	2.97	32	880	< 1	2.25	108
262304	< 5		< 0.3	7.21	4	90	< 1	< 2	5.15	< 0.3	30	134	53	5.37	16	< 1	0.28	3.01	16	920	< 1	2.45	109
262305	< 5		< 0.3	7.23	< 3	85	< 1	< 2	5.06	< 0.3	30	108	49	5.38	15	1	0.33	3.05	23	904	< 1	2.51	108
262306	5		< 0.3	7.27	< 3	184	< 1	< 2	4.47	< 0.3	32	34	51	6.78	17	< 1	0.90	2.60	29	1010	< 1	2.50	63
262307	6		< 0.3	6.98	< 3	193	< 1	< 2	5.41	< 0.3	30	32	50	6.48	16	2	0.75	2.43	18	1040	< 1	2.08	58
262308	5		< 0.3	7.09	3	203	< 1	< 2	5.66	< 0.3	30	34	51	6.61	17	2	0.72	2.42	16	1130	< 1	2.06	57
262309	< 5		< 0.3	7.34	< 3	151	< 1	< 2	5.38	< 0.3	31	43	58	6.80	18	< 1	0.66	2.45	15	1080	< 1	2.41	61
262310	5		< 0.3	7.20	< 3	170	< 1	< 2	5.84	0.4	29	47	53	6.48	19	3	0.56	2.49	20	1070	< 1	2.10	61
262311	< 5		< 0.3	0.14	< 3	196	< 1	< 2	17.6	< 0.3	< 1	4	< 1	0.08	< 1	< 1	0.07	11.5	11	352	< 1	0.04	1
262312	5		< 0.3	7.36	< 3	191	< 1	< 2	4.91	< 0.3	29	36	85	6.27	17	2	0.63	2.42	21	940	< 1	2.69	55
262313	< 5		< 0.3	7.36	< 3	117	< 1	< 2	4.95	< 0.3	29	53	40	5.54	16	< 1	0.53	2.84	18	889	< 1	2.61	81
262314	< 5		< 0.3	7.40	< 3	75	< 1	< 2	5.89	< 0.3	30	56	67	5.44	15	2	0.27	2.86	20	839	< 1	2.31	90
262315	5		< 0.3	7.23	7	121	< 1	< 2	5.88	< 0.3	29	54	112	5.80	18	2	0.54	2.52	22	850	< 1	2.10	78
262316	5		< 0.3	7.80	< 3	78	< 1	< 2	5.91	< 0.3	32	39	65	5.74	16	< 1	0.34	3.04	15	910	< 1	2.35	95
262317	137		< 0.3	7.80	59	102	< 1	< 2	6.13	< 0.3	32	32	65	5.74	18	< 1	0.40	2.91	16	997	< 1	2.21	96
262318	10		< 0.3	7.66	10	94	< 1	< 2	6.10	< 0.3	31	36	73	5.55	16	< 1	0.40	2.81	14	939	< 1	2.21	93
262319	9		< 0.3	7.89	13	89	< 1	< 2	6.19	< 0.3	32	36	58	5.75	16	< 1	0.31	2.95	14	891	< 1	2.36	96
262320	13		< 0.3	7.63	< 3	148	< 1	< 2	5.22	< 0.3	29	39	116	5.67	16	< 1	0.57	2.71	17	836	< 1	2.67	81
262321	> 5000	5.56	7.0	5.09	64	82	< 1	< 2	1.54	12.8	11	24	1270	7.09	15	2	1.34	1.91	13	613	86	1.31	61
262322	8		0.3	7.27	9	278	< 1	< 2	4.53	< 0.3	27	40	80	5.60	15	< 1	0.83	2.09	20	851	< 1	2.71	60
262323	5		< 0.3	7.61	< 3	241	< 1	< 2	5.58	< 0.3	25	35	39	5.82	17	< 1	0.54	2.03	15	1040	< 1	2.75	50
262324	< 5		< 0.3	6.73	< 3	336	< 1	< 2	4.61	< 0.3	24	22	56	5.54	16	< 1	1.03	1.93	18	984	< 1	2.14	38
262325	5		< 0.3	7.28	4	148	< 1	< 2	5.14	< 0.3	24	15	51	5.95	17	< 1	0.59	1.66	14	921	< 1	2.39	28
262326	5		< 0.3	7.35	4	155	< 1	< 2	5.09	< 0.3	25	19	55	5.89	18	1	0.60	1.73	16	882	< 1	2.49	33
262327	6		< 0.3	7.47	< 3	150	< 1	< 2	4.93	< 0.3	26	26	47	5.96	18	1	0.61	2.01	18	915	< 1	2.63	42
262328	7		< 0.3	7.39	3	131	< 1	< 2	5.11	< 0.3	27	36	60	5.89	18	1	0.55	1.99	15	930	< 1	2.58	45
262329	< 5		0.4	7.39	< 3	169	< 1	< 2	4.11	< 0.3	22	44	134	4.82	18	< 1	0.81	1.60	18	706	< 1	3.16	33
262330	5		< 0.3	7.31	< 3	184	< 1	2	4.94	< 0.3	31	33	164	6.11	18	< 1	0.72	2.08	18	900	< 1	2.61	45

Results

Activation Laboratories Ltd.

Report: A16-07195

Analyte Symbol	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Th	Ag	Cd	Cu	Mn	Mo	Ni	Pb
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5	20	0.2	0.5	1	5	1	1	2
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
262303	0.047	< 3	< 5	0.04	25	145	3	0.36	< 5	< 10	126	< 5	15	63	74	< 20	< 0.2	< 0.5	86	536	< 1	77	< 2
262304	0.044	< 3	< 5	0.01	24	147	5	0.33	< 5	< 10	121	< 5	15	64	80	< 20	< 0.2	< 0.5	51	455	< 1	66	< 2
262305	0.046	< 3	< 5	0.02	24	144	< 2	0.29	< 5	< 10	107	< 5	15	63	83	< 20	< 0.2	< 0.5	46	460	< 1	70	< 2
262306	0.086	< 3	< 5	0.08	28	139	< 2	0.16	< 5	< 10	79	< 5	19	80	32	< 20	< 0.2	< 0.5	48	577	< 1	49	< 2
262307	0.083	< 3	< 5	0.01	27	144	< 2	0.14	< 5	< 10	45	< 5	19	81	18	< 20	< 0.2	< 0.5	46	545	< 1	38	< 2
262308	0.087	< 3	< 5	0.02	27	156	< 2	0.21	< 5	< 10	55	< 5	19	81	19	< 20	< 0.2	< 0.5	44	592	< 1	35	< 2
262309	0.095	< 3	< 5	0.10	28	140	3	0.35	< 5	< 10	95	< 5	19	79	43	< 20	< 0.2	< 0.5	56	518	< 1	42	< 2
262310	0.092	< 3	< 5	0.02	26	151	< 2	0.41	< 5	< 10	93	< 5	20	79	48	< 20	< 0.2	< 0.5	47	526	< 1	38	< 2
262311	0.005	< 3	< 5	0.01	< 4	160	< 2	< 0.01	< 5	< 10	3	< 5	2	7	< 5	< 20	< 0.2	< 0.5	< 1	276	< 1	< 1	2
262312	0.081	< 3	< 5	0.06	24	149	< 2	0.45	< 5	< 10	126	< 5	20	77	94	< 20	< 0.2	< 0.5	65	468	< 1	37	< 2
262313	0.057	< 3	< 5	0.01	25	155	< 2	0.43	< 5	< 10	149	< 5	15	54	104	< 20	< 0.2	< 0.5	39	419	< 1	48	< 2
262314	0.050	< 3	< 5	0.01	25	155	5	0.38	< 5	< 10	140	< 5	13	57	68	< 20	< 0.2	< 0.5	65	468	< 1	53	< 2
262315	0.060	< 3	< 5	0.10	24	165	< 2	0.25	< 5	< 10	110	< 5	17	53	59	< 20	< 0.2	< 0.5	110	518	< 1	52	< 2
262316	0.048	< 3	< 5	0.02	26	165	4	0.21	< 5	< 10	81	< 5	14	62	43	< 20	< 0.2	< 0.5	65	471	< 1	56	< 2
262317	0.047	< 3	< 5	0.04	27	168	< 2	0.24	< 5	< 10	100	< 5	14	64	35	< 20	< 0.2	< 0.5	59	481	< 1	54	< 2
262318	0.048	< 3	< 5	0.02	26	163	6	0.35	< 5	< 10	132	< 5	14	63	51	< 20	< 0.2	< 0.5	70	450	< 1	50	< 2
262319	0.051	< 3	< 5	0.01	27	174	3	0.39	< 5	< 10	147	< 5	14	62	62	< 20	< 0.2	< 0.5	54	418	< 1	48	< 2
262320	0.056	< 3	< 5	0.04	25	165	< 2	0.42	< 5	< 10	148	< 5	15	66	86	< 20	< 0.2	< 0.5	114	449	< 1	51	< 2
262321	0.049	198	< 5	4.31	12	187	< 2	0.19	< 5	< 10	76	12	12	2340	47	< 20	7.7	12.7	1300	594	75	54	187
262322	0.067	< 3	< 5	0.07	21	190	< 2	0.44	< 5	< 10	134	< 5	19	85	115	< 20	< 0.2	< 0.5	79	551	< 1	45	< 2
262323	0.073	< 3	< 5	0.02	22	166	< 2	0.17	< 5	< 10	67	< 5	20	78	48	< 20	< 0.2	< 0.5	36	645	< 1	34	< 2
262324	0.069	< 3	< 5	0.01	20	144	< 2	0.15	< 5	< 10	49	< 5	20	79	26	< 20	< 0.2	< 0.5	51	719	< 1	28	< 2
262325	0.082	< 3	< 5	0.02	21	147	2	0.32	< 5	< 10	104	< 5	21	76	69	< 20	< 0.2	< 0.5	44	575	< 1	17	< 2
262326	0.076	< 3	< 5	0.11	21	144	< 2	0.20	< 5	< 10	78	< 5	21	77	59	< 20	< 0.2	< 0.5	49	545	< 1	22	< 2
262327	0.076	< 3	< 5	0.03	22	141	< 2	0.29	< 5	< 10	89	< 5	21	80	74	< 20	< 0.2	< 0.5	43	540	< 1	27	< 2
262328	0.073	< 3	< 5	0.04	22	153	< 2	0.24	< 5	< 10	80	< 5	21	74	61	< 20	< 0.2	< 0.5	55	559	< 1	29	< 2
262329	0.060	4	< 5	0.42	17	238	8	0.42	< 5	< 10	114	< 5	17	72	90	< 20	< 0.2	< 0.5	116	460	< 1	25	< 2
262330	0.075	< 3	< 5	0.58	22	170	3	0.54	< 5	< 10	148	< 5	21	75	91	< 20	< 0.2	< 0.5	156	506	< 1	36	< 2

Results

Activation Laboratories Ltd.

Report: A16-07195

Analyte Symbol	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%
Lower Limit	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
262303	49	2.46	< 2	< 10	75	< 0.5	< 2	2.36	20	93	4.19	< 10	< 1	0.37	< 10	2.07	0.198	0.036	0.04	< 2	12	16	0.12
262304	41	2.02	< 2	< 10	57	< 0.5	< 2	1.89	17	91	3.25	< 10	< 1	0.18	< 10	1.82	0.264	0.035	< 0.01	< 2	11	13	0.18
262305	42	2.07	< 2	< 10	61	< 0.5	< 2	2.06	18	94	3.55	< 10	< 1	0.20	< 10	2.00	0.221	0.040	0.02	< 2	11	12	0.13
262306	65	2.74	< 2	< 10	141	< 0.5	< 2	2.18	24	40	5.25	10	< 1	0.74	11	2.09	0.249	0.086	0.08	< 2	16	13	0.26
262307	59	2.64	< 2	< 10	110	< 0.5	< 2	2.64	19	35	4.52	< 10	< 1	0.48	10	1.77	0.327	0.084	< 0.01	< 2	14	25	0.31
262308	55	2.41	< 2	< 10	120	< 0.5	< 2	2.50	19	34	4.37	< 10	< 1	0.46	< 10	1.61	0.295	0.082	0.01	< 2	13	21	0.34
262309	57	2.13	2	< 10	109	< 0.5	< 2	2.20	21	37	4.43	< 10	< 1	0.51	10	1.67	0.259	0.086	0.09	< 2	14	11	0.23
262310	54	2.48	< 2	< 10	90	< 0.5	< 2	2.78	17	38	4.23	< 10	< 1	0.32	10	1.68	0.306	0.078	0.02	< 2	13	26	0.23
262311	6	0.10	4	16	171	< 0.5	< 2	13.6	< 1	< 1	0.07	< 10	< 1	0.06	< 10	9.11	0.027	0.002	0.01	< 2	< 1	135	< 0.01
262312	55	2.12	< 2	< 10	91	< 0.5	< 2	2.02	18	29	4.19	< 10	< 1	0.42	11	1.68	0.248	0.067	0.05	< 2	12	13	0.22
262313	37	2.03	< 2	< 10	79	< 0.5	< 2	1.79	17	31	3.47	< 10	< 1	0.42	< 10	1.78	0.250	0.046	< 0.01	< 2	11	12	0.18
262314	39	2.23	< 2	< 10	54	< 0.5	< 2	2.56	17	30	3.51	< 10	< 1	0.18	< 10	1.80	0.306	0.039	< 0.01	< 2	12	20	0.13
262315	38	2.46	< 2	< 10	79	< 0.5	< 2	3.02	19	36	4.21	< 10	< 1	0.31	< 10	1.81	0.267	0.054	0.10	< 2	12	30	0.15
262316	41	2.38	< 2	< 10	50	< 0.5	< 2	2.29	18	32	3.51	< 10	< 1	0.22	< 10	1.85	0.329	0.043	0.01	< 2	12	22	0.17
262317	40	2.77	87	< 10	42	< 0.5	< 2	2.67	17	35	3.35	< 10	< 1	0.18	< 10	1.66	0.413	0.041	0.04	< 2	12	36	0.15
262318	38	2.40	5	< 10	56	< 0.5	< 2	2.44	16	35	3.13	< 10	< 1	0.24	< 10	1.56	0.334	0.040	0.01	< 2	11	29	0.16
262319	37	2.38	13	< 10	44	< 0.5	< 2	2.44	16	32	3.07	< 10	< 1	0.15	< 10	1.55	0.369	0.040	< 0.01	< 2	11	28	0.16
262320	49	2.19	< 2	< 10	81	< 0.5	< 2	2.07	18	36	3.74	< 10	< 1	0.37	< 10	1.77	0.279	0.046	0.03	< 2	12	17	0.20
262321	2410	1.68	80	< 10	12	< 0.5	< 2	1.16	10	26	7.16	< 10	< 1	0.21	12	1.81	0.074	0.040	4.19	11	4	64	0.05
262322	74	2.26	< 2	< 10	221	< 0.5	< 2	1.93	20	35	4.44	< 10	< 1	0.72	12	1.71	0.252	0.059	0.07	< 2	12	16	0.27
262323	61	2.21	< 2	< 10	151	< 0.5	< 2	2.57	17	31	4.36	< 10	< 1	0.37	11	1.55	0.284	0.064	0.01	< 2	12	18	0.26
262324	70	2.63	< 2	< 10	249	< 0.5	< 2	2.24	19	25	4.66	< 10	< 1	0.75	12	1.70	0.294	0.063	0.01	< 2	13	21	0.36
262325	60	2.35	< 2	< 10	99	< 0.5	< 2	2.36	16	13	4.38	< 10	< 1	0.42	12	1.31	0.316	0.065	0.01	< 2	12	18	0.20
262326	63	2.39	< 2	< 10	85	< 0.5	< 2	2.34	18	18	4.55	< 10	< 1	0.37	12	1.37	0.297	0.064	0.10	< 2	13	20	0.26
262327	61	2.29	< 2	< 10	89	< 0.5	< 2	2.14	18	23	4.42	< 10	< 1	0.40	12	1.52	0.311	0.066	0.02	< 2	13	13	0.22
262328	58	2.30	< 2	< 10	86	< 0.5	< 2	2.26	18	24	4.45	< 10	< 1	0.39	12	1.53	0.330	0.064	0.04	< 2	13	16	0.23
262329	53	1.97	< 2	< 10	121	< 0.5	< 2	1.46	18	22	3.90	< 10	< 1	0.64	10	1.27	0.252	0.050	0.36	< 2	9	20	0.29
262330	58	2.11	< 2	< 10	111	< 0.5	< 2	1.88	25	25	4.49	< 10	< 1	0.56	11	1.51	0.265	0.062	0.53	< 2	11	17	0.27

Analyte Symbol	Te	Tl	U	V	W	Y	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
262303	< 1	< 2	< 10	82	< 10	7	3
262304	3	< 2	< 10	77	< 10	7	4
262305	< 1	< 2	< 10	78	< 10	7	5
262306	1	< 2	< 10	128	< 10	11	5
262307	3	< 2	< 10	114	< 10	11	3
262308	7	< 2	< 10	107	< 10	9	2
262309	2	< 2	< 10	111	< 10	10	3
262310	< 1	< 2	< 10	97	< 10	10	3
262311	2	< 2	< 10	< 1	< 10	1	< 1
262312	3	< 2	< 10	106	< 10	10	5
262313	2	< 2	< 10	86	< 10	7	4
262314	< 1	< 2	< 10	82	< 10	6	3
262315	1	< 2	< 10	100	< 10	9	5
262316	< 1	< 2	< 10	85	< 10	6	3
262317	< 1	< 2	< 10	81	< 10	6	2
262318	2	< 2	< 10	78	< 10	6	3
262319	1	< 2	< 10	77	< 10	6	3
262320	< 1	< 2	< 10	92	< 10	7	5
262321	4	< 2	< 10	55	12	5	8
262322	3	< 2	< 10	111	< 10	11	5
262323	5	< 2	< 10	118	< 10	12	4
262324	5	< 2	< 10	129	< 10	13	3
262325	< 1	< 2	< 10	130	< 10	13	4
262326	3	< 2	< 10	131	< 10	13	6
262327	< 1	< 2	< 10	121	< 10	12	6
262328	< 1	< 2	< 10	124	< 10	12	6
262329	< 1	< 2	< 10	94	< 10	10	8
262330	2	< 2	< 10	108	< 10	11	6

Analyte Symbol	Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni
Unit Symbol	ppb	g/tonne	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm
Lower Limit	5	0.02	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1
Method Code	FA-AA	FA-GRA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas			31.8	2.07	390	679	1	1370	0.89	2.8	8	15	1220	24.0	14	8	0.04	0.22	8	886	16	0.05	47
GXR-1 Cert			31.0	3.52	427	750	1.22	1380	0.960	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520	41.0
GXR-1 Meas			33.3	2.12	415	711	1	1430	0.93	3.0	8	15	1280	25.2	14	5	0.05	0.22	9	927	17	0.05	50
GXR-1 Cert			31.0	3.52	427	750	1.22	1380	0.960	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520	41.0
GXR-4 Meas			3.2	6.62	100	106	2	28	1.07	0.4	15	47	6410	3.00	19	< 1	2.08	1.70	13	163	320	0.54	44
GXR-4 Cert			4.0	7.20	98.0	1640	1.90	19.0	1.01	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564	42.0
GXR-4 Meas			3.3	6.92	100	98	2	14	1.09	0.3	15	48	6640	3.06	19	< 1	2.93	1.73	13	172	325	0.55	44
GXR-4 Cert			4.0	7.20	98.0	1640	1.90	19.0	1.01	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564	42.0
SDC-1 Meas				7.20	8	630	3		1.09		19	46	35	4.66	21	< 1	1.98	0.98	33	865		1.49	37
SDC-1 Cert				8.34	0.220	630	3.00		1.00		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34.00	880.00		1.52	38.0
GXR-6 Meas			0.4	11.7	241	> 1000	1	< 2	0.20	< 0.3	15	47	73	5.65	28	< 1	1.88	0.62	33	1060	1	0.11	29
GXR-6 Cert			1.30	17.7	330	1300	1.40	0.290	0.180	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104	27.0
GXR-6 Meas			0.4	11.8	266	> 1000	1	< 2	0.19	< 0.3	16	63	73	5.83	29	1	2.15	0.62	33	1120	1	0.10	29
GXR-6 Cert			1.30	17.7	330	1300	1.40	0.290	0.180	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104	27.0
DNC-1a Meas						94					56	253	101			13			4				256
DNC-1a Cert						118					57.0	270	100.00			15			5.20				247
DNC-1a Meas						95					56	137	101			13			4				256
DNC-1a Cert						118					57.0	270	100.00			15			5.20				247
OxP 91 Meas		14.8																					
OxP 91 Cert		14.82																					
SBC-1 Meas					23	650	3	3		0.5	24	74	39			26			160		3		92
SBC-1 Cert					25.7	788.0	3.20	0.70		0.40	22.7	109	31.0000			27.0			163.0		2.40		82.8
SBC-1 Meas					22	723	3	< 2		0.6	24	90	35			26			159		2		91
SBC-1 Cert					25.7	788.0	3.20	0.70		0.40	22.7	109	31.0000			27.0			163.0		2.40		82.8
OxK110 Meas		3.59																					
OxK110 Cert		3.602																					
SdAR-M2 (U.S.G.S.) Meas						937	8	< 2		5.2	15	43	255		17	1			17		14		58
SdAR-M2 (U.S.G.S.) Cert						990	6.6	1.05		5.1	12.4	49.6	236.0000		17.6	1.44			17.9		13.3		48.8
SdAR-M2 (U.S.G.S.) Meas						966	8	< 2		5.4	15	42	261		17	< 1			18		12		61
SdAR-M2 (U.S.G.S.) Cert						990	6.6	1.05		5.1	12.4	49.6	236.0000		17.6	1.44			17.9		13.3		48.8
SF85 Meas	823																						
SF85 Cert	848																						
262305 Orig			0.3	7.11	5	83	< 1	< 2	4.97	< 0.3	29	125	46	5.31	15	1	0.32	3.01	23	889	< 1	2.47	106
262305 Dup			< 0.3	7.34	< 3	86	< 1	< 2	5.14	< 0.3	30	92	51	5.45	15	2	0.34	3.10	24	919	< 1	2.54	111
262312 Orig	5																						
262312 Dup	5																						
262320 Orig			0.3	7.59	< 3	147	< 1	< 2	5.20	< 0.3	29	42	116	5.64	17	< 1	0.56	2.69	17	837	< 1	2.65	80
262320 Dup			< 0.3	7.67	< 3	149	< 1	< 2	5.24	< 0.3	29	37	116	5.71	16	1	0.57	2.72	17	835	< 1	2.69	82
262322 Orig	8																						
262322 Dup	8																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank		< 0.02																					
Method Blank			< 0.3	0.02	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1
Method Blank			< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		2	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1

Analyte Symbol	Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni
Unit Symbol	ppb	g/tonne	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm
Lower Limit	5	0.02	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1
Method Code	FA-AA	FA-GRA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Method Blank			< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1
Method Blank			< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1
Method Blank			< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1
Method Blank																							
Method Blank																							
Method Blank			< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1

Analyte Symbol	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Th	Ag	Cd	Cu	Mn	Mo	Ni	Pb
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.001	3	5	0.01	4	1	2	0.01	5	10	5	1	1	5	20	0.2	0.5	1	5	1	1	1	2
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	0.063	731	68	0.25	< 4	293	12	0.03	< 5	40	88	168	33	739	23	< 20	28.9	2.3	1130	748	13	31	597
GXR-1 Cert	0.0650	730	122	0.257	1.58	275	13.0	0.036	0.390	34.9	80.0	164	32.0	760	38.0	2.44	31.0	3.30	1110	852	18.0	41.0	730
GXR-1 Meas	0.069	761	33	0.27	< 4	308	9	0.03	< 5	40	93	161	34	759	24	< 20	29.8	2.0	1150	840	13	35	616
GXR-1 Cert	0.0650	730	122	0.257	1.58	275	13.0	0.036	0.390	34.9	80.0	164	32.0	760	38.0	2.44	31.0	3.30	1110	852	18.0	41.0	730
GXR-4 Meas	0.126	48	< 5	1.77	8	209	4	0.29	< 5	< 10	86	38	15	73	47	< 20	3.6	< 0.5	6360	134	275	39	39
GXR-4 Cert	0.120	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20	6.20	87.0	30.8	14.0	73.0	186	22.5	4.0	0.860	6520	155	310	42.0	52.0
GXR-4 Meas	0.141	44	< 5	1.84	8	212	2	0.30	< 5	< 10	88	39	16	73	48	< 20	3.4	< 0.5	6100	133	264	37	40
GXR-4 Cert	0.120	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20	6.20	87.0	30.8	14.0	73.0	186	22.5	4.0	0.860	6520	155	310	42.0	52.0
SDC-1 Meas	0.053	21	< 5		16	170		0.30	< 5	< 10	64	< 5		94	38								
SDC-1 Cert	0.0690	25.00	0.54		17.00	180.00		0.606	0.70	3.10	102.00	0.80		103.00	290.00								
GXR-6 Meas	0.035	92	< 5	0.02	30	40	< 2		< 5	< 10	151	< 5	15	124	86	< 20	0.3	< 0.5	62	949	< 1	21	83
GXR-6 Cert	0.0350	101	3.60	0.0160	27.6	35.0	0.0180		2.20	1.54	186	1.90	14.0	118	110	5.30	1.30	1.00	66.0	1010	2.40	27.0	101
GXR-6 Meas	0.040	97	< 5	0.02	32	41	< 2		< 5	< 10	158	< 5	15	131	90	< 20	0.3	< 0.5	67	1010	1	22	88
GXR-6 Cert	0.0350	101	3.60	0.0160	27.6	35.0	0.0180		2.20	1.54	186	1.90	14.0	118	110	5.30	1.30	1.00	66.0	1010	2.40	27.0	101
DNC-1a Meas		4	< 5		31	129		0.30			140			17	54	36							
DNC-1a Cert		6.3	0.96		31	144.0		0.29			148.0000			18.0	70.0	38.0							
DNC-1a Meas		5	< 5		32	130		0.30			142			17	54	36							
DNC-1a Cert		6.3	0.96		31	144.0		0.29			148.0000			18.0	70.0	38.0							
OxP 91 Meas																							
OxP 91 Cert																							
SBC-1 Meas		29	< 5		22	178		0.52	< 5	< 10	217	< 5	37	177	119								
SBC-1 Cert		35.0	1.01		20.0	178.0		0.51	0.89	5.76	220.0	1.60	36.5	186.0	134.0								
SBC-1 Meas		27	< 5		22	178		0.53	< 5	< 10	218	< 5	38	182	122								
SBC-1 Cert		35.0	1.01		20.0	178.0		0.51	0.89	5.76	220.0	1.60	36.5	186.0	134.0								
OxK110 Meas																							
OxK110 Cert																							
SdAR-M2 (U.S.G.S.) Meas		816			4	146				< 10	27	10	31	784	65	< 20		5.4	247		12	49	819
SdAR-M2 (U.S.G.S.) Cert		808			4.1	144				2.53	25.2	2.8	32.7	760	259	14.2		5.1	236.0000		13.3	48.8	808
SdAR-M2 (U.S.G.S.) Meas		831			4	147				< 10	26	8	30	799	118	< 20		5.3	248		12	48	803
SdAR-M2 (U.S.G.S.) Cert		808			4.1	144				2.53	25.2	2.8	32.7	760	259	14.2		5.1	236.0000		13.3	48.8	808
SF85 Meas																							
SF85 Cert																							
262305 Orig	0.047	< 3	< 5	0.02	24	142	< 2	0.39	< 5	< 10	135	< 5	15	61	111	< 20	< 0.2	< 0.5	46	458	< 1	68	< 2
262305 Dup	0.045	< 3	< 5	0.02	25	147	< 2	0.19	< 5	< 10	79	< 5	16	65	54	< 20	< 0.2	< 0.5	46	462	< 1	71	< 2
262312 Orig																							
262312 Dup																							
262320 Orig	0.056	< 3	< 5	0.04	25	164	4	0.43	< 5	< 10	150	< 5	15	66	89	< 20	< 0.2	< 0.5	115	454	< 1	52	< 2
262320 Dup	0.055	< 3	< 5	0.04	25	165	< 2	0.42	< 5	< 10	147	< 5	15	65	83	< 20	< 0.2	< 0.5	114	443	< 1	50	< 2
262322 Orig																							
262322 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 0.001	< 3	< 5	< 0.01	< 4	3	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5								

Analyte Symbol	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Th	Ag	Cd	Cu	Mn	Mo	Ni	Pb
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5	20	0.2	0.5	1	5	1	1	2
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5								
Method Blank	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5								
Method Blank	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5								
Method Blank	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5								
Method Blank																< 20	< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2
Method Blank																< 20	< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2
Method Blank																< 20	< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2
Method Blank	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5								

Analyte Symbol	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%
Lower Limit	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	660	0.36	387	< 10	358	0.8	1480	0.79	4	6	23.6	< 10	4	0.03	< 10	0.14	0.056	0.044	0.20	74	1	180	< 0.01
GXR-1 Cert	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036
GXR-1 Meas	683	0.37	398	< 10	183	0.8	1510	0.82	6	8	24.1	< 10	4	0.03	< 10	0.14	0.054	0.046	0.20	81	1	181	< 0.01
GXR-1 Cert	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036
GXR-4 Meas	70	2.73	102	< 10	30	1.3	21	0.90	13	55	3.18	10	< 1	1.61	53	1.65	0.135	0.123	1.68	3	7	68	0.13
GXR-4 Cert	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29
GXR-4 Meas	68	2.81	97	< 10	21	1.3	16	0.90	13	52	3.05	10	< 1	1.63	49	1.60	0.152	0.117	1.64	3	7	72	0.13
GXR-4 Cert	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29
SDC-1 Meas																							
SDC-1 Cert																							
GXR-6 Meas	117	7.12	200	< 10	1040	0.9	< 2	0.20	12	76	5.26	20	< 1	1.05	11	0.41	0.105	0.031	0.01	3	22	37	
GXR-6 Cert	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0	
GXR-6 Meas	123	7.42	244	< 10	845	0.9	< 2	0.16	13	81	5.60	20	< 1	1.11	12	0.42	0.088	0.034	0.01	4	23	31	
GXR-6 Cert	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0	
DNC-1a Meas																							
DNC-1a Cert																							
DNC-1a Meas																							
DNC-1a Cert																							
OxP 91 Meas																							
OxP 91 Cert																							
SBC-1 Meas																							
SBC-1 Cert																							
SBC-1 Meas																							
SBC-1 Cert																							
OxK110 Meas																							
OxK110 Cert																							
SdAR-M2 (U.S.G.S.) Meas	825				127	5.0	< 2		13	10		< 10	1		47						2	21	
SdAR-M2 (U.S.G.S.) Cert	760				990	6.6	1.05		12.4	49.6		17.6	1.44		46.6						4.1	144	
SdAR-M2 (U.S.G.S.) Meas	818				123	5.0	< 2		13	10		< 10	1		47						2	21	
SdAR-M2 (U.S.G.S.) Cert	760				990	6.6	1.05		12.4	49.6		17.6	1.44		46.6						4.1	144	
SF85 Meas																							
SF85 Cert																							
262305 Orig	41	2.00	< 2	< 10	61	< 0.5	< 2	2.04	17	93	3.51	< 10	< 1	0.20	< 10	1.97	0.213	0.039	0.01	< 2	11	12	0.14
262305 Dup	42	2.13	< 2	< 10	61	< 0.5	< 2	2.08	18	95	3.59	< 10	< 1	0.21	< 10	2.02	0.230	0.040	0.02	< 2	11	12	0.13
262312 Orig																							
262312 Dup																							
262320 Orig	50	2.20	< 2	< 10	81	< 0.5	< 2	2.08	18	37	3.78	< 10	< 1	0.37	< 10	1.79	0.283	0.047	0.03	< 2	12	17	0.20
262320 Dup	47	2.18	< 2	< 10	80	< 0.5	< 2	2.05	18	36	3.71	< 10	< 1	0.36	< 10	1.75	0.276	0.046	0.03	< 2	12	17	0.20
262322 Orig																							
262322 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%
Lower Limit	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01
Method Blank	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01
Method Blank	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01
Method Blank																							

Analyte Symbol	Te	Tl	U	V	W	Y	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	12	< 2	31	79	132	24	14
GXR-1 Cert	13.0	0.390	34.9	80.0	164	32.0	38.0
GXR-1 Meas	11	< 2	32	81	140	24	15
GXR-1 Cert	13.0	0.390	34.9	80.0	164	32.0	38.0
GXR-4 Meas	1	< 2	< 10	81	11	11	10
GXR-4 Cert	0.970	3.20	6.20	87.0	30.8	14.0	186
GXR-4 Meas	2	< 2	< 10	77	14	11	11
GXR-4 Cert	0.970	3.20	6.20	87.0	30.8	14.0	186
SDC-1 Meas							
SDC-1 Cert							
GXR-6 Meas	< 1	< 2	< 10	167	< 10	6	7
GXR-6 Cert	0.0180	2.20	1.54	186	1.90	14.0	110
GXR-6 Meas	< 1	< 2	< 10	179	< 10	6	9
GXR-6 Cert	0.0180	2.20	1.54	186	1.90	14.0	110
DNC-1a Meas							
DNC-1a Cert							
DNC-1a Meas							
DNC-1a Cert							
OxP 91 Meas							
OxP 91 Cert							
SBC-1 Meas							
SBC-1 Cert							
SBC-1 Meas							
SBC-1 Cert							
OxK110 Meas							
OxK110 Cert							
SdAR-M2 (U.S.G.S.) Meas			< 10	20	< 10	18	7
SdAR-M2 (U.S.G.S.) Cert			2.53	25.2	2.8	32.7	259
SdAR-M2 (U.S.G.S.) Meas			< 10	20	< 10	18	7
SdAR-M2 (U.S.G.S.) Cert			2.53	25.2	2.8	32.7	259
SF85 Meas							
SF85 Cert							
262305 Orig	< 1	< 2	< 10	78	< 10	7	4
262305 Dup	2	< 2	< 10	79	< 10	7	5
262312 Orig							
262312 Dup							
262320 Orig	< 1	< 2	< 10	93	< 10	7	5
262320 Dup	< 1	< 2	< 10	91	< 10	7	5
262322 Orig							
262322 Dup							
Method Blank							
Method Blank							
Method Blank							
Method Blank							
Method Blank							

Analyte Symbol	Te	Tl	U	V	W	Y	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank							
Method Blank							
Method Blank							
Method Blank	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank							



Date Submitted: 22-Jul-16
Invoice No.: A16-07194
Invoice Date: 10-Aug-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

28 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1E3 Aqua Regia ICP(AQUAGEO)

Code 1F2 Total Digestion ICP(TOTAL)

REPORT **A16-07194**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is written in a cursive, somewhat stylized font.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Date Submitted: 22-Jul-16
Invoice No.: A16-07194
Invoice Date: 10-Aug-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

28 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-50-Geraldton Au - Fire Assay AA

REPORT **A16-07194**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.



CERTIFIED BY:

A handwritten signature in black ink, appearing to read "Emmanuel Esemé".

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
801 Main Street, P.O. Box 999, Geraldton, Ontario, Canada, P0T 1M0
TELEPHONE +807 854-2020 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Geraldton@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A16-07194

Analyte Symbol	Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni
Unit Symbol	ppb	g/tonne	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm
Lower Limit	5	0.02	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1
Method Code	FA-AA	FA-GRA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262275	10		< 0.3	8.64	< 3	640	1	< 2	1.37	< 0.3	27	103	57	5.16	21	2	2.42	1.92	31	601	< 1	1.87	81
262276	5		0.3	7.80	< 3	467	1	< 2	3.08	< 0.3	31	203	58	8.15	19	< 1	1.36	2.51	33	834	< 1	2.60	91
262277	13		0.4	7.86	< 3	500	1	< 2	1.68	< 0.3	29	145	69	8.31	20	1	1.47	2.28	36	710	1	1.75	87
262278	5		0.4	5.37	3	274	< 1	< 2	2.13	0.4	18	110	54	19.2	15	7	0.71	1.72	29	697	< 1	1.09	59
262279	6		< 0.3	8.79	3	622	2	< 2	1.48	< 0.3	31	94	68	6.09	22	< 1	2.05	2.06	35	670	< 1	2.61	95
262280	5		0.3	6.05	3	394	1	< 2	2.09	0.4	20	101	50	17.1	16	4	1.15	1.62	27	736	< 1	1.59	63
262281	> 5000	5.98	6.7	4.98	68	73	< 1	< 2	1.50	12.5	11	30	1270	6.98	14	1	1.47	1.87	13	614	83	1.29	58
262282	11		0.4	8.29	< 3	816	1	< 2	1.72	< 0.3	28	124	75	9.37	21	< 1	2.67	2.08	48	666	1	2.39	88
262283	7		0.4	7.34	7	291	1	< 2	3.31	< 0.3	28	89	78	6.12	17	< 1	2.35	2.55	40	830	1	2.07	80
262284	6		< 0.3	7.40	< 3	125	< 1	< 2	5.21	0.5	29	63	50	6.28	16	< 1	0.72	2.80	25	1160	< 1	2.25	87
262285	11		< 0.3	6.93	5	232	< 1	< 2	4.34	< 0.3	27	69	73	5.81	17	< 1	1.13	2.53	28	878	< 1	2.08	83
262286	5		< 0.3	7.23	3	106	< 1	< 2	4.77	< 0.3	28	98	74	5.34	15	1	0.45	2.67	27	746	< 1	2.54	92
262287	6		< 0.3	7.25	10	112	< 1	< 2	5.24	< 0.3	31	77	74	5.70	16	2	0.36	2.99	27	867	< 1	2.29	105
262288	7		< 0.3	7.21	< 3	99	< 1	< 2	5.09	< 0.3	31	82	44	5.37	14	1	0.34	3.19	27	868	< 1	2.26	112
262289	6		< 0.3	7.17	5	138	< 1	< 2	4.57	< 0.3	30	60	88	5.98	16	1	0.55	2.71	33	905	< 1	2.45	78
262290	12		< 0.3	7.52	4	91	< 1	< 2	5.35	< 0.3	34	85	63	6.03	16	< 1	0.37	3.34	24	999	< 1	2.44	111
262291	< 5		< 0.3	7.79	< 3	11	< 1	< 2	0.37	< 0.3	< 1	5	< 1	0.66	21	< 1	3.67	0.02	26	153	< 1	7.76	2
262292	10		< 0.3	7.72	8	131	< 1	< 2	5.93	< 0.3	33	91	63	6.04	16	< 1	0.46	3.11	25	986	< 1	2.29	108
262293	6		< 0.3	6.96	< 3	96	< 1	< 2	5.08	< 0.3	30	143	52	5.44	15	< 1	0.30	3.10	22	869	< 1	2.48	109
262294	7		< 0.3	7.28	< 3	129	< 1	< 2	5.11	< 0.3	31	142	64	5.61	16	< 1	0.38	3.13	24	892	< 1	2.50	109
262295	< 5		< 0.3	7.35	< 3	112	< 1	< 2	5.21	< 0.3	31	127	43	5.60	16	1	0.39	3.00	30	870	< 1	2.48	110
262296	8		< 0.3	7.66	< 3	118	< 1	< 2	5.87	< 0.3	30	47	90	5.52	16	1	0.32	2.73	16	918	< 1	2.43	92
262297	7		< 0.3	7.28	< 3	86	< 1	< 2	5.35	< 0.3	31	68	73	5.55	15	1	0.27	2.99	21	906	< 1	2.51	112
262298	13		< 0.3	7.44	< 3	203	< 1	< 2	4.63	< 0.3	32	76	73	5.66	15	< 1	0.69	3.16	29	816	< 1	2.21	113
262299	6		0.7	7.38	< 3	156	< 1	< 2	4.54	< 0.3	31	77	31	5.75	15	< 1	0.59	3.89	48	783	< 1	1.90	109
262300	7		0.7	7.20	7	155	< 1	< 2	5.52	< 0.3	29	85	41	5.14	15	3	0.64	3.00	32	800	< 1	2.37	102
262301	389		< 0.3	7.59	151	498	< 1	< 2	4.17	< 0.3	14	40	50	5.13	15	< 1	0.88	1.46	8	1000	4	2.69	27
262302	6		< 0.3	7.64	< 3	78	< 1	< 2	5.60	< 0.3	32	100	56	5.87	16	< 1	0.37	3.15	21	1020	< 1	2.35	114

Results

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Analyte Symbol	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Th	Ag	Cd	Cu	Mn	Mo	Ni	Pb
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5	20	0.2	0.5	1	5	1	1	2
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
262275	0.067	12	< 5	0.10	22	118	5	0.40	< 5	< 10	138	< 5	11	73	115	< 20	< 0.2	< 0.5	55	547	< 1	76	3
262276	0.079	10	< 5	0.14	26	295	< 2	0.44	< 5	< 10	157	< 5	14	74	100	< 20	< 0.2	< 0.5	55	602	< 1	85	3
262277	0.070	11	< 5	0.11	23	113	< 2	0.44	< 5	< 10	148	< 5	13	84	118	< 20	< 0.2	< 0.5	66	600	< 1	84	4
262278	0.082	10	< 5	0.17	16	106	6	0.29	< 5	< 10	109	< 5	12	58	90	< 20	< 0.2	< 0.5	45	529	< 1	47	2
262279	0.061	13	< 5	0.12	25	159	< 2	0.31	< 5	< 10	131	< 5	11	85	92	< 20	< 0.2	< 0.5	62	553	< 1	84	3
262280	0.086	11	< 5	0.09	18	126	< 2	0.32	< 5	< 10	116	< 5	13	56	88	< 20	< 0.2	< 0.5	44	556	< 1	56	3
262281	0.046	198	5	4.29	12	188	< 2	0.19	< 5	< 10	74	12	14	2320	45	< 20	7.0	12.0	1230	564	71	51	179
262282	0.086	10	< 5	0.22	25	189	< 2	0.45	< 5	< 10	155	19	13	88	113	< 20	< 0.2	< 0.5	64	557	< 1	77	2
262283	0.063	< 3	< 5	0.10	23	126	< 2	0.43	< 5	< 10	128	< 5	18	74	134	< 20	< 0.2	< 0.5	70	583	< 1	67	< 2
262284	0.066	3	< 5	0.07	24	175	< 2	0.43	< 5	< 10	127	< 5	19	89	99	< 20	< 0.2	< 0.5	45	624	< 1	62	< 2
262285	0.050	3	< 5	0.03	23	148	< 2	0.32	< 5	< 10	111	< 5	18	71	95	< 20	< 0.2	< 0.5	73	589	< 1	59	< 2
262286	0.045	< 3	< 5	0.10	24	121	< 2	0.29	< 5	< 10	111	< 5	16	71	80	< 20	< 0.2	< 0.5	70	470	< 1	65	< 2
262287	0.044	< 3	< 5	0.04	24	148	6	0.19	< 5	< 10	76	< 5	16	66	38	< 20	< 0.2	< 0.5	72	482	< 1	74	< 2
262288	0.041	< 3	< 5	0.01	24	133	< 2	0.28	< 5	< 10	96	< 5	15	64	55	< 20	< 0.2	< 0.5	43	487	< 1	76	< 2
262289	0.059	< 3	< 5	0.12	24	148	< 2	0.22	< 5	< 10	89	< 5	18	75	53	< 20	< 0.2	< 0.5	53	520	< 1	54	< 2
262290	0.047	< 3	< 5	0.02	25	155	3	0.42	< 5	< 10	146	< 5	15	69	76	< 20	< 0.2	< 0.5	57	495	< 1	68	< 2
262291	< 0.001	< 3	< 5	< 0.01	< 4	25	< 2	< 0.01	< 5	< 10	< 2	< 5	3	25	20	< 20	< 0.2	< 0.5	< 1	82	< 1	< 1	< 2
262292	0.044	< 3	< 5	0.01	26	169	3	0.40	< 5	< 10	142	< 5	14	65	59	< 20	< 0.2	< 0.5	59	490	< 1	64	< 2
262293	0.044	< 3	< 5	< 0.01	24	136	2	0.39	< 5	< 10	136	< 5	14	57	91	< 20	< 0.2	< 0.5	54	422	< 1	67	< 2
262294	0.044	< 3	< 5	0.01	24	138	< 2	0.38	< 5	< 10	135	< 5	15	61	96	< 20	0.2	< 0.5	63	392	< 1	65	< 2
262295	0.044	< 3	< 5	< 0.01	24	149	7	0.29	< 5	< 10	111	< 5	16	64	72	< 20	< 0.2	< 0.5	40	431	< 1	70	< 2
262296	0.043	< 3	< 5	0.01	25	178	< 2	0.19	< 5	< 10	73	< 5	16	63	48	< 20	< 0.2	< 0.5	85	456	< 1	49	< 2
262297	0.040	< 3	< 5	0.02	24	155	6	0.23	< 5	< 10	79	< 5	15	61	45	< 20	< 0.2	< 0.5	67	457	< 1	66	< 2
262298	0.043	< 3	< 5	0.03	25	119	< 2	0.33	< 5	< 10	119	< 5	15	66	67	< 20	< 0.2	< 0.5	71	480	< 1	82	< 2
262299	0.045	< 3	< 5	0.02	25	96	< 2	0.38	< 5	< 10	136	< 5	14	74	84	< 20	0.4	< 0.5	30	503	< 1	83	< 2
262300	0.044	< 3	< 5	0.02	22	140	< 2	0.36	< 5	< 10	125	< 5	14	65	79	< 20	0.7	< 0.5	36	443	< 1	68	< 2
262301	0.059	9	< 5	0.06	22	321	3	0.36	< 5	< 10	140	< 5	23	59	37	< 20	< 0.2	< 0.5	41	510	3	18	8
262302	0.049	< 3	< 5	0.01	26	199	< 2	0.40	< 5	< 10	143	< 5	16	68	86	< 20	< 0.2	< 0.5	48	498	< 1	68	< 2

Results

Activation Laboratories Ltd.

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Analyte Symbol	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%
Lower Limit	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
262275	79	3.35	< 2	< 10	172	< 0.5	< 2	0.44	25	103	5.01	10	< 1	1.05	25	1.96	0.083	0.061	0.09	< 2	9	9	0.17
262276	74	3.66	< 2	< 10	346	< 0.5	< 2	1.33	26	164	8.08	10	< 1	0.96	19	2.22	0.202	0.072	0.14	2	18	40	0.22
262277	85	3.90	< 2	< 10	241	< 0.5	< 2	0.69	26	138	8.52	10	1	1.12	23	2.28	0.142	0.061	0.10	3	14	16	0.18
262278	51	3.11	2	< 10	110	< 0.5	< 2	1.26	14	84	18.7	10	< 1	0.37	15	1.59	0.135	0.068	0.14	5	10	26	0.09
262279	84	3.37	< 2	< 10	222	< 0.5	< 2	0.44	27	127	5.61	10	< 1	1.04	24	2.02	0.097	0.054	0.11	2	13	9	0.19
262280	54	2.94	< 2	< 10	278	< 0.5	< 2	0.90	16	97	17.0	10	< 1	0.79	17	1.59	0.160	0.073	0.08	5	12	16	0.15
262281	2320	1.55	73	< 10	11	< 0.5	< 2	1.10	9	25	6.77	< 10	< 1	0.20	11	1.69	0.069	0.038	3.92	10	4	59	0.05
262282	87	4.21	< 2	< 10	424	< 0.5	< 2	0.35	25	137	8.88	20	< 1	2.33	20	2.03	0.135	0.070	0.18	4	19	14	0.31
262283	66	3.91	< 2	< 10	249	< 0.5	< 2	1.83	22	99	5.43	10	< 1	1.27	12	2.16	0.302	0.055	0.08	< 2	16	44	0.23
262284	69	2.74	< 2	< 10	96	< 0.5	< 2	2.32	20	63	4.50	< 10	< 1	0.54	10	2.04	0.253	0.055	0.06	< 2	12	29	0.21
262285	62	3.15	< 2	< 10	144	< 0.5	< 2	2.48	19	48	4.55	< 10	< 1	0.69	12	1.99	0.347	0.045	0.03	< 2	12	48	0.20
262286	57	2.28	< 2	< 10	83	< 0.5	< 2	2.19	20	82	4.13	< 10	< 1	0.32	< 10	2.08	0.222	0.040	0.09	< 2	12	12	0.15
262287	49	2.32	< 2	< 10	84	< 0.5	< 2	2.11	20	102	3.95	< 10	< 1	0.27	< 10	2.05	0.262	0.041	0.03	< 2	12	14	0.18
262288	47	2.34	< 2	< 10	63	< 0.5	< 2	2.08	20	100	3.76	< 10	< 1	0.21	< 10	2.16	0.238	0.037	< 0.01	< 2	11	13	0.17
262289	59	2.48	< 2	< 10	89	< 0.5	< 2	2.02	21	66	4.63	< 10	< 1	0.38	10	2.03	0.224	0.054	0.10	< 2	12	18	0.22
262290	45	2.33	< 2	< 10	53	< 0.5	< 2	1.99	19	88	3.68	< 10	< 1	0.24	< 10	2.02	0.280	0.039	0.01	< 2	11	16	0.18
262291	16	4.28	< 2	< 10	< 10	< 0.5	< 2	0.20	< 1	< 1	0.37	< 10	< 1	1.30	< 10	0.02	2.95	< 0.001	< 0.01	< 2	< 1	6	< 0.01
262292	41	2.51	< 2	< 10	69	< 0.5	< 2	2.60	18	80	3.57	< 10	< 1	0.24	< 10	1.86	0.330	0.036	0.01	< 2	11	27	0.15
262293	39	2.14	< 2	< 10	64	< 0.5	< 2	1.89	17	93	3.31	< 10	< 1	0.21	< 10	1.92	0.266	0.038	< 0.01	< 2	11	11	0.17
262294	40	2.00	< 2	< 10	77	< 0.5	< 2	1.75	17	89	3.22	< 10	< 1	0.25	< 10	1.83	0.245	0.037	< 0.01	< 2	10	11	0.16
262295	45	2.11	< 2	< 10	74	< 0.5	< 2	1.95	18	93	3.49	< 10	< 1	0.27	< 10	1.89	0.250	0.038	< 0.01	< 2	11	11	0.16
262296	38	2.05	< 2	< 10	57	< 0.5	< 2	2.15	15	51	3.12	< 10	< 1	0.16	< 10	1.52	0.321	0.039	0.01	< 2	11	21	0.16
262297	42	2.03	< 2	< 10	48	< 0.5	< 2	2.07	17	92	3.36	< 10	< 1	0.16	< 10	1.82	0.279	0.035	0.01	< 2	11	14	0.18
262298	52	2.76	< 2	< 10	155	< 0.5	< 2	1.88	21	108	4.16	< 10	< 1	0.51	< 10	2.34	0.252	0.037	0.02	< 2	12	11	0.18
262299	63	3.43	< 2	< 10	95	< 0.5	< 2	2.34	22	102	4.65	< 10	< 1	0.34	< 10	3.20	0.171	0.037	0.01	< 2	11	11	0.13
262300	49	2.38	< 2	< 10	90	< 0.5	< 2	2.92	18	88	3.59	< 10	< 1	0.37	< 10	2.04	0.217	0.033	0.01	< 2	10	15	0.15
262301	44	2.29	155	< 10	102	< 0.5	< 2	1.61	9	30	3.70	< 10	< 1	0.13	< 10	0.75	0.232	0.045	0.05	2	7	76	0.16
262302	44	2.44	< 2	< 10	43	< 0.5	< 2	2.24	18	94	3.47	< 10	< 1	0.24	< 10	1.91	0.333	0.035	< 0.01	< 2	11	29	0.17

Analyte Symbol	Te	Tl	U	V	W	Y	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
262275	< 1	< 2	< 10	85	< 10	6	18
262276	< 1	< 2	< 10	140	< 10	8	21
262277	< 1	< 2	< 10	116	< 10	8	17
262278	< 1	< 2	< 10	89	< 10	7	19
262279	2	< 2	< 10	109	< 10	5	16
262280	< 1	< 2	< 10	105	< 10	9	19
262281	< 1	< 2	< 10	52	11	5	7
262282	4	< 2	< 10	144	< 10	7	24
262283	< 1	< 2	< 10	109	< 10	10	16
262284	2	< 2	< 10	90	< 10	10	7
262285	3	< 2	< 10	87	< 10	9	9
262286	< 1	< 2	< 10	89	< 10	8	5
262287	< 1	< 2	< 10	88	< 10	8	4
262288	1	< 2	< 10	81	< 10	7	4
262289	2	< 2	< 10	98	< 10	10	8
262290	< 1	< 2	< 10	83	< 10	6	4
262291	< 1	< 2	< 10	< 1	< 10	3	< 1
262292	2	< 2	< 10	83	< 10	6	2
262293	2	< 2	< 10	77	< 10	7	4
262294	< 1	< 2	< 10	74	< 10	6	4
262295	2	< 2	< 10	78	< 10	7	5
262296	< 1	< 2	< 10	76	< 10	7	6
262297	2	< 2	< 10	78	< 10	7	5
262298	< 1	< 2	< 10	90	< 10	7	4
262299	< 1	< 2	< 10	94	< 10	7	4
262300	2	< 2	< 10	76	< 10	7	5
262301	3	< 2	< 10	91	< 10	9	4
262302	2	< 2	< 10	80	< 10	7	3

Analyte Symbol	Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni
Unit Symbol	ppb	g/tonne	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm
Lower Limit	5	0.02	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1
Method Code	FA-AA	FA-GRA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas			31.8	2.07	390	679	1	1370	0.89	2.8	8	15	1220	24.0	14	8	0.04	0.22	8	886	16	0.05	47
GXR-1 Cert			31.0	3.52	427	750	1.22	1380	0.960	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520	41.0
GXR-1 Meas			33.3	2.12	415	711	1	1430	0.93	3.0	8	15	1280	25.2	14	5	0.05	0.22	9	927	17	0.05	50
GXR-1 Cert			31.0	3.52	427	750	1.22	1380	0.960	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520	41.0
GXR-4 Meas			3.2	6.62	100	106	2	28	1.07	0.4	15	47	6410	3.00	19	< 1	2.08	1.70	13	163	320	0.54	44
GXR-4 Cert			4.0	7.20	98.0	1640	1.90	19.0	1.01	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564	42.0
GXR-4 Meas			3.3	6.92	100	98	2	14	1.09	0.3	15	48	6640	3.06	19	< 1	2.93	1.73	13	172	325	0.55	44
GXR-4 Cert			4.0	7.20	98.0	1640	1.90	19.0	1.01	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564	42.0
SDC-1 Meas				7.20	8	630	3		1.09		19	46	35	4.66	21	< 1	1.98	0.98	33	865		1.49	37
SDC-1 Cert				8.34	0.220	630	3.00		1.00		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34.00	880.00		1.52	38.0
GXR-6 Meas			0.4	11.7	241	> 1000	1	< 2	0.20	< 0.3	15	47	73	5.65	28	< 1	1.88	0.62	33	1060	1	0.11	29
GXR-6 Cert			1.30	17.7	330	1300	1.40	0.290	0.180	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104	27.0
GXR-6 Meas			0.4	11.8	266	> 1000	1	< 2	0.19	< 0.3	16	63	73	5.83	29	1	2.15	0.62	33	1120	1	0.10	29
GXR-6 Cert			1.30	17.7	330	1300	1.40	0.290	0.180	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104	27.0
DNC-1a Meas						94					56	253	101			13			4				256
DNC-1a Cert						118					57.0	270	100.00			15			5.20				247
DNC-1a Meas						95					56	137	101			13			4				256
DNC-1a Cert						118					57.0	270	100.00			15			5.20				247
OxP 91 Meas		14.8																					
OxP 91 Cert		14.82																					
SBC-1 Meas					23	650	3	3		0.5	24	74	39						160		3		92
SBC-1 Cert					25.7	788.0	3.20	0.70		0.40	22.7	109	31.0000						163.0		2.40		82.8
SBC-1 Meas					22	723	3	< 2		0.6	24	90	35						159		2		91
SBC-1 Cert					25.7	788.0	3.20	0.70		0.40	22.7	109	31.0000						163.0		2.40		82.8
OxK110 Meas		3.59																					
OxK110 Cert		3.602																					
SdAR-M2 (U.S.G.S.) Meas						937	8	< 2		5.2	15	43	255		17	1			17		14		58
SdAR-M2 (U.S.G.S.) Cert						990	6.6	1.05		5.1	12.4	49.6	236.0000		17.6	1.44			17.9		13.3		48.8
SdAR-M2 (U.S.G.S.) Meas						966	8	< 2		5.4	15	42	261		17	< 1			18		12		61
SdAR-M2 (U.S.G.S.) Cert						990	6.6	1.05		5.1	12.4	49.6	236.0000		17.6	1.44			17.9		13.3		48.8
OxD128 Meas	402																						
OxD128 Cert	424.000																						
262276 Orig			0.3	7.93	< 3	467	1	< 2	3.09	< 0.3	30	202	62	8.18	18	< 1	1.36	2.53	34	840	< 1	2.60	91
262276 Dup			0.3	7.68	< 3	466	1	< 2	3.07	< 0.3	31	205	54	8.12	19	< 1	1.36	2.49	33	828	< 1	2.60	92
262284 Orig	6																						
262284 Dup	6																						
262291 Orig			< 0.3	6.81	< 3	10	< 1	< 2	0.35	< 0.3	< 1	4	< 1	0.62	21	< 1	3.74	0.02	25	147	< 1	7.80	1
262291 Dup			< 0.3	8.77	< 3	12	< 1	< 2	0.38	< 0.3	< 1	5	< 1	0.71	22	< 1	3.60	0.02	26	159	< 1	7.72	2
262294 Orig	7																						
262294 Dup	6																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank		< 0.02																					
Method Blank			< 0.3	0.02	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1
Method Blank			< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		2	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1

Analyte Symbol	Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni
Unit Symbol	ppb	g/tonne	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm
Lower Limit	5	0.02	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1
Method Code	FA-AA	FA-GRA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Method Blank			< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1
Method Blank			< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1
Method Blank			< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1
Method Blank																							
Method Blank																							
Method Blank			< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1

Analyte Symbol	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Th	Ag	Cd	Cu	Mn	Mo	Ni	Pb
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5	20	0.2	0.5	1	5	1	1	2
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	0.063	731	68	0.25	< 4	293	12	0.03	< 5	40	88	168	33	739	23	< 20	28.9	2.3	1130	748	13	31	597
GXR-1 Cert	0.0650	730	122	0.257	1.58	275	13.0	0.036	0.390	34.9	80.0	164	32.0	760	38.0	2.44	31.0	3.30	1110	852	18.0	41.0	730
GXR-1 Meas	0.069	761	33	0.27	< 4	308	9	0.03	< 5	40	93	161	34	759	24	< 20	29.8	2.0	1150	840	13	35	616
GXR-1 Cert	0.0650	730	122	0.257	1.58	275	13.0	0.036	0.390	34.9	80.0	164	32.0	760	38.0	2.44	31.0	3.30	1110	852	18.0	41.0	730
GXR-4 Meas	0.126	48	< 5	1.77	8	209	4	0.29	< 5	< 10	86	38	15	73	47	< 20	3.6	< 0.5	6360	134	275	39	39
GXR-4 Cert	0.120	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20	6.20	87.0	30.8	14.0	73.0	186	22.5	4.0	0.860	6520	155	310	42.0	52.0
GXR-4 Meas	0.141	44	< 5	1.84	8	212	2	0.30	< 5	< 10	88	39	16	73	48	< 20	3.4	< 0.5	6100	133	264	37	40
GXR-4 Cert	0.120	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20	6.20	87.0	30.8	14.0	73.0	186	22.5	4.0	0.860	6520	155	310	42.0	52.0
SDC-1 Meas	0.053	21	< 5		16	170		0.30	< 5	< 10	64	< 5		94	38								
SDC-1 Cert	0.0690	25.00	0.54		17.00	180.00		0.606	0.70	3.10	102.00	0.80		103.00	290.00								
GXR-6 Meas	0.035	92	< 5	0.02	30	40	< 2		< 5	< 10	151	< 5	15	124	86	< 20	0.3	< 0.5	62	949	< 1	21	83
GXR-6 Cert	0.0350	101	3.60	0.0160	27.6	35.0	0.0180		2.20	1.54	186	1.90	14.0	118	110	5.30	1.30	1.00	66.0	1010	2.40	27.0	101
GXR-6 Meas	0.040	97	< 5	0.02	32	41	< 2		< 5	< 10	158	< 5	15	131	90	< 20	0.3	< 0.5	67	1010	1	22	88
GXR-6 Cert	0.0350	101	3.60	0.0160	27.6	35.0	0.0180		2.20	1.54	186	1.90	14.0	118	110	5.30	1.30	1.00	66.0	1010	2.40	27.0	101
DNC-1a Meas		4	< 5		31	129		0.30			140			17	54	36							
DNC-1a Cert		6.3	0.96		31	144.0		0.29			148.0000			18.0	70.0	38.0							
DNC-1a Meas		5	< 5		32	130		0.30			142			17	54	36							
DNC-1a Cert		6.3	0.96		31	144.0		0.29			148.0000			18.0	70.0	38.0							
OxP 91 Meas																							
OxP 91 Cert																							
SBC-1 Meas		29	< 5		22	178		0.52	< 5	< 10	217	< 5	37	177	119								
SBC-1 Cert		35.0	1.01		20.0	178.0		0.51	0.89	5.76	220.0	1.60	36.5	186.0	134.0								
SBC-1 Meas		27	< 5		22	178		0.53	< 5	< 10	218	< 5	38	182	122								
SBC-1 Cert		35.0	1.01		20.0	178.0		0.51	0.89	5.76	220.0	1.60	36.5	186.0	134.0								
OxK110 Meas																							
OxK110 Cert																							
SdAR-M2 (U.S.G.S.) Meas		816			4	146				< 10	27	10	31	784	65	< 20		5.4	247		12	49	819
SdAR-M2 (U.S.G.S.) Cert		808			4.1	144				2.53	25.2	2.8	32.7	760	259	14.2		5.1	236.0000		13.3	48.8	808
SdAR-M2 (U.S.G.S.) Meas		831			4	147				< 10	26	8	30	799	118	< 20		5.3	248		12	48	803
SdAR-M2 (U.S.G.S.) Cert		808			4.1	144				2.53	25.2	2.8	32.7	760	259	14.2		5.1	236.0000		13.3	48.8	808
OxD128 Meas																							
OxD128 Cert																							
262276 Orig	0.080	10	< 5	0.15	27	295	< 2	0.44	< 5	< 10	157	< 5	15	74	102	< 20	< 0.2	< 0.5	56	606	< 1	85	3
262276 Dup	0.078	11	< 5	0.14	25	296	< 2	0.44	< 5	< 10	157	< 5	14	73	99	< 20	< 0.2	< 0.5	55	597	< 1	85	3
262284 Orig																							
262284 Dup																							
262291 Orig	< 0.001	< 3	< 5	< 0.01	< 4	23	< 2	< 0.01	< 5	< 10	< 2	< 5	3	24	20	< 20	< 0.2	< 0.5	< 1	84	< 1	< 1	< 2
262291 Dup	< 0.001	< 3	< 5	< 0.01	< 4	27	< 2	< 0.01	< 5	< 10	< 2	< 5	3	25	20	< 20	< 0.2	< 0.5	< 1	80	< 1	< 1	< 2
262294 Orig																							
262294 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 0.001	< 3	< 5	< 0.01	< 4	3	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5								

Analyte Symbol	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Th	Ag	Cd	Cu	Mn	Mo	Ni	Pb
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5	20	0.2	0.5	1	5	1	1	2
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5								
Method Blank	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5								
Method Blank	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5								
Method Blank	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5								
Method Blank																< 20	< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2
Method Blank																< 20	< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2
Method Blank																< 20	< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2
Method Blank	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5								

Analyte Symbol	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%
Lower Limit	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	660	0.36	387	< 10	358	0.8	1480	0.79	4	6	23.6	< 10	4	0.03	< 10	0.14	0.056	0.044	0.20	74	1	180	< 0.01
GXR-1 Cert	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036
GXR-1 Meas	683	0.37	398	< 10	183	0.8	1510	0.82	6	8	24.1	< 10	4	0.03	< 10	0.14	0.054	0.046	0.20	81	1	181	< 0.01
GXR-1 Cert	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036
GXR-4 Meas	70	2.73	102	< 10	30	1.3	21	0.90	13	55	3.18	10	< 1	1.61	53	1.65	0.135	0.123	1.68	3	7	68	0.13
GXR-4 Cert	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29
GXR-4 Meas	68	2.81	97	< 10	21	1.3	16	0.90	13	52	3.05	10	< 1	1.63	49	1.60	0.152	0.117	1.64	3	7	72	0.13
GXR-4 Cert	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29
SDC-1 Meas																							
SDC-1 Cert																							
GXR-6 Meas	117	7.12	200	< 10	1040	0.9	< 2	0.20	12	76	5.26	20	< 1	1.05	11	0.41	0.105	0.031	0.01	3	22	37	
GXR-6 Cert	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0	
GXR-6 Meas	123	7.42	244	< 10	845	0.9	< 2	0.16	13	81	5.60	20	< 1	1.11	12	0.42	0.088	0.034	0.01	4	23	31	
GXR-6 Cert	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0	
DNC-1a Meas																							
DNC-1a Cert																							
DNC-1a Meas																							
DNC-1a Cert																							
OxP 91 Meas																							
OxP 91 Cert																							
SBC-1 Meas																							
SBC-1 Cert																							
SBC-1 Meas																							
SBC-1 Cert																							
OxK110 Meas																							
OxK110 Cert																							
SdAR-M2 (U.S.G.S.) Meas	825				127	5.0	< 2		13	10		< 10	1		47						2	21	
SdAR-M2 (U.S.G.S.) Cert	760				990	6.6	1.05		12.4	49.6		17.6	1.44		46.6						4.1	144	
SdAR-M2 (U.S.G.S.) Meas	818				123	5.0	< 2		13	10		< 10	1		47						2	21	
SdAR-M2 (U.S.G.S.) Cert	760				990	6.6	1.05		12.4	49.6		17.6	1.44		46.6						4.1	144	
OxD128 Meas																							
OxD128 Cert																							
262276 Orig	74	3.68	< 2	< 10	344	< 0.5	< 2	1.34	27	165	8.07	10	< 1	0.96	19	2.23	0.202	0.072	0.13	2	18	40	0.22
262276 Dup	75	3.64	< 2	< 10	347	< 0.5	< 2	1.32	26	163	8.10	10	< 1	0.96	19	2.22	0.201	0.072	0.14	2	18	40	0.22
262284 Orig																							
262284 Dup																							
262291 Orig	16	4.28	< 2	< 10	< 10	< 0.5	< 2	0.20	< 1	< 1	0.38	< 10	< 1	1.31	< 10	0.03	2.96	< 0.001	< 0.01	< 2	< 1	6	< 0.01
262291 Dup	15	4.28	< 2	< 10	< 10	< 0.5	< 2	0.19	< 1	< 1	0.36	< 10	< 1	1.30	< 10	0.02	2.94	< 0.001	< 0.01	< 2	< 1	7	< 0.01
262294 Orig																							
262294 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%
Lower Limit	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01
Method Blank	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01
Method Blank	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01
Method Blank																							

Analyte Symbol	Te	Tl	U	V	W	Y	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	12	< 2	31	79	132	24	14
GXR-1 Cert	13.0	0.390	34.9	80.0	164	32.0	38.0
GXR-1 Meas	11	< 2	32	81	140	24	15
GXR-1 Cert	13.0	0.390	34.9	80.0	164	32.0	38.0
GXR-4 Meas	1	< 2	< 10	81	11	11	10
GXR-4 Cert	0.970	3.20	6.20	87.0	30.8	14.0	186
GXR-4 Meas	2	< 2	< 10	77	14	11	11
GXR-4 Cert	0.970	3.20	6.20	87.0	30.8	14.0	186
SDC-1 Meas							
SDC-1 Cert							
GXR-6 Meas	< 1	< 2	< 10	167	< 10	6	7
GXR-6 Cert	0.0180	2.20	1.54	186	1.90	14.0	110
GXR-6 Meas	< 1	< 2	< 10	179	< 10	6	9
GXR-6 Cert	0.0180	2.20	1.54	186	1.90	14.0	110
DNC-1a Meas							
DNC-1a Cert							
DNC-1a Meas							
DNC-1a Cert							
OxP 91 Meas							
OxP 91 Cert							
SBC-1 Meas							
SBC-1 Cert							
SBC-1 Meas							
SBC-1 Cert							
OxK110 Meas							
OxK110 Cert							
SdAR-M2 (U.S.G.S.) Meas			< 10	20	< 10	18	7
SdAR-M2 (U.S.G.S.) Cert			2.53	25.2	2.8	32.7	259
SdAR-M2 (U.S.G.S.) Meas			< 10	20	< 10	18	7
SdAR-M2 (U.S.G.S.) Cert			2.53	25.2	2.8	32.7	259
OxD128 Meas							
OxD128 Cert							
262276 Orig	< 1	< 2	< 10	140	< 10	8	19
262276 Dup	< 1	< 2	< 10	140	< 10	8	22
262284 Orig							
262284 Dup							
262291 Orig	< 1	< 2	< 10	< 1	< 10	3	< 1
262291 Dup	< 1	< 2	< 10	< 1	< 10	3	< 1
262294 Orig							
262294 Dup							
Method Blank							
Method Blank							
Method Blank							
Method Blank							
Method Blank							

Analyte Symbol	Te	Tl	U	V	W	Y	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank							
Method Blank							
Method Blank							
Method Blank	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank							



Date Submitted: 25-Jul-16
Invoice No.: A16-07193
Invoice Date: 10-Aug-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

28 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1E3 Aqua Regia ICP(AQUAGEO)

Code 1F2 Total Digestion ICP(TOTAL)

REPORT **A16-07193**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is written in a cursive style with a large, stylized 'E' and 'S'.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Date Submitted: 25-Jul-16
Invoice No.: A16-07193
Invoice Date: 10-Aug-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

28 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-50-Geraldton Au - Fire Assay AA

REPORT **A16-07193**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.



ACTIVATION LABORATORIES LTD.
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E-MAIL Geraldton@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

A handwritten signature in black ink, appearing to read "Emmanuel Esemé".

Emmanuel Esemé , Ph.D.
Quality Control

Results

Activation Laboratories Ltd.

Report: A16-07193

Analyte Symbol	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P
Unit Symbol	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%
Lower Limit	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001
Method Code	FA-AA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262413	28	0.3	7.47	20	748	1	< 2	2.61	< 0.3	26	185	58	4.50	19	< 1	1.80	2.00	46	668	2	2.52	100	0.075
262414	< 5	0.4	7.11	15	719	1	< 2	2.60	< 0.3	24	164	59	4.22	17	< 1	1.91	2.01	46	644	1	2.76	90	0.072
262415	< 5	0.3	7.09	8	687	1	< 2	3.04	< 0.3	24	191	48	4.14	16	< 1	1.74	2.13	40	624	< 1	2.67	91	0.071
262416	< 5	0.4	7.04	33	703	1	< 2	3.01	< 0.3	25	212	49	4.25	16	< 1	1.57	2.21	33	683	< 1	3.08	95	0.071
262417	6	0.4	7.34	40	713	1	< 2	2.48	< 0.3	28	231	55	4.81	18	< 1	1.92	2.40	35	725	< 1	3.07	112	0.071
262418	7	< 0.3	6.51	117	79	< 1	< 2	8.45	0.3	47	122	87	9.13	18	1	0.46	2.57	17	1880	< 1	1.33	77	0.038
262419	< 5	< 0.3	7.67	132	91	< 1	< 2	6.63	< 0.3	51	117	90	8.01	18	1	0.42	1.26	16	2130	< 1	2.35	99	0.052
262254	21	0.3	7.42	4	477	1	< 2	1.68	< 0.3	27	120	60	5.59	18	1	1.95	1.92	42	710	1	2.07	75	0.055
262255	61	0.4	7.37	< 3	771	1	< 2	1.50	< 0.3	27	123	87	4.72	18	1	1.88	1.85	38	668	2	2.65	77	0.052
262256	8	0.3	5.43	4	> 1000	4	< 2	5.98	0.4	52	596	77	6.93	14	1	1.81	7.51	61	1090	< 1	0.98	437	0.225
262257	6	0.3	7.66	< 3	702	1	< 2	1.84	< 0.3	26	143	78	5.42	18	< 1	1.77	2.04	43	682	1	2.86	78	0.066
262258	7	0.4	7.35	< 3	553	1	< 2	2.43	< 0.3	27	188	64	5.77	18	< 1	2.01	2.34	49	654	1	2.40	122	0.072
262259	5	0.4	7.29	< 3	544	1	< 2	2.22	< 0.3	30	180	69	5.23	18	1	1.83	2.66	42	737	2	2.44	145	0.071
262260	12	0.3	7.46	< 3	474	2	< 2	3.22	< 0.3	35	159	81	5.83	17	< 1	1.85	3.42	38	961	< 1	2.47	153	0.071
262261	421	< 0.3	7.27	143	477	< 1	< 2	3.97	< 0.3	14	35	52	4.86	15	< 1	0.84	1.40	8	940	3	2.56	26	0.052
262262	10	0.3	7.69	< 3	588	2	< 2	2.24	0.4	32	167	63	6.29	19	1	2.51	2.77	51	776	< 1	2.59	103	0.071
262263	10	< 0.3	7.16	< 3	303	3	< 2	6.16	< 0.3	38	182	81	6.93	15	< 1	1.82	4.17	50	1200	< 1	2.20	82	0.088
262264	13	< 0.3	7.37	< 3	408	2	< 2	4.34	< 0.3	38	176	72	6.50	16	< 1	2.25	3.82	37	1030	< 1	2.16	98	0.082
262265	9	0.3	7.96	< 3	561	1	< 2	2.39	< 0.3	30	121	62	7.84	19	2	2.41	2.31	48	801	< 1	2.30	79	0.075
262266	9	0.4	8.15	< 3	693	1	< 2	2.66	< 0.3	24	137	97	4.81	18	1	1.63	1.74	37	575	1	2.17	70	0.059
262267	11	0.3	7.55	< 3	483	1	< 2	1.98	< 0.3	25	131	60	7.02	19	< 1	1.33	1.97	46	779	< 1	2.37	72	0.071
262268	8	0.3	7.33	< 3	444	1	< 2	1.86	< 0.3	27	157	57	4.83	18	1	1.50	2.09	38	703	1	2.97	81	0.059
262269	8	0.3	7.70	6	490	1	< 2	2.64	0.4	29	141	59	5.87	18	< 1	1.99	2.41	42	884	< 1	2.19	81	0.063
262270	22	0.4	7.73	5	584	2	< 2	1.87	< 0.3	28	118	86	8.16	20	< 1	2.15	2.01	43	706	1	2.36	85	0.068
262271	< 5	< 0.3	0.06	< 3	35	< 1	< 2	17.8	< 0.3	< 1	3	< 1	0.03	< 1	< 1	0.02	12.6	6	336	< 1	0.03	2	0.003
262272	11	0.4	7.91	5	429	1	< 2	2.12	< 0.3	29	145	63	6.98	19	< 1	2.27	2.60	41	761	1	2.41	100	0.070
262273	55	0.4	7.43	4	484	2	< 2	2.44	< 0.3	24	126	59	9.32	19	1	2.20	1.88	43	731	< 1	1.97	76	0.074
262274	10	0.3	8.52	3	627	1	< 2	1.73	< 0.3	29	121	71	6.70	22	< 1	2.63	2.06	39	700	< 1	1.52	88	0.079

Analyte Symbol	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Th	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn
Unit Symbol	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5	20	0.2	0.5	1	5	1	1	2	2
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
262413	14	< 5	0.21	18	345	< 2	0.38	< 5	< 10	116	< 5	14	75	127	< 20	< 0.2	< 0.5	51	612	< 1	96	4	74
262414	14	< 5	0.18	16	401	< 2	0.36	< 5	< 10	106	< 5	14	76	116	< 20	< 0.2	< 0.5	47	611	< 1	89	3	74
262415	13	5	0.19	16	376	< 2	0.36	< 5	< 10	105	< 5	13	67	133	< 20	< 0.2	< 0.5	48	545	< 1	92	5	75
262416	15	7	0.20	16	435	4	0.35	< 5	< 10	106	< 5	14	69	122	< 20	< 0.2	< 0.5	47	451	< 1	91	4	64
262417	13	5	0.23	18	377	< 2	0.38	< 5	< 10	120	< 5	14	81	130	< 20	< 0.2	< 0.5	51	395	< 1	106	4	70
262418	< 3	< 5	0.39	44	112	< 2	0.21	< 5	< 10	133	< 5	26	105	15	< 20	< 0.2	< 0.5	83	1010	< 1	54	< 2	63
262419	< 3	< 5	0.20	40	159	< 2	0.21	< 5	< 10	121	< 5	28	101	24	< 20	< 0.2	< 0.5	89	1190	< 1	83	< 2	72
262254	17	< 5	0.24	19	159	< 2	0.41	< 5	< 10	128	< 5	12	88	127	< 20	< 0.2	< 0.5	55	609	< 1	69	4	91
262255	18	< 5	0.27	19	338	8	0.41	< 5	< 10	125	< 5	12	79	124	< 20	< 0.2	< 0.5	79	605	1	73	4	82
262256	12	< 5	0.07	20	635	4	0.59	< 5	< 10	151	< 5	54	92	150	< 20	< 0.2	< 0.5	68	411	< 1	272	5	58
262257	10	< 5	0.21	19	348	4	0.43	< 5	< 10	132	< 5	15	71	128	< 20	< 0.2	< 0.5	71	594	< 1	70	3	72
262258	8	< 5	0.17	18	223	3	0.40	< 5	< 10	122	< 5	14	61	133	< 20	< 0.2	< 0.5	55	573	< 1	119	< 2	61
262259	14	< 5	0.21	18	269	< 2	0.39	< 5	< 10	122	< 5	14	76	128	< 20	< 0.2	< 0.5	59	542	< 1	123	3	71
262260	11	< 5	0.19	23	312	< 2	0.38	< 5	< 10	149	< 5	16	77	111	< 20	< 0.2	< 0.5	75	578	< 1	116	2	66
262261	11	< 5	0.06	21	306	< 2	0.33	< 5	< 10	127	< 5	22	58	35	< 20	< 0.2	< 0.5	44	528	3	19	8	47
262262	7	< 5	0.27	23	231	< 2	0.41	< 5	< 10	139	< 5	17	74	119	< 20	< 0.2	< 0.5	54	575	< 1	87	< 2	67
262263	4	< 5	0.12	28	310	2	0.43	< 5	< 10	158	< 5	22	70	88	< 20	< 0.2	< 0.5	66	549	< 1	53	< 2	41
262264	7	< 5	0.11	27	297	< 2	0.38	< 5	< 10	149	< 5	17	74	78	< 20	< 0.2	< 0.5	61	592	< 1	72	< 2	59
262265	7	< 5	0.21	23	236	< 2	0.47	< 5	< 10	157	< 5	15	77	105	< 20	< 0.2	< 0.5	57	602	< 1	74	< 2	76
262266	8	< 5	0.27	20	152	< 2	0.38	< 5	< 10	115	< 5	18	83	118	< 20	< 0.2	< 0.5	92	471	< 1	64	6	83
262267	10	< 5	0.25	19	202	< 2	0.40	< 5	< 10	125	< 5	14	76	123	< 20	< 0.2	< 0.5	53	616	< 1	68	3	77
262268	10	< 5	0.11	19	222	4	0.38	< 5	< 10	125	< 5	13	70	115	< 20	< 0.2	< 0.5	58	572	< 1	75	3	72
262269	10	< 5	0.12	24	191	< 2	0.33	< 5	< 10	116	< 5	15	90	102	< 20	< 0.2	< 0.5	57	729	< 1	75	5	87
262270	10	< 5	0.27	21	193	< 2	0.39	< 5	< 10	134	< 5	13	74	115	< 20	< 0.2	< 0.5	70	589	< 1	79	3	76
262271	< 3	< 5	< 0.01	< 4	136	< 2	< 0.01	< 5	< 10	3	< 5	< 1	12	< 5	< 20	< 0.2	< 0.5	< 1	276	< 1	1	< 2	11
262272	9	< 5	0.12	22	234	< 2	0.41	< 5	< 10	138	< 5	11	74	111	< 20	< 0.2	< 0.5	57	592	< 1	90	< 2	75
262273	9	< 5	0.18	21	157	< 2	0.38	< 5	< 10	137	6	14	75	116	< 20	< 0.2	< 0.5	54	622	< 1	72	3	79
262274	10	< 5	0.15	24	106	< 2	0.39	< 5	< 10	146	< 5	11	76	108	< 20	< 0.2	< 0.5	68	614	< 1	79	3	78

Results

Activation Laboratories Ltd.

Report: A16-07193

Analyte Symbol	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	
Lower Limit	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.001	0.01	2	1	1	0.01	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
262413	3.00	13	< 10	523	< 0.5	< 2	0.92	24	225	4.60	10	< 1	2.04	30	2.03	0.154	0.067	0.19	5	15	25	0.30	5	
262414	2.63	7	< 10	589	< 0.5	< 2	1.02	22	240	4.49	10	< 1	1.76	27	2.07	0.152	0.067	0.16	5	13	26	0.28	2	
262415	2.51	9	< 10	561	< 0.5	< 2	1.18	22	262	4.31	10	< 1	1.55	29	2.06	0.172	0.067	0.18	6	11	30	0.26	2	
262416	2.09	38	< 10	467	< 0.5	< 2	1.05	21	265	3.92	< 10	< 1	1.34	28	1.93	0.149	0.066	0.19	7	8	25	0.23	4	
262417	2.32	35	< 10	519	< 0.5	< 2	0.53	25	274	4.30	10	< 1	1.51	28	2.10	0.154	0.064	0.21	7	11	19	0.26	3	
262418	3.41	187	< 10	48	< 0.5	< 2	5.78	36	79	5.21	< 10	< 1	0.27	< 10	1.39	0.368	0.036	0.38	2	19	42	0.18	< 1	
262419	2.80	247	< 10	53	< 0.5	< 2	3.92	47	89	5.44	< 10	< 1	0.26	< 10	0.92	0.278	0.051	0.19	< 2	21	19	0.20	< 1	
262254	3.09	< 2	< 10	257	< 0.5	< 2	0.29	24	134	5.33	10	< 1	1.81	24	1.93	0.088	0.049	0.19	2	13	10	0.26	5	
262255	2.75	< 2	< 10	418	< 0.5	< 2	0.26	25	145	4.63	10	< 1	1.86	26	1.89	0.103	0.046	0.23	2	13	17	0.29	1	
262256	2.92	< 2	< 10	1310	1.0	< 2	1.71	28	440	3.86	< 10	< 1	1.88	74	3.46	0.107	0.196	0.06	3	5	167	0.33	4	
262257	2.88	< 2	< 10	346	< 0.5	< 2	0.44	24	141	5.22	10	< 1	1.45	25	2.04	0.098	0.058	0.19	< 2	14	24	0.27	< 1	
262258	3.20	< 2	< 10	274	< 0.5	< 2	1.43	24	189	5.63	10	< 1	1.11	25	2.30	0.069	0.063	0.15	< 2	12	24	0.16	5	
262259	3.14	< 2	< 10	364	< 0.5	< 2	0.63	25	204	4.88	10	< 1	1.51	27	2.32	0.115	0.065	0.19	< 2	13	21	0.23	1	
262260	2.87	< 2	< 10	336	< 0.5	< 2	0.92	26	236	4.69	10	< 1	1.28	22	2.65	0.141	0.064	0.17	< 2	14	26	0.23	< 1	
262261	2.35	159	< 10	103	< 0.5	< 2	1.65	9	31	3.81	< 10	< 1	0.13	< 10	0.77	0.236	0.046	0.05	< 2	7	79	0.17	< 1	
262262	3.06	< 2	< 10	383	< 0.5	< 2	0.63	26	197	5.58	10	< 1	1.66	26	2.41	0.113	0.059	0.22	< 2	16	20	0.26	< 1	
262263	2.18	< 2	< 10	223	< 0.5	< 2	2.26	20	200	3.87	< 10	< 1	0.88	12	2.18	0.224	0.078	0.11	2	11	43	0.21	< 1	
262264	2.77	< 2	< 10	286	< 0.5	< 2	1.29	25	208	4.76	< 10	< 1	1.57	17	2.49	0.169	0.074	0.10	< 2	15	30	0.29	2	
262265	3.61	< 2	< 10	351	< 0.5	< 2	0.68	26	133	7.34	10	< 1	1.83	21	2.16	0.148	0.064	0.18	3	17	29	0.28	4	
262266	2.78	< 2	< 10	273	< 0.5	< 2	1.37	22	112	4.57	10	< 1	1.16	26	1.66	0.119	0.050	0.24	< 2	11	24	0.21	2	
262267	3.27	< 2	< 10	247	< 0.5	< 2	0.73	23	128	7.05	10	< 1	0.94	26	2.06	0.098	0.064	0.23	3	13	21	0.19	3	
262268	2.76	< 2	< 10	250	< 0.5	< 2	0.59	24	154	4.60	10	< 1	0.99	24	2.01	0.101	0.052	0.10	< 2	13	16	0.18	5	
262269	3.44	< 2	< 10	232	< 0.5	< 2	1.75	25	146	5.68	10	< 1	1.02	23	2.26	0.115	0.057	0.11	2	13	34	0.16	< 1	
262270	3.47	< 2	< 10	257	< 0.5	< 2	0.68	25	136	8.19	10	< 1	1.38	22	1.99	0.082	0.058	0.23	3	16	14	0.20	2	
262271	0.02	< 2	11	29	< 0.5	< 2	14.0	< 1	< 1	0.05	< 10	< 1	0.01	< 10	11.0	0.020	0.003	< 0.01	< 2	< 1	117	< 0.01	< 1	
262272	3.46	2	< 10	284	< 0.5	< 2	0.64	26	173	6.67	10	< 1	1.26	23	2.42	0.090	0.061	0.10	3	16	15	0.19	3	
262273	3.44	< 2	< 10	282	0.5	< 2	1.21	22	122	9.46	10	< 1	0.99	22	1.95	0.081	0.066	0.17	3	15	18	0.15	3	
262274	3.69	< 2	< 10	180	< 0.5	< 2	0.98	26	107	6.41	10	< 1	1.08	22	1.97	0.057	0.069	0.12	2	10	11	0.16	1	

Results

Activation Laboratories Ltd.

Report: A16-07193

Analyte Symbol	Tl	U	V	W	Y	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
262413	< 2	< 10	114	< 10	10	26
262414	< 2	< 10	107	< 10	9	22
262415	< 2	< 10	104	< 10	9	18
262416	< 2	< 10	95	< 10	7	20
262417	< 2	< 10	114	< 10	8	26
262418	< 2	< 10	151	< 10	14	3
262419	< 2	< 10	171	< 10	17	3
262254	< 2	< 10	110	< 10	8	31
262255	< 2	< 10	113	< 10	8	30
262256	< 2	< 10	83	< 10	30	7
262257	< 2	< 10	120	< 10	11	24
262258	< 2	< 10	103	< 10	9	18
262259	< 2	< 10	111	< 10	8	24
262260	< 2	< 10	126	< 10	10	20
262261	< 2	< 10	96	< 10	9	5
262262	< 2	< 10	129	< 10	11	22
262263	< 2	< 10	83	< 10	12	14
262264	< 2	< 10	121	< 10	10	18
262265	< 2	< 10	146	< 10	10	20
262266	< 2	< 10	91	< 10	11	19
262267	< 2	< 10	114	< 10	10	18
262268	< 2	< 10	111	< 10	8	22
262269	< 2	< 10	101	< 10	8	17
262270	< 2	< 10	120	< 10	7	17
262271	< 2	< 10	< 1	< 10	< 1	< 1
262272	< 2	< 10	123	< 10	6	14
262273	< 2	< 10	119	< 10	9	13
262274	< 2	< 10	92	< 10	6	7

Analyte Symbol	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	
Unit Symbol	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	
Lower Limit	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	
Method Code	FA-AA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	
GXR-1 Meas		31.8	2.07	390	679	1	1370	0.89	2.8	8	15	1220	24.0	14	8	0.04	0.22	8	886	16	0.05	47	0.063	
GXR-1 Cert		31.0	3.52	427	750	1.22	1380	0.960	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520	41.0	0.0650	
GXR-1 Meas		33.3	2.12	415	711	1	1430	0.93	3.0	8	15	1280	25.2	14	5	0.05	0.22	9	927	17	0.05	50	0.069	
GXR-1 Cert		31.0	3.52	427	750	1.22	1380	0.960	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520	41.0	0.0650	
GXR-4 Meas		3.2	6.62	100	106	2	28	1.07	0.4	15	47	6410	3.00	19	< 1	2.08	1.70	13	163	320	0.54	44	0.126	
GXR-4 Cert		4.0	7.20	98.0	1640	1.90	19.0	1.01	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564	42.0	0.120	
GXR-4 Meas		3.3	6.92	100	98	2	14	1.09	0.3	15	48	6640	3.06	19	< 1	2.93	1.73	13	172	325	0.55	44	0.141	
GXR-4 Cert		4.0	7.20	98.0	1640	1.90	19.0	1.01	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564	42.0	0.120	
SDC-1 Meas			7.20	8	630	3		1.09		19	46	35	4.66	21	< 1	1.98	0.98	33	865		1.49	37	0.053	
SDC-1 Cert			8.34	0.220	630	3.00		1.00		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34.00	880.00		1.52	38.0	0.0690	
GXR-6 Meas		0.4	11.7	241	> 1000	1	< 2	0.20	< 0.3	15	47	73	5.65	28	< 1	1.88	0.62	33	1060		1	0.11	29	0.035
GXR-6 Cert		1.30	17.7	330	1300	1.40	0.290	0.180	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104	27.0	0.0350	
GXR-6 Meas		0.4	11.8	266	> 1000	1	< 2	0.19	< 0.3	16	63	73	5.83	29	1	2.15	0.62	33	1120		1	0.10	29	0.040
GXR-6 Cert		1.30	17.7	330	1300	1.40	0.290	0.180	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104	27.0	0.0350	
DNC-1a Meas					94					56	253	101		13					4				256	
DNC-1a Cert					118					57.0	270	100.00		15					5.20				247	
DNC-1a Meas					95					56	137	101		13					4				256	
DNC-1a Cert					118					57.0	270	100.00		15					5.20				247	
SBC-1 Meas				23	650	3	3	0.5		24	74	39		26					160		3		92	
SBC-1 Cert				25.7	788.0	3.20	0.70	0.40		22.7	109	31.0000		27.0					163.0		2.40		82.8	
SBC-1 Meas				22	723	3	< 2	0.6		24	90	35		26					159		2		91	
SBC-1 Cert				25.7	788.0	3.20	0.70	0.40		22.7	109	31.0000		27.0					163.0		2.40		82.8	
SdAR-M2 (U.S.G.S.) Meas					937	8	< 2		5.2	15	43	255		17	1				17		14		58	
SdAR-M2 (U.S.G.S.) Cert					990	6.6	1.05		5.1	12.4	49.6	236.0000		17.6	1.44				17.9		13.3		48.8	
SdAR-M2 (U.S.G.S.) Meas					966	8	< 2		5.4	15	42	261		17	< 1				18		12		61	
SdAR-M2 (U.S.G.S.) Cert					990	6.6	1.05		5.1	12.4	49.6	236.0000		17.6	1.44				17.9		13.3		48.8	
OxD128 Meas	402																							
OxD128 Cert	424.000																							
262256 Orig	8																							
262256 Dup	7																							
262261 Orig		< 0.3	7.31	141	478	< 1	< 2	3.98	< 0.3	14	34	55	4.88	14	< 1	0.84	1.40	8	946	4	2.56	26	0.053	
262261 Dup		< 0.3	7.24	144	476	< 1	< 2	3.96	< 0.3	14	36	48	4.84	15	1	0.84	1.40	8	933	3	2.57	27	0.052	
262266 Orig	8																							
262266 Dup	9																							
Method Blank	< 5																							
Method Blank	< 5																							
Method Blank		< 0.3	0.02	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	
Method Blank		< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		2	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	
Method Blank		< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	
Method Blank		< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	
Method Blank		< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	
Method Blank		< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	
Method Blank																								
Method Blank																								
Method Blank																								
Method Blank		< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	

Analyte Symbol	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Th	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn
Unit Symbol	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5	20	0.2	0.5	1	5	1	1	2	2
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	731	68	0.25	< 4	293	12	0.03	< 5	40	88	168	33	739	23	< 20	28.9	2.3	1130	748	13	31	597	660
GXR-1 Cert	730	122	0.257	1.58	275	13.0	0.036	0.390	34.9	80.0	164	32.0	760	38.0	2.44	31.0	3.30	1110	852	18.0	41.0	730	760
GXR-1 Meas	761	33	0.27	< 4	308	9	0.03	< 5	40	93	161	34	759	24	< 20	29.8	2.0	1150	840	13	35	616	683
GXR-1 Cert	730	122	0.257	1.58	275	13.0	0.036	0.390	34.9	80.0	164	32.0	760	38.0	2.44	31.0	3.30	1110	852	18.0	41.0	730	760
GXR-4 Meas	48	< 5	1.77	8	209	4	0.29	< 5	< 10	86	38	15	73	47	< 20	3.6	< 0.5	6360	134	275	39	39	70
GXR-4 Cert	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20	6.20	87.0	30.8	14.0	73.0	186	22.5	4.0	0.860	6520	155	310	42.0	52.0	73.0
GXR-4 Meas	44	< 5	1.84	8	212	2	0.30	< 5	< 10	88	39	16	73	48	< 20	3.4	< 0.5	6100	133	264	37	40	68
GXR-4 Cert	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20	6.20	87.0	30.8	14.0	73.0	186	22.5	4.0	0.860	6520	155	310	42.0	52.0	73.0
SDC-1 Meas	21	< 5		16	170		0.30	< 5	< 10	64	< 5		94	38									
SDC-1 Cert	25.00	0.54		17.00	180.00		0.606	0.70	3.10	102.00	0.80		103.00	290.00									
GXR-6 Meas	92	< 5	0.02	30	40	< 2		< 5	< 10	151	< 5	15	124	86	< 20	0.3	< 0.5	62	949	< 1	21	83	117
GXR-6 Cert	101	3.60	0.0160	27.6	35.0	0.0180		2.20	1.54	186	1.90	14.0	118	110	5.30	1.30	1.00	66.0	1010	2.40	27.0	101	118
GXR-6 Meas	97	< 5	0.02	32	41	< 2		< 5	< 10	158	< 5	15	131	90	< 20	0.3	< 0.5	67	1010	1	22	88	123
GXR-6 Cert	101	3.60	0.0160	27.6	35.0	0.0180		2.20	1.54	186	1.90	14.0	118	110	5.30	1.30	1.00	66.0	1010	2.40	27.0	101	118
DNC-1a Meas	4	< 5		31	129		0.30			140			17	54	36								
DNC-1a Cert	6.3	0.96		31	144.0		0.29			148.0000			18.0	70.0	38.0								
DNC-1a Meas	5	< 5		32	130		0.30			142			17	54	36								
DNC-1a Cert	6.3	0.96		31	144.0		0.29			148.0000			18.0	70.0	38.0								
SBC-1 Meas	29	< 5		22	178		0.52	< 5	< 10	217	< 5	37	177	119									
SBC-1 Cert	35.0	1.01		20.0	178.0		0.51	0.89	5.76	220.0	1.60	36.5	186.0	134.0									
SBC-1 Meas	27	< 5		22	178		0.53	< 5	< 10	218	< 5	38	182	122									
SBC-1 Cert	35.0	1.01		20.0	178.0		0.51	0.89	5.76	220.0	1.60	36.5	186.0	134.0									
SdAR-M2 (U.S.G.S.) Meas	816			4	146				< 10	27	10	31	784	65	< 20		5.4	247		12	49	819	825
SdAR-M2 (U.S.G.S.) Cert	808			4.1	144				2.53	25.2	2.8	32.7	760	259	14.2		5.1	236.0000		13.3	48.8	808	760
SdAR-M2 (U.S.G.S.) Meas	831			4	147				< 10	26	8	30	799	118	< 20		5.3	248		12	48	803	818
SdAR-M2 (U.S.G.S.) Cert	808			4.1	144				2.53	25.2	2.8	32.7	760	259	14.2		5.1	236.0000		13.3	48.8	808	760
OxD128 Meas																							
OxD128 Cert																							
262256 Orig																							
262256 Dup																							
262261 Orig	11	< 5	0.06	21	307	< 2	0.33	< 5	< 10	128	< 5	22	58	35	< 20	< 0.2	< 0.5	43	524	3	19	8	46
262261 Dup	12	< 5	0.06	21	305	< 2	0.33	< 5	< 10	127	< 5	22	59	34	< 20	< 0.2	< 0.5	45	533	3	19	8	47
262266 Orig																							
262266 Dup																							
Method Blank																							
Method Blank																							
Method Blank	< 3	< 5	< 0.01	< 4	3	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5									
Method Blank	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5									
Method Blank	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5									
Method Blank	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5									
Method Blank	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5									
Method Blank															< 20	< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2
Method Blank															< 20	< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2
Method Blank															< 20	< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2

Analyte Symbol	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Th	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn
Unit Symbol	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5	20	0.2	0.5	1	5	1	1	2	2
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5									

Analyte Symbol	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	0.36	387	< 10	358	0.8	1480	0.79	4	6	23.6	< 10	4	0.03	< 10	0.14	0.056	0.044	0.20	74	1	180	< 0.01	12
GXR-1 Cert	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	13.0
GXR-1 Meas	0.37	398	< 10	183	0.8	1510	0.82	6	8	24.1	< 10	4	0.03	< 10	0.14	0.054	0.046	0.20	81	1	181	< 0.01	11
GXR-1 Cert	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	13.0
GXR-4 Meas	2.73	102	< 10	30	1.3	21	0.90	13	55	3.18	10	< 1	1.61	53	1.65	0.135	0.123	1.68	3	7	68	0.13	1
GXR-4 Cert	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	0.970
GXR-4 Meas	2.81	97	< 10	21	1.3	16	0.90	13	52	3.05	10	< 1	1.63	49	1.60	0.152	0.117	1.64	3	7	72	0.13	2
GXR-4 Cert	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	0.970
SDC-1 Meas																							
SDC-1 Cert																							
GXR-6 Meas	7.12	200	< 10	1040	0.9	< 2	0.20	12	76	5.26	20	< 1	1.05	11	0.41	0.105	0.031	0.01	3	22	37		< 1
GXR-6 Cert	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180
GXR-6 Meas	7.42	244	< 10	845	0.9	< 2	0.16	13	81	5.60	20	< 1	1.11	12	0.42	0.088	0.034	0.01	4	23	31		< 1
GXR-6 Cert	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180
DNC-1a Meas																							
DNC-1a Cert																							
DNC-1a Meas																							
DNC-1a Cert																							
SBC-1 Meas																							
SBC-1 Cert																							
SBC-1 Meas																							
SBC-1 Cert																							
SdAR-M2 (U.S.G.S.) Meas				127	5.0	< 2		13	10		< 10	1		47						2	21		
SdAR-M2 (U.S.G.S.) Cert				990	6.6	1.05		12.4	49.6		17.6	1.44		46.6						4.1	144		
SdAR-M2 (U.S.G.S.) Meas				123	5.0	< 2		13	10		< 10	1		47						2	21		
SdAR-M2 (U.S.G.S.) Cert				990	6.6	1.05		12.4	49.6		17.6	1.44		46.6						4.1	144		
OxD128 Meas																							
OxD128 Cert																							
262256 Orig																							
262256 Dup																							
262261 Orig	2.32	157	< 10	101	< 0.5	< 2	1.65	9	30	3.76	< 10	< 1	0.13	< 10	0.77	0.234	0.045	0.05	< 2	7	78	0.16	< 1
262261 Dup	2.39	162	< 10	105	< 0.5	< 2	1.65	9	31	3.87	< 10	< 1	0.14	< 10	0.78	0.239	0.046	0.05	2	7	79	0.17	< 1
262266 Orig																							
262266 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1
Method Blank	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1
Method Blank	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1
Method Blank																							

Analyte Symbol	Tl	U	V	W	Y	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	< 2	31	79	132	24	14
GXR-1 Cert	0.390	34.9	80.0	164	32.0	38.0
GXR-1 Meas	< 2	32	81	140	24	15
GXR-1 Cert	0.390	34.9	80.0	164	32.0	38.0
GXR-4 Meas	< 2	< 10	81	11	11	10
GXR-4 Cert	3.20	6.20	87.0	30.8	14.0	186
GXR-4 Meas	< 2	< 10	77	14	11	11
GXR-4 Cert	3.20	6.20	87.0	30.8	14.0	186
SDC-1 Meas						
SDC-1 Cert						
GXR-6 Meas	< 2	< 10	167	< 10	6	7
GXR-6 Cert	2.20	1.54	186	1.90	14.0	110
GXR-6 Meas	< 2	< 10	179	< 10	6	9
GXR-6 Cert	2.20	1.54	186	1.90	14.0	110
DNC-1a Meas						
DNC-1a Cert						
DNC-1a Meas						
DNC-1a Cert						
SBC-1 Meas						
SBC-1 Cert						
SBC-1 Meas						
SBC-1 Cert						
SdAR-M2 (U.S.G.S.) Meas		< 10	20	< 10	18	7
SdAR-M2 (U.S.G.S.) Cert		2.53	25.2	2.8	32.7	259
SdAR-M2 (U.S.G.S.) Meas		< 10	20	< 10	18	7
SdAR-M2 (U.S.G.S.) Cert		2.53	25.2	2.8	32.7	259
OxD128 Meas						
OxD128 Cert						
262256 Orig						
262256 Dup						
262261 Orig	< 2	< 10	95	< 10	9	5
262261 Dup	< 2	< 10	97	< 10	9	4
262266 Orig						
262266 Dup						
Method Blank						
Method Blank						
Method Blank						
Method Blank						
Method Blank						
Method Blank						
Method Blank						
Method Blank	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank						



Date Submitted: 20-Jul-16
Invoice No.: A16-07016
Invoice Date: 29-Jul-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

15 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1E3-Tbay Aqua Regia ICP(AQUAGEO)

Code 1F2-Tbay Total Digestion ICP(TOTAL)

REPORT **A16-07016**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is written over a horizontal line.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Date Submitted: 20-Jul-16
Invoice No.: A16-07016
Invoice Date: 29-Jul-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

15 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-50-Geraldton Au - Fire Assay AA

REPORT **A16-07016**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.



CERTIFIED BY:

A handwritten signature in black ink, appearing to read "Emmanuel Esemé".

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
801 Main Street, P.O. Box 999, Geraldton, Ontario, Canada, P0T 1M0
TELEPHONE +807 854-2020 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Geraldton@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
262122	< 5	< 0.2	< 0.5	50	404	< 1	52	< 2	38	1.35	3	13	122	< 0.5	< 2	1.84	14	70	2.83	< 10	< 1	0.38	15
262123	< 5	< 0.2	< 0.5	54	490	< 1	52	< 2	39	1.37	5	11	81	< 0.5	< 2	2.58	15	69	2.89	< 10	< 1	0.20	15
262124	< 5	< 0.2	< 0.5	46	548	< 1	38	3	47	2.02	3	< 10	94	< 0.5	< 2	2.75	17	63	4.15	< 10	< 1	0.25	11
262125	7	< 0.2	< 0.5	57	609	< 1	32	< 2	65	3.55	13	< 10	98	< 0.5	< 2	3.23	22	60	5.34	10	< 1	0.31	11
262126	7	< 0.2	< 0.5	127	624	< 1	24	< 2	34	2.23	7	< 10	21	< 0.5	< 2	2.93	25	92	4.36	< 10	< 1	0.10	< 10
262127	8	< 0.2	< 0.5	138	639	< 1	29	< 2	35	2.07	14	< 10	16	< 0.5	4	3.50	28	103	4.26	< 10	< 1	0.08	< 10
262128	6	< 0.2	< 0.5	140	620	< 1	35	< 2	38	2.78	7	< 10	11	< 0.5	3	3.50	28	112	4.64	< 10	2	0.06	< 10
262129	7	< 0.2	< 0.5	107	557	< 1	28	< 2	33	2.92	15	< 10	< 10	< 0.5	< 2	3.45	25	97	3.87	< 10	< 1	0.05	< 10
262130	10	< 0.2	< 0.5	107	497	< 1	28	< 2	32	2.84	16	< 10	< 10	< 0.5	< 2	3.19	25	102	4.04	< 10	< 1	0.05	< 10
262131	> 5000	7.9	12.7	1270	581	76	46	201	2260	1.54	76	< 10	11	< 0.5	< 2	1.14	9	25	6.96	< 10	< 1	0.21	12
262132	8	< 0.2	< 0.5	74	518	< 1	78	2	53	1.70	30	< 10	24	< 0.5	3	2.85	23	64	4.33	< 10	< 1	0.12	14
262133	9	< 0.2	< 0.5	116	660	< 1	63	< 2	48	2.13	132	< 10	20	< 0.5	< 2	4.08	38	105	5.06	< 10	< 1	0.09	< 10
262134	8	< 0.2	< 0.5	33	466	< 1	51	< 2	25	1.68	84	< 10	22	< 0.5	< 2	2.41	38	160	3.19	< 10	< 1	0.10	< 10
262135	7	< 0.2	< 0.5	33	470	< 1	55	< 2	28	1.63	128	< 10	30	< 0.5	< 2	2.20	41	187	3.27	< 10	< 1	0.18	< 10
262136	40	< 0.2	< 0.5	196	611	< 1	95	< 2	42	2.89	201	< 10	18	< 0.5	< 2	3.56	43	97	4.81	< 10	< 1	0.12	< 10

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.3	0.01	3	7	1	2	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262122	1.27	0.166	0.059	< 0.01	3	10	15	0.16	< 20	6	< 2	< 10	58	< 10	13	14	0.5	5.95	10	140	< 1	5	4.18
262123	1.24	0.159	0.057	0.01	2	11	17	0.18	< 20	5	< 2	< 10	61	< 10	14	15	0.4	6.49	< 3	121	< 1	3	4.72
262124	1.46	0.241	0.061	0.03	3	13	22	0.17	< 20	4	< 2	< 10	88	< 10	12	7	< 0.3	7.33	< 3	116	< 1	6	5.30
262125	1.63	0.349	0.070	0.06	9	14	79	0.18	< 20	7	< 2	< 10	100	< 10	12	3	< 0.3	7.47	13	146	< 1	< 2	5.37
262126	1.84	0.290	0.033	0.08	5	22	20	0.16	< 20	4	< 2	< 10	131	< 10	10	2	< 0.3	7.57	5	24	< 1	4	6.66
262127	1.73	0.260	0.030	0.16	< 2	20	18	0.15	< 20	< 1	< 2	< 10	118	< 10	9	2	< 0.3	7.21	6	22	< 1	5	7.25
262128	1.84	0.376	0.031	0.26	2	21	40	0.17	< 20	4	< 2	< 10	125	< 10	9	2	< 0.3	7.48	< 3	14	< 1	5	7.36
262129	1.72	0.367	0.029	0.06	< 2	17	43	0.15	< 20	8	< 2	< 10	104	< 10	8	1	< 0.3	7.45	9	12	< 1	4	7.60
262130	1.87	0.328	0.029	0.06	3	19	37	0.15	< 20	4	< 2	< 10	112	< 10	8	2	< 0.3	7.45	10	13	< 1	5	7.21
262131	1.72	0.063	0.041	4.18	17	4	62	0.05	< 20	5	< 2	< 10	48	11	5	8	6.5	5.34	67	122	< 1	3	1.48
262132	1.39	0.194	0.059	0.47	4	12	16	0.13	< 20	< 1	< 2	< 10	68	< 10	14	10	0.3	4.65	27	39	< 1	5	5.00
262133	1.91	0.231	0.035	0.31	4	21	17	0.15	< 20	< 1	< 2	< 10	139	< 10	11	3	< 0.3	6.72	92	43	< 1	4	7.17
262134	2.02	0.177	0.026	0.01	3	15	13	0.12	< 20	10	< 2	< 10	88	< 10	6	2	< 0.3	6.46	31	50	< 1	4	7.07
262135	2.22	0.148	0.018	0.01	5	15	10	0.11	< 20	< 1	< 2	< 10	82	< 10	5	2	< 0.3	6.44	60	44	< 1	3	6.95
262136	2.47	0.270	0.054	0.05	7	15	27	0.10	< 20	14	< 2	< 10	99	10	9	4	0.3	7.68	145	29	< 1	3	7.25

Analyte Symbol	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262122	< 0.3	28	105	48	4.87	16	5	0.38	2.23	9	842	< 1	2.70	99	0.059	< 3	< 5	0.02	17	181	10	0.42	< 5
262123	< 0.3	25	107	48	4.48	17	< 1	0.27	1.99	12	830	< 1	2.60	92	0.054	< 3	< 5	0.02	19	166	4	0.35	< 5
262124	0.4	30	82	44	6.62	17	< 1	0.31	2.37	13	1080	< 1	2.36	71	0.053	5	< 5	0.03	22	242	34	0.13	< 5
262125	< 0.3	31	72	57	7.52	17	< 1	0.48	2.30	22	1080	< 1	1.61	55	0.060	< 3	< 5	0.06	24	262	16	0.12	< 5
262126	0.5	45	114	127	8.88	15	< 1	0.17	3.88	14	1500	< 1	2.17	55	0.030	3	< 5	0.08	47	176	16	0.49	< 5
262127	< 0.3	47	119	134	8.68	14	< 1	0.15	3.74	14	1440	< 1	2.05	55	0.029	< 3	< 5	0.16	45	139	9	0.54	< 5
262128	< 0.3	48	128	133	9.16	14	< 1	0.13	3.81	14	1410	< 1	1.74	60	0.030	< 3	< 5	0.26	47	174	19	0.56	< 5
262129	0.5	50	169	117	9.08	14	< 1	0.13	4.16	14	1420	< 1	1.49	69	0.028	< 3	< 5	0.07	45	132	12	0.49	< 5
262130	0.5	47	134	111	9.11	13	< 1	0.13	4.37	21	1310	< 1	1.54	62	0.028	< 3	< 5	0.06	46	128	3	0.48	< 5
262131	12.4	12	27	1180	6.90	13	< 1	1.29	1.82	12	576	83	1.27	57	0.040	200	11	4.04	12	187	18	0.18	7
262132	< 0.3	29	104	69	6.30	16	< 1	0.16	1.88	16	988	< 1	2.47	98	0.054	5	< 5	0.43	8	116	12	0.42	5
262133	0.8	48	186	110	8.62	16	< 1	0.18	3.53	14	1350	< 1	2.03	91	0.030	4	< 5	0.30	42	135	15	0.27	< 5
262134	< 0.3	54	319	33	8.08	13	< 1	0.22	5.53	11	1380	< 1	1.74	108	0.020	3	12	0.01	48	119	4	0.23	< 5
262135	0.4	55	354	33	8.18	11	< 1	0.27	5.92	13	1450	< 1	1.74	114	0.016	< 3	< 5	0.01	49	110	6	0.27	< 5
262136	0.6	54	189	195	8.89	17	< 1	0.26	4.65	18	1370	< 1	1.64	146	0.049	< 3	< 5	0.05	35	117	8	0.42	< 5

Analyte Symbol	U	V	W	Y	Zn	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne
Lower Limit	10	2	5	1	1	5	0.02
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	FA-GRA
262122	< 10	108	< 5	23	69	149	
262123	< 10	95	< 5	24	63	130	
262124	< 10	53	< 5	22	80	40	
262125	< 10	46	< 5	23	99	16	
262126	< 10	259	< 5	23	74	31	
262127	< 10	261	< 5	21	76	35	
262128	< 10	271	< 5	20	80	30	
262129	< 10	249	< 5	21	78	18	
262130	< 10	252	< 5	20	79	23	
262131	< 10	73	18	11	2280	45	6.09
262132	< 10	121	< 5	17	85	123	
262133	< 10	185	< 5	23	89	21	
262134	< 10	191	< 5	17	60	34	
262135	< 10	194	< 5	16	65	33	
262136	< 10	200	7	21	77	64	

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas		29.9	3.3	1170	816	14	20	664	664	0.36	405	< 10	328	0.8	1480	0.81	4	8	24.1	< 10	2	0.03	< 10
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50
GXR-4 Meas		3.5	< 0.5	6530	141	367	34	43	66	2.85	100	< 10	24	1.4	20	0.95	15	57	3.25	10	< 1	1.72	49
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5
SDC-1 Meas																							
SDC-1 Cert																							
GXR-6 Meas		0.3	< 0.5	74	1070	2	19	99	117	7.44	231	< 10	913	0.9	< 2	0.14	14	83	6.32	20	< 1	1.20	10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
OREAS 14P Meas																							
OREAS 14P Cert																							
DNC-1a Meas																							
DNC-1a Cert																							
OxP 91 Meas																							
OxP 91 Cert																							
SBC-1 Meas																							
SBC-1 Cert																							
OxK110 Meas																							
OxK110 Cert																							
SdAR-M2 (U.S.G.S.) Meas			5.1	248		14	44	881	782				148	5.0	< 2		13	10		< 10	2		49
SdAR-M2 (U.S.G.S.) Cert			5.1	236.0000		13.3	48.8	808	760				990	6.6	1.05		12.4	49.6		17.6	1.44		46.6
OxD128 Meas	407																						
OxD128 Cert	424.000																						
262125 Orig		< 0.2	< 0.5	56	604	< 1	31	< 2	64	3.49	13	< 10	97	< 0.5	< 2	3.20	23	59	5.27	10	< 1	0.31	11
262125 Dup		< 0.2	< 0.5	57	615	< 1	33	< 2	66	3.61	13	< 10	98	< 0.5	< 2	3.25	22	60	5.41	10	< 1	0.31	11
262132 Orig	6																						
262132 Dup	9																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.3	0.01	3	7	1	2	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	0.14	0.047	0.047	0.21	83	1	178	< 0.01	< 20	15	< 2	33	74	145	24	15	31.6	2.15	415	653	1	1390	0.85
GXR-1 Cert	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0	0.390	34.9	80.0	164	32.0	38.0	31.0	3.52	427	750	1.22	1380	0.960
GXR-4 Meas	1.71	0.129	0.131	1.77	4	8	73	0.14	< 20	3	7	< 10	79	12	11	10	3.4	6.55	92	268	2	7	1.06
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970	3.20	6.20	87.0	30.8	14.0	186	4.0	7.20	98.0	1640	1.90	19.0	1.01
SDC-1 Meas																		7.98	< 3	630	3		1.11
SDC-1 Cert																		8.34	0.220	630	3.00		1.00
GXR-6 Meas	0.43	0.070	0.037	0.01	8	22	28	< 20	< 1	< 2	< 10	167	< 10	5	7	0.5	12.1	265	> 1000	1	< 2	0.16	
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0	5.30	0.0180	2.20	1.54	186	1.90	14.0	110	1.30	17.7	330	1300	1.40	0.290	0.180	
OREAS 14P Meas																							
OREAS 14P Cert																							
DNC-1a Meas																				96			
DNC-1a Cert																				118			
OxP 91 Meas																							
OxP 91 Cert																							
SBC-1 Meas																			27	757	3	5	
SBC-1 Cert																			25.7	788.0	3.20	0.70	
OxK110 Meas																							
OxK110 Cert																							
SdAR-M2 (U.S.G.S.) Meas						3	23	< 20			< 10	19	< 10	18	7					999	8	< 2	
SdAR-M2 (U.S.G.S.) Cert						4.1	144	14.2			2.53	25.2	2.8	32.7	259					990	6.6	1.05	
OxD128 Meas																							
OxD128 Cert																							
262125 Orig	1.61	0.346	0.069	0.06	8	14	78	0.18	< 20	10	< 2	< 10	100	< 10	12	3	< 0.3	7.45	5	146	< 1	4	5.39
262125 Dup	1.65	0.352	0.071	0.07	11	14	79	0.18	< 20	4	< 2	< 10	100	< 10	12	3	< 0.3	7.48	21	145	< 1	< 2	5.35
262132 Orig																							
262132 Dup																							
Method Blank																							
Method Blank																							
Method Blank	< 0.01	< 0.001	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank	< 0.01	< 0.001	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																							

Analyte Symbol	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	
Lower Limit	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5	
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	
GXR-1 Meas	3.0	7	18	1170	23.3	10	2	0.04	0.20	7	857	17	0.05	47	0.059	722	63	0.25	< 4	284	39	0.03	5	
GXR-1 Cert	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520	41.0	0.0650	730	122	0.257	1.58	275	13.0	0.036	0.390	
GXR-4 Meas	0.4	16	54	6460	3.03	16	< 1	3.15	1.67	11	154	335	0.55	36	0.130	49	6	1.78	8	215	< 2	0.29	< 5	
GXR-4 Cert	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564	42.0	0.120	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20	
SDC-1 Meas		19	61	34	4.81	21	< 1	2.48	1.01	34	887		1.53	40	0.057	28	< 5		17	177		0.21	9	
SDC-1 Cert		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34.00	880.00		1.52	38.0	0.0690	25.00	0.54		17.00	180.00		0.606	0.70	
GXR-6 Meas	0.5	15	68	73	5.84	29	< 1	1.74	0.59	34	1100	3	0.10	30	0.036	99	< 5	0.02	27	36	11		< 5	
GXR-6 Cert	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104	27.0	0.0350	101	3.60	0.0160	27.6	35.0	0.0180		2.20	
OREAS 14P Meas		645		9180	31.7									> 10000										
OREAS 14P Cert		750		9970	37.2									21000										
DNC-1a Meas		56	130	103		9				5				261		10	< 5		31	132		0.29		
DNC-1a Cert		57.0	270	100.00		15				5.20				247		6.3	0.96		31	144.0		0.29		
OxP 91 Meas																								
OxP 91 Cert																								
SBC-1 Meas	< 0.3	25	95	38		26				165		1		89		28	< 5		20	178		0.52	< 5	
SBC-1 Cert	0.40	22.7	109	31.0000		27.0				163.0		2.40		82.8		35.0	1.01		20.0	178.0		0.51	0.89	
OxK110 Meas																								
OxK110 Cert																								
SdAR-M2 (U.S.G.S.) Meas	5.2	15	35	274		17	3			17		16		71		818			4	147				
SdAR-M2 (U.S.G.S.) Cert	5.1	12.4	49.6	236.0000		17.6	1.44			17.9		13.3		48.8		808			4.1	144				
OxD128 Meas																								
OxD128 Cert																								
262125 Orig	< 0.3	32	71	58	7.57	16	< 1	0.48	2.31	22	1090	< 1	1.62	58	0.061	< 3	< 5	0.06	24	265	10	0.12	< 5	
262125 Dup	< 0.3	30	74	55	7.47	17	2	0.47	2.28	22	1080	< 1	1.59	52	0.060	6	< 5	0.06	24	260	23	0.12	< 5	
262132 Orig																								
262132 Dup																								
Method Blank																								
Method Blank																								
Method Blank																								
Method Blank																								
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	
Method Blank																								

Analyte Symbol	U	V	W	Y	Zn	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne
Lower Limit	10	2	5	1	1	5	0.02
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	FA-GRA
GXR-1 Meas	40	85	163	33	733	30	
GXR-1 Cert	34.9	80.0	164	32.0	760	38.0	
GXR-4 Meas	< 10	87	32	15	69	47	
GXR-4 Cert	6.20	87.0	30.8	14.0	73.0	186	
SDC-1 Meas	< 10	47	< 5		99	36	
SDC-1 Cert	3.10	102.00	0.80		103.00	290.00	
GXR-6 Meas	< 10	146	< 5	12	129	72	
GXR-6 Cert	1.54	186	1.90	14.0	118	110	
OREAS 14P Meas							
OREAS 14P Cert							
DNC-1a Meas		143		16	59	36	
DNC-1a Cert		148.0000		18.0	70.0	38.0	
OxP 91 Meas							14.9
OxP 91 Cert							14.82
SBC-1 Meas	< 10	216	< 5	33	182	119	
SBC-1 Cert	5.76	220.0	1.60	36.5	186.0	134.0	
OxK110 Meas							3.57
OxK110 Cert							3.602
SdAR-M2 (U.S.G.S.) Meas	< 10	26	10	30	781	121	
SdAR-M2 (U.S.G.S.) Cert	2.53	25.2	2.8	32.7	760	259	
OxD128 Meas							
OxD128 Cert							
262125 Orig	< 10	48	< 5	23	99	15	
262125 Dup	< 10	45	< 5	23	98	17	
262132 Orig							
262132 Dup							
Method Blank							
Method Blank							
Method Blank							
Method Blank							
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5	
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5	
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5	
Method Blank							< 0.02



Date Submitted: 20-Jul-16
Invoice No.: A16-07013
Invoice Date: 29-Jul-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

34 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-50-Geraldton Au - Fire Assay AA

REPORT **A16-07013**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.



CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé".

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
801 Main Street, P.O. Box 999, Geraldton, Ontario, Canada, P0T 1M0
TELEPHONE +807 854-2020 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Geraldton@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Date Submitted: 20-Jul-16
Invoice No.: A16-07013
Invoice Date: 29-Jul-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

34 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1E3-Tbay Aqua Regia ICP(AQUAGEO)

Code 1F2-Tbay Total Digestion ICP(TOTAL)

REPORT **A16-07013**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:



Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
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E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A16-07013

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
262088	6	< 0.2	< 0.5	51	668	< 1	85	< 2	71	2.76	15	< 10	532	< 0.5	< 2	1.16	24	275	4.82	10	< 1	1.93	32
262089	6	< 0.2	< 0.5	54	545	< 1	88	2	69	2.62	11	< 10	654	< 0.5	< 2	0.49	25	252	4.63	10	< 1	1.85	29
262090	6	< 0.2	< 0.5	52	675	< 1	89	3	73	3.02	10	< 10	693	< 0.5	< 2	0.81	25	251	4.97	10	< 1	2.20	28
262091	> 5000	7.2	13.0	1250	577	76	45	198	2220	1.53	70	< 10	19	< 0.5	< 2	1.13	10	25	6.97	< 10	< 1	0.21	12
262092	7	0.3	< 0.5	61	666	1	98	5	77	3.43	16	< 10	460	< 0.5	< 2	0.89	26	211	5.03	20	< 1	2.20	24
262093	19	0.3	< 0.5	52	599	< 1	83	4	70	3.00	39	< 10	582	< 0.5	< 2	0.75	25	258	4.68	10	< 1	1.98	32
262094	107	< 0.2	< 0.5	50	516	< 1	91	3	65	2.83	131	< 10	561	< 0.5	< 2	1.16	24	269	4.24	10	< 1	1.81	26
262095	5	0.2	< 0.5	57	592	1	92	4	74	3.25	18	< 10	666	< 0.5	< 2	0.51	26	230	4.90	10	< 1	1.93	24
262096	6	0.2	< 0.5	61	536	< 1	91	2	66	2.86	17	< 10	602	< 0.5	< 2	0.47	26	223	4.78	10	< 1	1.72	25
262097	7	0.2	< 0.5	51	400	< 1	89	3	63	2.54	18	< 10	740	< 0.5	< 2	0.44	25	234	4.36	10	< 1	1.63	25
262098	6	< 0.2	< 0.5	57	392	< 1	81	2	60	2.30	11	< 10	492	< 0.5	< 2	0.91	23	231	3.99	10	< 1	1.54	28
262099	6	< 0.2	< 0.5	51	266	< 1	81	4	54	2.00	24	< 10	415	< 0.5	< 2	0.63	25	310	3.47	10	< 1	1.27	27
262100	< 5	< 0.2	< 0.5	52	523	< 1	91	3	69	2.56	11	< 10	675	< 0.5	< 2	0.43	25	232	4.50	10	< 1	1.81	23
262101	< 5	< 0.2	< 0.5	< 1	235	< 1	< 1	6	7	0.04	< 2	34	102	< 0.5	< 2	13.8	< 1	< 1	0.07	< 10	< 1	0.03	< 10
262102	< 5	< 0.2	< 0.5	54	461	< 1	83	3	64	2.26	7	< 10	663	< 0.5	< 2	0.68	23	221	4.03	10	< 1	1.56	29
262103	< 5	< 0.2	< 0.5	49	327	< 1	74	< 2	57	2.07	9	< 10	642	< 0.5	< 2	0.56	21	210	3.62	10	< 1	1.45	28
262104	12	< 0.2	< 0.5	48	263	< 1	77	3	58	2.03	13	< 10	749	< 0.5	< 2	0.39	23	229	3.59	10	< 1	1.45	24
262105	13	< 0.2	< 0.5	70	406	1	97	< 2	56	2.37	17	< 10	495	< 0.5	< 2	1.02	26	313	4.04	10	< 1	1.41	25
262106	11	< 0.2	< 0.5	70	487	< 1	132	< 2	52	3.54	48	< 10	588	< 0.5	2	1.78	31	390	4.55	10	< 1	1.77	20
262107	7	< 0.2	< 0.5	50	545	< 1	96	3	68	2.65	26	< 10	476	< 0.5	< 2	0.67	24	248	4.44	10	< 1	1.73	26
262108	8	< 0.2	< 0.5	36	508	< 1	57	6	53	3.05	13	< 10	216	< 0.5	< 2	2.08	16	147	3.30	10	< 1	1.60	28
262109	8	< 0.2	< 0.5	36	495	< 1	44	6	52	3.42	5	< 10	149	< 0.5	< 2	2.04	16	126	3.23	10	< 1	1.60	27
262110	11	0.2	< 0.5	69	504	< 1	106	3	56	3.15	20	< 10	534	< 0.5	< 2	1.04	28	326	4.33	10	< 1	1.54	23
262111	< 5	< 0.2	< 0.5	< 1	242	< 1	< 1	3	9	0.04	< 2	11	219	< 0.5	< 2	14.0	< 1	1	0.08	< 10	< 1	0.03	< 10
262112	9	0.2	< 0.5	56	658	< 1	88	5	71	3.31	13	< 10	495	< 0.5	< 2	0.65	25	263	4.73	10	< 1	2.11	28
262113	8	< 0.2	< 0.5	53	501	< 1	92	2	66	2.70	14	< 10	583	< 0.5	< 2	0.35	27	284	4.52	10	< 1	1.73	24
262114	8	< 0.2	< 0.5	65	693	< 1	101	3	78	3.78	21	< 10	327	< 0.5	< 2	0.52	29	225	5.48	10	< 1	2.43	24
262115	8	< 0.2	< 0.5	50	546	< 1	84	< 2	61	3.04	9	< 10	513	< 0.5	< 2	1.15	24	239	4.22	10	< 1	1.89	26
262116	5	< 0.2	< 0.5	53	520	< 1	84	5	71	2.64	7	< 10	581	< 0.5	< 2	0.57	24	231	4.58	10	< 1	1.66	29
262117	6	0.2	< 0.5	70	341	< 1	107	3	42	2.11	57	< 10	379	< 0.5	< 2	1.22	31	410	3.41	< 10	< 1	0.95	19
262118	8	0.2	< 0.5	58	478	< 1	89	5	64	2.44	12	< 10	651	< 0.5	< 2	0.59	25	277	4.41	10	< 1	1.53	29
262119	16	0.3	< 0.5	56	628	1	102	3	76	3.64	31	< 10	521	< 0.5	< 2	0.51	28	239	5.23	20	< 1	2.24	27
262120	13	< 0.2	< 0.5	60	490	1	86	2	82	2.84	17	< 10	254	< 0.5	< 2	0.86	26	191	4.74	10	< 1	1.57	28
262121	477	< 0.2	< 0.5	44	541	4	14	10	42	2.36	154	< 10	120	< 0.5	< 2	1.63	9	30	3.79	< 10	< 1	0.15	< 10

Results

Activation Laboratories Ltd.

Report: A16-07013

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.3	0.01	3	7	1	2	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262088	2.18	0.147	0.069	0.23	8	14	40	0.29	< 20	8	3	< 10	103	< 10	9	33	0.4	7.23	15	503	1	2	2.93
262089	2.08	0.132	0.072	0.20	7	15	24	0.30	< 20	2	< 2	< 10	105	< 10	8	41	0.3	7.73	8	613	1	2	2.43
262090	2.15	0.122	0.074	0.17	6	17	23	0.32	< 20	< 1	< 2	< 10	110	< 10	9	40	< 0.3	7.67	6	706	1	< 2	2.49
262091	1.71	0.065	0.041	4.06	15	4	62	0.05	< 20	1	< 2	< 10	48	12	5	8	8.2	5.31	69	192	< 1	< 2	1.48
262092	2.07	0.198	0.075	0.23	8	17	41	0.33	< 20	2	< 2	< 10	117	< 10	9	35	0.4	7.76	16	799	1	2	2.58
262093	2.11	0.158	0.072	0.24	8	16	45	0.29	< 20	2	< 2	< 10	102	< 10	9	35	0.4	7.50	28	679	1	< 2	2.45
262094	2.07	0.180	0.067	0.22	12	13	52	0.27	< 20	6	< 2	< 10	97	< 10	8	35	< 0.3	7.57	104	640	1	< 2	2.81
262095	2.31	0.184	0.074	0.18	7	18	46	0.28	< 20	< 1	< 2	< 10	115	< 10	8	37	0.3	7.93	11	646	1	< 2	2.23
262096	2.30	0.122	0.073	0.17	7	17	30	0.24	< 20	7	< 2	< 10	110	< 10	7	41	0.4	7.76	16	621	1	3	2.07
262097	2.19	0.132	0.074	0.15	6	15	28	0.25	< 20	< 1	< 2	< 10	110	< 10	8	41	0.4	3.65	16	718	1	2	1.75
262098	2.05	0.157	0.079	0.20	8	10	51	0.25	< 20	8	< 2	< 10	96	< 10	7	40	0.5	6.71	12	454	1	3	2.96
262099	1.88	0.147	0.079	0.14	9	10	41	0.21	< 20	< 1	< 2	< 10	103	< 10	8	21	0.5	7.20	22	376	< 1	2	2.67
262100	2.07	0.147	0.064	0.16	7	16	29	0.28	< 20	7	< 2	< 10	109	< 10	8	34	< 0.3	7.76	14	653	1	3	2.04
262101	10.3	0.019	0.003	< 0.01	< 2	< 1	94	< 0.01	< 20	< 1	< 2	< 10	1	< 10	< 1	< 1	< 0.3	0.07	4	98	< 1	< 2	18.1
262102	1.96	0.151	0.070	0.19	6	13	36	0.25	< 20	4	< 2	< 10	98	< 10	8	34	< 0.3	7.61	14	633	1	2	2.57
262103	1.91	0.154	0.071	0.14	5	11	36	0.23	< 20	4	< 2	< 10	93	< 10	8	23	0.4	7.95	7	646	1	3	2.33
262104	1.93	0.163	0.074	0.15	7	11	34	0.26	< 20	6	2	< 10	96	< 10	8	44	0.4	7.90	16	775	1	3	2.14
262105	2.09	0.187	0.070	0.18	12	12	48	0.22	< 20	< 1	< 2	< 10	101	< 10	8	21	0.4	7.54	9	485	1	< 2	3.18
262106	2.86	0.304	0.077	0.11	18	11	128	0.23	< 20	3	4	< 10	108	< 10	7	25	0.3	7.31	40	552	1	3	4.02
262107	1.98	0.183	0.067	0.20	7	14	36	0.26	< 20	3	< 2	< 10	103	< 10	8	28	0.4	4.18	23	449	1	< 2	2.01
262108	1.49	0.287	0.079	0.13	4	8	93	0.22	< 20	8	< 2	< 10	65	< 10	8	26	0.3	6.71	21	622	2	< 2	3.21
262109	1.44	0.390	0.080	0.13	5	8	130	0.23	< 20	7	< 2	< 10	63	< 10	8	32	0.4	7.44	< 3	632	2	2	3.35
262110	2.39	0.241	0.074	0.14	19	14	60	0.25	< 20	18	12	< 10	113	< 10	8	35	0.4	7.70	17	537	1	3	3.06
262111	10.0	0.020	0.003	0.01	< 2	< 1	102	< 0.01	< 20	2	< 2	< 10	1	< 10	< 1	< 1	< 0.3	0.08	< 3	217	< 1	< 2	18.6
262112	2.25	0.214	0.068	0.18	7	17	44	0.30	< 20	3	< 2	< 10	110	< 10	9	39	0.4	7.59	< 3	501	1	< 2	2.42
262113	2.21	0.152	0.067	0.21	9	17	26	0.27	< 20	5	< 2	< 10	110	< 10	7	38	< 0.3	7.47	19	588	1	2	2.00
262114	2.28	0.158	0.074	0.21	9	14	38	0.32	< 20	2	< 2	< 10	103	< 10	9	41	< 0.3	8.03	9	530	1	2	1.67
262115	2.08	0.198	0.081	0.15	9	13	54	0.27	< 20	1	< 2	< 10	92	< 10	8	33	0.4	7.61	17	570	1	2	2.96
262116	1.97	0.183	0.071	0.23	7	16	34	0.26	< 20	10	< 2	< 10	108	< 10	9	31	0.5	7.66	4	656	1	< 2	2.37
262117	2.40	0.174	0.081	0.06	22	9	37	0.19	< 20	4	< 2	< 10	95	< 10	6	30	0.4	4.72	48	346	< 1	< 2	3.65
262118	1.99	0.162	0.072	0.24	10	15	29	0.25	< 20	6	2	< 10	109	< 10	9	43	0.4	7.64	14	693	1	3	2.43
262119	2.33	0.195	0.076	0.19	20	17	40	0.29	< 20	< 1	< 2	< 10	114	< 10	7	42	0.4	7.87	21	509	1	4	1.96
262120	1.77	0.091	0.075	0.38	35	10	29	0.18	< 20	3	< 2	< 10	80	< 10	7	38	0.4	7.31	13	456	1	< 2	1.75
262121	0.79	0.215	0.050	0.05	5	8	82	0.17	< 20	< 1	< 2	< 10	91	< 10	9	5	< 0.3	7.42	114	444	< 1	< 2	3.82

Results

Activation Laboratories Ltd.

Report: A16-07013

Analyte Symbol	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262088	< 0.3	26	255	49	4.49	16	< 1	1.67	2.11	44	741	1	2.13	90	0.063	17	< 5	0.20	17	437	8	0.34	< 5
262089	< 0.3	26	203	51	4.46	17	< 1	1.50	2.06	44	646	2	2.48	93	0.067	19	< 5	0.19	17	429	9	0.35	< 5
262090	< 0.3	27	183	53	4.60	20	< 1	1.78	2.06	50	673	< 1	2.41	98	0.068	16	< 5	0.16	17	371	4	0.30	< 5
262091	12.6	11	25	1190	6.77	12	< 1	1.27	1.79	11	578	83	1.25	58	0.041	195	6	4.04	12	191	16	0.18	11
262092	< 0.3	29	147	60	4.70	18	< 1	2.15	2.00	49	688	< 1	2.05	110	0.068	16	< 5	0.23	19	326	12	0.21	< 5
262093	< 0.3	26	200	55	4.50	17	< 1	2.03	2.10	49	663	< 1	2.43	89	0.066	19	< 5	0.24	17	454	9	0.24	< 5
262094	0.5	26	213	50	4.20	18	< 1	1.55	2.14	44	659	< 1	2.37	100	0.063	10	7	0.22	17	515	14	0.34	< 5
262095	0.6	29	206	103	4.58	18	< 1	1.51	2.19	60	642	< 1	2.33	100	0.071	10	< 5	0.19	18	474	7	0.36	10
262096	< 0.3	29	224	61	4.60	19	< 1	1.49	2.24	57	651	< 1	2.46	98	0.069	13	5	0.18	19	495	13	0.36	< 5
262097	< 0.3	32	202	99	3.94	14	< 1	1.46	1.58	47	597	1	2.44	191	0.065	11	10	0.14	< 4	417	10	0.34	6
262098	< 0.3	25	238	52	4.25	16	5	1.50	2.30	43	625	< 1	2.52	87	0.071	11	< 5	0.17	15	678	4	0.35	< 5
262099	< 0.3	29	310	48	4.59	17	< 1	1.21	2.53	39	647	1	2.78	95	0.071	13	13	0.13	18	705	18	0.36	5
262100	< 0.3	28	199	53	4.33	17	< 1	1.73	2.03	50	651	< 1	2.93	100	0.059	10	< 5	0.16	17	536	5	0.31	< 5
262101	< 0.3	< 1	4	< 1	0.07	< 1	< 1	0.04	11.6	10	283	< 1	0.03	1	0.003	6	< 5	0.01	< 4	111	5	< 0.01	< 5
262102	< 0.3	26	150	54	3.98	18	< 1	1.51	2.03	44	616	< 1	3.09	90	0.062	18	< 5	0.17	16	639	28	0.29	< 5
262103	< 0.3	24	155	50	4.11	18	< 1	1.42	2.17	46	612	< 1	3.36	84	0.068	17	< 5	0.14	16	669	11	0.33	< 5
262104	< 0.3	27	152	47	4.35	17	< 1	1.44	2.35	46	598	< 1	3.44	85	0.068	13	< 5	0.14	17	677	< 2	0.35	< 5
262105	< 0.3	30	217	66	4.93	16	< 1	1.36	2.78	40	777	1	2.53	114	0.064	9	< 5	0.17	19	550	7	0.28	< 5
262106	< 0.3	38	312	67	5.61	13	< 1	1.76	3.87	45	906	< 1	1.70	154	0.072	8	17	0.11	22	518	16	0.36	< 5
262107	< 0.3	26	295	46	3.77	14	< 1	1.56	1.52	40	617	< 1	2.38	100	0.060	14	10	0.18	5	347	19	0.32	< 5
262108	< 0.3	18	148	33	2.94	15	< 1	1.73	1.34	34	506	1	1.61	59	0.073	14	8	0.11	10	412	3	0.26	< 5
262109	< 0.3	17	120	35	3.10	18	< 1	1.71	1.39	35	509	< 1	1.58	63	0.077	14	< 5	0.11	11	431	7	0.27	< 5
262110	< 0.3	33	314	67	5.17	17	< 1	1.52	3.15	43	837	< 1	2.22	130	0.068	9	20	0.14	21	394	25	0.37	< 5
262111	0.4	2	4	< 1	0.10	< 1	< 1	0.03	11.1	9	288	< 1	0.03	3	0.003	< 3	< 5	0.01	< 4	120	5	< 0.01	< 5
262112	< 0.3	28	170	56	4.42	20	< 1	2.20	2.16	53	680	< 1	2.23	98	0.061	12	< 5	0.17	18	376	15	0.20	< 5
262113	< 0.3	28	185	53	4.48	20	1	1.77	2.23	41	681	< 1	2.58	96	0.062	12	< 5	0.21	18	375	5	0.33	< 5
262114	0.5	32	176	62	4.99	20	< 1	2.76	2.15	60	681	< 1	1.51	106	0.066	10	< 5	0.19	20	293	8	0.29	< 5
262115	< 0.3	28	166	53	4.30	16	< 1	2.07	2.31	47	666	< 1	2.14	99	0.081	11	9	0.16	17	414	13	0.34	< 5
262116	< 0.3	27	158	53	4.41	19	< 1	1.64	1.95	41	659	< 1	2.81	88	0.066	10	< 5	0.23	17	443	9	0.32	18
262117	< 0.3	38	507	66	5.75	15	< 1	0.82	3.51	26	1070	< 1	2.12	142	0.069	13	23	0.06	14	414	6	0.35	< 5
262118	< 0.3	27	283	60	4.66	19	1	1.45	2.15	37	739	2	2.87	100	0.067	19	< 5	0.24	18	405	16	0.36	< 5
262119	< 0.3	30	206	55	4.77	16	< 1	1.62	2.17	56	654	2	2.13	114	0.072	17	25	0.19	18	332	8	0.36	< 5
262120	< 0.3	28	190	58	4.45	16	< 1	1.58	1.68	47	510	2	1.77	96	0.070	10	33	0.35	16	240	15	0.33	< 5
262121	< 0.3	13	28	43	4.59	13	< 1	0.78	1.31	7	882	< 1	2.39	26	0.045	11	< 5	0.05	20	291	6	0.14	< 5

Analyte Symbol	U	V	W	Y	Zn	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne
Lower Limit	10	2	5	1	1	5	0.02
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	FA-GRA
262088	< 10	107	7	14	71	129	
262089	< 10	111	< 5	13	74	131	
262090	< 10	106	< 5	14	75	120	
262091	< 10	73	< 5	12	2310	50	5.70
262092	< 10	85	< 5	14	75	85	
262093	< 10	81	< 5	14	75	109	
262094	< 10	106	11	13	69	118	
262095	< 10	119	< 5	13	74	127	
262096	< 10	121	< 5	13	68	122	
262097	< 10	114	< 5	6	71	111	
262098	< 10	111	6	12	68	122	
262099	< 10	118	< 5	14	77	139	
262100	< 10	108	< 5	13	70	109	
262101	< 10	3	< 5	< 1	11	< 5	
262102	< 10	98	5	13	70	107	
262103	< 10	105	< 5	13	68	120	
262104	< 10	109	< 5	13	75	121	
262105	< 10	108	< 5	14	71	93	
262106	< 10	144	5	14	71	92	
262107	< 10	104	< 5	7	68	113	
262108	< 10	73	< 5	12	56	128	
262109	< 10	73	< 5	12	58	130	
262110	< 10	136	< 5	14	71	108	
262111	< 10	3	< 5	< 1	11	5	
262112	< 10	85	< 5	14	73	90	
262113	< 10	107	< 5	13	71	119	
262114	< 10	109	< 5	14	78	108	
262115	< 10	109	< 5	14	68	128	
262116	< 10	106	< 5	14	77	125	
262117	< 10	147	< 5	10	75	82	
262118	< 10	119	< 5	14	74	134	
262119	< 10	122	5	13	78	121	
262120	< 10	107	7	13	86	127	
262121	< 10	74	< 5	20	57	21	

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas		29.9	3.3	1170	816	14	20	664	664	0.36	405	< 10	328	0.8	1480	0.81	4	8	24.1	< 10	2	0.03	< 10
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50
GXR-4 Meas		3.5	< 0.5	6530	141	367	34	43	66	2.85	100	< 10	24	1.4	20	0.95	15	57	3.25	10	< 1	1.72	49
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5
SDC-1 Meas																							
SDC-1 Cert																							
GXR-6 Meas		0.3	< 0.5	74	1070	2	19	99	117	7.44	231	< 10	913	0.9	< 2	0.14	14	83	6.32	20	< 1	1.20	10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
OREAS 14P Meas																							
OREAS 14P Cert																							
DNC-1a Meas																							
DNC-1a Cert																							
OxP 91 Meas																							
OxP 91 Cert																							
SBC-1 Meas																							
SBC-1 Cert																							
OxK110 Meas																							
OxK110 Cert																							
SdAR-M2 (U.S.G.S.) Meas			5.1	248		14	44	881	782				148	5.0	< 2		13	10		< 10	2		49
SdAR-M2 (U.S.G.S.) Cert			5.1	236.0000		13.3	48.8	808	760				990	6.6	1.05		12.4	49.6		17.6	1.44		46.6
OxD128 Meas	402																						
OxD128 Cert	424.000																						
262097 Orig	6																						
262097 Dup	8																						
262100 Orig		< 0.2	< 0.5	52	526	< 1	94	3	71	2.62	10	< 10	690	< 0.5	< 2	0.44	25	236	4.56	10	< 1	1.83	23
262100 Dup		< 0.2	< 0.5	52	521	< 1	88	3	66	2.51	12	< 10	659	< 0.5	< 2	0.42	25	228	4.45	10	< 1	1.79	22
262107 Orig	7																						
262107 Dup	7																						
262114 Orig		< 0.2	< 0.5	64	692	< 1	101	2	75	3.76	23	< 10	326	< 0.5	< 2	0.52	29	223	5.48	10	< 1	2.41	24
262114 Dup		< 0.2	< 0.5	66	693	< 1	101	3	81	3.80	20	< 10	327	< 0.5	< 2	0.52	29	226	5.48	10	< 1	2.44	24
262117 Orig	6																						
262117 Dup	5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Ag	Al	As	Ba	Be	Bi	Ca
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.3	0.01	3	7	1	2	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	0.14	0.047	0.047	0.21	83	1	178	< 0.01	< 20	15	< 2	33	74	145	24	15	31.6	2.15	415	653	1	1390	0.85
GXR-1 Cert	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0	0.390	34.9	80.0	164	32.0	38.0	31.0	3.52	427	750	1.22	1380	0.960
GXR-4 Meas	1.71	0.129	0.131	1.77	4	8	73	0.14	< 20	3	7	< 10	79	12	11	10	3.4	6.55	92	268	2	7	1.06
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970	3.20	6.20	87.0	30.8	14.0	186	4.0	7.20	98.0	1640	1.90	19.0	1.01
SDC-1 Meas																		7.98	< 3	630	3		1.11
SDC-1 Cert																		8.34	0.220	630	3.00		1.00
GXR-6 Meas	0.43	0.070	0.037	0.01	8	22	28	< 20	< 1	< 2	< 10	167	< 10	5	7	0.5	12.1	265	> 1000	1	< 2	0.16	
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0	5.30	0.0180	2.20	1.54	186	1.90	14.0	110	1.30	17.7	330	1300	1.40	0.290	0.180	
OREAS 14P Meas																							
OREAS 14P Cert																							
DNC-1a Meas																					96		
DNC-1a Cert																					118		
OxP 91 Meas																							
OxP 91 Cert																							
SBC-1 Meas																			27	757	3	5	
SBC-1 Cert																			25.7	788.0	3.20	0.70	
OxK110 Meas																							
OxK110 Cert																							
SdAR-M2 (U.S.G.S.) Meas						3	23	< 20			< 10	19	< 10	18	7						999	8	< 2
SdAR-M2 (U.S.G.S.) Cert						4.1	144	14.2			2.53	25.2	2.8	32.7	259						990	6.6	1.05
OxD128 Meas																							
OxD128 Cert																							
262097 Orig																							
262097 Dup																							
262100 Orig	2.10	0.151	0.065	0.16	7	16	30	0.28	< 20	8	< 2	< 10	110	< 10	8	30	0.4	7.77	12	652	1	3	2.04
262100 Dup	2.04	0.143	0.064	0.16	7	16	28	0.28	< 20	6	< 2	< 10	108	< 10	8	39	< 0.3	7.76	17	653	1	4	2.04
262107 Orig																							
262107 Dup																							
262114 Orig	2.28	0.155	0.075	0.20	9	14	37	0.33	< 20	2	< 2	< 10	102	< 10	9	45	< 0.3	8.02	11	531	1	2	1.68
262114 Dup	2.28	0.161	0.074	0.21	9	14	39	0.32	< 20	2	< 2	< 10	105	< 10	9	37	< 0.3	8.04	7	528	1	2	1.67
262117 Orig																							
262117 Dup																							
Method Blank																							
Method Blank																							
Method Blank	< 0.01	< 0.001	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank	< 0.01	< 0.001	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1							
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01
Method Blank																	< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01

Analyte Symbol	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
Lower Limit	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	3	5	0.01	4	1	2	0.01	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	3.0	7	18	1170	23.3	10	2	0.04	0.20	7	857	17	0.05	47	0.059	722	63	0.25	< 4	284	39	0.03	5
GXR-1 Cert	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520	41.0	0.0650	730	122	0.257	1.58	275	13.0	0.036	0.390
GXR-4 Meas	0.4	16	54	6460	3.03	16	< 1	3.15	1.67	11	154	335	0.55	36	0.130	49	6	1.78	8	215	< 2	0.29	< 5
GXR-4 Cert	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564	42.0	0.120	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20
SDC-1 Meas		19	61	34	4.81	21	< 1	2.48	1.01	34	887		1.53	40	0.057	28	< 5		17	177		0.21	9
SDC-1 Cert		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34.00	880.00		1.52	38.0	0.0690	25.00	0.54		17.00	180.00		0.606	0.70
GXR-6 Meas	0.5	15	68	73	5.84	29	< 1	1.74	0.59	34	1100	3	0.10	30	0.036	99	< 5	0.02	27	36	11		< 5
GXR-6 Cert	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104	27.0	0.0350	101	3.60	0.0160	27.6	35.0	0.0180		2.20
OREAS 14P Meas		645		9180	31.7									> 10000									
OREAS 14P Cert		750		9970	37.2									21000									
DNC-1a Meas		56	130	103		9				5				261		10	< 5		31	132		0.29	
DNC-1a Cert		57.0	270	100.00		15				5.20				247		6.3	0.96		31	144.0		0.29	
OxP 91 Meas																							
OxP 91 Cert																							
SBC-1 Meas	< 0.3	25	95	38		26				165		1		89		28	< 5		20	178		0.52	< 5
SBC-1 Cert	0.40	22.7	109	31.0000		27.0				163.0		2.40		82.8		35.0	1.01		20.0	178.0		0.51	0.89
OxK110 Meas																							
OxK110 Cert																							
SdAR-M2 (U.S.G.S.) Meas	5.2	15	35	274		17	3			17		16		71		818			4	147			
SdAR-M2 (U.S.G.S.) Cert	5.1	12.4	49.6	236.0000		17.6	1.44			17.9		13.3		48.8		808			4.1	144			
OxD128 Meas																							
OxD128 Cert																							
262097 Orig																							
262097 Dup																							
262100 Orig	< 0.3	27	243	54	4.32	18	< 1	1.76	2.04	49	646	< 1	2.92	99	0.060	11	< 5	0.16	17	533	7	0.34	8
262100 Dup	0.9	29	155	52	4.33	16	< 1	1.69	2.03	50	655	4	2.94	100	0.059	10	16	0.16	17	539	2	0.29	< 5
262107 Orig																							
262107 Dup																							
262114 Orig	0.4	31	184	62	5.00	19	< 1	2.53	2.15	60	688	< 1	1.51	106	0.067	10	< 5	0.19	20	293	10	0.32	9
262114 Dup	0.6	34	168	62	4.98	21	< 1	2.98	2.14	60	674	< 1	1.50	106	0.065	9	9	0.20	20	292	5	0.26	< 5
262117 Orig																							
262117 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	1	< 0.001	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5
Method Blank																							

Analyte Symbol	U	V	W	Y	Zn	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne
Lower Limit	10	2	5	1	1	5	0.02
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	FA-GRA
GXR-1 Meas	40	85	163	33	733	30	
GXR-1 Cert	34.9	80.0	164	32.0	760	38.0	
GXR-4 Meas	< 10	87	32	15	69	47	
GXR-4 Cert	6.20	87.0	30.8	14.0	73.0	186	
SDC-1 Meas	< 10	47	< 5		99	36	
SDC-1 Cert	3.10	102.00	0.80		103.00	290.00	
GXR-6 Meas	< 10	146	< 5	12	129	72	
GXR-6 Cert	1.54	186	1.90	14.0	118	110	
OREAS 14P Meas							
OREAS 14P Cert							
DNC-1a Meas		143		16	59	36	
DNC-1a Cert		148.0000		18.0	70.0	38.0	
OxP 91 Meas							14.9
OxP 91 Cert							14.82
SBC-1 Meas	< 10	216	< 5	33	182	119	
SBC-1 Cert	5.76	220.0	1.60	36.5	186.0	134.0	
OxK110 Meas							3.57
OxK110 Cert							3.602
SdAR-M2 (U.S.G.S.) Meas	< 10	26	10	30	781	121	
SdAR-M2 (U.S.G.S.) Cert	2.53	25.2	2.8	32.7	760	259	
OxD128 Meas							
OxD128 Cert							
262097 Orig							
262097 Dup							
262100 Orig	< 10	112	< 5	13	71	114	
262100 Dup	< 10	104	6	12	70	104	
262107 Orig							
262107 Dup							
262114 Orig	< 10	116	< 5	14	79	114	
262114 Dup	< 10	103	< 5	14	78	101	
262117 Orig							
262117 Dup							
Method Blank							
Method Blank							
Method Blank							
Method Blank							
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5	
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5	
Method Blank	< 10	< 2	< 5	< 1	< 1	< 5	
Method Blank							< 0.02



Date Submitted: 19-Jul-16
Invoice No.: A16-06948
Invoice Date: 05-Aug-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

24 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-50-Geraldton Au - Fire Assay AA

REPORT **A16-06948**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.



CERTIFIED BY:

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva".

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
801 Main Street, P.O. Box 999, Geraldton, Ontario, Canada, P0T 1M0
TELEPHONE +807 854-2020 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Geraldton@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Date Submitted: 19-Jul-16
Invoice No.: A16-06948
Invoice Date: 05-Aug-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

24 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1E3-Tbay Aqua Regia ICP(AQUAGEO)

Code 1F2-Tbay Total Digestion ICP(TOTAL)

REPORT **A16-06948**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:



Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
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Results

Activation Laboratories Ltd.

Report: A16-06948

Analyte Symbol	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P
Unit Symbol	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%
Lower Limit	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001
Method Code	FA-AA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262561	> 5000	7.03	5.41	62.0	92.7	< 1	3.85	1.49	12.4	11.7	30.1	1180	6.87	13.4	< 1	1.30	1.82	12.7	588	86.1	1.23	59.9	0.0399
262562	< 5	0.344	8.16	< 3	217	< 1	< 2	2.82	< 0.3	9.87	27.6	19.8	2.17	18.5	2.06	0.604	0.714	21.6	367	2.52	3.28	22.2	0.0272
262563	< 5	0.373	8.20	3.24	226	< 1	< 2	2.41	< 0.3	9.01	26.4	18.2	2.14	17.6	< 1	0.608	0.665	22.0	338	< 1	3.59	22.1	0.0261
262564	< 5	< 0.3	8.29	7.03	228	< 1	< 2	2.55	< 0.3	8.80	32.6	23.0	2.22	19.0	< 1	0.596	0.658	21.8	363	1.58	3.61	24.4	0.0279
262565	< 5	< 0.3	8.50	13.1	268	< 1	< 2	2.77	1.59	11.5	26.2	19.6	2.15	18.6	5.46	0.642	0.657	21.7	345	< 1	3.52	21.5	0.0274
262566	< 5	< 0.3	8.17	3.11	210	< 1	< 2	2.47	< 0.3	11.0	33.1	18.1	2.19	18.2	< 1	0.645	0.666	21.4	366	2.18	3.48	20.4	0.0274
262567	< 5	0.384	8.23	6.20	199	< 1	< 2	2.21	< 0.3	9.65	27.6	18.9	2.23	18.4	< 1	0.669	0.677	21.7	335	1.74	3.74	23.2	0.0282
262568	< 5	0.541	8.35	7.44	234	< 1	< 2	2.62	< 0.3	9.43	22.0	17.1	2.17	18.2	3.94	0.950	0.675	24.2	329	1.45	2.98	22.5	0.0268
262569	< 5	< 0.3	8.26	< 3	241	< 1	< 2	2.58	< 0.3	9.86	24.6	19.0	2.35	18.7	< 1	0.783	0.752	24.5	342	< 1	3.45	22.9	0.0279
262570	< 5	< 0.3	8.38	6.72	220	< 1	< 2	2.48	< 0.3	9.32	26.2	18.5	2.13	18.7	1.04	0.672	0.708	22.2	353	1.06	3.66	22.0	0.0281
262571	< 5	< 0.3	0.119	< 3	122	< 1	< 2	19.4	0.396	1.68	3.51	< 1	0.0725	1.15	< 1	0.0793	12.6	10.4	309	< 1	0.0512	2.02	0.00300
262572	< 5	0.330	8.36	12.5	204	< 1	< 2	2.62	0.631	9.06	30.3	18.6	2.00	19.2	< 1	0.678	0.658	19.9	364	4.02	3.63	19.9	0.0274
262573	< 5	< 0.3	8.52	14.3	297	< 1	< 2	2.72	0.343	7.75	34.9	15.5	1.89	19.9	< 1	1.10	0.643	23.3	292	1.71	3.47	20.3	0.0238
262574	5	0.463	8.53	10.4	277	< 1	< 2	2.08	< 0.3	11.7	30.7	19.2	2.29	19.9	< 1	0.995	0.779	26.9	315	3.33	3.29	26.3	0.0283
262575	< 5	< 0.3	5.14	50.6	256	< 1	< 2	1.74	< 0.3	12.1	35.6	16.0	1.97	18.1	< 1	0.985	0.624	24.2	336	2.01	2.80	21.9	0.0273
262576	6	0.306	6.78	4.63	211	< 1	< 2	2.15	0.387	7.81	26.0	12.0	1.77	17.7	< 1	0.703	0.628	20.3	321	1.39	3.31	14.7	0.0233
262577	< 5	< 0.3	8.12	4.55	241	< 1	< 2	2.12	< 0.3	8.06	20.4	12.3	1.80	17.7	< 1	0.754	0.616	18.2	285	2.20	3.79	14.1	0.0249
262578	< 5	< 0.3	8.23	17.4	250	< 1	< 2	1.98	< 0.3	9.47	19.3	12.6	1.91	18.9	< 1	0.756	0.721	19.4	284	< 1	4.08	17.4	0.0261
262579	< 5	< 0.3	8.50	6.56	241	< 1	< 2	1.96	< 0.3	6.98	19.1	13.6	1.90	19.3	< 1	0.786	0.701	19.4	274	2.71	4.35	12.3	0.0251
262580	< 5	< 0.3	8.68	4.61	314	< 1	< 2	2.18	< 0.3	7.57	14.2	6.91	1.79	20.1	1.18	0.880	0.717	19.5	261	3.44	4.25	11.7	0.0228
262581	478	< 0.3	8.05	144	466	< 1	< 2	3.93	< 0.3	13.7	40.4	45.2	4.83	14.4	< 1	0.840	1.38	6.07	925	4.34	2.47	25.2	0.0472
262582	5	< 0.3	8.76	12.8	204	< 1	< 2	2.27	< 0.3	7.74	20.1	13.2	1.90	20.2	< 1	0.724	0.705	18.5	299	3.67	4.60	11.7	0.0257
262583	< 5	0.515	8.65	< 3	200	< 1	< 2	2.45	< 0.3	6.73	21.0	5.30	1.79	20.0	< 1	0.702	0.659	18.2	341	3.16	4.42	12.3	0.0233
262584	< 5	< 0.3	8.72	< 3	227	< 1	< 2	2.26	< 0.3	8.01	15.5	9.51	1.81	20.3	< 1	0.848	0.680	19.9	319	1.17	4.28	11.5	0.0229

Analyte Symbol	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al
Unit Symbol	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Lower Limit	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5	0.2	0.5	1	5	1	1	2	2	0.01
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
262561	193	< 5	4.03	11.9	188	7.95	0.179	< 5	< 10	74.0	8.30	11.6	2270	46.1	7.7	13.2	1260	608	83	50	211	2300	1.49
262562	< 3	< 5	0.161	6.65	345	4.96	0.216	< 5	< 10	43.2	< 5	4.84	48.5	76.0	< 0.2	< 0.5	19	326	< 1	19	< 2	46	1.32
262563	3.72	< 5	0.196	6.48	321	8.43	0.216	< 5	< 10	40.9	< 5	4.44	44.8	75.7	< 0.2	< 0.5	18	307	< 1	17	< 2	44	1.21
262564	< 3	< 5	0.169	6.79	327	7.83	0.230	< 5	< 10	44.2	< 5	4.84	44.8	81.1	< 0.2	< 0.5	20	315	< 1	19	< 2	45	1.25
262565	< 3	< 5	0.207	6.74	343	< 2	0.225	< 5	< 10	44.1	< 5	4.84	46.5	80.6	< 0.2	< 0.5	19	313	< 1	18	< 2	47	1.38
262566	< 3	< 5	0.201	6.67	336	5.76	0.229	8.39	< 10	44.5	< 5	4.86	45.1	80.4	< 0.2	< 0.5	19	339	< 1	17	< 2	44	1.26
262567	< 3	< 5	0.255	6.91	324	< 2	0.217	< 5	< 10	42.0	< 5	4.91	46.4	81.4	< 0.2	< 0.5	20	316	< 1	18	< 2	45	1.22
262568	< 3	< 5	0.162	6.77	322	< 2	0.185	< 5	< 10	38.9	< 5	5.11	53.8	75.5	< 0.2	< 0.5	17	300	< 1	18	< 2	51	1.48
262569	< 3	< 5	0.194	7.09	335	< 2	0.177	< 5	< 10	37.0	< 5	4.89	50.1	76.7	< 0.2	< 0.5	19	315	< 1	20	< 2	50	1.44
262570	< 3	< 5	0.223	6.86	353	3.85	0.222	5.56	< 10	43.7	< 5	4.72	54.4	82.6	< 0.2	< 0.5	19	330	< 1	17	< 2	55	1.29
262571	6.16	< 5	0.0188	< 4	142	8.89	< 0.01	< 5	< 10	2.75	< 5	< 1	13.5	< 5	< 0.2	< 0.5	< 1	263	< 1	< 1	5	12	0.04
262572	< 3	< 5	0.201	6.64	359	< 2	0.216	< 5	< 10	43.1	< 5	4.65	54.5	83.4	< 0.2	< 0.5	17	348	2	15	< 2	54	1.21
262573	< 3	< 5	0.272	6.41	305	< 2	0.209	< 5	< 10	41.7	< 5	5.06	33.6	76.1	< 0.2	< 0.5	15	281	< 1	15	< 2	30	1.21
262574	< 3	< 5	0.356	7.71	311	< 2	0.234	5.79	< 10	49.4	< 5	4.96	58.8	95.9	< 0.2	< 0.5	20	318	< 1	20	< 2	58	1.35
262575	< 3	< 5	0.176	4.09	269	< 2	0.241	< 5	< 10	51.5	< 5	3.13	56.2	100	< 0.2	< 0.5	17	326	< 1	18	< 2	58	1.53
262576	4.32	< 5	0.0708	5.04	315	2.74	0.194	< 5	< 10	39.1	< 5	3.51	47.7	77.8	< 0.2	< 0.5	13	300	< 1	13	2	47	1.24
262577	6.14	< 5	0.0850	5.88	352	2.31	0.194	8.84	< 10	38.0	< 5	4.19	45.9	78.1	< 0.2	< 0.5	13	269	< 1	12	3	46	1.09
262578	< 3	< 5	0.0424	6.21	370	4.96	0.185	< 5	< 10	38.6	< 5	4.24	51.0	79.9	< 0.2	< 0.5	12	276	< 1	13	< 2	50	1.22
262579	< 3	< 5	0.126	5.80	319	4.36	0.180	< 5	< 10	38.0	< 5	3.78	47.2	75.6	< 0.2	< 0.5	14	292	< 1	10	< 2	49	1.23
262580	< 3	< 5	0.0350	5.43	295	4.98	0.159	< 5	< 10	34.2	< 5	3.24	51.6	67.7	< 0.2	< 0.5	7	277	< 1	7	< 2	51	1.25
262581	8.42	< 5	0.0499	21.0	309	3.70	0.252	< 5	< 10	112	< 5	17.7	59.4	26.9	< 0.2	< 0.5	45	535	4	15	9	43	2.37
262582	< 3	< 5	0.132	5.79	340	8.88	0.176	< 5	< 10	38.9	< 5	3.39	55.3	70.5	< 0.2	< 0.5	14	304	< 1	8	3	54	1.16
262583	6.12	< 5	0.0216	5.89	318	3.62	0.170	11.8	< 10	37.6	< 5	3.22	47.3	67.6	< 0.2	< 0.5	5	347	< 1	8	< 2	47	1.15
262584	4.83	< 5	0.0569	5.61	315	6.83	0.157	7.58	< 10	35.9	< 5	3.10	49.9	66.6	< 0.2	< 0.5	11	340	< 1	8	< 2	50	1.20

Results

Activation Laboratories Ltd.

Report: A16-06948

Analyte Symbol	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te
Unit Symbol	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm
Lower Limit	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
262561	73	< 10	18	< 0.5	2	1.11	9	25	7.11	< 10	2	0.21	12	1.74	0.064	0.041	4.17	12	4	62	0.05	< 20	< 1
262562	< 2	< 10	64	< 0.5	< 2	1.13	10	27	2.18	< 10	< 1	0.20	< 10	0.73	0.115	0.029	0.23	< 2	4	25	0.12	< 20	< 1
262563	< 2	< 10	84	< 0.5	< 2	0.70	9	28	2.17	< 10	< 1	0.27	< 10	0.69	0.124	0.027	0.24	< 2	4	16	0.12	< 20	1
262564	< 2	< 10	95	< 0.5	< 2	0.75	11	30	2.27	< 10	< 1	0.29	< 10	0.69	0.140	0.029	0.27	< 2	5	19	0.13	< 20	< 1
262565	2	< 10	108	< 0.5	< 2	0.87	8	29	2.20	< 10	< 1	0.31	< 10	0.68	0.160	0.028	0.24	< 2	5	24	0.14	< 20	< 1
262566	2	< 10	70	< 0.5	< 2	0.85	10	28	2.24	< 10	< 1	0.23	< 10	0.68	0.124	0.027	0.26	< 2	4	20	0.12	< 20	2
262567	< 2	< 10	72	< 0.5	< 2	0.75	11	29	2.34	< 10	< 1	0.26	< 10	0.71	0.123	0.029	0.28	< 2	5	17	0.12	< 20	< 1
262568	< 2	< 10	82	< 0.5	< 2	0.80	8	26	2.17	< 10	< 1	0.43	< 10	0.68	0.133	0.027	0.20	< 2	4	26	0.15	< 20	< 1
262569	< 2	< 10	127	< 0.5	< 2	0.78	10	29	2.42	< 10	< 1	0.55	< 10	0.77	0.144	0.029	0.27	< 2	5	20	0.15	< 20	5
262570	< 2	< 10	84	< 0.5	< 2	0.88	10	29	2.18	< 10	< 1	0.28	< 10	0.73	0.139	0.029	0.28	< 2	5	21	0.13	< 20	4
262571	< 2	25	111	< 0.5	< 2	14.2	< 1	< 1	0.06	< 10	< 1	0.03	< 10	10.8	0.026	0.003	0.02	< 2	< 1	116	< 0.01	< 20	4
262572	18	< 10	68	< 0.5	< 2	0.90	8	25	2.01	< 10	< 1	0.22	< 10	0.66	0.126	0.028	0.23	< 2	4	19	0.11	< 20	< 1
262573	5	< 10	66	< 0.5	< 2	1.67	7	18	1.89	< 10	< 1	0.23	< 10	0.60	0.092	0.024	0.30	< 2	3	20	0.05	< 20	1
262574	8	< 10	66	< 0.5	< 2	0.86	10	25	2.37	< 10	< 1	0.24	< 10	0.77	0.094	0.028	0.36	< 2	3	15	0.06	< 20	1
262575	52	< 10	84	< 0.5	< 2	0.82	10	23	2.37	< 10	< 1	0.31	< 10	0.70	0.111	0.030	0.19	< 2	4	21	0.11	< 20	< 1
262576	4	< 10	67	< 0.5	< 2	0.94	7	22	1.89	< 10	< 1	0.24	< 10	0.66	0.112	0.026	0.08	< 2	3	20	0.11	< 20	< 1
262577	< 2	< 10	56	< 0.5	< 2	0.92	6	19	1.81	< 10	< 1	0.19	< 10	0.62	0.113	0.026	0.09	< 2	2	18	0.11	< 20	< 1
262578	5	< 10	90	< 0.5	< 2	0.77	8	23	1.98	< 10	< 1	0.36	< 10	0.74	0.137	0.028	0.04	< 2	4	20	0.13	< 20	< 1
262579	3	< 10	85	< 0.5	< 2	0.84	7	19	2.04	< 10	< 1	0.33	10	0.74	0.142	0.027	0.14	< 2	4	20	0.11	< 20	< 1
262580	3	< 10	78	< 0.5	< 2	1.10	5	15	1.82	< 10	< 1	0.29	< 10	0.71	0.134	0.024	0.04	< 2	3	20	0.10	< 20	< 1
262581	149	< 10	125	< 0.5	< 2	1.66	9	30	3.79	< 10	< 1	0.15	< 10	0.78	0.216	0.051	0.05	4	7	83	0.17	< 20	6
262582	< 2	< 10	64	< 0.5	< 2	0.95	6	19	1.97	< 10	< 1	0.27	< 10	0.73	0.141	0.026	0.15	< 2	4	21	0.12	< 20	< 1
262583	3	< 10	56	< 0.5	< 2	1.11	6	18	1.81	< 10	< 1	0.22	< 10	0.67	0.136	0.024	0.02	< 2	3	20	0.12	< 20	< 1
262584	< 2	< 10	82	< 0.5	< 2	0.82	7	18	1.91	< 10	< 1	0.39	< 10	0.71	0.147	0.025	0.06	< 2	3	18	0.13	< 20	1

Analyte Symbol	Tl	U	V	W	Y	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne
Lower Limit	2	10	1	10	1	1	0.02
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-GRA
262561	< 2	< 10	49	12	5	8	6.15
262562	< 2	< 10	33	< 10	3	15	
262563	< 2	< 10	34	< 10	3	17	
262564	< 2	< 10	37	< 10	4	18	
262565	< 2	< 10	37	< 10	4	16	
262566	< 2	< 10	35	< 10	4	16	
262567	< 2	< 10	36	< 10	4	18	
262568	< 2	< 10	32	< 10	4	17	
262569	< 2	< 10	39	< 10	3	21	
262570	< 2	< 10	35	< 10	3	20	
262571	< 2	< 10	< 1	< 10	< 1	< 1	
262572	< 2	< 10	34	< 10	3	17	
262573	< 2	< 10	22	< 10	3	14	
262574	< 2	< 10	28	< 10	3	17	
262575	< 2	< 10	32	< 10	4	20	
262576	< 2	< 10	28	< 10	3	14	
262577	< 2	< 10	25	< 10	3	15	
262578	< 2	< 10	31	< 10	3	17	
262579	< 2	< 10	31	< 10	3	18	
262580	< 2	< 10	25	< 10	2	15	
262581	< 2	< 10	89	< 10	9	5	
262582	< 2	< 10	32	< 10	3	16	
262583	< 2	< 10	29	< 10	3	14	
262584	< 2	< 10	30	< 10	3	15	

Analyte Symbol	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P
Unit Symbol	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%
Lower Limit	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001
Method Code	FA-AA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas		32.3	2.42	411	654	1.12	1390	0.876	2.05	8.56	17.6	1150	23.8	14.4	2.44	0.0464	0.212	6.54	858	18.9	0.0494	46.3	0.0600
GXR-1 Cert		31.0	3.52	427	750	1.22	1380	0.960	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520	41.0	0.0650
GXR-1 Meas																							
GXR-1 Cert																							
GXR-4 Meas		3.48	6.82	98.2	118	2.26	14.1	1.08	< 0.3	15.9	34.7	6580	3.12	17.1	1.26	3.83	1.72	9.88	152	347	0.544	46.4	0.130
GXR-4 Cert		4.00	7.20	98.0	1640	1.90	19.0	1.01	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564	42.0	0.120
GXR-4 Meas																							
GXR-4 Cert																							
SDC-1 Meas			7.78	< 3	606	2.92		1.05		17.5	60.1	30.4	4.58	20.4	< 1	1.80	0.968	32.4	854		1.43	37.7	0.0531
SDC-1 Cert			8.34	0.220	630	3.00		1.00		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34.00	880.00		1.52	38.0	0.0690
GXR-6 Meas		0.459	13.0	281	1250	1.20	< 2	0.163	< 0.3	14.4	62.4	72.4	5.95	29.6	< 1	1.50	0.614	33.5	1100	1.63	0.0969	27.3	0.0362
GXR-6 Cert		1.30	17.7	330	1300	1.40	0.290	0.180	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104	27.0	0.0350
GXR-6 Meas																							
GXR-6 Cert																							
OREAS 14P Meas										626		8620	30.6										18000
OREAS 14P Cert										750		9970	37.2										21000
Oreas 72a (4 Acid Digest) Meas				5.92						152	198	302	9.18										6430
Oreas 72a (4 Acid Digest) Cert				14.7						157	228	316	9.63										6930.000
DNC-1a Meas					97.8					54.4	215	98.9		13.9				4.23					262
DNC-1a Cert					118					57.0	270	100.00		15				5.20					247
OxP 91 Meas																							
OxP 91 Cert																							
OxP 91 Meas																							
OxP 91 Cert																							
SBC-1 Meas				24.9	781	3.27	< 2		< 0.3	22.7	93.1	32.8		26.3				173		2.78			87.1
SBC-1 Cert				25.7	788.0	3.20	0.70		0.40	22.7	109	31.0000		27.0				163.0		2.40			82.8
OxK110 Meas																							
OxK110 Cert																							
OxK110 Meas																							
OxK110 Cert																							
SdAR-M2 (U.S.G.S.) Meas					1030	7.67	< 2		5.41	14.0	42.6	247		17.5	< 1			18.0		13.9			56.0
SdAR-M2 (U.S.G.S.) Cert					990	6.6	1.05		5.1	12.4	49.6	236.0000		17.6	1.44			17.9		13.3			48.8
SF85 Meas	822																						
SF85 Cert	848																						
262564 Orig																							
262564 Dup																							
262570 Orig	< 5																						
262570 Dup	< 5																						
262578 Orig		0.329	8.18	28.3	248	< 1	< 2	1.97	1.89	10.4	18.6	12.6	1.90	18.6	3.68	0.763	0.719	19.5	285	3.12	4.05	17.0	0.0263
262578 Dup		< 0.3	8.27	6.56	251	< 1	< 2	1.98	< 0.3	8.53	20.1	12.6	1.92	19.1	< 1	0.748	0.723	19.4	283	< 1	4.10	17.7	0.0259
262580 Orig	< 5																						
262580 Dup	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank																							
Method Blank																							

Analyte Symbol	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P
Unit Symbol	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%
Lower Limit	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001
Method Code	FA-AA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Method Blank																							
Method Blank		< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001
Method Blank		< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001
Method Blank		< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al
Unit Symbol	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Lower Limit	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5	0.2	0.5	1	5	1	1	2	2	0.01
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	753	40.6	0.250	< 4	289	26.6	0.0283	< 5	38.6	86.4	168	29.4	748	27.6	29.1	3.3	1170	777	13	31	649	637	0.36
GXR-1 Cert	730	122	0.257	1.58	275	13.0	0.036	0.390	34.9	80.0	164	32.0	760	38.0	31.0	3.30	1110	852	18.0	41.0	730	760	3.52
GXR-1 Meas															30.9	2.6	1210	836	15	35	685	664	0.38
GXR-1 Cert															31.0	3.30	1110	852	18.0	41.0	730	760	3.52
GXR-4 Meas	51.0	16.0	1.80	8.48	221	8.02	0.296	< 5	< 10	90.1	39.5	13.5	71.9	43.8	3.4	< 0.5	6470	142	312	33	41	64	2.86
GXR-4 Cert	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20	6.20	87.0	30.8	14.0	73.0	186	4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20
GXR-4 Meas															3.4	1.0	6410	142	315	35	48	64	2.81
GXR-4 Cert															4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20
SDC-1 Meas	19.3	< 5		16.2	170		0.208	< 5	< 10	57.0	< 5		91.0	45.6									
SDC-1 Cert	25.00	0.54		17.00	180.00		0.606	0.70	3.10	102.00	0.80		103.00	290.00									
GXR-6 Meas	95.3	< 5	0.0156	28.1	37.2	< 2		< 5	< 10	160	< 5	10.8	126	77.2	0.3	< 0.5	72	1070	2	20	96	117	7.30
GXR-6 Cert	101	3.60	0.0160	27.6	35.0	0.0180		2.20	1.54	186	1.90	14.0	118	110	1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7
GXR-6 Meas															0.3	< 0.5	68	1110	2	27	97	118	7.24
GXR-6 Cert															1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7
OREAS 14P Meas																							
OREAS 14P Cert																							
Oreas 72a (4 Acid Digest) Meas			1.56																				
Oreas 72a (4 Acid Digest) Cert			1.74																				
DNC-1a Meas	3.37	< 5		32.3	132		0.287			144		14.5	55.1	34.5									
DNC-1a Cert	6.3	0.96		31	144.0		0.29			148.0000		18.0	70.0	38.0									
OxP 91 Meas																							
OxP 91 Cert																							
OxP 91 Meas																							
OxP 91 Cert																							
SBC-1 Meas	28.0	< 5		21.1	181		0.527	14.0	< 10	219	< 5	28.4	177	114									
SBC-1 Cert	35.0	1.01		20.0	178.0		0.51	0.89	5.76	220.0	1.60	36.5	186.0	134.0									
OxK110 Meas																							
OxK110 Cert																							
OxK110 Meas																							
OxK110 Cert																							
SdAR-M2 (U.S.G.S.) Meas	824			4.65	152			< 10	28.0	13.3	26.6	799	127		5.3	245		14	42	889	792		
SdAR-M2 (U.S.G.S.) Cert	808			4.1	144			2.53	25.2	2.8	32.7	760	259		5.1	236.0000		13.3	48.8	808	760		
SF85 Meas																							
SF85 Cert																							
262564 Orig															< 0.2	< 0.5	20	311	< 1	18	< 2	44	1.25
262564 Dup															< 0.2	< 0.5	20	318	< 1	19	< 2	46	1.26
262570 Orig																							
262570 Dup																							
262578 Orig	5.77	< 5	0.0418	6.17	367	3.51	0.180	< 5	< 10	37.9	< 5	4.24	52.4	79.3	< 0.2	< 0.5	13	275	< 1	12	< 2	50	1.21
262578 Dup	< 3	< 5	0.0430	6.25	373	6.41	0.190	< 5	< 10	39.3	< 5	4.24	49.6	80.4	< 0.2	< 0.5	12	276	< 1	13	< 2	50	1.22
262580 Orig																							
262580 Dup																							
Method Blank																							
Method Blank																							

Analyte Symbol	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al
Unit Symbol	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Lower Limit	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5	0.2	0.5	1	5	1	1	2	2	0.01
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank															< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01
Method Blank															< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01
Method Blank	< 3	< 5	< 0.01	< 4	< 1	2.78	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5									
Method Blank	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5									
Method Blank	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5									
Method Blank																							
Method Blank																							
Method Blank															< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01

Analyte Symbol	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te
Unit Symbol	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm
Lower Limit	2	10	10	0.5	2	0.01	1	1	0.01	10	1	2	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	381	< 10	526	0.8	1500	0.79	5	5	23.6	< 10	5	0.03	< 10	0.14	0.047	0.048	0.21	86	1	185	< 0.01	< 20	18
GXR-1 Cert	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0
GXR-1 Meas	396	10	520	0.8	1530	0.80	6	7	25.6	< 10	4	0.03	< 10	0.15	0.073	0.050	0.23	91	1	197	< 0.01	< 20	12
GXR-1 Cert	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0
GXR-4 Meas	99	< 10	96	1.4	< 2	0.95	14	57	3.19	10	< 1	1.70	53	1.69	0.133	0.133	1.76	4	8	74	0.14	< 20	3
GXR-4 Cert	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970
GXR-4 Meas	97	< 10	93	1.4	20	0.91	15	55	3.27	10	< 1	1.77	51	1.69	0.139	0.130	1.78	4	7	74	0.13	< 20	< 1
GXR-4 Cert	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970
SDC-1 Meas																							
SDC-1 Cert																							
GXR-6 Meas	237	< 10	940	0.8	< 2	0.13	13	82	6.08	20	< 1	1.17	< 10	0.42	0.070	0.036	0.01	4	21	27		< 20	1
GXR-6 Cert	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180
GXR-6 Meas	242	< 10	968	0.9	2	0.13	13	82	6.03	20	3	1.19	10	0.42	0.112	0.037	0.01	4	21	26		< 20	< 1
GXR-6 Cert	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180
OREAS 14P Meas																							
OREAS 14P Cert																							
Oreas 72a (4 Acid Digest) Meas																							
Oreas 72a (4 Acid Digest) Cert																							
DNC-1a Meas																							
DNC-1a Cert																							
OxP 91 Meas																							
OxP 91 Cert																							
OxP 91 Meas																							
OxP 91 Cert																							
SBC-1 Meas																							
SBC-1 Cert																							
OxK110 Meas																							
OxK110 Cert																							
OxK110 Meas																							
OxK110 Cert																							
SdAR-M2 (U.S.G.S.) Meas			155	5.0	< 2		14	10		< 10	1		49						3	22		< 20	
SdAR-M2 (U.S.G.S.) Cert			990	6.6	1.05		12.4	49.6		17.6	1.44		46.6						4.1	144		14.2	
SF85 Meas																							
SF85 Cert																							
262564 Orig	< 2	< 10	95	< 0.5	< 2	0.75	11	30	2.26	< 10	< 1	0.29	< 10	0.69	0.136	0.029	0.27	8	5	18	0.13	< 20	1
262564 Dup	< 2	< 10	95	< 0.5	< 2	0.76	11	30	2.29	< 10	< 1	0.29	< 10	0.69	0.143	0.029	0.27	< 2	5	19	0.14	< 20	< 1
262570 Orig																							
262570 Dup																							
262578 Orig	5	< 10	90	< 0.5	< 2	0.77	8	23	1.98	< 10	< 1	0.36	< 10	0.74	0.136	0.028	0.04	< 2	4	20	0.13	< 20	< 1
262578 Dup	4	< 10	90	< 0.5	< 2	0.77	8	23	1.98	< 10	< 1	0.36	< 10	0.74	0.137	0.028	0.04	< 2	4	20	0.13	< 20	< 1
262580 Orig																							
262580 Dup																							
Method Blank																							
Method Blank																							
Method Blank	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1

Analyte Symbol	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te
Unit Symbol	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	
Lower Limit	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1

Analyte Symbol	Tl	U	V	W	Y	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne
Lower Limit	2	10	1	10	1	1	0.02
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-GRA
GXR-1 Meas	< 2	31	75	148	24	16	
GXR-1 Cert	0.390	34.9	80.0	164	32.0	38.0	
GXR-1 Meas	< 2	31	78	153	25	15	
GXR-1 Cert	0.390	34.9	80.0	164	32.0	38.0	
GXR-4 Meas	4	< 10	78	12	11	10	
GXR-4 Cert	3.20	6.20	87.0	30.8	14.0	186	
GXR-4 Meas	3	< 10	79	12	11	10	
GXR-4 Cert	3.20	6.20	87.0	30.8	14.0	186	
SDC-1 Meas							
SDC-1 Cert							
GXR-6 Meas	< 2	< 10	167	< 10	5	9	
GXR-6 Cert	2.20	1.54	186	1.90	14.0	110	
GXR-6 Meas	2	< 10	172	< 10	5	10	
GXR-6 Cert	2.20	1.54	186	1.90	14.0	110	
OREAS 14P Meas							
OREAS 14P Cert							
Oreas 72a (4 Acid Digest) Meas							
Oreas 72a (4 Acid Digest) Cert							
DNC-1a Meas							
DNC-1a Cert							
OxP 91 Meas							14.9
OxP 91 Cert							14.82
OxP 91 Meas							14.8
OxP 91 Cert							14.82
SBC-1 Meas							
SBC-1 Cert							
OxK110 Meas							3.57
OxK110 Cert							3.602
OxK110 Meas							3.59
OxK110 Cert							3.602
SdAR-M2 (U.S.G.S.) Meas		< 10	19	< 10	19	8	
SdAR-M2 (U.S.G.S.) Cert		2.53	25.2	2.8	32.7	259	
SF85 Meas							
SF85 Cert							
262564 Orig	< 2	< 10	36	< 10	4	18	
262564 Dup	< 2	< 10	37	< 10	4	18	
262570 Orig							
262570 Dup							
262578 Orig	< 2	< 10	31	< 10	3	17	
262578 Dup	< 2	< 10	31	< 10	3	17	
262580 Orig							
262580 Dup							
Method Blank							
Method Blank							
Method Blank	2	< 10	< 1	< 10	< 1	< 1	

Analyte Symbol	Tl	U	V	W	Y	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne
Lower Limit	2	10	1	10	1	1	0.02
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-GRA
Method Blank	< 2	< 10	< 1	< 10	< 1	< 1	
Method Blank							
Method Blank							
Method Blank							
Method Blank							< 0.02
Method Blank							< 0.02
Method Blank	< 2	< 10	< 1	< 10	< 1	< 1	



Date Submitted: 19-Jul-16
Invoice No.: A16-06947
Invoice Date: 03-Aug-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

34 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-50-Geraldton Au - Fire Assay AA

REPORT **A16-06947**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.



CERTIFIED BY:

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva".

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
801 Main Street, P.O. Box 999, Geraldton, Ontario, Canada, P0T 1M0
TELEPHONE +807 854-2020 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Geraldton@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Date Submitted: 19-Jul-16
Invoice No.: A16-06947
Invoice Date: 03-Aug-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

34 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1E3-Tbay Aqua Regia ICP(AQUAGEO)

Code 1F2-Tbay Total Digestion ICP(TOTAL)

REPORT **A16-06947**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:



Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
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Results

Activation Laboratories Ltd.

Report: A16-06947

Analyte Symbol	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P
Unit Symbol	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%
Lower Limit	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001
Method Code	FA-AA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262527	< 5	< 0.3	8.07	< 3	241	< 1	< 2	2.26	0.357	10.1	33.3	23.0	2.37	17.4	1.33	0.861	0.820	23.7	390	2.17	3.14	26.7	0.0296
262528	< 5	< 0.3	8.41	4.28	330	< 1	< 2	2.38	< 0.3	11.3	35.3	23.4	2.53	18.4	< 1	1.01	0.867	23.0	392	1.21	3.02	32.3	0.0296
262529	< 5	< 0.3	8.42	< 3	309	< 1	< 2	2.48	0.548	11.8	29.4	23.8	2.57	19.5	< 1	0.898	0.902	24.3	436	1.66	3.17	33.2	0.0307
262530	< 5	0.323	8.13	3.67	270	< 1	< 2	2.47	< 0.3	11.7	34.6	30.2	2.57	17.8	< 1	0.851	0.863	24.7	458	2.37	2.95	32.7	0.0300
262531	< 5	< 0.3	0.213	< 3	153	< 1	< 2	18.6	0.338	< 1	5.57	< 1	0.0989	1.39	< 1	0.106	12.6	21.0	297	< 1	0.0525	< 1	0.00210
262532	< 5	0.304	8.36	< 3	227	< 1	< 2	2.64	< 0.3	10.6	33.1	22.3	2.57	19.1	< 1	0.763	0.914	24.5	449	< 1	2.99	30.5	0.0302
262533	< 5	0.349	7.82	< 3	216	< 1	< 2	2.41	< 0.3	9.50	32.3	22.6	2.39	17.6	< 1	0.831	0.866	25.5	383	1.61	2.86	30.2	0.0282
262534	< 5	< 0.3	7.99	4.48	196	< 1	< 2	2.32	< 0.3	10.6	29.8	30.9	2.33	17.5	< 1	0.660	0.852	22.7	374	< 1	3.32	25.3	0.0300
262535	< 5	< 0.3	8.14	3.53	229	< 1	< 2	2.57	0.323	11.0	31.7	23.5	2.30	17.4	< 1	0.717	0.787	21.3	385	< 1	3.22	29.0	0.0300
262536	< 5	< 0.3	5.47	3.63	207	< 1	< 2	1.85	< 0.3	11.0	39.9	19.8	2.08	17.0	< 1	0.694	0.706	21.9	365	2.88	2.93	24.7	0.0279
262537	< 5	0.436	7.72	< 3	200	< 1	< 2	2.30	0.394	9.66	33.2	17.8	2.15	17.1	< 1	0.702	0.739	22.6	342	< 1	3.02	23.3	0.0266
262538	< 5	0.350	7.85	< 3	174	< 1	< 2	2.76	0.348	11.2	38.3	22.8	2.39	16.9	< 1	0.627	0.799	24.6	383	2.78	3.09	25.6	0.0288
262539	< 5	0.551	8.31	< 3	222	< 1	< 2	2.73	< 0.3	11.0	30.5	23.2	2.44	18.9	< 1	0.692	0.795	23.7	455	< 1	2.99	27.2	0.0300
262540	< 5	0.312	8.23	< 3	228	< 1	< 2	2.43	< 0.3	11.3	29.4	20.8	2.41	18.5	< 1	0.810	0.791	24.0	407	1.23	3.15	28.1	0.0294
262541	475	< 0.3	8.09	135	474	< 1	< 2	3.99	< 0.3	15.0	40.0	46.8	4.86	13.9	< 1	0.842	1.39	7.40	943	2.02	2.44	27.7	0.0489
262542	< 5	0.553	8.48	< 3	275	< 1	< 2	2.54	< 0.3	10.3	84.1	22.3	2.54	19.2	< 1	0.905	0.812	24.6	430	< 1	3.15	27.5	0.0309
262543	< 5	< 0.3	8.26	3.55	273	< 1	< 2	2.19	< 0.3	11.7	30.3	18.9	2.45	18.8	< 1	0.907	0.776	25.5	382	1.45	3.24	27.9	0.0278
262544	< 5	0.750	8.43	4.29	224	< 1	< 2	2.49	0.488	10.8	28.8	21.7	2.20	19.5	< 1	0.741	0.707	22.0	420	2.10	3.24	25.7	0.0272
262545	< 5	0.411	8.39	< 3	245	< 1	< 2	2.50	< 0.3	11.7	32.2	22.2	2.48	18.5	< 1	0.761	0.825	24.1	398	5.92	3.19	28.0	0.0299
262546	< 5	< 0.3	5.54	4.80	198	< 1	< 2	2.15	< 0.3	11.9	42.3	21.0	2.05	17.8	< 1	0.710	0.705	25.0	385	< 1	2.88	24.4	0.0272
262547	< 5	0.370	7.91	5.11	252	< 1	< 2	2.33	< 0.3	10.3	45.4	21.7	2.38	19.1	< 1	0.716	0.851	24.3	391	1.25	3.02	25.0	0.0290
262548	< 5	0.398	7.92	< 3	232	< 1	< 2	2.39	< 0.3	10.2	37.0	21.0	2.13	17.0	< 1	0.729	0.705	22.0	377	3.24	3.12	24.4	0.0284
262549	< 5	< 0.3	8.22	3.23	255	< 1	< 2	2.32	< 0.3	10.7	27.3	22.2	2.23	18.4	< 1	0.843	0.743	24.2	366	1.19	3.14	24.9	0.0272
262550	< 5	< 0.3	8.02	< 3	220	< 1	< 2	2.58	< 0.3	9.08	25.4	20.6	2.17	18.8	< 1	0.781	0.714	21.4	351	1.82	3.03	25.1	0.0258
262551	5	< 0.3	0.0677	< 3	2500	< 1	< 2	17.8	0.424	< 1	4.14	< 1	0.0858	1.60	< 1	0.0271	12.2	14.8	293	< 1	0.0261	3.68	0.00361
262552	< 5	0.519	7.93	< 3	225	< 1	< 2	2.50	0.609	10.4	31.2	23.8	2.27	17.4	< 1	0.698	0.823	22.6	344	1.10	3.17	27.7	0.0289
262553	< 5	0.429	8.50	< 3	287	< 1	< 2	2.52	< 0.3	11.9	46.2	27.3	2.43	19.9	< 1	0.886	0.928	26.9	371	< 1	3.27	29.4	0.0299
262554	< 5	< 0.3	8.05	< 3	203	< 1	< 2	2.73	0.322	10.2	35.8	34.5	2.30	18.0	2.13	0.696	0.773	23.3	409	1.06	3.02	25.9	0.0311
262555	< 5	< 0.3	8.51	3.45	321	< 1	< 2	2.66	< 0.3	12.1	33.8	26.1	2.58	18.9	< 1	1.09	0.821	26.8	409	< 1	2.99	28.9	0.0297
262556	< 5	0.318	5.01	4.84	223	< 1	< 2	1.93	< 0.3	10.2	38.9	19.5	1.98	15.9	< 1	0.754	0.587	21.9	366	2.19	2.97	24.9	0.0243
262557	< 5	< 0.3	7.41	< 3	252	< 1	< 2	2.40	< 0.3	11.7	39.8	22.9	2.38	17.7	< 1	0.778	0.688	22.4	414	3.18	2.91	27.8	0.0292
262558	< 5	< 0.3	8.04	< 3	316	< 1	< 2	2.38	< 0.3	10.1	26.8	18.4	2.19	18.3	< 1	0.972	0.684	21.5	319	3.45	2.84	22.4	0.0265
262559	< 5	< 0.3	8.11	< 3	220	< 1	< 2	2.61	0.725	9.45	22.6	17.1	2.10	18.5	< 1	0.707	0.670	21.7	334	5.66	3.13	23.0	0.0265
262560	< 5	0.535	8.23	8.88	182	< 1	3.61	2.79	1.27	11.9	24.1	21.2	2.32	18.2	1.75	0.646	0.723	21.8	370	2.60	2.94	27.9	0.0272

Results

Activation Laboratories Ltd.

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Analyte Symbol	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al
Unit Symbol	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Lower Limit	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5	0.2	0.5	1	5	1	1	2	2	0.01
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
262527	3.16	< 5	0.166	7.69	291	4.54	0.243	< 5	< 10	48.6	< 5	6.14	44.9	78.0	< 0.2	< 0.5	24	362	< 1	22	3	43	1.67
262528	< 3	< 5	0.167	8.67	295	2.55	0.204	< 5	< 10	49.8	< 5	6.29	48.7	77.5	< 0.2	< 0.5	24	354	< 1	26	< 2	48	1.69
262529	11.3	< 5	0.146	8.42	306	4.23	0.219	< 5	< 10	48.6	< 5	6.64	48.6	76.1	< 0.2	< 0.5	23	407	< 1	26	9	46	1.80
262530	5.77	11.0	0.168	8.67	300	< 2	0.192	< 5	< 10	46.8	< 5	6.63	59.5	72.8	< 0.2	< 0.5	30	404	< 1	26	< 2	56	1.76
262531	< 3	< 5	0.0376	< 4	111	10.9	< 0.01	< 5	< 10	3.16	< 5	< 1	9.68	6.55	< 0.2	< 0.5	< 1	238	< 1	< 1	< 2	7	0.13
262532	3.18	< 5	0.169	8.44	309	< 2	0.204	5.44	< 10	47.4	< 5	6.74	60.0	73.7	< 0.2	< 0.5	22	402	< 1	23	< 2	54	1.75
262533	< 3	< 5	0.152	7.75	261	4.15	0.187	< 5	< 10	42.1	< 5	6.22	45.1	67.3	< 0.2	< 0.5	24	356	< 1	23	< 2	42	1.59
262534	< 3	< 5	0.209	7.54	268	< 2	0.175	< 5	< 10	37.0	< 5	6.35	51.4	64.8	< 0.2	< 0.5	31	342	< 1	21	< 2	50	1.43
262535	< 3	< 5	0.216	7.63	253	7.85	0.245	< 5	< 10	49.0	< 5	6.37	57.0	77.1	< 0.2	< 0.5	23	332	< 1	22	< 2	57	1.38
262536	< 3	< 5	0.177	4.64	229	3.16	0.229	< 5	< 10	46.0	< 5	3.61	51.5	71.5	< 0.2	< 0.5	22	326	< 1	21	< 2	51	1.44
262537	< 3	< 5	0.126	6.97	271	5.49	0.219	< 5	< 10	43.7	< 5	5.33	45.2	71.2	< 0.2	< 0.5	19	312	< 1	19	< 2	45	1.42
262538	< 3	< 5	0.186	7.31	300	< 2	0.237	< 5	< 10	47.5	< 5	6.01	54.2	79.1	< 0.2	< 0.5	24	350	< 1	21	< 2	54	1.56
262539	< 3	< 5	0.177	7.97	308	< 2	0.197	< 5	< 10	44.2	< 5	6.21	54.7	70.9	< 0.2	< 0.5	24	384	< 1	22	< 2	52	1.73
262540	< 3	< 5	0.182	8.02	277	6.72	0.242	< 5	< 10	49.7	< 5	6.29	58.2	79.5	< 0.2	< 0.5	21	371	< 1	22	4	53	1.68
262541	14.6	< 5	0.0491	21.0	307	8.69	0.256	< 5	< 10	113	< 5	17.8	58.7	26.6	< 0.2	< 0.5	44	558	4	18	9	42	2.35
262542	< 3	< 5	0.169	8.39	290	< 2	0.245	< 5	< 10	52.2	< 5	6.38	44.6	80.7	< 0.2	< 0.5	21	382	< 1	23	< 2	42	1.59
262543	< 3	< 5	0.178	7.58	283	< 2	0.237	< 5	< 10	48.3	< 5	6.09	39.6	81.2	< 0.2	< 0.5	18	331	1	20	< 2	37	1.61
262544	< 3	< 5	0.159	6.89	312	2.42	0.223	< 5	< 10	43.8	< 5	5.50	52.1	78.8	< 0.2	< 0.5	19	325	< 1	18	< 2	46	1.37
262545	< 3	< 5	0.190	8.00	306	8.20	0.243	< 5	< 10	51.4	< 5	5.70	55.6	84.2	< 0.2	< 0.5	22	340	1	22	< 2	50	1.48
262546	5.79	< 5	0.145	4.60	265	3.21	0.230	< 5	< 10	46.9	< 5	3.56	45.6	77.6	< 0.2	< 0.5	24	369	< 1	24	< 2	48	1.60
262547	< 3	< 5	0.189	7.61	317	< 2	0.243	< 5	< 10	48.5	< 5	5.84	60.7	86.5	< 0.2	< 0.5	23	353	< 1	23	< 2	63	1.57
262548	6.47	< 5	0.154	7.10	284	< 2	0.226	< 5	< 10	44.9	< 5	5.56	47.7	80.0	< 0.2	< 0.5	21	327	< 1	20	< 2	48	1.43
262549	< 3	< 5	0.148	7.21	288	< 2	0.214	7.39	< 10	44.1	< 5	5.49	46.5	76.6	< 0.2	< 0.5	20	332	< 1	20	< 2	44	1.49
262550	3.20	< 5	0.154	6.66	251	2.73	0.188	< 5	< 10	39.3	< 5	5.27	46.6	68.0	< 0.2	< 0.5	20	312	< 1	20	< 2	45	1.40
262551	4.23	< 5	0.0816	< 4	166	9.26	< 0.01	< 5	< 10	3.12	< 5	< 1	14.2	< 5	< 0.2	< 0.5	2	245	< 1	< 1	5	9	0.06
262552	< 3	< 5	0.152	7.35	272	4.72	0.225	< 5	< 10	46.2	< 5	5.82	59.0	78.3	< 0.2	< 0.5	22	317	< 1	21	< 2	47	1.49
262553	< 3	< 5	0.165	8.06	270	6.72	0.243	< 5	< 10	51.1	< 5	5.99	46.2	79.1	< 0.2	< 0.5	25	328	< 1	24	< 2	45	1.71
262554	4.72	< 5	0.198	7.49	249	6.61	0.251	< 5	< 10	49.2	< 5	6.05	57.3	79.8	< 0.2	< 0.5	24	327	< 1	22	6	48	1.50
262555	< 3	< 5	0.246	8.20	289	3.54	0.256	< 5	< 10	53.6	< 5	5.44	55.6	82.2	< 0.2	< 0.5	27	369	< 1	25	< 2	54	1.76
262556	< 3	< 5	0.155	< 4	204	< 2	0.227	< 5	< 10	44.8	< 5	2.78	43.9	71.7	< 0.2	< 0.5	21	343	< 1	21	< 2	46	1.47
262557	< 3	< 5	0.234	7.53	273	6.36	0.244	< 5	< 10	50.4	< 5	5.38	47.1	86.2	< 0.2	< 0.5	24	360	< 1	23	< 2	49	1.49
262558	< 3	< 5	0.172	7.26	309	6.08	0.220	< 5	< 10	45.0	< 5	5.26	41.9	79.4	< 0.2	< 0.5	19	291	< 1	18	< 2	42	1.40
262559	< 3	< 5	0.143	6.43	301	< 2	0.214	< 5	< 10	40.7	< 5	4.61	44.9	73.1	< 0.2	< 0.5	17	320	< 1	18	< 2	46	1.37
262560	10.5	7.95	0.208	6.87	290	12.7	0.165	< 5	< 10	35.2	< 5	5.23	80.4	60.2	< 0.2	< 0.5	20	352	< 1	20	< 2	83	1.61

Results

Activation Laboratories Ltd.

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Analyte Symbol	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te
Unit Symbol	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm
Lower Limit	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
262527	< 2	< 10	82	< 0.5	< 2	0.74	10	36	2.41	< 10	< 1	0.32	< 10	0.84	0.149	0.028	0.17	< 2	6	27	0.16	< 20	2
262528	< 2	< 10	118	< 0.5	< 2	0.44	13	40	2.59	< 10	< 1	0.46	< 10	0.89	0.146	0.028	0.17	< 2	7	22	0.18	< 20	< 1
262529	< 2	< 10	111	< 0.5	< 2	0.67	11	39	2.56	< 10	< 1	0.42	< 10	0.92	0.171	0.030	0.15	< 2	7	25	0.18	< 20	< 1
262530	< 2	< 10	94	< 0.5	< 2	0.63	13	38	2.65	< 10	< 1	0.33	< 10	0.89	0.141	0.030	0.18	< 2	6	25	0.16	< 20	2
262531	< 2	43	154	< 0.5	< 2	13.0	< 1	< 1	0.08	< 10	< 1	0.09	< 10	10.4	0.030	0.002	0.03	< 2	< 1	89	< 0.01	< 20	3
262532	< 2	< 10	76	< 0.5	< 2	0.90	12	35	2.55	< 10	< 1	0.26	< 10	0.89	0.126	0.028	0.18	< 2	5	24	0.15	< 20	2
262533	< 2	< 10	66	< 0.5	< 2	1.03	10	32	2.44	< 10	< 1	0.28	< 10	0.88	0.113	0.029	0.16	< 2	5	19	0.13	< 20	1
262534	< 2	< 10	55	< 0.5	< 2	0.80	11	34	2.42	< 10	< 1	0.19	< 10	0.89	0.105	0.031	0.24	< 2	6	19	0.15	< 20	2
262535	< 2	< 10	80	< 0.5	< 2	0.67	10	34	2.24	< 10	< 1	0.30	< 10	0.79	0.116	0.029	0.23	< 2	6	19	0.15	< 20	2
262536	< 2	< 10	77	< 0.5	< 2	0.64	11	33	2.40	< 10	< 1	0.30	< 10	0.82	0.109	0.028	0.20	< 2	5	17	0.14	< 20	< 1
262537	< 2	< 10	74	< 0.5	< 2	0.76	10	28	2.30	< 10	< 1	0.26	< 10	0.79	0.107	0.026	0.14	< 2	4	16	0.12	< 20	1
262538	< 2	< 10	50	< 0.5	< 2	1.20	12	33	2.43	< 10	< 1	0.19	< 10	0.83	0.099	0.028	0.20	< 2	5	24	0.14	< 20	4
262539	< 2	< 10	87	< 0.5	< 2	0.80	10	30	2.40	< 10	< 1	0.29	< 10	0.80	0.151	0.029	0.18	< 2	5	29	0.14	< 20	1
262540	< 2	< 10	82	< 0.5	< 2	0.98	11	30	2.40	< 10	< 1	0.29	< 10	0.79	0.129	0.028	0.19	< 2	5	23	0.14	< 20	< 1
262541	155	< 10	122	< 0.5	< 2	1.64	11	30	3.82	< 10	< 1	0.15	< 10	0.79	0.225	0.051	0.05	3	7	81	0.17	< 20	2
262542	< 2	< 10	99	< 0.5	< 2	0.88	11	32	2.57	< 10	< 1	0.36	< 10	0.81	0.121	0.030	0.17	< 2	5	18	0.15	< 20	4
262543	< 2	< 10	82	< 0.5	< 2	0.96	10	27	2.38	< 10	< 1	0.26	< 10	0.77	0.114	0.027	0.18	< 2	4	20	0.13	< 20	2
262544	2	< 10	81	< 0.5	< 2	0.58	9	25	2.15	< 10	< 1	0.29	< 10	0.70	0.119	0.026	0.16	< 2	4	20	0.13	< 20	< 1
262545	< 2	< 10	86	< 0.5	< 2	0.73	11	30	2.44	< 10	< 1	0.27	< 10	0.81	0.115	0.029	0.19	< 2	5	18	0.12	< 20	< 1
262546	< 2	< 10	66	< 0.5	< 2	0.98	11	33	2.35	< 10	< 1	0.26	< 10	0.82	0.116	0.030	0.17	2	5	28	0.14	< 20	3
262547	< 2	< 10	97	< 0.5	< 2	0.66	11	33	2.55	< 10	< 1	0.32	10	0.92	0.122	0.031	0.21	< 2	5	22	0.14	< 20	2
262548	< 2	< 10	97	< 0.5	< 2	0.62	9	30	2.17	< 10	< 1	0.37	< 10	0.74	0.127	0.029	0.17	< 2	5	20	0.15	< 20	< 1
262549	< 2	< 10	87	< 0.5	< 2	0.68	10	29	2.28	< 10	< 1	0.34	< 10	0.75	0.120	0.027	0.16	< 2	4	20	0.14	< 20	< 1
262550	< 2	< 10	92	< 0.5	< 2	0.60	10	28	2.13	< 10	< 1	0.41	< 10	0.73	0.130	0.027	0.17	< 2	5	19	0.15	< 20	< 1
262551	3	26	2340	< 0.5	< 2	12.7	< 1	< 1	0.08	< 10	< 1	0.02	< 10	9.72	0.148	0.003	0.07	< 2	< 1	140	< 0.01	< 20	4
262552	< 2	< 10	100	< 0.5	< 2	0.67	11	33	2.31	< 10	< 1	0.38	< 10	0.85	0.135	0.030	0.17	< 2	5	22	0.15	< 20	2
262553	< 2	< 10	92	< 0.5	< 2	1.09	12	33	2.49	< 10	< 1	0.33	10	0.95	0.127	0.031	0.17	< 2	5	21	0.13	< 20	6
262554	< 2	< 10	91	< 0.5	< 2	0.70	10	32	2.25	< 10	< 1	0.38	< 10	0.79	0.148	0.031	0.20	< 2	5	22	0.15	< 20	1
262555	< 2	< 10	139	< 0.5	< 2	0.72	13	33	2.72	< 10	< 1	0.61	10	0.86	0.155	0.030	0.26	< 2	6	23	0.16	< 20	< 1
262556	< 2	< 10	128	< 0.5	< 2	0.47	11	30	2.34	< 10	< 1	0.56	< 10	0.74	0.163	0.028	0.22	< 2	5	18	0.15	< 20	< 1
262557	< 2	< 10	116	< 0.5	< 2	0.50	12	33	2.57	< 10	< 1	0.46	10	0.76	0.140	0.031	0.28	< 2	5	20	0.16	< 20	4
262558	< 2	< 10	105	< 0.5	< 2	0.59	11	29	2.21	< 10	< 1	0.45	< 10	0.70	0.120	0.027	0.20	< 2	4	20	0.14	< 20	1
262559	< 2	< 10	110	< 0.5	< 2	0.53	11	29	2.23	< 10	< 1	0.44	< 10	0.72	0.141	0.028	0.18	< 2	5	19	0.13	< 20	< 1
262560	< 2	< 10	72	< 0.5	< 2	0.76	10	28	2.37	< 10	< 1	0.29	< 10	0.75	0.144	0.028	0.23	< 2	4	28	0.14	< 20	< 1

Results

Activation Laboratories Ltd.

Report: A16-06947

Analyte Symbol	Tl	U	V	W	Y	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
262527	< 2	< 10	40	< 10	4	12
262528	< 2	< 10	47	< 10	5	16
262529	< 2	< 10	47	< 10	5	14
262530	< 2	< 10	45	< 10	5	14
262531	< 2	< 10	< 1	< 10	< 1	< 1
262532	< 2	< 10	39	< 10	5	12
262533	< 2	< 10	37	< 10	5	12
262534	< 2	< 10	43	< 10	5	12
262535	< 2	< 10	41	< 10	5	12
262536	3	< 10	39	< 10	4	12
262537	< 2	< 10	34	< 10	4	12
262538	2	< 10	38	< 10	4	12
262539	< 2	< 10	38	< 10	4	12
262540	< 2	< 10	36	< 10	5	12
262541	< 2	< 10	91	< 10	9	5
262542	< 2	< 10	41	< 10	5	14
262543	< 2	< 10	33	< 10	5	13
262544	2	< 10	32	< 10	4	14
262545	< 2	< 10	37	< 10	4	14
262546	< 2	< 10	38	< 10	4	14
262547	< 2	< 10	40	< 10	4	18
262548	< 2	< 10	39	< 10	4	14
262549	< 2	< 10	35	< 10	4	13
262550	< 2	< 10	36	< 10	4	12
262551	3	< 10	< 1	< 10	< 1	< 1
262552	< 2	< 10	39	< 10	4	15
262553	3	< 10	37	< 10	5	12
262554	< 2	< 10	41	< 10	5	13
262555	< 2	< 10	42	< 10	4	14
262556	< 2	< 10	40	< 10	4	15
262557	< 2	< 10	43	< 10	4	16
262558	< 2	< 10	34	< 10	4	15
262559	< 2	< 10	35	< 10	3	14
262560	< 2	< 10	35	< 10	4	11

Analyte Symbol	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P	
Unit Symbol	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%	
Lower Limit	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001	
Method Code	FA-AA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	
GXR-1 Meas		32.3	2.42	411	654	1.12	1390	0.876	2.05	8.56	17.6	1150	23.8	14.4	2.44	0.0464	0.212	6.54	858	18.9	0.0494	46.3	0.0600	
GXR-1 Cert		31.0	3.52	427	750	1.22	1380	0.960	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520	41.0	0.0650	
GXR-4 Meas		3.48	6.82	98.2	118	2.26	14.1	1.08	< 0.3	15.9	34.7	6580	3.12	17.1	1.26	3.83	1.72	9.88	152	347	0.544	46.4	0.130	
GXR-4 Cert		4.00	7.20	98.0	1640	1.90	19.0	1.01	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564	42.0	0.120	
SDC-1 Meas			7.78	< 3	606	2.92		1.05		17.5	60.1	30.4	4.58	20.4	< 1	1.80	0.968	32.4	854		1.43	37.7	0.0531	
SDC-1 Cert			8.34	0.220	630	3.00		1.00		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34.00	880.00		1.52	38.0	0.0690	
GXR-6 Meas		0.459	13.0	281	1250	1.20	< 2	0.163	< 0.3	14.4	62.4	72.4	5.95	29.6	< 1	1.50	0.614	33.5	1100	1.63	0.0969	27.3	0.0362	
GXR-6 Cert		1.30	17.7	330	1300	1.40	0.290	0.180	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104	27.0	0.0350	
OREAS 14P Meas										626		8620	30.6										18000	
OREAS 14P Cert										750		9970	37.2											21000
Oreas 72a (4 Acid Digest) Meas				5.92						152	198	302	9.18											6430
Oreas 72a (4 Acid Digest) Cert				14.7						157	228	316	9.63											6930.000
DNC-1a Meas					97.8					54.4	215	98.9		13.9				4.23						262
DNC-1a Cert					118					57.0	270	100.00		15				5.20						247
SBC-1 Meas			24.9	781	3.27	< 2		< 0.3	22.7	93.1	32.8		26.3					173		2.78				87.1
SBC-1 Cert			25.7	788.0	3.20	0.70		0.40	22.7	109	31.0000		27.0					163.0		2.40				82.8
SdAR-M2 (U.S.G.S.) Meas					1030	7.67	< 2		5.41	14.0	42.6	247		17.5	< 1			18.0		13.9				56.0
SdAR-M2 (U.S.G.S.) Cert					990	6.6	1.05		5.1	12.4	49.6	236.0000		17.6	1.44			17.9		13.3				48.8
OxD128 Meas	415																							
OxD128 Cert	424.000																							
262527 Orig																								
262527 Dup																								
262536 Orig	< 5																							
262536 Dup	< 5																							
262539 Orig		0.708	8.39	< 3	228	< 1	< 2	2.75	< 0.3	11.4	30.5	23.3	2.49	18.3	< 1	0.698	0.805	23.8	456	2.59	3.01	27.6	0.0304	
262539 Dup		0.393	8.24	< 3	217	< 1	< 2	2.71	< 0.3	10.6	30.5	23.2	2.40	19.4	< 1	0.686	0.784	23.5	455	< 1	2.97	26.8	0.0297	
262541 Orig																								
262541 Dup																								
262546 Orig	< 5																							
262546 Dup	< 5																							
262553 Orig		0.466	8.49	< 3	287	< 1	< 2	2.52	< 0.3	11.5	44.1	26.1	2.44	19.9	< 1	0.874	0.931	26.8	379	< 1	3.30	29.1	0.0302	
262553 Dup		0.393	8.52	9.57	287	< 1	< 2	2.52	< 0.3	12.2	48.4	28.6	2.42	20.0	< 1	0.898	0.926	27.1	362	< 1	3.25	29.7	0.0295	
262556 Orig	< 5																							
262556 Dup	< 5																							
Method Blank	< 5																							
Method Blank	< 5																							
Method Blank																								
Method Blank		< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1	< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1	< 1	< 1	< 0.01	< 0.01	< 1	< 0.001	
Method Blank		< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1	< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1	< 1	< 1	< 0.01	< 0.01	< 1	< 0.001	
Method Blank		< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1	< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1	< 1	< 1	< 0.01	< 0.01	< 1	< 0.001	

Analyte Symbol	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al
Unit Symbol	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Lower Limit	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5	0.2	0.5	1	5	1	1	2	2	0.01
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	753	40.6	0.250	< 4	289	26.6	0.0283	< 5	38.6	86.4	168	29.4	748	27.6	30.9	2.6	1210	836	15	35	685	664	0.38
GXR-1 Cert	730	122	0.257	1.58	275	13.0	0.036	0.390	34.9	80.0	164	32.0	760	38.0	31.0	3.30	1110	852	18.0	41.0	730	760	3.52
GXR-4 Meas	51.0	16.0	1.80	8.48	221	8.02	0.296	< 5	< 10	90.1	39.5	13.5	71.9	43.8	3.4	1.0	6410	142	315	35	48	64	2.81
GXR-4 Cert	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20	6.20	87.0	30.8	14.0	73.0	186	4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20
SDC-1 Meas	19.3	< 5		16.2	170		0.208	< 5	< 10	57.0	< 5		91.0	45.6									
SDC-1 Cert	25.00	0.54		17.00	180.00		0.606	0.70	3.10	102.00	0.80		103.00	290.00									
GXR-6 Meas	95.3	< 5	0.0156	28.1	37.2	< 2		< 5	< 10	160	< 5	10.8	126	77.2	0.3	< 0.5	68	1110	2	27	97	118	7.24
GXR-6 Cert	101	3.60	0.0160	27.6	35.0	0.0180		2.20	1.54	186	1.90	14.0	118	110	1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7
OREAS 14P Meas																							
OREAS 14P Cert																							
Oreas 72a (4 Acid Digest) Meas			1.56																				
Oreas 72a (4 Acid Digest) Cert			1.74																				
DNC-1a Meas	3.37	< 5		32.3	132		0.287			144		14.5	55.1	34.5									
DNC-1a Cert	6.3	0.96		31	144.0		0.29			148.0000		18.0	70.0	38.0									
SBC-1 Meas	28.0	< 5		21.1	181		0.527	14.0	< 10	219	< 5	28.4	177	114									
SBC-1 Cert	35.0	1.01		20.0	178.0		0.51	0.89	5.76	220.0	1.60	36.5	186.0	134.0									
SdAR-M2 (U.S.G.S.) Meas	824			4.65	152				< 10	28.0	13.3	26.6	799	127									
SdAR-M2 (U.S.G.S.) Cert	808			4.1	144			2.53	25.2	2.8	32.7	760	259										
OxD128 Meas																							
OxD128 Cert																							
262527 Orig															< 0.2	< 0.5	24	367	< 1	23	3	43	1.69
262527 Dup															< 0.2	< 0.5	23	356	< 1	21	3	42	1.64
262536 Orig																							
262536 Dup																							
262539 Orig	< 3	< 5	0.179	8.06	309	< 2	0.194	< 5	< 10	43.7	< 5	6.30	53.9	69.8									
262539 Dup	< 3	< 5	0.176	7.87	307	2.84	0.199	< 5	< 10	44.7	< 5	6.12	55.4	71.9									
262541 Orig															< 0.2	< 0.5	44	556	4	18	9	42	2.36
262541 Dup															< 0.2	< 0.5	44	560	4	18	10	42	2.33
262546 Orig																							
262546 Dup																							
262553 Orig	4.50	< 5	0.165	8.09	269	4.73	0.238	< 5	< 10	50.4	< 5	6.06	46.3	78.5									
262553 Dup	< 3	< 5	0.165	8.03	271	8.72	0.247	< 5	< 10	51.8	< 5	5.91	46.1	79.7									
262556 Orig																							
262556 Dup																							
Method Blank																							
Method Blank																							
Method Blank															< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01
Method Blank															< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01
Method Blank	< 3	< 5	< 0.01	< 4	< 1	2.78	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5									
Method Blank	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5									
Method Blank	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5									

Analyte Symbol	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te
Unit Symbol	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppm	ppm	
Lower Limit	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	396	10	520	0.8	1530	0.80	6	7	25.6	< 10	4	0.03	< 10	0.15	0.073	0.050	0.23	91	1	197	< 0.01	< 20	12
GXR-1 Cert	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0
GXR-4 Meas	97	< 10	93	1.4	20	0.91	15	55	3.27	10	< 1	1.77	51	1.69	0.139	0.130	1.78	4	7	74	0.13	< 20	< 1
GXR-4 Cert	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970
SDC-1 Meas																							
SDC-1 Cert																							
GXR-6 Meas	242	< 10	968	0.9	2	0.13	13	82	6.03	20	3	1.19	10	0.42	0.112	0.037	0.01	4	21	26		< 20	< 1
GXR-6 Cert	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180
OREAS 14P Meas																							
OREAS 14P Cert																							
Oreas 72a (4 Acid Digest) Meas																							
Oreas 72a (4 Acid Digest) Cert																							
DNC-1a Meas																							
DNC-1a Cert																							
SBC-1 Meas																							
SBC-1 Cert																							
SdAR-M2 (U.S.G.S.) Meas																							
SdAR-M2 (U.S.G.S.) Cert																							
OxD128 Meas																							
OxD128 Cert																							
262527 Orig	< 2	< 10	84	< 0.5	< 2	0.76	11	37	2.46	< 10	< 1	0.33	< 10	0.85	0.154	0.029	0.17	< 2	6	27	0.16	< 20	1
262527 Dup	< 2	< 10	80	< 0.5	< 2	0.72	10	35	2.37	< 10	< 1	0.31	< 10	0.82	0.145	0.028	0.17	< 2	5	26	0.15	< 20	3
262536 Orig																							
262536 Dup																							
262539 Orig																							
262539 Dup																							
262541 Orig	155	< 10	122	< 0.5	< 2	1.64	11	30	3.82	< 10	< 1	0.15	< 10	0.78	0.224	0.051	0.05	2	7	81	0.17	< 20	2
262541 Dup	155	< 10	121	< 0.5	< 2	1.64	11	30	3.82	< 10	1	0.15	< 10	0.79	0.227	0.051	0.05	3	7	81	0.17	< 20	3
262546 Orig																							
262546 Dup																							
262553 Orig																							
262553 Dup																							
262556 Orig																							
262556 Dup																							
Method Blank																							
Method Blank																							
Method Blank	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1
Method Blank	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Tl	U	V	W	Y	Zr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	< 2	31	78	153	25	15
GXR-1 Cert	0.390	34.9	80.0	164	32.0	38.0
GXR-4 Meas	3	< 10	79	12	11	10
GXR-4 Cert	3.20	6.20	87.0	30.8	14.0	186
SDC-1 Meas						
SDC-1 Cert						
GXR-6 Meas	2	< 10	172	< 10	5	10
GXR-6 Cert	2.20	1.54	186	1.90	14.0	110
OREAS 14P Meas						
OREAS 14P Cert						
Oreas 72a (4 Acid Digest) Meas						
Oreas 72a (4 Acid Digest) Cert						
DNC-1a Meas						
DNC-1a Cert						
SBC-1 Meas						
SBC-1 Cert						
SdAR-M2 (U.S.G.S.) Meas						
SdAR-M2 (U.S.G.S.) Cert						
OxD128 Meas						
OxD128 Cert						
262527 Orig	< 2	< 10	41	< 10	5	12
262527 Dup	< 2	< 10	39	< 10	4	12
262536 Orig						
262536 Dup						
262539 Orig						
262539 Dup						
262541 Orig	< 2	< 10	91	< 10	9	5
262541 Dup	< 2	< 10	91	< 10	9	5
262546 Orig						
262546 Dup						
262553 Orig						
262553 Dup						
262556 Orig						
262556 Dup						
Method Blank						
Method Blank						
Method Blank	2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank						
Method Blank						
Method Blank						



Date Submitted: 19-Jul-16
Invoice No.: A16-06946
Invoice Date: 05-Aug-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

39 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1E3-Tbay Aqua Regia ICP(AQUAGEO)

Code 1F2-Tbay Total Digestion ICP(TOTAL)

REPORT **A16-06946**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Elitsa Hrischeva".

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Date Submitted: 19-Jul-16
Invoice No.: A16-06946
Invoice Date: 05-Aug-16
Your Reference: Geraldton

Greenstone Gold Mines GP Inc.
135 Hardrock Road
Geraldton ON P0T 1M0
Canada

ATTN: Tom Salmi

CERTIFICATE OF ANALYSIS

39 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-50-Geraldton Au - Fire Assay AA

REPORT **A16-06946**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.



CERTIFIED BY:

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva".

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
801 Main Street, P.O. Box 999, Geraldton, Ontario, Canada, P0T 1M0
TELEPHONE +807 854-2020 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Geraldton@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A16-06946

Analyte Symbol	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P
Unit Symbol	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%
Lower Limit	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001
Method Code	FA-AA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
262069	12	0.332	7.98	51.8	107	< 1	7.11	6.15	< 0.3	41.2	181	56.8	9.50	16.6	< 1	0.621	2.80	19.3	3130	< 1	1.28	114	0.0785
262070	< 5	< 0.3	0.0692	< 3	108	< 1	< 2	18.0	0.601	1.80	10.6	< 1	0.0869	< 1	< 1	0.0415	11.9	10.2	298	< 1	0.0263	1.70	0.00291
262071	7	< 0.3	8.43	57.5	201	< 1	2.75	5.70	< 0.3	43.0	141	99.7	8.12	22.4	< 1	1.13	1.93	30.6	2440	< 1	1.75	123	0.0825
262072	8	0.305	7.32	13.0	270	< 1	< 2	5.76	< 0.3	38.9	108	54.9	9.02	19.6	< 1	0.884	3.87	24.9	1260	< 1	1.36	113	0.0866
262073	9	< 0.3	6.78	136	156	< 1	< 2	4.95	< 0.3	62.3	235	40.6	10.1	16.5	< 1	0.814	6.00	27.9	1310	< 1	1.14	323	0.0809
262074	10	< 0.3	6.81	129	114	< 1	< 2	5.02	< 0.3	60.6	208	51.1	9.77	18.0	< 1	0.638	5.66	21.4	1320	< 1	1.39	318	0.0719
262075	13	< 0.3	6.59	129	30.8	< 1	< 2	5.14	< 0.3	70.9	280	64.4	10.4	18.9	< 1	0.212	6.44	21.7	1380	< 1	0.920	384	0.0685
262076	12	< 0.3	6.89	40.7	78.8	< 1	4.21	5.03	< 0.3	53.6	241	87.4	10.1	14.0	< 1	0.568	5.02	23.1	1150	< 1	1.44	235	0.0742
262077	6	0.328	7.15	38.7	103	< 1	< 2	4.62	< 0.3	39.4	216	72.2	8.41	13.7	1.54	0.594	3.76	18.3	1140	< 1	2.35	137	0.0765
262078	79	< 0.3	6.39	47.6	79.9	< 1	< 2	3.99	< 0.3	33.8	209	108	6.43	16.8	< 1	0.497	3.06	15.4	954	< 1	2.75	132	0.0649
262079	5	0.331	7.17	48.9	93.1	< 1	< 2	5.08	< 0.3	32.8	194	39.2	6.27	19.0	< 1	0.522	3.19	27.1	834	< 1	2.36	125	0.0633
262080	< 5	< 0.3	7.66	30.1	50.6	< 1	< 2	5.06	< 0.3	30.0	132	8.47	6.22	17.5	< 1	0.350	3.11	19.6	856	< 1	2.61	116	0.0559
262081	415	< 0.3	8.03	126	471	< 1	< 2	3.98	< 0.3	15.1	32.7	45.8	4.82	15.9	< 1	0.837	1.39	7.46	923	1.86	2.42	26.5	0.0471
262082	< 5	< 0.3	8.11	50.7	117	< 1	< 2	5.58	< 0.3	34.2	101	15.5	7.11	20.3	5.96	0.517	3.44	22.9	1010	< 1	2.11	124	0.0696
262083	5	0.338	8.46	23.1	91.6	< 1	2.73	5.61	< 0.3	37.8	107	21.1	6.95	18.0	< 1	0.592	3.20	25.5	960	< 1	2.49	124	0.0617
262084	8	0.370	8.46	18.5	152	< 1	< 2	4.77	0.332	35.9	115	49.2	7.27	19.5	< 1	0.874	3.36	24.1	1010	< 1	2.62	121	0.0736
262085	< 5	0.328	8.77	19.6	203	< 1	< 2	5.63	< 0.3	37.7	71.1	12.7	7.28	22.1	< 1	0.885	2.77	24.3	1090	< 1	2.48	95.0	0.0748
262086	5	< 0.3	8.02	31.9	155	< 1	11.5	5.85	0.397	29.4	33.7	40.6	7.27	20.1	2.80	0.556	1.96	25.8	1020	< 1	2.39	57.6	0.0898
262087	< 5	< 0.3	6.87	24.8	127	< 1	< 2	5.16	< 0.3	29.6	6.68	21.6	7.90	15.4	7.73	0.492	1.52	14.3	1240	< 1	2.59	28.4	0.124
262507	< 5	0.363	5.18	< 3	198	< 1	< 2	0.977	< 0.3	10.7	123	15.4	2.24	13.0	< 1	0.640	0.911	21.2	330	< 1	3.18	27.1	0.0284
262508	< 5	0.662	7.47	9.29	283	< 1	< 2	1.54	< 0.3	9.46	37.4	20.2	2.28	18.0	< 1	1.26	0.917	22.4	283	< 1	2.73	24.3	0.0272
262509	< 5	< 0.3	8.17	< 3	219	< 1	< 2	2.26	0.305	8.98	23.1	21.6	2.16	18.2	< 1	0.758	0.858	20.7	344	1.45	3.19	21.5	0.0266
262510	5	< 0.3	7.77	3.90	211	< 1	< 2	2.22	< 0.3	11.2	27.7	23.0	2.30	17.1	< 1	0.796	0.806	21.9	355	< 1	2.99	29.1	0.0285
262511	< 5	< 0.3	0.0922	< 3	85.3	< 1	< 2	19.1	0.316	1.75	3.31	< 1	0.0764	1.75	< 1	0.0380	12.4	10.4	311	< 1	0.0391	< 1	0.00458
262512	< 5	< 0.3	8.00	< 3	303	< 1	< 2	2.36	< 0.3	12.6	32.2	32.6	2.53	18.4	< 1	1.04	0.902	22.9	353	3.99	2.79	28.6	0.0308
262513	< 5	< 0.3	7.95	< 3	231	< 1	< 2	1.98	0.351	10.6	38.4	31.7	2.32	18.0	< 1	0.802	0.856	19.5	334	< 1	3.55	32.5	0.0290
262514	5	< 0.3	8.26	< 3	312	< 1	< 2	2.14	< 0.3	12.0	39.3	27.1	2.62	17.8	< 1	0.974	0.972	23.2	429	< 1	3.13	33.7	0.0316
262515	< 5	< 0.3	8.50	< 3	275	< 1	< 2	2.55	< 0.3	13.4	38.4	26.4	2.57	20.1	< 1	0.798	0.902	22.9	437	< 1	3.19	34.2	0.0330
262516	< 5	0.706	7.99	< 3	262	< 1	< 2	2.26	< 0.3	11.8	39.1	24.7	2.50	18.2	2.34	0.774	0.903	22.3	416	< 1	3.03	30.9	0.0309
262517	6	< 0.3	5.35	< 3	195	< 1	< 2	1.63	< 0.3	11.3	35.7	19.2	2.01	15.4	< 1	0.885	0.779	22.5	361	< 1	2.83	24.9	0.0295
262518	5	0.494	7.18	< 3	230	< 1	< 2	2.64	< 0.3	9.99	43.8	20.1	2.22	15.4	< 1	0.885	0.833	21.7	414	2.87	2.66	27.0	0.0310
262519	< 5	0.317	7.81	< 3	282	< 1	< 2	2.45	< 0.3	10.6	34.7	26.6	2.49	17.8	1.24	0.825	0.905	22.9	412	< 1	2.93	35.3	0.0311
262520	< 5	0.381	8.02	< 3	225	< 1	< 2	2.47	< 0.3	10.8	28.8	25.3	2.42	17.0	< 1	0.702	0.908	20.7	372	< 1	3.14	33.0	0.0322
262521	> 5000	8.47	5.54	77.0	86.4	< 1	< 2	1.52	12.4	11.1	28.6	1220	7.02	14.1	< 1	1.35	1.87	12.3	584	85.0	1.26	60.2	0.0417
262522	< 5	0.377	8.06	7.55	236	< 1	< 2	2.54	0.511	11.0	36.9	25.3	2.39	19.7	< 1	0.675	0.843	20.1	395	1.41	3.01	37.9	0.0277
262523	8	0.311	8.12	3.11	238	< 1	< 2	2.41	0.390	12.9	35.9	31.9	2.44	18.7	< 1	0.853	0.892	24.4	378	3.22	2.93	31.9	0.0295
262524	< 5	0.671	8.03	3.46	252	< 1	< 2	2.44	< 0.3	12.3	42.8	26.6	2.35	17.9	< 1	0.737	0.872	22.3	392	1.72	2.98	34.4	0.0321
262525	< 5	< 0.3	7.72	< 3	246	< 1	< 2	2.87	0.463	10.9	49.8	19.8	2.36	19.0	< 1	0.840	0.793	21.3	434	2.70	2.55	28.6	0.0279
262526	< 5	< 0.3	8.13	8.75	279	< 1	< 2	2.44	< 0.3	11.0	31.7	19.6	2.40	18.2	< 1	0.897	0.826	22.6	391	2.39	2.89	31.6	0.0283

Results

Activation Laboratories Ltd.

Report: A16-06946

Analyte Symbol	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al
Unit Symbol	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Lower Limit	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5	0.2	0.5	1	5	1	1	2	2	0.01
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
262069	3.27	< 5	0.259	30.7	96.2	< 2	0.290	< 5	< 10	129	< 5	22.6	112	61.8	< 0.2	< 0.5	57	1340	< 1	74	2	64	4.28
262070	< 3	< 5	0.0156	< 4	127	3.80	< 0.01	< 5	< 10	3.49	< 5	< 1	8.27	< 5	< 0.2	< 0.5	< 1	231	< 1	< 1	4	5	0.04
262071	6.08	< 5	0.134	33.9	124	8.20	0.300	< 5	< 10	129	5.50	24.3	127	56.6	< 0.2	< 0.5	89	1400	< 1	92	5	95	3.75
262072	< 3	< 5	0.0205	30.3	117	8.17	0.431	< 5	< 10	108	< 5	25.8	86.9	64.6	< 0.2	< 0.5	53	478	< 1	72	3	50	3.25
262073	8.79	< 5	0.0156	25.1	136	21.6	0.593	< 5	< 10	144	< 5	19.5	101	58.9	< 0.2	< 0.5	43	346	< 1	233	< 2	62	3.43
262074	< 3	< 5	0.0183	24.4	138	4.14	0.430	< 5	< 10	107	< 5	20.4	91.3	60.2	< 0.2	< 0.5	52	300	< 1	211	< 2	41	2.66
262075	6.08	< 5	0.0191	24.2	97.6	4.69	0.295	< 5	< 10	114	< 5	19.8	87.1	68.8	< 0.2	< 0.5	65	347	< 1	263	< 2	43	3.51
262076	11.2	< 5	0.0152	27.4	127	12.5	0.210	< 5	< 10	80.2	< 5	24.2	74.5	43.3	< 0.2	< 0.5	84	281	< 1	141	< 2	34	2.65
262077	5.46	14.2	0.0585	26.9	121	8.37	0.180	< 5	< 10	86.3	< 5	20.8	77.6	48.7	< 0.2	< 0.5	76	304	< 1	75	< 2	42	1.75
262078	< 3	< 5	0.0249	16.1	156	8.75	0.562	< 5	< 10	142	< 5	14.5	69.9	77.3	< 0.2	< 0.5	122	241	< 1	71	< 2	35	1.45
262079	5.19	< 5	0.0118	20.8	164	16.4	0.537	< 5	< 10	137	6.74	16.0	105	75.9	< 0.2	< 0.5	44	397	< 1	86	< 2	85	2.08
262080	< 3	< 5	< 0.01	20.8	179	4.69	0.178	< 5	< 10	62.3	< 5	17.5	68.2	52.2	< 0.2	< 0.5	8	293	< 1	61	< 2	39	1.71
262081	9.19	< 5	0.0488	21.2	308	3.51	0.203	< 5	< 10	97.9	< 5	18.1	58.0	24.0	< 0.2	< 0.5	44	520	4	16	9	41	2.35
262082	< 3	14.2	< 0.01	22.5	129	7.96	0.411	< 5	< 10	116	< 5	15.6	73.6	60.6	< 0.2	< 0.5	15	413	< 1	70	< 2	44	2.21
262083	5.10	< 5	< 0.01	22.2	195	36.2	0.470	< 5	< 10	126	< 5	17.6	64.9	76.8	< 0.2	< 0.5	21	405	< 1	72	< 2	39	2.13
262084	5.31	7.54	0.0106	22.3	175	6.68	0.511	< 5	< 10	136	< 5	17.9	83.1	78.8	< 0.2	< 0.5	49	344	< 1	73	< 2	51	2.18
262085	4.96	< 5	< 0.01	24.2	224	21.9	0.547	< 5	< 10	148	< 5	17.3	74.9	51.2	< 0.2	< 0.5	12	493	< 1	67	< 2	51	2.39
262086	< 3	< 5	0.0511	25.0	232	8.25	0.148	< 5	< 10	60.4	< 5	22.4	113	28.3	< 0.2	< 0.5	40	568	< 1	36	4	83	2.29
262087	< 3	< 5	0.0975	24.9	142	7.17	0.128	< 5	< 10	75.7	< 5	29.3	86.3	53.2	< 0.2	< 0.5	22	611	< 1	13	< 2	56	1.90
262507	< 3	< 5	0.0391	4.49	237	< 2	0.241	< 5	< 10	48.2	< 5	3.39	34.1	79.5	< 0.2	< 0.5	17	322	< 1	22	< 2	35	1.65
262508	< 3	< 5	0.0494	6.34	234	6.74	0.209	< 5	< 10	44.2	< 5	5.58	31.0	74.7	< 0.2	< 0.5	23	280	< 1	19	< 2	32	1.73
262509	< 3	< 5	0.133	6.86	368	4.54	0.209	< 5	< 10	43.3	< 5	5.71	46.8	77.1	< 0.2	< 0.5	20	339	< 1	17	2	47	1.45
262510	< 3	< 5	0.166	7.51	319	< 2	0.201	< 5	< 10	43.4	< 5	6.50	44.9	73.3	< 0.2	< 0.5	25	338	< 1	23	< 2	44	1.38
262511	5.48	< 5	< 0.01	< 4	135	3.25	< 0.01	< 5	< 10	2.78	< 5	< 1	14.1	< 5	< 0.2	< 0.5	< 1	242	< 1	1	6	10	0.04
262512	< 3	< 5	0.206	8.67	295	8.77	0.172	< 5	< 10	36.0	< 5	7.26	38.6	66.7	< 0.2	< 0.5	27	332	< 1	25	< 2	38	1.55
262513	< 3	< 5	0.130	7.79	313	3.69	0.217	< 5	< 10	45.9	< 5	6.78	31.7	74.6	< 0.2	< 0.5	33	319	< 1	24	< 2	30	1.38
262514	< 3	< 5	0.183	8.58	331	< 2	0.265	< 5	< 10	54.3	< 5	7.16	47.8	85.3	< 0.2	< 0.5	27	399	< 1	27	< 2	46	1.55
262515	< 3	< 5	0.223	8.43	358	6.61	0.269	< 5	< 10	56.4	< 5	7.10	49.4	92.2	< 0.2	0.5	26	386	< 1	25	< 2	48	1.44
262516	3.37	< 5	0.193	8.36	303	4.40	0.175	< 5	< 10	41.1	< 5	6.92	59.4	72.9	< 0.2	< 0.5	24	366	< 1	25	< 2	56	1.54
262517	< 3	< 5	0.196	4.60	226	6.78	0.233	< 5	< 10	48.0	< 5	4.45	30.4	82.8	< 0.2	< 0.5	21	342	< 1	22	< 2	30	1.49
262518	< 3	< 5	0.158	7.63	250	2.80	0.235	< 5	< 10	49.2	< 5	6.53	40.7	83.7	< 0.2	< 0.5	22	375	< 1	24	< 2	40	1.50
262519	3.04	5.98	0.216	8.38	280	5.82	0.210	< 5	< 10	45.2	< 5	6.68	54.7	76.4	< 0.2	< 0.5	25	361	< 1	26	< 2	48	1.52
262520	< 3	< 5	0.192	8.25	275	< 2	0.202	7.06	< 10	45.0	< 5	6.44	49.8	78.2	< 0.2	< 0.5	23	328	< 1	25	< 2	47	1.45
262521	198	5.93	4.17	12.0	190	< 2	0.181	< 5	< 10	75.8	10.7	11.2	2300	45.2	7.0	12.8	1230	591	80	45	203	2210	1.46
262522	4.37	< 5	0.186	7.65	292	2.41	0.209	< 5	< 10	44.1	< 5	5.74	51.0	67.4	< 0.2	< 0.5	22	344	< 1	24	< 2	47	1.47
262523	< 3	< 5	0.203	7.95	295	4.30	0.216	< 5	< 10	47.2	< 5	6.03	45.2	77.5	< 0.2	< 0.5	26	341	< 1	24	< 2	41	1.62
262524	5.30	< 5	0.169	8.08	292	< 2	0.242	6.97	< 10	51.2	< 5	6.50	42.6	79.3	< 0.2	< 0.5	22	337	< 1	25	< 2	40	1.55
262525	< 3	< 5	0.120	7.23	271	7.07	0.227	< 5	< 10	52.3	< 5	5.80	42.8	70.4	< 0.2	< 0.5	19	357	< 1	23	< 2	40	1.68
262526	< 3	11.6	0.121	8.53	283	< 2	0.167	< 5	< 10	45.8	< 5	6.32	54.1	64.5	< 0.2	< 0.5	19	350	1	25	< 2	52	1.55

Results

Activation Laboratories Ltd.

Report: A16-06946

Analyte Symbol	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te
Unit Symbol	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm
Lower Limit	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
262069	86	< 10	80	< 0.5	< 2	3.70	33	133	5.79	10	< 1	0.40	< 10	1.64	0.367	0.094	0.28	4	14	46	0.17	< 20	13
262070	< 2	20	121	< 0.5	< 2	13.0	< 1	< 1	0.06	< 10	< 1	0.03	< 10	10.00	0.021	0.002	< 0.01	3	< 1	112	< 0.01	< 20	6
262071	96	< 10	178	< 0.5	< 2	3.43	38	151	6.35	10	< 1	0.87	< 10	1.57	0.299	0.098	0.13	< 2	21	31	0.20	< 20	8
262072	45	< 10	219	< 0.5	< 2	3.13	27	99	5.28	10	< 1	0.63	< 10	2.24	0.240	0.119	0.02	< 2	13	33	0.20	< 20	10
262073	207	< 10	172	< 0.5	4	2.18	49	255	5.46	< 10	< 1	0.73	< 10	3.37	0.170	0.093	0.01	4	8	36	0.14	< 20	5
262074	250	< 10	132	< 0.5	< 2	1.56	52	210	4.42	< 10	< 1	0.59	< 10	2.74	0.172	0.095	0.02	< 2	7	20	0.14	< 20	15
262075	292	< 10	18	< 0.5	< 2	2.05	55	262	5.03	< 10	< 1	0.05	< 10	3.34	0.215	0.091	0.02	6	7	43	0.09	< 20	5
262076	131	< 10	83	< 0.5	6	1.92	40	196	4.48	< 10	< 1	0.47	< 10	2.43	0.216	0.104	0.01	4	10	27	0.15	< 20	2
262077	76	< 10	111	< 0.5	< 2	1.67	29	139	3.81	< 10	< 1	0.54	< 10	1.70	0.163	0.098	0.06	3	11	11	0.18	< 20	9
262078	50	< 10	82	< 0.5	< 2	1.21	24	129	2.96	< 10	< 1	0.48	< 10	1.54	0.151	0.074	0.02	< 2	8	11	0.18	< 20	3
262079	49	< 10	79	< 0.5	2	2.75	27	129	4.21	< 10	< 1	0.38	10	2.09	0.131	0.072	< 0.01	< 2	11	23	0.15	< 20	2
262080	53	< 10	27	< 0.5	< 2	2.19	24	90	3.17	< 10	< 1	0.12	11	1.60	0.144	0.072	< 0.01	< 2	9	16	0.14	< 20	4
262081	151	< 10	124	< 0.5	< 2	1.62	9	31	3.76	< 10	< 1	0.15	< 10	0.77	0.213	0.050	0.05	3	7	81	0.16	< 20	6
262082	41	< 10	71	< 0.5	< 2	2.60	24	107	3.99	< 10	< 1	0.23	< 10	1.87	0.181	0.085	< 0.01	3	10	19	0.14	< 20	4
262083	44	< 10	50	< 0.5	< 2	2.61	25	99	4.01	< 10	< 1	0.27	< 10	1.81	0.167	0.072	< 0.01	< 2	10	21	0.16	< 20	< 1
262084	35	< 10	142	< 0.5	< 2	1.69	26	111	4.14	< 10	< 1	0.74	12	1.93	0.182	0.082	< 0.01	< 2	10	16	0.19	< 20	2
262085	20	< 10	127	< 0.5	< 2	2.60	24	68	4.74	10	< 1	0.55	< 10	1.85	0.173	0.084	< 0.01	< 2	12	23	0.21	< 20	< 1
262086	16	< 10	124	< 0.5	< 2	3.39	22	28	5.16	10	< 1	0.39	14	1.40	0.164	0.113	0.05	< 2	14	31	0.17	< 20	7
262087	6	< 10	115	< 0.5	< 2	3.21	18	2	5.05	< 10	< 1	0.44	17	1.06	0.193	0.154	0.10	< 2	14	16	0.19	< 20	7
262507	< 2	< 10	34	< 0.5	< 2	0.37	9	39	2.60	< 10	< 1	0.10	< 10	1.08	0.098	0.024	0.04	3	6	19	0.14	< 20	< 1
262508	< 2	< 10	60	< 0.5	< 2	0.90	9	24	2.44	< 10	< 1	0.27	< 10	0.95	0.075	0.025	0.05	3	3	17	0.04	< 20	< 1
262509	< 2	< 10	43	< 0.5	< 2	0.54	9	30	2.29	< 10	< 1	0.15	< 10	0.94	0.112	0.022	0.14	< 2	6	23	0.14	< 20	< 1
262510	< 2	< 10	43	< 0.5	< 2	0.74	13	34	2.35	< 10	< 1	0.14	< 10	0.84	0.089	0.025	0.18	< 2	5	20	0.13	< 20	1
262511	< 2	23	69	< 0.5	< 2	13.0	< 1	< 1	0.04	< 10	< 1	0.01	< 10	9.83	0.022	0.005	< 0.01	< 2	< 1	111	< 0.01	< 20	2
262512	< 2	< 10	67	< 0.5	< 2	1.06	13	34	2.60	< 10	< 1	0.23	< 10	0.88	0.086	0.030	0.22	< 2	5	22	0.10	< 20	3
262513	< 2	< 10	30	< 0.5	< 2	0.83	12	36	2.32	< 10	< 1	0.11	< 10	0.88	0.091	0.024	0.13	< 2	5	25	0.12	< 20	2
262514	< 2	< 10	52	< 0.5	< 2	0.67	13	39	2.68	< 10	< 1	0.15	< 10	0.99	0.095	0.028	0.19	< 2	6	21	0.14	< 20	2
262515	< 2	< 10	56	< 0.5	< 2	0.61	12	38	2.53	< 10	< 1	0.15	< 10	0.91	0.096	0.029	0.22	< 2	6	24	0.15	< 20	3
262516	< 2	< 10	78	< 0.5	< 2	0.54	12	40	2.58	< 10	< 1	0.25	< 10	0.95	0.114	0.030	0.20	< 2	6	18	0.15	< 20	< 1
262517	< 2	< 10	50	< 0.5	< 2	0.82	10	35	2.38	< 10	< 1	0.23	< 10	0.88	0.100	0.030	0.22	< 2	5	18	0.11	< 20	3
262518	< 2	< 10	76	< 0.5	< 2	1.23	11	34	2.38	< 10	< 1	0.31	< 10	0.90	0.099	0.032	0.19	< 2	6	21	0.13	< 20	3
262519	< 2	< 10	101	< 0.5	< 2	0.60	12	41	2.54	< 10	< 1	0.39	< 10	0.95	0.116	0.032	0.22	< 2	7	18	0.16	< 20	7
262520	< 2	< 10	111	< 0.5	< 2	0.46	12	39	2.47	< 10	< 1	0.42	< 10	0.95	0.111	0.032	0.19	< 2	6	16	0.15	< 20	< 1
262521	73	< 10	30	< 0.5	2	1.09	9	25	6.96	< 10	2	0.21	12	1.68	0.063	0.041	3.98	13	4	61	0.05	< 20	< 1
262522	< 2	< 10	99	< 0.5	< 2	0.53	11	39	2.42	< 10	< 1	0.33	< 10	0.86	0.126	0.027	0.20	< 2	5	20	0.15	< 20	4
262523	5	< 10	90	< 0.5	< 2	0.70	11	39	2.56	< 10	< 1	0.37	< 10	0.94	0.123	0.030	0.20	2	6	21	0.14	< 20	< 1
262524	< 2	< 10	59	< 0.5	< 2	0.66	11	41	2.39	< 10	< 1	0.24	< 10	0.89	0.116	0.032	0.17	< 2	6	20	0.16	< 20	3
262525	< 2	< 10	93	< 0.5	< 2	0.83	10	39	2.28	< 10	< 1	0.38	< 10	0.81	0.114	0.027	0.13	< 2	6	26	0.16	< 20	< 1
262526	< 2	< 10	72	< 0.5	< 2	0.57	11	40	2.41	< 10	< 1	0.29	< 10	0.84	0.104	0.026	0.13	< 2	6	20	0.15	< 20	< 1

Results

Activation Laboratories Ltd.

Report: A16-06946

Analyte Symbol	Tl	U	V	W	Y	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne
Lower Limit	2	10	1	10	1	1	0.02
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-GRA
262069	< 2	< 10	103	< 10	12	4	
262070	< 2	< 10	1	< 10	< 1	< 1	
262071	4	< 10	151	< 10	17	4	
262072	< 2	< 10	106	< 10	14	5	
262073	3	< 10	79	< 10	8	4	
262074	< 2	< 10	69	< 10	8	5	
262075	< 2	< 10	66	< 10	8	5	
262076	< 2	< 10	82	< 10	11	5	
262077	< 2	< 10	93	< 10	11	6	
262078	< 2	< 10	73	< 10	10	7	
262079	3	< 10	80	< 10	10	5	
262080	2	< 10	67	< 10	10	5	
262081	< 2	< 10	89	< 10	9	5	
262082	< 2	< 10	74	< 10	9	6	
262083	< 2	< 10	74	< 10	10	7	
262084	2	< 10	84	< 10	11	8	
262085	2	< 10	96	< 10	11	5	
262086	< 2	< 10	104	< 10	15	5	
262087	3	< 10	120	< 10	20	7	
262507	< 2	< 10	42	< 10	5	13	
262508	< 2	< 10	29	< 10	4	10	
262509	< 2	< 10	41	< 10	4	14	
262510	< 2	< 10	39	< 10	5	12	
262511	< 2	< 10	< 1	< 10	< 1	< 1	
262512	< 2	< 10	38	< 10	6	13	
262513	< 2	< 10	40	< 10	5	12	
262514	< 2	< 10	44	< 10	6	13	
262515	< 2	< 10	46	< 10	5	14	
262516	< 2	< 10	46	< 10	5	14	
262517	< 2	< 10	40	< 10	5	13	
262518	< 2	< 10	42	< 10	5	12	
262519	< 2	< 10	48	< 10	5	14	
262520	4	< 10	47	< 10	5	14	
262521	< 2	< 10	48	11	5	8	6.11
262522	< 2	< 10	42	< 10	4	11	
262523	< 2	< 10	44	< 10	5	14	
262524	< 2	< 10	45	< 10	5	13	
262525	2	< 10	43	< 10	4	11	
262526	< 2	< 10	41	< 10	5	12	

Analyte Symbol	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P
Unit Symbol	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%
Lower Limit	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001
Method Code	FA-AA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas		32.3	2.42	411	654	1.12	1390	0.876	2.05	8.56	17.6	1150	23.8	14.4	2.44	0.0464	0.212	6.54	858	18.9	0.0494	46.3	0.0600
GXR-1 Cert		31.0	3.52	427	750	1.22	1380	0.960	3.30	8.20	12.0	1110	23.6	13.8	3.90	0.050	0.217	8.20	852	18.0	0.0520	41.0	0.0650
GXR-1 Meas																							
GXR-1 Cert																							
GXR-4 Meas		3.48	6.82	98.2	118	2.26	14.1	1.08	< 0.3	15.9	34.7	6580	3.12	17.1	1.26	3.83	1.72	9.88	152	347	0.544	46.4	0.130
GXR-4 Cert		4.00	7.20	98.0	1640	1.90	19.0	1.01	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	1.66	11.1	155	310	0.564	42.0	0.120
GXR-4 Meas																							
GXR-4 Cert																							
SDC-1 Meas			7.78	< 3	606	2.92		1.05		17.5	60.1	30.4	4.58	20.4	< 1	1.80	0.968	32.4	854		1.43	37.7	0.0531
SDC-1 Cert			8.34	0.220	630	3.00		1.00		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34.00	880.00		1.52	38.0	0.0690
GXR-6 Meas		0.459	13.0	281	1250	1.20	< 2	0.163	< 0.3	14.4	62.4	72.4	5.95	29.6	< 1	1.50	0.614	33.5	1100	1.63	0.0969	27.3	0.0362
GXR-6 Cert		1.30	17.7	330	1300	1.40	0.290	0.180	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	0.609	32.0	1010	2.40	0.104	27.0	0.0350
GXR-6 Meas																							
GXR-6 Cert																							
OREAS 14P Meas										626		8620	30.6										18000
OREAS 14P Cert										750		9970	37.2										21000
Oreas 72a (4 Acid Digest) Meas				5.92						152	198	302	9.18										6430
Oreas 72a (4 Acid Digest) Cert				14.7						157	228	316	9.63										6930.000
DNC-1a Meas					97.8					54.4	215	98.9		13.9				4.23					262
DNC-1a Cert					118					57.0	270	100.00		15				5.20					247
OxP 91 Meas																							
OxP 91 Cert																							
SBC-1 Meas				24.9	781	3.27	< 2		< 0.3	22.7	93.1	32.8		26.3				173		2.78			87.1
SBC-1 Cert				25.7	788.0	3.20	0.70		0.40	22.7	109	31.0000		27.0				163.0		2.40			82.8
OxK110 Meas																							
OxK110 Cert																							
SdAR-M2 (U.S.G.S.) Meas					1030	7.67	< 2		5.41	14.0	42.6	247		17.5	< 1			18.0		13.9			56.0
SdAR-M2 (U.S.G.S.) Cert					990	6.6	1.05		5.1	12.4	49.6	236.0000		17.6	1.44			17.9		13.3			48.8
SF85 Meas	849																						
SF85 Cert	848																						
262078 Orig	79																						
262081 Orig		< 0.3	8.11	139	474	< 1	< 2	4.00	< 0.3	14.8	32.9	46.5	4.86	14.0	< 1	0.836	1.40	7.43	933	2.20	2.44	25.1	0.0484
262081 Dup		< 0.3	7.94	113	468	< 1	< 2	3.97	0.443	15.3	32.4	45.0	4.79	17.8	< 1	0.838	1.38	7.49	913	1.51	2.40	27.9	0.0459
262507 Orig	< 5																						
262507 Dup	< 5																						
262514 Orig		< 0.3	8.18	< 3	312	< 1	< 2	2.13	0.388	12.4	41.4	26.8	2.60	17.4	< 1	0.941	0.965	23.1	430	< 1	3.11	35.5	0.0312
262514 Dup		< 0.3	8.35	< 3	311	< 1	< 2	2.16	< 0.3	11.7	37.2	27.5	2.64	18.1	< 1	1.01	0.979	23.3	427	< 1	3.15	32.0	0.0321
262517 Orig	6																						
262517 Dup	5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank																							
Method Blank																							
Method Blank		< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001

Analyte Symbol	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P
Unit Symbol	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%
Lower Limit	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001
Method Code	FA-AA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
Method Blank		< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001
Method Blank		< 0.3	< 0.01	< 3	< 7	< 1	< 2	< 0.01	< 0.3	< 1		< 1	< 0.01	< 1	< 1	< 0.01	< 0.01	< 1		< 1	< 0.01	< 1	< 0.001
Method Blank																							
Method Blank																							

Analyte Symbol	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al
Unit Symbol	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Lower Limit	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5	0.2	0.5	1	5	1	1	2	2	0.01
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	753	40.6	0.250	< 4	289	26.6	0.0283	< 5	38.6	86.4	168	29.4	748	27.6	29.1	3.3	1170	777	13	31	649	637	0.36
GXR-1 Cert	730	122	0.257	1.58	275	13.0	0.036	0.390	34.9	80.0	164	32.0	760	38.0	31.0	3.30	1110	852	18.0	41.0	730	760	3.52
GXR-1 Meas															30.9	2.6	1210	836	15	35	685	664	0.38
GXR-1 Cert															31.0	3.30	1110	852	18.0	41.0	730	760	3.52
GXR-4 Meas	51.0	16.0	1.80	8.48	221	8.02	0.296	< 5	< 10	90.1	39.5	13.5	71.9	43.8	3.4	< 0.5	6470	142	312	33	41	64	2.86
GXR-4 Cert	52.0	4.80	1.77	7.70	221	0.970	0.29	3.20	6.20	87.0	30.8	14.0	73.0	186	4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20
GXR-4 Meas															3.4	1.0	6410	142	315	35	48	64	2.81
GXR-4 Cert															4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20
SDC-1 Meas	19.3	< 5		16.2	170		0.208	< 5	< 10	57.0	< 5		91.0	45.6									
SDC-1 Cert	25.00	0.54		17.00	180.00		0.606	0.70	3.10	102.00	0.80		103.00	290.00									
GXR-6 Meas	95.3	< 5	0.0156	28.1	37.2	< 2		< 5	< 10	160	< 5	10.8	126	77.2	0.3	< 0.5	72	1070	2	20	96	117	7.30
GXR-6 Cert	101	3.60	0.0160	27.6	35.0	0.0180		2.20	1.54	186	1.90	14.0	118	110	1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7
GXR-6 Meas															0.3	< 0.5	68	1110	2	27	97	118	7.24
GXR-6 Cert															1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7
OREAS 14P Meas																							
OREAS 14P Cert																							
Oreas 72a (4 Acid Digest) Meas			1.56																				
Oreas 72a (4 Acid Digest) Cert			1.74																				
DNC-1a Meas	3.37	< 5		32.3	132		0.287			144		14.5	55.1	34.5									
DNC-1a Cert	6.3	0.96		31	144.0		0.29			148.0000		18.0	70.0	38.0									
OxP 91 Meas																							
OxP 91 Cert																							
SBC-1 Meas	28.0	< 5		21.1	181		0.527	14.0	< 10	219	< 5	28.4	177	114									
SBC-1 Cert	35.0	1.01		20.0	178.0		0.51	0.89	5.76	220.0	1.60	36.5	186.0	134.0									
OxK110 Meas																							
OxK110 Cert																							
SdAR-M2 (U.S.G.S.) Meas	824			4.65	152			< 10	28.0	13.3	26.6	799	127		5.3	245		14	42	889	792		
SdAR-M2 (U.S.G.S.) Cert	808			4.1	144			2.53	25.2	2.8	32.7	760	259		5.1	236.0000		13.3	48.8	808	760		
SF85 Meas																							
SF85 Cert																							
262078 Orig																							
262081 Orig	4.83	< 5	0.0490	21.3	310	2.14	0.231	< 5	< 10	106	< 5	18.1	59.2	26.2	< 0.2	< 0.5	43	518	4	15	8	41	2.33
262081 Dup	13.6	8.14	0.0486	21.0	305	4.87	0.174	< 5	< 10	89.7	< 5	18.0	56.7	21.8	< 0.2	< 0.5	44	523	4	17	10	42	2.36
262507 Orig																							
262507 Dup																							
262514 Orig	< 3	< 5	0.184	8.53	328	< 2	0.260	< 5	< 10	53.6	< 5	7.14	47.6	84.2	< 0.2	< 0.5	27	396	< 1	27	2	45	1.54
262514 Dup	< 3	< 5	0.181	8.63	333	< 2	0.270	< 5	< 10	54.9	< 5	7.18	48.1	86.4	< 0.2	< 0.5	27	402	< 1	26	< 2	47	1.57
262517 Orig																							
262517 Dup																							
Method Blank																							
Method Blank																							
Method Blank															< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01
Method Blank															< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01

Analyte Symbol	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al
Unit Symbol	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Lower Limit	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5	0.2	0.5	1	5	1	1	2	2	0.01
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank	< 3	< 5	< 0.01	< 4	< 1	2.78	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5									
Method Blank	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5									
Method Blank	< 3	< 5	< 0.01	< 4	< 1	< 2	< 0.01	< 5	< 10	< 2	< 5	< 1	< 1	< 5									
Method Blank																							
Method Blank															< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01

Analyte Symbol	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te
Unit Symbol	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm
Lower Limit	2	10	10	0.5	2	0.01	1	1	0.01	10	1	2	0.01	0.001	0.001	0.001	0.01	2	1	1	0.01	20	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	381	< 10	526	0.8	1500	0.79	5	5	23.6	< 10	5	0.03	< 10	0.14	0.047	0.048	0.21	86	1	185	< 0.01	< 20	18
GXR-1 Cert	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0
GXR-1 Meas	396	10	520	0.8	1530	0.80	6	7	25.6	< 10	4	0.03	< 10	0.15	0.073	0.050	0.23	91	1	197	< 0.01	< 20	12
GXR-1 Cert	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0
GXR-4 Meas	99	< 10	96	1.4	< 2	0.95	14	57	3.19	10	< 1	1.70	53	1.69	0.133	0.133	1.76	4	8	74	0.14	< 20	3
GXR-4 Cert	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970
GXR-4 Meas	97	< 10	93	1.4	20	0.91	15	55	3.27	10	< 1	1.77	51	1.69	0.139	0.130	1.78	4	7	74	0.13	< 20	< 1
GXR-4 Cert	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970
SDC-1 Meas																							
SDC-1 Cert																							
GXR-6 Meas	237	< 10	940	0.8	< 2	0.13	13	82	6.08	20	< 1	1.17	< 10	0.42	0.070	0.036	0.01	4	21	27		< 20	1
GXR-6 Cert	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180
GXR-6 Meas	242	< 10	968	0.9	2	0.13	13	82	6.03	20	3	1.19	10	0.42	0.112	0.037	0.01	4	21	26		< 20	< 1
GXR-6 Cert	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180
OREAS 14P Meas																							
OREAS 14P Cert																							
Oreas 72a (4 Acid Digest) Meas																							
Oreas 72a (4 Acid Digest) Cert																							
DNC-1a Meas																							
DNC-1a Cert																							
OxP 91 Meas																							
OxP 91 Cert																							
SBC-1 Meas																							
SBC-1 Cert																							
OxK110 Meas																							
OxK110 Cert																							
SdAR-M2 (U.S.G.S.) Meas			155	5.0	< 2		14	10		< 10	1		49							3	22		< 20
SdAR-M2 (U.S.G.S.) Cert			990	6.6	1.05		12.4	49.6		17.6	1.44		46.6							4.1	144		14.2
SF85 Meas																							
SF85 Cert																							
262078 Orig																							
262081 Orig	153	< 10	122	< 0.5	< 2	1.61	9	30	3.74	< 10	< 1	0.14	< 10	0.76	0.212	0.050	0.05	3	7	80	0.16	< 20	3
262081 Dup	149	< 10	125	< 0.5	< 2	1.64	9	31	3.78	< 10	< 1	0.15	< 10	0.77	0.215	0.050	0.05	3	7	82	0.16	< 20	9
262507 Orig																							
262507 Dup																							
262514 Orig	< 2	< 10	52	< 0.5	< 2	0.67	12	39	2.66	< 10	< 1	0.15	< 10	0.99	0.095	0.028	0.19	2	6	21	0.14	< 20	2
262514 Dup	< 2	< 10	52	< 0.5	< 2	0.67	13	40	2.70	< 10	< 1	0.15	< 10	1.00	0.095	0.028	0.18	< 2	6	21	0.14	< 20	2
262517 Orig																							
262517 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1
Method Blank	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1
Method Blank																							

Analyte Symbol	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te
Unit Symbol	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm
Lower Limit	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.011	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1

Analyte Symbol	Tl	U	V	W	Y	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne
Lower Limit	2	10	1	10	1	1	0.02
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-GRA
GXR-1 Meas	< 2	31	75	148	24	16	
GXR-1 Cert	0.390	34.9	80.0	164	32.0	38.0	
GXR-1 Meas	< 2	31	78	153	25	15	
GXR-1 Cert	0.390	34.9	80.0	164	32.0	38.0	
GXR-4 Meas	4	< 10	78	12	11	10	
GXR-4 Cert	3.20	6.20	87.0	30.8	14.0	186	
GXR-4 Meas	3	< 10	79	12	11	10	
GXR-4 Cert	3.20	6.20	87.0	30.8	14.0	186	
SDC-1 Meas							
SDC-1 Cert							
GXR-6 Meas	< 2	< 10	167	< 10	5	9	
GXR-6 Cert	2.20	1.54	186	1.90	14.0	110	
GXR-6 Meas	2	< 10	172	< 10	5	10	
GXR-6 Cert	2.20	1.54	186	1.90	14.0	110	
OREAS 14P Meas							
OREAS 14P Cert							
Oreas 72a (4 Acid Digest) Meas							
Oreas 72a (4 Acid Digest) Cert							
DNC-1a Meas							
DNC-1a Cert							
OxP 91 Meas							14.9
OxP 91 Cert							14.82
SBC-1 Meas							
SBC-1 Cert							
OxK110 Meas							3.59
OxK110 Cert							3.602
SdAR-M2 (U.S.G.S.) Meas		< 10	19	< 10	19	8	
SdAR-M2 (U.S.G.S.) Cert		2.53	25.2	2.8	32.7	259	
SF85 Meas							
SF85 Cert							
262078 Orig							
262081 Orig	< 2	< 10	88	< 10	9	5	
262081 Dup	< 2	< 10	90	< 10	9	5	
262507 Orig							
262507 Dup							
262514 Orig	< 2	< 10	43	< 10	6	13	
262514 Dup	< 2	< 10	44	< 10	6	13	
262517 Orig							
262517 Dup							
Method Blank							
Method Blank							
Method Blank							
Method Blank	2	< 10	< 1	< 10	< 1	< 1	
Method Blank	< 2	< 10	< 1	< 10	< 1	< 1	
Method Blank							

Analyte Symbol	Tl	U	V	W	Y	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne
Lower Limit	2	10	1	10	1	1	0.02
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-GRA
Method Blank							
Method Blank							
Method Blank							< 0.02
Method Blank	< 2	< 10	< 1	< 10	< 1	< 1	

1997 Drill Core Assays



CLIENT: CYPRUS CANADA INC.
REPORT: T97-57800.0 (COMPLETE)

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SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	AuGrav G/T	SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	AuGrav G/T
656739		<5		656779		49	
656740		6		656780		130	
656741		<5		656781		10	
656742		<5		656782		38	
656743		39		656783		6	
656744		12		656784		11	
656745		11		656785		<5	
656746		9		656786		<5	
656747		6		656787		<5	
656748		52		656788		9	
656749		135					
656750		125					
656751		19					
656752		14					
656753		73					
656754		18					
656755		15					
656756		1992	1.89				
656757		15					
656758		8					
656759		6					
656760		12					
656761		11					
656762		<5					
656763		7					
656764		11					
656765		151					
656766		13					
656767		6					
656768		6					
656769		<5					
656770		52					
656771		<5					
656772		46					
656773		78					
656774		7					
656775		7					
656776		6					
656777		9					
656778		9					



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STANDARD NAME	ELEMENT UNITS	AU30 PPB	AuGrav G/T	STANDARD NAME	ELEMENT UNITS	AU30 PPB	AuGrav G/T
---------------	---------------	----------	------------	---------------	---------------	----------	------------

ANALYTICAL BLANK		<5	-				
ANALYTICAL BLANK		<5	-				
ANALYTICAL BLANK		<5	-				
Number of Analyses		3	-				
Mean Value		2.5	-				

Standard Deviation		0.00	-				
Accepted Value		5	<0.01				

MA-2B		2440	-				
Number of Analyses		1	-				
Mean Value		2440.5	-				
Standard Deviation		-	-				
Accepted Value		2390	2.37				

CANMET CH-3		1373	-				
Number of Analyses		1	-				
Mean Value		1372.6	-				
Standard Deviation		-	-				
Accepted Value		1400	-				

CERT. AU STANDARD		8682	-				
Number of Analyses		1	-				
Mean Value		8681.8	-				
Standard Deviation		-	-				
Accepted Value		8560	8.57				



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SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	AuGrav G/T	SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	AuGrav G/T
656739		<5					
Duplicate		8					
656761		11					
Duplicate		11					
656783		6					
Duplicate		7					



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SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	AuGrav G/T	SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	AuGrav G/T
656789		10		656829		12	
656790		7		656830		19	
656791		7		656831		7	
656792		7		656832		37	
656793		9		656833		10	
656794		9		656834		37	
656795		9		656835		8	
656796		6		656836		8	
656797		8		656837		15	
656798		9		656838		<5	
656799		6		656839		9	
656800		<5		656840		7	
656801		<5		656841		8	
656802		6		656842		7	
656803		8		656843		6	
656804		6		656844		6	
656805		965		656845		<5	
656806		1372	1.37	656846		5	
656807		6					
656808		7					
656809		9					
656810		6					
656811		6					
656812		<5					
656813		7					
656814		7					
656815		7					
656816		6					
656817		17					
656818		27					
656819		8					
656820		9					
656821		9					
656822		87					
656823		39					
656824		131					
656825		9					
656826		10					
656827		10					
656828		9					



Intertek Testing Services
Chimitec **Bondar Clegg**

Certificat D'Analyse
Assay Lab Report

CLIENT: CYPRUS CANADA INC.
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STANDARD NAME	ELEMENT UNITS	AU30 PPB	AuGrav G/T	STANDARD NAME	ELEMENT UNITS	AU30 PPB	AuGrav G/T
ANALYTICAL BLANK		<5	-				
ANALYTICAL BLANK		<5	-				
ANALYTICAL BLANK		<5	-				
Number of Analyses		3	-				
Mean Value		2.5	-				
Standard Deviation		0.00	-				
Accepted Value		5	<0.01				
CANMET CH-3		1226	-				
Number of Analyses		1	-				
Mean Value		1226.0	-				
Standard Deviation		-	-				
Accepted Value		1400	-				
CERT. AU STANDARD		8355	-				
Number of Analyses		1	-				
Mean Value		8354.9	-				
Standard Deviation		-	-				
Accepted Value		8560	8.57				
MA-2B		2386	-				
Number of Analyses		1	-				
Mean Value		2386.0	-				
Standard Deviation		-	-				
Accepted Value		2390	2.37				



CLIENT: CYPRUS CANADA INC.
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SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	AuGrav G/T	SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	AuGrav G/T
656790		7					
Duplicate		7					
656812		<5					
Duplicate		6					
656834		37					
Duplicate		40					



CLIENT: CYPRUS CANADA INC.
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SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
657028		31	657068		<5
657029		12	657069		<5
657030		12	657070		29
657031		<5			
657032		<5			
657033		16			
657034		<5			
657035		13			
657036		<5			
657037		26			
657038		36			
657039		22			
657040		24			
657041		19			
657042		62			
657043		124			
657044		32			
657045		9			
657046		44			
657047		<5			
657048		<5			
657049		<5			
657050		<5			
657051		<5			
657052		<5			
657053		<5			
657054		<5			
657055		<5			
657056		<5			
657057		<5			
657058		20			
657059		<5			
657060		34			
657061		47			
657062		27			
657063		<5			
657064		<5			
657065		<5			
657066		17			
657067		<5			



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STANDARD NAME	ELEMENT UNITS	AU30 PPB
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STANDARD NAME	ELEMENT UNITS	AU30 PPB
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ANALYTICAL BLANK		<5
ANALYTICAL BLANK		<5
Number of Analyses		2
Mean Value		2.5
Standard Deviation		0.00

Accepted Value		5
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CERT. AU STANDARD		8705
Number of Analyses		1
Mean Value		8704.8
Standard Deviation		-
Accepted Value		8560



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SAMPLE
NUMBER

ELEMENT
UNITS

AU30
PPB

SAMPLE
NUMBER

ELEMENT
UNITS

AU30
PPB

657030 12
Duplicate 10

657052 <5
Duplicate <5

NOV 12 1997



Intertek Testing Services
Chimitec Bondar Clegg

Certificat D'Analyse
Assay Lab Report

REPORT: C97-63653.0 (COMPLETE)

REFERENCE: -

CLIENT: CYPRUS CANADA INC.
PROJECT: 5007

DATE RECEIVED: 27-OCT-97

SUBMITTED BY: ANDREW TIMS
DATE PRINTED: 29-OCT-97

DATE APPROVED	ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
971029	1	AU30 GOLD FIRE ASSAY-AA	47	5 PPB	Fire Assay of 30g	30g Fire Assay - AA

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
DRILL CORE	47	-200	47	CRUSH/SPLIT & PULV.	47

REPORT COPIES TO: MR. ANDREW TIMS

INVOICE TO: MR. ANDREW TIMS

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SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
657071		7	657111		47
657072		7	657112		<5
657073		6	657113		40
657074		9	657114		<5
657075		7	657115		42
657076		60	657116		<5
657077		6	657117		<5
657078		10			
657079		6			
657080		7			
657081		<5			
657082		<5			
657083		<5			
657084		159			
657085		<5			
657086		39			
657087		17			
657088		<5			
657089		<5			
657090		<5			
657091		<5			
657092		<5			
657093		<5			
657094		<5			
657095		<5			
657096		<5			
657097		57			
657098		<5			
657099		<5			
657100		<5			
657101		<5			
657102		<5			
657103		<5			
657104		<5			
657105		<5			
657106		55			
657107		<5			
657108		<5			
657109		15			
657110		6			



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STANDARD NAME	ELEMENT UNITS	AU30 PPB
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STANDARD NAME	ELEMENT UNITS	AU30 PPB
---------------	---------------	----------

ANALYTICAL BLANK		<5
ANALYTICAL BLANK		<5
ANALYTICAL BLANK		<5
Number of Analyses		3
Mean Value		2.5

Standard Deviation		0.00
Accepted Value		5

CERT. AU STANDARD		8482
CERT. AU STANDARD		8532
Number of Analyses		2
Mean Value		8507.2
Standard Deviation		35.55

Accepted Value		8560
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CLIENT: CYPRUS CANADA INC.
REPORT: C97-63653.0 (COMPLETE)

DATE RECEIVED: 27-OCT-97

PROJECT: 5007

DATE PRINTED: 29-OCT-97

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SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
657074		9			
Duplicate		5			
657096		<5			
Duplicate		<5			



CLIENT: CYPRUS CANADA INC.
REPORT: C97-63654.0 (COMPLETE)

DATE RECEIVED: 27-OCT-97

PROJECT: 5007

DATE PRINTED: 29-OCT-97

PAGE 1 DE 3

SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
------------------	------------------	-------------

657118		11
657119		16
657120		27
657121		11
657122		16

657123		8
657124		10
657125		13
657126		21
657127		14

657128		15
657129		15
657130		11
657131		10
657132		11

657133		14
657134		15
657135		30
657136		15
657137		11

657138		18
657139		25
657140		7
657141		<5
657142		14

657143		8
657144		11
657145		10
657146		<5
657147		11

657148		11
657149		13
657150		11
657151		6
657152		<5

657153		15
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CLIENT: CYPRUS CANADA INC.
 REPORT: C97-63654.0 (COMPLETE)

DATE RECEIVED: 27-OCT-97

PROJECT: 5007

DATE PRINTED: 29-OCT-97 PAGE 2 DE 3

STANDARD NAME	ELEMENT UNITS	AU30 PPB
---------------	---------------	----------

ANALYTICAL BLANK		<5
ANALYTICAL BLANK		<5
Number of Analyses		2
Mean Value		2.5
Standard Deviation		0.00

Accepted Value		5
----------------	--	---

CANMET CH-3		1356
Number of Analyses		1
Mean Value		1356.2
Standard Deviation		-
Accepted Value		1400

CERT. AU STANDARD		8325
Number of Analyses		1
Mean Value		8324.8
Standard Deviation		-
Accepted Value		8560



CLIENT: CYPRUS CANADA INC.

REPORT: C97-63654.0 (COMPLETE)

DATE RECEIVED: 27-OCT-97

PROJECT: 5007

DATE PRINTED: 29-OCT-97

PAGE 3 DE 3

SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
657122		16
Duplicate		20
657144		11
Duplicate		13

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Certificat D'Analyse
Assay Lab Report

REPORT: C97-63743.0 (COMPLETE)

REFERENCE: -

CLIENT: CYPRUS CANADA INC.
PROJECT: 5007

DATE RECEIVED: 30-OCT-97
DATE PRINTED: 4-NOV-97

SUBMITTED BY: ANDREW TIMS

DATE APPROVED	ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
971104	1	AU30 GOLD FIRE ASSAY-AA	50	5 PPB	Fire Assay of 30g	30g Fire Assay - AA

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
DRILL CORE	50	-150	50	CRUSH/SPLIT & PULV.	50

REPORT COPIES TO: MR. DAVID B. STEVENSON

INVOICE TO: MR. DAVID B. STEVENSON

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CLIENT: CYPRUS CANADA INC.
REPORT: C97-63743.0 (COMPLETE)

DATE RECEIVED: 30-OCT-97

PROJECT: 5007
DATE PRINTED: 4-NOV-97 PAGE 1 DE 3

SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
657154		<5	657194		<5
657155		<5	657195		33
657156		14	657196		19
657157		15	657197		16
657158		21	657198		33
657159		21	657199		21
657160		11	657200		82
657161		<5	657201		24
657162		8	657202		15
657163		7	657203		72
657164		136			
657165		100			
657166		16			
657167		15			
657168		30			
657169		17			
657170		9			
657171		11			
657172		7			
657173		9			
657174		7			
657175		14			
657176		146			
657177		31			
657178		10			
657179		17			
657180		14			
657181		11			
657182		38			
657183		23			
657184		17			
657185		27			
657186		34			
657187		93			
657188		23			
657189		201			
657190		141			
657191		45			
657192		11			
657193		14			



CLIENT: CYPRUS CANADA INC.
 REPORT: C97-63743.0 (COMPLETE)

DATE RECEIVED: 30-OCT-97

PROJECT: 5007

DATE PRINTED: 4-NOV-97

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STANDARD NAME	ELEMENT UNITS	AU30 PPB
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STANDARD NAME	ELEMENT UNITS	AU30 PPB
---------------	---------------	----------

ANALYTICAL BLANK		<5
ANALYTICAL BLANK		<5
ANALYTICAL BLANK		<5
Number of Analyses		3
Mean Value		2.5

Standard Deviation		0.00
Accepted Value		5

Gold Tailings		259
Number of Analyses		1
Mean Value		258.8
Standard Deviation		-
Accepted Value		263

CERT. AU STANDARD		8966
Number of Analyses		1
Mean Value		8965.8
Standard Deviation		-
Accepted Value		8560



CLIENT: CYPRUS CANADA INC.
 REPORT: C97-63743.0 (COMPLETE)

DATE RECEIVED: 30-OCT-97

PROJECT: 5007

DATE PRINTED: 4-NOV-97 PAGE 3 DE 3

SAMPLE ELEMENT AU30
 NUMBER UNITS PPB

SAMPLE ELEMENT AU30
 NUMBER UNITS PPB

657157 15
 Duplicate 14

657179 17
 Duplicate 17

657201 24
 Duplicate 17



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Certificat D'Analyse
Assay Lab Report

REPORT: C97-63744.0 (COMPLETE)

REFERENCE: -

CLIENT: CYPRUS CANADA INC.
PROJECT: 5007

DATE RECEIVED: 30-OCT-97
SUBMITTED BY: D. STEVENSON
DATE PRINTED: 4-NOV-97

DATE APPROVED	ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
971104	1	AU30 GOLD FIRE ASSAY-AA	50	5 PPB	Fire Assay of 30g	30g Fire Assay - AA

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
DRILL CORE	50	-150	50	CRUSH/SPLIT & PULV.	50

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Assay Lab Report

CLIENT: CYPRUS CANADA INC.
REPORT: C97-63744.0 (COMPLETE)

DATE RECEIVED: 30-OCT-97

PROJECT: 5007

DATE PRINTED: 4-NOV-97

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SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
657204		77	657244		14
657205		26	657245		9
657206		35	657246		6
657207		23	657247		15
657208		28	657248		6
657209		11	657249		<5
657210		21	657250		<5
657211		38	657251		7
657212		15	657252		<5
657213		10	657253		<5
657214		16			
657215		<5			
657216		16			
657217		13			
657218		574			
657219		43			
657220		18			
657221		541			
657222		12			
657223		5			
657224		6			
657225		<5			
657226		<5			
657227		5			
657228		5			
657229		16			
657230		<5			
657231		5			
657232		5			
657233		119			
657234		24			
657235		5			
657236		12			
657237		11			
657238		29			
657239		41			
657240		51			
657241		17			
657242		42			
657243		9			



CLIENT: CYPRUS CANADA INC.
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DATE RECEIVED: 30-OCT-97

PROJECT: 5007

DATE PRINTED: 4-NOV-97

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STANDARD NAME	ELEMENT UNITS	AU30 PPB
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STANDARD NAME	ELEMENT UNITS	AU30 PPB
---------------	---------------	----------

ANALYTICAL BLANK		<5
ANALYTICAL BLANK		<5
ANALYTICAL BLANK		<5
Number of Analyses		3
Mean Value		2.5

Standard Deviation		0.00
Accepted Value		5

CANMET CH-3		1412
Number of Analyses		1
Mean Value		1412.0
Standard Deviation		-
Accepted Value		1400

CERT. AU STANDARD		8192
Number of Analyses		1
Mean Value		8192.0
Standard Deviation		-
Accepted Value		8560

Gold Tailings		273
Number of Analyses		1
Mean Value		273.0
Standard Deviation		-
Accepted Value		263



CLIENT: CYPRUS CANADA INC.
REPORT: C97-63744.0 (COMPLETE)

DATE RECEIVED: 30-OCT-97

PROJECT: 5007

DATE PRINTED: 4-NOV-97

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SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
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SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
---------------	---------------	----------

657208		28
Duplicate		34

657230		<5
Duplicate		5

657252		<5
Duplicate		<5



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Assay Lab Report

REPORT: C97-63745.0 (COMPLETE)

REFERENCE: -

CLIENT: CYPRUS CANADA INC.
PROJECT: 5007

DATE RECEIVED: 30-OCT-97
DATE PRINTED: 4-NOV-97

SUBMITTED BY: D. STEVENSON

DATE APPROVED	ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
971104	1	AU30 GOLD FIRE ASSAY-AA	50	5 PPB	Fire Assay of 30g	30g Fire Assay - AA

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
DRILL CORE	50	-150	50	CRUSH/SPLIT & PULV.	50

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CLIENT: CYPRUS CANADA INC.
REPORT: C97-63745.0 (COMPLETE)

DATE RECEIVED: 30-OCT-97

PROJECT: 5007

DATE PRINTED: 4-NOV-97

PAGE 1 DE 3

SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
657254		<5	657294		<5
657255		<5	657295		<5
657256		<5	657296		<5
657257		<5	657297		<5
657258		<5	657298		<5
657259		<5	657299		<5
657260		<5	657300		<5
657261		<5	657301		<5
657262		<5	657302		<5
657263		<5	657303		<5
657264		<5			
657265		<5			
657266		<5			
657267		5			
657268		<5			
657269		<5			
657270		<5			
657271		<5			
657272		<5			
657273		<5			
657274		<5			
657275		<5			
657276		<5			
657277		5			
657278		<5			
657279		<5			
657280		<5			
657281		<5			
657282		6			
657283		<5			
657284		<5			
657285		<5			
657286		<5			
657287		<5			
657288		<5			
657289		<5			
657290		<5			
657291		<5			
657292		<5			
657293		<5			



CLIENT: CYPRUS CANADA INC.

REPORT: C97-63745.0 (COMPLETE)

DATE RECEIVED: 30-OCT-97

PROJECT: 5007

DATE PRINTED: 4-NOV-97

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STANDARD NAME	ELEMENT UNITS	AU30 PPB
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STANDARD NAME	ELEMENT UNITS	AU30 PPB
---------------	---------------	----------

ANALYTICAL BLANK		<5
ANALYTICAL BLANK		<5
Number of Analyses		2
Mean Value		2.5
Standard Deviation		0.00

Accepted Value		5
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Gold Tailings		280
Gold Tailings		252
Number of Analyses		2
Mean Value		266.0
Standard Deviation		19.80

Accepted Value		263
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CLIENT: CYPRUS CANADA INC.

REPORT: C97-63745.0 (COMPLETE)

DATE RECEIVED: 30-OCT-97

PROJECT: 5007

DATE PRINTED: 4-NOV-97

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SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
657259		<5			
Duplicate		<5			
657281		<5			
Duplicate		<5			
657303		<5			
Duplicate		<5			



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Certificat D'Analyse
Assay Lab Report

REPORT: C97-63746.0 (COMPLETE)

REFERENCE: -

CLIENT: CYPRUS CANADA INC.
PROJECT: 5007

DATE RECEIVED: 30-OCT-97

SUBMITTED BY: D. STEVENSON
DATE PRINTED: 4-NOV-97

DATE APPROVED	ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
971104	1	AU30 GOLD FIRE ASSAY-AA	50	5 PPB	Fire Assay of 30g	30g Fire Assay - AA

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
DRILL CORE	50	-150	50	CRUSH/SPLIT & PULV.	50

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CLIENT: CYPRUS CANADA INC.
REPORT: C97-63746.0 (COMPLETE)

DATE RECEIVED: 30-OCT-97

PROJECT: 5007

DATE PRINTED: 4-NOV-97

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SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
657304		<5	657344		<5
657305		<5	657345		<5
657306		<5	657346		<5
657307		<5	657347		<5
657308		<5	657348		<5
657309		<5	657349		<5
657310		<5	657350		<5
657311		<5	657351		<5
657312		<5	657352		<5
657313		<5	657353		<5
657314		<5			
657315		<5			
657316		<5			
657317		<5			
657318		<5			
657319		<5			
657320		<5			
657321		<5			
657322		<5			
657323		<5			
657324		<5			
657325		<5			
657326		<5			
657327		<5			
657328		<5			
657329		<5			
657330		<5			
657331		<5			
657332		<5			
657333		<5			
657334		<5			
657335		<5			
657336		<5			
657337		<5			
657338		<5			
657339		<5			
657340		<5			
657341		<5			
657342		<5			
657343		<5			



CLIENT: CYPRUS CANADA INC.
REPORT: C97-63746.0 (COMPLETE)

DATE RECEIVED: 30-OCT-97

PROJECT: 5007

DATE PRINTED: 4-NOV-97 PAGE 2 DE 3

STANDARD NAME	ELEMENT UNITS	AU30 PPB
---------------	---------------	----------

STANDARD NAME	ELEMENT UNITS	AU30 PPB
---------------	---------------	----------

ANALYTICAL BLANK		<5
ANALYTICAL BLANK		<5
ANALYTICAL BLANK		<5
Number of Analyses		3
Mean Value		2.5

Standard Deviation		0.00
Accepted Value		5

Gold Tailings		289
Number of Analyses		1
Mean Value		289.0
Standard Deviation		-
Accepted Value		263

CANMET CH-3		1333
Number of Analyses		1
Mean Value		1332.9
Standard Deviation		-
Accepted Value		1400

CERT. AU STANDARD		8469
Number of Analyses		1
Mean Value		8469.4
Standard Deviation		-
Accepted Value		8560



CLIENT: CYPRUS CANADA INC.
REPORT: C97-63746.0 (COMPLETE)

DATE RECEIVED: 30-OCT-97

PROJECT: 5007

DATE PRINTED: 4-NOV-97

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SAMPLE ELEMENT AU30
NUMBER UNITS PPB

SAMPLE ELEMENT AU30
NUMBER UNITS PPB

657310 <5
Duplicate <5

657332 <5
Duplicate <5



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Certificat D'Analyse
Assay Lab Report

REPORT: T97-57794.0 (COMPLETE)

REFERENCE: -

CLIENT: CYPRUS CANADA INC.
PROJECT: 5007

DATE RECEIVED: 20-OCT-97
DATE PRINTED: 24-OCT-97

SUBMITTED BY: D. STEVENSON

DATE APPROVED	ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
971024	1	AU30 GOLD FIRE ASSAY-AA	78	5 PPB	Fire Assay of 30g	30g Fire Assay - AA

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
DRILL CORE	78	-200	78	CRUSH, SPLIT PULVERIZATION	78 78

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Assay Lab Report

CLIENT: CYPRUS CANADA INC.
REPORT: T97-57794.0 (COMPLETE)

DATE RECEIVED: 20-OCT-97

PROJECT: 5007

DATE PRINTED: 24-OCT-97

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SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
656847		23	656921		31
656848		17	656922		53
656849		103	656923		65
656850		<5	656924		86
656851		15	656925		28
656852		21	656926		73
656853		29	656927		14
656854		16	656928		23
656855		34	656929		28
656856		419	656930		65
656857		22	656931		66
656858		<5	656932		110
656859		<5	656933		32
656860		<5	656934		47
656861		<5	656935		6
656862		<5	656936		<5
656863		<5	656947		<5
656864		<5	656948		39
656895		<5	656949		9
656896		<5	656950		<5
656897		<5	656951		13
656898		<5	656952		11
656899		<5	656953		<5
656900		<5	656954		<5
656901		<5	656955		<5
656905		<5	656962		<5
656906		<5	656970		<5
656907		<5	656971		43
656908		<5	656972		61
656909		<5	656973		8
656910		<5	656974		<5
656911		<5	656975		<5
656912		<5	656976		<5
656913		<5	656977		18
656914		<5	656978		24
656916		27	656979		12
656917		91	656980		<5
656918		248	656981		<5
656919		21			
656920		8			



CLIENT: CYPRUS CANADA INC.
REPORT: T97-57794.0 (COMPLETE)

DATE RECEIVED: 20-OCT-97

PROJECT: 5007

DATE PRINTED: 24-OCT-97

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STANDARD NAME	ELEMENT UNITS	AU30 PPB
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STANDARD NAME	ELEMENT UNITS	AU30 PPB
---------------	---------------	----------

ANALYTICAL BLANK		<5
ANALYTICAL BLANK		<5
ANALYTICAL BLANK		<5
ANALYTICAL BLANK		<5
Number of Analyses		4

Mean Value		2.5
Standard Deviation		0.00
Accepted Value		5

CANMET CH-3		1556
CANMET CH-3		1516
Number of Analyses		2
Mean Value		1535.9
Standard Deviation		28.26

Accepted Value		1400
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CERT. AU STANDARD		8749
Number of Analyses		1
Mean Value		8749.0
Standard Deviation		-
Accepted Value		8560

MA-2B		2443
Number of Analyses		1
Mean Value		2442.6
Standard Deviation		-
Accepted Value		2390



CLIENT: CYPRUS CANADA INC.
REPORT: T97-57794.0 (COMPLETE)

DATE RECEIVED: 20-OCT-97

PROJECT: 5007

DATE PRINTED: 24-OCT-97

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SAMPLE
NUMBER

ELEMENT
UNITS

AU30
PPB

SAMPLE
NUMBER

ELEMENT
UNITS

AU30
PPB

656851

15

Duplicate

19

656906

<5

Duplicate

<5

656929

28

Duplicate

30

656974

<5

Duplicate

<5



CLIENT: CYPRUS CANADA INC.
REPORT: T97-57802.0 (COMPLETE)

DATE RECEIVED: 20-OCT-97

PROJECT: 5007

DATE PRINTED: 28-OCT-97

PAGE 1 DE 3

SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
656865		<5	656943		<5
656866		<5	656944		<5
656867		7	656945		<5
656868		<5	656946		20
656869		<5	656956		<5
656870		<5	656957		<5
656871		<5	656958		<5
656872		<5	656959		<5
656873		<5	656960		<5
656874		<5	656961		<5
656875		<5			
656876		<5			
656877		26			
656878		<5			
656879		<5			
656880		<5			
656881		6			
656882		10			
656883		<5			
656884		<5			
656885		23			
656886		<5			
656887		<5			
656888		<5			
656889		<5			
656890		<5			
656891		<5			
656892		<5			
656893		<5			
656894		<5			
656902		<5			
656903		<5			
656904		<5			
656915		<5			
656937		7			
656938		12			
656939		10			
656940		6			
656941		7			
656942		<5			



CLIENT: CYPRUS CANADA INC.
REPORT: T97-57802.0 (COMPLETE)

DATE RECEIVED: 20-OCT-97

PROJECT: 5007

DATE PRINTED: 28-OCT-97

PAGE 2 DE 3

STANDARD NAME	ELEMENT UNITS	AU30 PPB
---------------	---------------	----------

STANDARD NAME	ELEMENT UNITS	AU30 PPB
---------------	---------------	----------

ANALYTICAL BLANK		<5
ANALYTICAL BLANK		<5
ANALYTICAL BLANK		<5
Number of Analyses		3
Mean Value		2.5

Standard Deviation		0.00
Accepted Value		5

CERT. AU STANDARD		8183
Number of Analyses		1
Mean Value		8183.4
Standard Deviation		-
Accepted Value		8560

CANMET CH-3		1475
Number of Analyses		1
Mean Value		1475.4
Standard Deviation		-
Accepted Value		1400

MA-2B		2477
Number of Analyses		1
Mean Value		2476.7
Standard Deviation		-
Accepted Value		2390



CLIENT: CYPRUS CANADA INC.

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DATE RECEIVED: 20-OCT-97

PROJECT: 5007

DATE PRINTED: 28-OCT-97

PAGE 3 DE 3

SAMPLE
NUMBER ELEMENT
 UNITS AU30
 PPB

SAMPLE
NUMBER ELEMENT
 UNITS AU30
 PPB

656867 7
Duplicate 6

656889 <5
Duplicate <5

656958 <5
Duplicate <5



Intertek Testing Services
Chimitec Bondar Clegg

NOV 07 1997

Certificat D'Analyse
Assay Lab Report

REPORT: T97-57803.0 (COMPLETE)

REFERENCE: -

CLIENT: CYPRUS CANADA INC.
PROJECT: 5007

DATE RECEIVED: 20-OCT-97
DATE PRINTED: 24-OCT-97

SUBMITTED BY: D. STEVENSON

DATE APPROVED	ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
971024	1	AU30 GOLD FIRE ASSAY-AA	53	5 PPB	Fire Assay of 30g	30g Fire Assay - AA

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
DRILL CORE	53	-200	53	CRUSH, SPLIT PULVERIZATION	53 53

REPORT COPIES TO: MR. DAVID B. STEVENSON

INVOICE TO: MR. DAVID B. STEVENSON

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CLIENT: CYPRUS CANADA INC.

REPORT: T97-57803.0 (COMPLETE)

DATE RECEIVED: 20-OCT-97

PROJECT: 5007

DATE PRINTED: 24-OCT-97

PAGE 1 DE 3

SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
656963		<5	657015		<5
656964		<5	657016		<5
656965		<5	657017		<5
656966		<5	657018		<5
656967		<5	657019		<5
656968		<5	657020		7
656969		<5	657021		6
656982		24	657022		<5
656983		<5	657023		14
656984		<5	657024		16
656985		<5	657025		18
656986		<5	657026		19
656987		<5	657027		11
656988		<5			
656989		14			
656990		18			
656991		51			
656992		67			
656993		<5			
656994		82			
656995		<5			
656996		<5			
656997		<5			
656998		<5			
656999		<5			
657000		<5			
657001		<5			
657002		<5			
657003		<5			
657004		18			
657005		7			
657006		78			
657007		29			
657008		18			
657009		6			
657010		6			
657011		12			
657012		<5			
657013		<5			
657014		<5			



CLIENT: CYPRUS CANADA INC.
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PROJECT: 5007

DATE PRINTED: 24-OCT-97

PAGE 2 DE 3

STANDARD NAME	ELEMENT UNITS	AU30 PPB
---------------	---------------	----------

STANDARD NAME	ELEMENT UNITS	AU30 PPB
---------------	---------------	----------

ANALYTICAL BLANK		<5
ANALYTICAL BLANK		<5
ANALYTICAL BLANK		<5
Number of Analyses		3
Mean Value		2.5

Standard Deviation		0.00
Accepted Value		5

MA-2B		2414
Number of Analyses		1
Mean Value		2414.0
Standard Deviation		-
Accepted Value		2390

CERT. AU STANDARD		8893
Number of Analyses		1
Mean Value		8892.6
Standard Deviation		-
Accepted Value		8560



CLIENT: CYPRUS CANADA INC.
REPORT: T97-57803.0 (COMPLETE)

DATE RECEIVED: 20-OCT-97

PROJECT: 5007

DATE PRINTED: 24-OCT-97

PAGE 3 DE 3

SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
656966		<5			
Duplicate		<5			
657000		<5			
Duplicate		<5			
657022		<5			
Duplicate		8			



Swastika Laboratories

A Division of TSL/Assayers Inc.

Assaying - Consulting - Representation

Established 1928

Geochemical Analysis Certificate

7W-4233-PG1

Company: **CYPRUS CANADA INC**

Date: OCT-30-97

Project: 5007

Attn: D. Stevenson

We hereby certify the following Geochemical Analysis of 12 Pulp samples submitted OCT-27-97 by .

Sample Number	Au PPB	Au Check PPB
656856	612	717
656896	19	-
656909	5	-
656920	12	-
656930	70	69
656950	2	-
656973	22	-
656984	9	-
656994	60	65
657004	Nil	-
657014	Nil	-
657024	17	-
Blank	2	-
TT-13	667	-
SW-11	3977	-



One assay ton portion used.

Certified by



Swastika Laboratories

A Division of TSL/Assayers Inc.

Assaying - Consulting - Representation

NOV 19 1997

Established 1928

Assay Certificate

Page 1 of 2

7W-4439-PA1

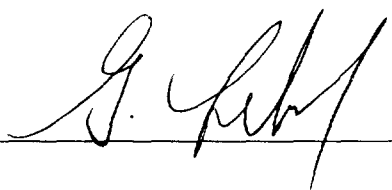
Company: **CYPRUS CANADA INC**
Project: 5007
Attn: D. Stevenson

Date: NOV-18-97

We hereby certify the following Assay of 46 Pulp samples submitted NOV-09-97 by .

Sample Number	Au PPB	Au Check PPB
656748	50	50
656758	7	-
656768	Nil	-
656778	10	-
656788	10	-
656798	2	-
656808	5	-
656818	2	-
656828	12	-
656838	Nil	-
656874	2	-
656884	7	-
656894	3	-
656942	2	-
656961	7	-
657037	31	31
657047	12	-
657057	3	-
657067	9	-
657080	12	-
657090	3	-
657100	5	-
657110	27	19
657127	15	-
657137	14	-
657147	17	-
657163	12	-
657173	5	-
657183	27	19
657193	24	-

One assay ton portion used.

Certified by 



Swastika Laboratories

A Division of TSL/Assayers Inc.

Assaying - Consulting - Representation

Page 2 of 2

Established 1928

Assay Certificate

7W-4439-PA1

Company: **CYPRUS CANADA INC**
Project: 5007
Attn: D. Stevenson

Date: NOV-18-97

We hereby certify the following Assay of 46 Pulp samples submitted NOV-09-97 by .

Sample Number	Au PPB	Au Check PPB
657203	55	-
657213	2	-
657223	5	-
657233	363	310
657243	3	-
657253	5	-
657263	Nil	-
657273	2	-
657283	Nil	-
657293	Nil	-
657303	3	2
657313	2	-
657323	Nil	-
657333	Nil	-
657343	Nil	-
657353	Nil	-
Blank	Nil	-
STD TT-13	638	-
STD SW-14	3669	-

One assay ton portion used.

Certified by

APPENDIX 3- ICP Certificates



DEC 02 1997

REPORT: T97-57800.1 (COMPLETE)

REFERENCE: -

CLIENT: CYPRUS CANADA INC.

SUBMITTED BY: D. STEVENSON

PROJECT: 5007

DATE RECEIVED: 20-OCT-97 DATE PRINTED: 7-NOV-97

DATE APPROVED	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION	EXTRACTION	METHOD	SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
971107	1 Ag	Silver	50	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	2 As	Arsenic	50	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	3 Cu	Copper	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	4 Zn	Zinc	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	5 Ni	Nickel	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	6 Cr	Chromium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	7 Pb	Lead	50	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	8 Mo	Molybdenum	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	9 Sb	Antimony	50	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	10 Al	Aluminum	50	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	11 Fe	Iron	50	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	12 Mg	Magnesium	50	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	13 Ca	Calcium	50	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	14 Na	Sodium	50	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	15 K	Potassium	50	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	16 Ti	Titanium	50	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	17 Mn	Manganese	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	18 Cd	Cadmium	50	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	19 Co	Cobalt	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	20 Ba	Barium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	21 Bi	Bismuth	50	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	22 Ga	Gallium	50	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	23 La	Lanthanum	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	24 Li	Lithium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	25 Nb	Niobium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	26 Sc	Scandium	50	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	27 Sn	Tin	50	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	28 Sr	Strontium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	29 Ta	Tantalum	50	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	30 Te	Tellurium	50	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	31 V	Vanadium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	32 W	Tungsten	50	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	33 Y	Yttrium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	34 Zr	Zirconium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					

DRILL CORE 50 -200 50 AS RECEIVED 50

REPORT COPIES TO: MR. DAVID B. STEVENSON INVOICE TO: MR. DAVID B. STEVENSON

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Intertek Testing Services

Chimitec Bondar Clegg

Rapport Lab Geochimie

Geochemical Lab Report

CLIENT: CYPRUS CANADA INC.

PROJECT: 5007

REPORT: T97-57800.1 (COMPLETE)

DATE RECEIVED: 20-OCT-97

DATE PRINTED: 7-NOV-97

PAGE 1 OF 4

SAMPLE NUMBER	ELEMENT UNITS	Ag	As	Cu	Zn	Ni	Cr	Pb	Mo	Sb	Al	Fe	Mg	Ca	Na	K	Ti	Mn	Cd	Co	Ba	Bi	Ga	La	Li	Nb	Sc	Sn	Sr	Ta	Te	V	W	Y	Zr
		PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
656739	<.2	24	45	85	91	412	7	11	<5	3.07	4.86	2.58	0.58	0.13	2.01	0.27	656	<.2	22	582	<5	11	22	56	<1	13	<20	27	<10	<10	104	<20	6	31	
656740	<.2	39	54	94	91	366	6	9	<5	2.90	4.58	2.25	0.80	0.16	1.76	0.23	628	<.2	23	550	<5	10	25	54	<1	12	<20	41	<10	<10	99	<20	6	32	
656741	<.2	20	45	80	82	361	8	13	<5	3.28	4.34	2.31	0.80	0.18	1.99	0.26	656	<.2	20	404	<5	11	28	51	<1	11	<20	47	<10	<10	87	<20	7	39	
656742	<.2	24	47	75	77	388	8	15	<5	3.18	3.93	2.07	1.55	0.19	1.80	0.23	799	<.2	20	245	<5	10	24	49	<1	10	<20	94	<10	<10	82	<20	7	29	
656743	0.2	73	63	83	109	395	8	13	<5	4.06	4.59	2.25	1.24	0.24	2.20	0.25	721	<.2	24	262	<5	11	24	50	<1	11	<20	124	<10	<10	96	<20	7	29	
656744	<.2	41	53	76	90	331	7	8	<5	3.02	4.32	2.03	1.02	0.16	1.86	0.25	760	<.2	22	385	<5	10	25	45	<1	11	<20	54	<10	<10	89	<20	7	30	
656745	<.2	31	51	79	91	329	5	11	<5	2.64	4.29	2.03	1.08	0.14	1.63	0.22	733	<.2	21	455	<5	9	24	47	<1	11	<20	44	<10	<10	87	<20	6	29	
656746	<.2	19	47	51	80	377	5	10	<5	1.57	2.77	1.75	1.28	0.16	0.85	0.14	338	<.2	19	365	<5	7	23	30	<1	6	<20	47	<10	<10	70	<20	6	32	
656747	<.2	28	54	85	103	411	9	11	<5	3.37	4.72	2.47	0.82	0.16	2.04	0.27	699	<.2	24	596	<5	12	25	58	<1	13	<20	47	<10	<10	104	<20	7	31	
656748	<.2	129	56	78	82	387	10	10	<5	5.01	4.27	2.28	1.90	0.38	2.12	0.24	680	<.2	21	195	<5	13	24	48	<1	12	<20	148	<10	<10	93	<20	7	23	
656749	<.2	412	52	77	80	304	10	9	<5	5.00	3.92	2.13	2.55	0.29	1.88	0.22	574	0.8	20	104	<5	14	24	49	<1	11	<20	151	<10	<10	86	<20	7	29	
656750	0.3	469	53	78	83	353	7	9	<5	3.94	4.35	2.22	1.56	0.25	1.99	0.24	678	0.6	21	296	<5	12	24	45	<1	12	<20	88	<10	<10	95	<20	7	28	
656751	0.4	73	52	68	85	379	5	11	<5	2.24	3.87	2.12	0.57	0.17	1.44	0.21	441	<.2	21	478	<5	9	26	43	<1	9	<20	29	<10	<10	90	<20	6	35	
656752	0.3	41	55	72	85	347	5	9	<5	2.65	4.12	2.23	0.79	0.19	1.67	0.22	514	<.2	21	524	<5	10	28	49	<1	12	<20	37	<10	<10	98	<20	7	37	
656753	1.6	176	60	96	92	378	7	11	<5	2.45	4.46	2.15	1.17	0.15	1.54	0.20	654	<.2	22	412	<5	8	25	51	<1	11	<20	56	<10	<10	87	<20	7	33	
656754	2.7	51	52	81	89	340	8	12	<5	2.75	4.21	2.02	1.32	0.12	1.84	0.25	731	<.2	21	333	<5	10	24	50	<1	11	<20	35	<10	<10	89	<20	7	34	
656755	1.2	59	40	74	72	366	6	11	<5	2.61	3.73	2.03	1.71	0.13	1.80	0.24	643	<.2	18	327	<5	10	24	50	<1	10	<20	39	<10	<10	78	<20	8	26	
656756	0.3	47	38	77	65	367	7	9	<5	2.62	3.78	2.08	1.84	0.14	1.77	0.25	661	<.2	18	330	<5	10	25	50	<1	10	<20	33	<10	<10	77	<20	9	26	
656757	<.2	66	48	73	89	341	8	11	<5	2.97	4.09	2.01	1.46	0.16	1.97	0.25	722	<.2	20	295	<5	11	25	51	<1	11	<20	41	<10	<10	87	<20	8	28	
656758	<.2	21	45	76	85	355	7	9	<5	2.27	4.06	2.09	1.17	0.14	1.52	0.21	652	<.2	20	482	<5	8	23	56	<1	11	<20	53	<10	<10	81	<20	7	31	
656759	<.2	19	57	78	98	368	7	10	<5	2.47	4.32	2.13	0.97	0.17	1.60	0.22	656	<.2	23	701	<5	9	26	59	<1	12	<20	40	<10	<10	97	<20	8	30	
656760	<.2	80	73	42	102	393	3	6	5	1.55	2.71	2.06	1.44	0.17	0.66	0.12	384	<.2	28	428	<5	5	16	36	<1	6	<20	38	<10	<10	68	<20	5	24	
656761	<.2	470	71	64	110	423	5	9	<5	2.86	4.04	2.70	0.99	0.17	1.75	0.21	582	0.6	25	425	<5	8	20	57	<1	9	<20	41	<10	<10	94	<20	6	27	
656762	0.2	41	53	82	93	365	6	9	<5	2.74	4.37	2.38	0.68	0.16	1.78	0.24	621	<.2	22	468	<5	10	25	64	<1	11	<20	27	<10	<10	95	<20	7	27	
656763	<.2	84	50	79	86	354	5	11	<5	2.55	4.20	2.26	0.68	0.16	1.68	0.23	628	<.2	20	482	<5	9	25	62	<1	11	<20	28	<10	<10	89	<20	6	30	
656764	0.3	20	47	77	84	372	6	9	<5	2.75	4.29	2.22	0.59	0.16	1.85	0.25	639	<.2	20	508	<5	9	25	53	<1	11	<20	24	<10	<10	88	<20	7	29	
656765	<.2	869	45	70	127	431	6	9	<5	2.65	4.01	2.56	1.27	0.14	1.77	0.24	601	1.1	23	408	<5	10	23	49	<1	9	<20	37	<10	<10	80	<20	6	30	
656766	<.2	42	49	84	74	310	7	10	<5	2.93	4.58	2.26	0.84	0.17	1.77	0.23	664	<.2	21	396	<5	10	26	56	<1	12	<20	42	<10	<10	95	<20	6	29	
656767	<.2	20	52	76	72	309	4	10	<5	2.54	4.35	2.14	0.42	0.18	1.51	0.19	595	<.2	20	541	<5	10	25	55	<1	11	<20	32	<10	<10	92	<20	5	35	
656768	<.2	13	52	82	68	273	6	8	<5	2.83	4.60	2.12	0.76	0.16	1.79	0.24	746	<.2	19	492	5	10	25	58	<1	11	<20	49	<10	<10	89	<20	5	30	



Intertek Testing Services
Chimitec Bondar Clegg

Rapport Lab Geochimie
Geochemical Lab Report

CLIENT: CYPRUS CANADA INC.
REPORT: T97-57800.1 (COMPLETE)

PROJECT: 5007
DATE RECEIVED: 20-OCT-97 DATE PRINTED: 7-NOV-97 PAGE 2 OF 4

SAMPLE NUMBER	ELEMENT	Ag	As	Cu	Zn	Ni	Cr	Pb	Mo	Sb	Al	Fe	Mg	Ca	Na	K	Ti	Mn	Cd	Co	Ba	Bi	Ga	La	Li	Nb	Sc	Sn	Sr	Ta	Te	V	W	Y	Zr
		UNITS	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
656769		<.2	19	49	78	68	281	7	11	<5	2.88	4.43	2.13	0.56	0.15	1.79	0.24	653	<.2	19	477	<5	10	24	63	<1	11	<20	36	<10	<10	89	<20	5	31
656770		<.2	64	53	84	74	283	6	10	<5	3.19	4.74	2.16	0.90	0.14	2.11	0.26	744	<.2	20	420	<5	11	26	52	<1	11	<20	41	<10	<10	93	<20	7	31
656771		<.2	20	48	80	72	301	5	10	<5	2.65	4.41	2.22	0.47	0.16	1.73	0.23	654	<.2	19	468	<5	11	26	52	<1	11	<20	33	<10	<10	91	<20	5	32
656772		<.2	68	47	80	73	334	7	11	<5	2.71	4.10	1.95	1.90	0.12	1.64	0.22	647	<.2	19	304	<5	9	24	41	<1	9	<20	54	<10	<10	79	<20	7	29
656773		<.2	191	43	76	75	349	7	10	<5	3.05	4.07	2.24	1.08	0.16	1.97	0.25	668	<.2	19	493	<5	10	27	43	<1	11	<20	46	<10	<10	86	<20	7	34
656774		<.2	27	44	68	69	318	10	13	<5	2.68	3.54	2.05	0.72	0.13	1.78	0.21	538	<.2	17	282	<5	9	28	36	<1	8	<20	29	<10	<10	68	<20	7	36
656775		<.2	22	54	75	77	376	6	9	<5	2.67	4.20	2.23	1.04	0.18	1.64	0.23	633	<.2	21	480	<5	10	25	41	<1	11	<20	37	<10	<10	93	22	8	33
656776		0.2	29	52	82	89	360	5	11	<5	3.10	4.65	2.28	0.63	0.18	1.72	0.23	613	<.2	23	481	<5	11	23	44	<1	13	<20	33	<10	<10	103	<20	6	33
656777		0.3	52	64	91	101	276	6	8	<5	3.96	5.24	2.35	0.52	0.17	2.28	0.28	688	<.2	26	382	<5	11	28	54	<1	13	<20	32	<10	<10	103	<20	7	38
656778		<.2	46	61	97	108	310	7	9	<5	4.35	5.72	2.57	0.54	0.18	2.68	0.32	721	<.2	26	381	<5	13	27	53	<1	14	<20	49	<10	<10	118	<20	7	38
656779		<.2	96	56	82	95	279	10	7	<5	4.36	4.89	2.32	0.89	0.27	2.30	0.27	660	<.2	24	210	<5	11	25	38	<1	12	<20	97	<10	<10	98	<20	8	30
656780		0.3	109	62	84	96	311	7	10	<5	3.70	5.07	2.33	0.61	0.18	2.22	0.29	717	<.2	24	248	<5	11	26	37	<1	12	<20	47	<10	<10	99	<20	8	36
656781		0.2	16	53	78	84	466	5	16	<5	2.72	4.51	2.18	0.73	0.18	1.71	0.25	670	<.2	21	476	<5	10	27	39	<1	12	<20	32	<10	<10	98	<20	8	34
656782		<.2	90	50	74	81	454	5	14	<5	2.62	4.33	2.21	0.73	0.15	1.74	0.25	590	<.2	20	464	<5	9	26	42	<1	12	<20	28	<10	<10	95	<20	7	35
656783		<.2	19	51	66	82	447	4	14	<5	2.31	3.76	2.11	0.56	0.20	1.45	0.21	384	<.2	21	501	<5	9	27	37	<1	10	<20	32	<10	<10	94	<20	7	37
656784		<.2	26	49	84	79	416	6	11	<5	2.68	4.15	2.20	0.74	0.17	1.69	0.24	574	<.2	20	433	<5	9	27	41	<1	11	<20	31	<10	<10	91	<20	7	35
656785		<.2	18	49	68	72	328	8	14	<5	2.75	3.52	1.99	0.57	0.15	1.74	0.22	523	<.2	18	241	<5	10	28	37	<1	8	<20	30	<10	<10	70	<20	7	35
656786		<.2	11	48	73	77	382	5	10	<5	2.36	3.81	2.01	1.08	0.16	1.46	0.22	633	<.2	19	416	<5	9	25	38	<1	9	<20	33	<10	<10	85	<20	7	32
656787		<.2	24	51	81	81	381	9	11	<5	2.44	4.15	2.20	1.25	0.17	1.37	0.19	626	<.2	20	469	<5	9	26	43	<1	10	<20	54	<10	<10	86	<20	7	34
656788		<.2	27	52	78	87	304	8	8	<5	2.71	4.52	2.20	0.99	0.17	1.63	0.23	712	<.2	22	535	<5	10	25	45	<1	12	<20	54	<10	<10	90	<20	6	31

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CLIENT: CYPRUS CANADA INC.

PROJECT: 5007

REPORT: T97-57800.1 (COMPLETE)

DATE RECEIVED: 20-OCT-97

DATE PRINTED: 7-NOV-97

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STANDARD NAME	ELEMENT UNITS	Ag	As	Cu	Zn	Ni	Cr	Pb	Mo	Sb	Al	Fe	Mg	Ca	Na	K	Ti	Mn	Cd	Co	Ba	Bi	Ga	La	Li	Nb	Sc	Sn	Sr	Ta	Te	V	W	Y	Zr	
BCC GEOCHEM STD 5		0.7	11	100	79	36	51	9	2	<5	3.35	4.52	2.03	1.12	0.06	0.33	0.21	768	<.2	16	194	<5	8	9	23	<1	9	<20	43	<10	<10	119	<20	7	11	
Number of Analyses		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		0.7	11	100	79	36	51	9	2	3	3.35	4.52	2.03	1.12	0.06	0.33	0.21	768	0.1	16	194	3	8	9	23	0.5	9	10	43	5	5	119	10	7	11	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		0.7	8	90	80	40	54	11	2	1	3.09	4.74	1.83	1.08	0.06	0.32	-	720	0.1	18	200	1	-	5	-	1	18	4	39	1	0.2	133	1	9	9	
ANALYTICAL BLANK		<.2	<5	<1	<1	<1	<1	<2	<1	<5	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<1	<.2	<1	<1	<5	<2	<1	<1	<1	<5	<20	<1	<10	<10	<1	<20	<1	<1	
ANALYTICAL BLANK		<.2	<5	<1	<1	<1	<1	<2	<1	<5	<.01	<.01	<.01	<.01	<.01	<.01	<.01	1	<.2	<1	<1	<5	<2	<1	<1	<1	<5	<20	<1	<10	<10	<1	<20	<1	<1	
Number of Analyses		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Mean Value		0.1	3	0.5	0.5	0.5	0.5	1	0.5	3	.005	.005	.005	.005	.005	.005	.005	0.8	0.1	0.5	0.5	3	1	0.5	0.5	0.5	3	10	0.5	5	5	0.5	10	0.5	0.5	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		0.2	5	1	1	1	1	2	1	5	<.01	0.05	<.01	<.01	<.01	<.01	<.01	1	1.0	1	.01	2	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
BCC GEOCHEM STD 6		0.3	138	136	135	123	178	17	2	<5	1.82	6.35	2.50	3.70	0.01	0.04	<.01	1423	0.2	29	6	<5	5	3	18	<1	7	<20	73	<10	<10	44	<20	3	5	
Number of Analyses		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		0.3	138	136	135	123	178	17	2	3	1.82	6.35	2.50	3.70	0.01	0.04	.005	1423	0.2	29	6	3	5	3	18	0.5	7	10	73	5	5	44	10	3	5	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		0.2	-	140	140	135	170	18	4	-	1.80	6.50	2.70	4.00	0.01	0.04	.003	1450	0.2	35	6	1	-	-	24	-	6	5	70	1	-	50	12	3	5	



CLIENT: CYPRUS CANADA INC.

PROJECT: 5007

REPORT: T97-57800.1 (COMPLETE)

DATE RECEIVED: 20-OCT-97

DATE PRINTED: 7-NOV-97

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SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	As PPM	Cu PPM	Zn PPM	Ni PPM	Cr PPM	Pb PPM	Mo PPM	Sb PPM	Al PCT	Fe PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Ti PCT	Mn PPM	Cd PPM	Co PPM	Ba PPM	Bi PPM	Ga PPM	La PPM	Li PPM	Nb PPM	Sc PPM	Sn PPM	Sr PPM	Ta PPM	Te PPM	V PPM	W PPM	Y PPM	Zr PPM
656739		<.2	24	45	85	91	412	7	11	<5	3.07	4.86	2.58	0.58	0.13	2.01	0.27	656	<.2	22	582	<5	11	22	56	<1	13	<20	27	<10	<10	104	<20	6	31
Duplicate		<.2	28	46	87	93	423	7	12	<5	3.13	4.94	2.59	0.59	0.14	2.06	0.28	665	<.2	21	596	<5	11	23	57	<1	13	<20	28	<10	<10	106	<20	6	32
656757		<.2	66	48	73	89	341	8	11	<5	2.97	4.09	2.01	1.46	0.16	1.97	0.25	722	<.2	20	295	<5	11	25	51	<1	11	<20	41	<10	<10	87	<20	8	28
Duplicate		<.2	64	47	76	91	350	8	11	<5	3.02	4.22	2.08	1.50	0.16	1.97	0.25	739	0.3	21	296	<5	10	24	51	<1	11	<20	42	<10	<10	88	<20	8	28
656776		0.2	29	52	82	89	360	5	11	<5	3.10	4.65	2.28	0.63	0.18	1.72	0.23	613	<.2	23	481	<5	11	23	44	<1	13	<20	33	<10	<10	103	<20	6	33
Duplicate		<.2	28	56	85	89	373	5	12	<5	3.25	4.77	2.20	0.65	0.21	1.87	0.23	628	<.2	23	504	<5	11	25	49	<1	14	<20	35	<10	<10	106	<20	6	32



Intertek Testing Services
Chimitec Bondar Clegg

DEC 02 1997

Rapport Lab Geochimie
Geochemical Lab Report

REPORT: T97-57801.1 (COMPLETE)

REFERENCE: -

CLIENT: CYPRUS CANADA INC.

SUBMITTED BY: D. STEVENSON

PROJECT: 5007

DATE RECEIVED: 20-OCT-97 DATE PRINTED: 11-NOV-97

DATE APPROVED	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION	EXTRACTION	METHOD	SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER	
971111	1 Ag	Silver	58	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA	DRILL CORE	58	-200	58	AS RECEIVED	58
971111	2 As	Arsenic	58	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	3 Cu	Copper	58	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	4 Zn	Zinc	58	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	5 Ni	Nickel	58	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	6 Cr	Chromium	58	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	7 Pb	Lead	58	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	8 Mo	Molybdenum	58	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	9 Sb	Antimony	58	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	10 Al	Aluminum	58	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	11 Fe	Iron	58	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	12 Mg	Magnesium	58	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	13 Ca	Calcium	58	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	14 Na	Sodium	58	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	15 K	Potassium	58	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	16 Ti	Titanium	58	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	17 Mn	Manganese	58	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	18 Cd	Cadmium	58	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	19 Co	Cobalt	58	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	20 Ba	Barium	58	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	21 Bi	Bismuth	58	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	22 Ga	Gallium	58	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	23 La	Lanthanum	58	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	24 Li	Lithium	58	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	25 Nb	Niobium	58	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	26 Sc	Scandium	58	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	27 Sn	Tin	58	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	28 Sr	Strontium	58	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	29 Ta	Tantalum	58	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	30 Te	Tellurium	58	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	31 V	Vanadium	58	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	32 W	Tungsten	58	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	33 Y	Yttrium	58	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	34 Zr	Zirconium	58	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						

REPORT COPIES TO: MR. DAVID B. STEVENSON

INVOICE TO: MR. DAVID B. STEVENSON

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Intertek Testing Services

Chimitec Bondar Clegg

Rapport Lab Geochimie

Geochemical Lab Report

CLIENT: CYPRUS CANADA INC.

PROJECT: 5007

REPORT: T97-57801.1 (COMPLETE)

DATE RECEIVED: 20-OCT-97

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SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	As PPM	Cu PPM	Zn PPM	Ni PPM	Cr PPM	Pb PPM	Mo PPM	Sb PPM	Al PCT	Fe PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Ti PCT	Mn PPM	Cd PPM	Co PPM	Ba PPM	Bi PPM	Ga PPM	La PPM	Li PPM	Nb PPM	Sc PPM	Sn PPM	Sr PPM	Ta PPM	Te PPM	V PPM	W PPM	Y PPM	Zr PPM
656789	<.2	17	40	77	78	389	7	11	<5	2.19	3.89	1.98	1.02	0.15	1.44	0.20	520	<.2	18	446	<5	9	24	47	<1	8	<20	41	<10	<10	85	<20	6	27	
656790	<.2	13	41	76	79	318	8	8	<5	2.35	3.93	1.94	0.86	0.14	1.62	0.21	550	<.2	18	483	<5	9	24	49	<1	10	<20	33	<10	<10	84	<20	6	26	
656791	<.2	<5	43	81	82	315	8	7	<5	2.54	4.11	2.12	0.81	0.15	1.68	0.23	540	<.2	19	532	<5	10	26	44	<1	9	<20	39	<10	<10	91	<20	7	27	
656792	<.2	<5	38	75	73	326	8	7	<5	2.19	3.69	1.95	0.76	0.15	1.43	0.20	440	<.2	17	508	<5	10	26	41	<1	7	<20	42	<10	<10	80	<20	6	25	
656793	<.2	<5	44	75	78	328	7	9	<5	2.37	3.98	1.92	0.82	0.15	1.59	0.22	569	<.2	18	503	<5	9	23	46	<1	10	<20	33	<10	<10	88	<20	7	25	
656794	<.2	<5	40	78	79	333	6	8	<5	2.53	4.10	2.01	0.77	0.14	1.72	0.23	595	<.2	18	527	<5	10	24	49	<1	10	<20	32	<10	<10	87	<20	7	27	
656795	<.2	<5	37	73	74	313	8	9	<5	2.50	3.75	1.96	0.88	0.16	1.62	0.21	564	<.2	17	360	<5	9	22	43	<1	10	<20	38	<10	<10	82	<20	8	27	
656796	<.2	<5	48	75	85	345	7	7	<5	2.53	4.13	2.06	0.62	0.16	1.69	0.23	573	<.2	19	463	<5	9	24	43	<1	10	<20	29	<10	<10	91	<20	7	28	
656797	<.2	<5	45	76	87	318	7	9	<5	2.76	4.20	2.04	0.64	0.17	1.87	0.25	595	<.2	19	561	<5	11	24	47	<1	11	<20	28	<10	<10	96	<20	7	33	
656798	<.2	6	41	73	73	332	8	8	<5	2.10	3.68	1.99	0.59	0.14	1.37	0.20	451	<.2	17	490	<5	9	24	39	<1	7	<20	27	<10	<10	81	<20	6	29	
656799	<.2	<5	40	81	75	325	8	9	<5	2.40	3.90	1.95	1.02	0.16	1.60	0.22	594	<.2	17	538	<5	9	24	44	<1	10	<20	37	<10	<10	87	<20	7	30	
656800	<.2	8	44	76	80	291	6	8	<5	2.70	4.19	2.03	0.54	0.13	1.88	0.24	599	0.2	18	530	<5	10	24	46	<1	10	<20	27	<10	<10	90	<20	6	31	
656801	<.2	<5	44	78	84	351	7	10	<5	2.52	4.29	2.12	0.51	0.15	1.69	0.24	590	<.2	19	555	<5	10	23	42	<1	10	<20	27	<10	<10	94	<20	6	31	
656802	0.2	<5	43	78	78	331	6	8	<5	2.24	3.93	1.94	0.60	0.17	1.49	0.21	499	<.2	18	497	<5	10	23	45	<1	9	<20	35	<10	<10	88	<20	6	30	
656803	0.2	8	49	79	84	304	6	8	<5	2.31	4.33	2.02	0.58	0.18	1.53	0.20	601	<.2	19	535	<5	9	23	48	<1	11	<20	51	<10	<10	96	<20	6	33	
656804	<.2	13	48	74	85	232	8	5	<5	2.33	4.23	2.08	0.59	0.16	1.51	0.20	585	<.2	19	478	<5	9	22	47	<1	11	<20	49	<10	<10	89	<20	6	34	
656805	<.2	363	52	78	78	300	10	9	<5	3.25	3.98	1.93	2.19	0.16	1.60	0.20	617	0.3	18	200	<5	11	23	42	<1	9	<20	130	<10	<10	82	<20	7	32	
656806	<.2	1280	44	66	72	264	12	9	<5	2.93	3.76	1.79	2.42	0.09	1.37	0.16	543	1.2	17	130	<5	9	17	39	<1	7	<20	123	<10	<10	67	<20	6	31	
656807	<.2	12	39	73	81	315	8	7	<5	2.41	3.93	2.06	0.93	0.16	1.48	0.20	565	<.2	19	445	<5	9	22	42	<1	9	<20	49	<10	<10	85	<20	6	29	
656808	<.2	9	41	67	78	327	7	7	<5	2.04	3.53	1.99	0.71	0.14	1.30	0.18	381	<.2	18	460	<5	8	23	35	<1	6	<20	42	<10	<10	79	<20	5	28	
656809	<.2	10	41	69	81	335	7	9	<5	2.27	3.71	2.01	1.06	0.15	1.47	0.20	526	<.2	18	457	<5	9	22	41	<1	8	<20	43	<10	<10	83	<20	6	24	
656810	0.2	<5	49	77	89	298	6	6	<5	2.74	4.24	2.14	0.86	0.17	1.83	0.24	665	<.2	19	477	<5	10	22	46	<1	11	<20	38	<10	<10	96	<20	7	27	
656811	<.2	22	54	84	95	277	7	7	<5	3.09	4.77	2.20	0.38	0.13	2.16	0.27	622	<.2	21	496	<5	12	23	55	<1	11	<20	24	<10	<10	100	<20	6	31	
656812	<.2	<5	39	58	70	294	7	7	<5	1.86	3.08	1.73	2.48	0.13	1.20	0.17	438	<.2	15	318	<5	8	16	35	<1	6	<20	61	<10	<10	67	<20	5	21	
656813	<.2	10	45	76	88	364	8	8	<5	2.43	4.02	2.15	0.77	0.16	1.59	0.22	514	<.2	19	422	<5	9	24	48	<1	9	<20	33	<10	<10	88	<20	7	26	
656814	0.2	<5	56	88	103	263	9	5	<5	2.99	4.72	2.30	0.45	0.13	2.05	0.27	624	<.2	23	590	<5	12	22	53	<1	13	<20	24	<10	<10	109	<20	7	32	
656815	<.2	<5	52	81	96	406	7	9	<5	2.70	4.63	2.24	0.63	0.16	1.80	0.24	594	<.2	21	512	<5	11	24	50	<1	11	<20	32	<10	<10	101	<20	7	30	
656816	<.2	<5	42	71	85	329	5	7	<5	2.49	4.04	2.17	0.67	0.14	1.68	0.22	568	<.2	18	509	<5	9	21	47	<1	10	<20	31	<10	<10	89	<20	6	25	
656817	<.2	22	55	75	98	352	6	10	<5	2.79	4.27	2.03	0.83	0.16	1.74	0.24	659	<.2	21	517	<5	10	21	48	<1	11	<20	41	<10	<10	92	<20	7	31	
656818	<.2	10	41	65	86	358	6	7	<5	2.05	3.46	1.99	0.93	0.16	1.28	0.18	401	<.2	18	486	<5	8	20	48	<1	7	<20	35	<10	<10	80	<20	6	31	



CLIENT: CYPRUS CANADA INC.

PROJECT: 5007

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SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	As PPM	Cu PPM	Zn PPM	Ni PPM	Cr PPM	Pb PPM	Mo PPM	Sb PPM	Al PCT	Fe PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Ti PCT	Mn PPM	Cd PPM	Co PPM	Ba PPM	Bi PPM	Ga PPM	La PPM	Li PPM	Nb PPM	Sc PPM	Sn PPM	Sr PPM	Ta PPM	Te PPM	V PPM	W PPM	Y PPM	Zr PPM
656819	<.2	20	40	72	81	363	7	11	<5	2.19	3.83	2.02	0.98	0.12	1.45	0.19	547	<.2	17	570	<5	8	21	49	<1	8	<20	35	<10	<10	77	<20	6	30	
656820	<.2	45	46	68	83	397	4	9	<5	2.29	3.87	2.03	0.46	0.16	1.48	0.20	405	<.2	19	424	<5	8	20	44	<1	9	<20	29	<10	<10	92	<20	6	32	
656821	<.2	34	46	68	96	418	6	12	<5	2.36	3.86	2.15	0.58	0.16	1.47	0.19	419	<.2	20	426	<5	10	22	45	<1	10	<20	29	<10	<10	94	<20	6	34	
656822	<.2	295	46	77	82	390	11	8	<5	3.44	4.04	2.07	1.60	0.26	1.84	0.20	586	0.4	18	183	<5	11	18	41	<1	10	<20	92	<10	<10	82	<20	7	28	
656823	<.2	128	53	75	90	377	7	10	<5	3.05	4.31	2.08	0.98	0.17	1.96	0.23	652	<.2	20	304	<5	10	19	44	<1	11	<20	52	<10	<10	87	<20	7	30	
656824	<.2	552	45	70	86	351	9	6	<5	3.55	3.96	2.18	2.57	0.28	1.95	0.21	644	1.0	19	255	<5	12	17	45	<1	11	<20	119	<10	<10	87	<20	7	30	
656825	<.2	28	48	80	99	403	7	10	<5	2.68	4.56	2.31	0.37	0.15	1.85	0.24	602	<.2	22	410	<5	11	23	53	<1	11	<20	29	<10	<10	98	<20	7	34	
656826	<.2	28	50	69	87	356	5	7	<5	2.17	3.92	2.03	0.53	0.16	1.41	0.20	410	<.2	20	443	<5	9	21	44	<1	9	<20	27	<10	<10	93	<20	6	34	
656827	<.2	25	48	76	87	340	7	8	<5	2.62	4.24	2.08	0.86	0.14	1.81	0.23	619	<.2	19	416	<5	10	21	48	<1	11	<20	30	<10	<10	94	<20	6	32	
656828	<.2	27	50	81	87	296	7	6	<5	2.44	4.36	2.04	0.92	0.16	1.63	0.21	644	<.2	20	401	<5	10	20	50	<1	11	<20	42	<10	<10	89	<20	6	31	
656829	<.2	71	53	75	96	362	5	9	<5	2.25	4.24	2.03	0.62	0.16	1.49	0.21	528	<.2	22	482	<5	8	21	50	<1	9	<20	34	<10	<10	91	<20	6	32	
656830	<.2	70	64	54	118	409	4	5	<5	2.46	3.29	2.44	0.96	0.19	1.55	0.18	296	<.2	25	354	<5	8	16	52	<1	<5	<20	43	<10	<10	86	<20	5	27	
656831	<.2	26	46	76	89	357	6	9	<5	2.78	3.85	2.24	1.51	0.19	1.79	0.22	613	<.2	19	423	<5	10	19	55	<1	9	<20	57	<10	<10	82	<20	8	26	
656832	<.2	65	41	76	96	379	8	7	<5	3.56	4.13	2.14	3.06	0.23	2.06	0.21	635	<.2	20	208	<5	11	15	55	<1	11	<20	106	<10	<10	87	<20	6	25	
656833	<.2	159	43	73	97	338	7	8	<5	2.57	4.01	2.17	2.41	0.12	1.79	0.20	582	0.3	19	374	<5	9	16	62	<1	10	<20	85	<10	<10	83	<20	6	29	
656834	<.2	195	47	68	99	358	8	7	<5	2.41	3.86	2.30	3.08	0.10	1.78	0.19	766	0.3	21	343	<5	9	12	66	<1	7	<20	75	<10	<10	69	<20	6	21	
656835	0.3	45	47	61	114	417	5	11	<5	1.98	3.54	2.14	0.47	0.13	1.31	0.19	350	<.2	20	554	<5	8	20	47	<1	7	<20	21	<10	<10	84	<20	5	32	
656836	<.2	19	43	62	119	372	4	6	<5	2.19	3.46	2.22	0.82	0.16	1.38	0.19	402	<.2	21	524	<5	8	20	49	<1	7	<20	28	<10	<10	81	<20	6	31	
656837	<.2	45	48	72	90	373	6	9	<5	2.57	4.18	2.11	1.28	0.14	1.75	0.21	644	<.2	19	361	<5	9	19	53	<1	10	<20	43	<10	<10	88	<20	6	27	
656838	<.2	9	31	103	15	145	5	8	<5	2.56	4.78	1.53	2.96	0.12	0.25	0.07	656	<.2	8	43	<5	9	8	27	<1	6	<20	38	<10	<10	46	<20	11	6	
656839	<.2	42	89	53	28	168	3	7	<5	2.43	4.28	1.96	2.05	0.20	0.10	0.09	541	<.2	20	22	<5	6	3	13	<1	10	<20	23	<10	<10	86	<20	8	2	
656840	<.2	13	57	49	22	99	2	3	<5	2.63	4.07	1.89	3.03	0.29	0.17	0.12	666	<.2	19	35	<5	6	<1	10	<1	13	<20	41	<10	<10	103	<20	7	1	
656841	<.2	13	92	37	23	118	<2	4	<5	2.27	3.49	1.91	2.24	0.24	0.07	0.10	498	<.2	19	9	<5	5	<1	8	<1	11	<20	32	<10	<10	94	<20	6	<1	
656842	<.2	14	115	102	34	172	3	6	<5	1.69	3.54	1.34	4.55	0.20	0.13	0.10	698	<.2	20	35	<5	5	<1	7	<1	10	<20	21	<10	<10	78	<20	6	1	
656843	<.2	68	80	39	48	153	2	5	<5	1.79	3.13	1.46	3.06	0.21	0.03	0.08	567	<.2	23	4	<5	5	1	7	<1	9	<20	29	<10	<10	77	<20	6	2	
656844	<.2	26	68	71	50	129	2	6	<5	2.53	3.99	1.74	3.27	0.23	0.38	0.12	736	<.2	24	74	<5	6	2	11	<1	10	<20	31	<10	<10	95	<20	7	2	
656845	<.2	32	40	50	60	148	<2	5	<5	2.02	2.70	1.49	2.22	0.25	0.35	0.10	408	<.2	18	48	<5	6	6	11	<1	7	<20	28	<10	<10	74	<20	8	6	
656846	<.2	4214	47	38	81	179	2	8	<5	1.48	3.17	1.31	3.29	0.16	0.18	0.05	564	8.5	24	53	<5	5	3	8	<1	6	<20	17	<10	<10	52	<20	8	4	



Intertek Testing Services
Chimitec Bondar Clegg

Rapport Lab Geochimie
Geochemical Lab Report

CLIENT: CYPRUS CANADA INC.

PROJECT: 5007

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STANDARD NAME	ELEMENT UNITS	Ag PPM	As PPM	Cu PPM	Zn PPM	Ni PPM	Cr PPM	Pb PPM	Mo PPM	Sb PPM	Al PCT	Fe PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Ti PCT	Mn PPM	Cd PPM	Co PPM	Ba PPM	Bi PPM	Ga PPM	La PPM	Li PPM	Nb PPM	Sc PPM	Sn PPM	Sr PPM	Ta PPM	Te PPM	V PPM	W PPM	Y PPM	Zr PPM
BCC GEOCHEM STD 6		0.2	133	133	140	127	171	20	2	<5	1.74	6.32	2.31	3.45	0.01	0.04	<.01	1337	0.5	27	6	<5	5	2	17	<1	6	<20	71	<10	<10	44	<20	2	5
Number of Analyses		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		0.2	133	133	140	127	171	20	2	3	1.74	6.32	2.31	3.45	0.01	0.04	.005	1337	0.5	27	6	3	5	2	17	0.5	6	10	71	5	5	44	10	2	5
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		0.2	-	140	140	135	170	18	4	-	1.80	6.50	2.70	4.00	0.01	0.04	.003	1450	0.2	35	6	1	-	-	24	-	6	5	70	1	-	50	12	3	5
ANALYTICAL BLANK		<.2	<5	<1	<1	<1	<1	<2	<1	<5	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<1	<.2	<1	<1	<5	<2	<1	<1	<1	<5	<20	<1	<10	<10	<1	<20	<1	<1
ANALYTICAL BLANK		<.2	<5	<1	<1	<1	<1	<2	<1	<5	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<1	<.2	<1	<1	<5	<2	<1	<1	<1	<5	<20	<1	<10	<10	<1	<20	<1	<1
Number of Analyses		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Mean Value		0.1	3	0.5	0.5	0.5	0.5	1	0.5	3	.005	.005	.005	.005	.005	.005	.005	0.5	0.1	0.5	0.5	3	1	0.5	0.5	0.5	3	10	0.5	5	5	0.5	10	0.5	0.5
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		0.2	5	1	1	1	1	2	1	5	<.01	0.05	<.01	<.01	<.01	<.01	<.01	1	1.0	1	.01	2	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
BCC GEOCHEM STD 5		0.6	6	89	75	35	47	10	1	<5	2.93	4.24	1.83	0.98	0.05	0.29	0.19	683	<.2	14	174	<5	8	6	21	<1	8	<20	37	<10	<10	115	<20	6	11
Number of Analyses		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		0.6	6	89	75	35	47	10	1	3	2.93	4.24	1.83	0.98	0.05	0.29	0.19	683	0.1	14	174	3	8	6	21	0.5	8	10	37	5	5	115	10	6	11
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		0.7	8	90	80	40	54	11	2	1	3.09	4.74	1.83	1.08	0.06	0.32	-	720	0.1	18	200	1	-	5	-	1	18	4	39	1	0.2	133	1	9	9



CLIENT: CYPRUS CANADA INC.

PROJECT: 5007

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SAMPLE NUMBER	ELEMENT UNITS	Ag	As	Cu	Zn	Ni	Cr	Pb	Mo	Sb	Al	Fe	Mg	Ca	Na	K	Ti	Mn	Cd	Co	Ba	Bi	Ga	La	Li	Nb	Sc	Sn	Sr	Ta	Te	V	W	Y	Zr
656790	<.2	13	41	76	79	318	8	8	<5	2.35	3.93	1.94	0.86	0.14	1.62	0.21	550	<.2	18	483	<5	9	24	49	<1	10	<20	33	<10	<10	84	<20	6	26	
Duplicate	<.2	7	40	78	79	331	7	8	<5	2.33	4.01	2.09	0.89	0.15	1.56	0.22	561	<.2	18	481	<5	8	22	46	<1	10	<20	33	<10	<10	86	<20	6	27	
656808	<.2	9	41	67	78	327	7	7	<5	2.04	3.53	1.99	0.71	0.14	1.30	0.18	381	<.2	18	460	<5	8	23	35	<1	6	<20	42	<10	<10	79	<20	5	28	
Duplicate	<.2	<5	40	67	80	335	8	7	<5	2.04	3.57	2.07	0.73	0.15	1.25	0.18	388	<.2	18	460	<5	8	22	34	<1	7	<20	43	<10	<10	80	<20	5	29	
656827	<.2	25	48	76	87	340	7	8	<5	2.62	4.24	2.08	0.86	0.14	1.81	0.23	619	<.2	19	416	<5	10	21	48	<1	11	<20	30	<10	<10	94	<20	6	32	
Duplicate	<.2	28	48	77	88	347	5	9	<5	2.66	4.31	2.15	0.87	0.14	1.83	0.24	629	<.2	20	417	<5	10	21	49	<1	11	<20	31	<10	<10	95	<20	6	32	
656844	<.2	26	68	71	50	129	2	6	<5	2.53	3.99	1.74	3.27	0.23	0.38	0.12	736	<.2	24	74	<5	6	2	11	<1	10	<20	31	<10	<10	95	<20	7	2	
Duplicate	<.2	24	67	71	49	129	<2	5	<5	2.51	3.94	1.73	3.21	0.23	0.37	0.11	728	<.2	22	73	<5	6	2	11	<1	10	<20	30	<10	<10	94	<20	7	2	



DEC 02 1997

REPORT: T97-57794.1 (COMPLETE)

REFERENCE: -

CLIENT: CYPRUS CANADA INC.

SUBMITTED BY: D. STEVENSON

PROJECT: 5007

DATE RECEIVED: 20-OCT-97 DATE PRINTED: 31-OCT-97

DATE APPROVED	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION	EXTRACTION	METHOD	SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER	
971031	1 Ag	Silver	78	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA	DRILL CORE	78	-200	78	AS RECEIVED	78
971031	2 As	Arsenic	78	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971031	3 Cu	Copper	78	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971031	4 Zn	Zinc	78	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971031	5 Ni	Nickel	78	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971031	6 Cr	Chromium	78	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971031	7 Pb	Lead	78	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971031	8 Mo	Molybdenum	78	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971031	9 Sb	Antimony	78	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971031	10 Al	Aluminum	78	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971031	11 Fe	Iron	78	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971031	12 Mg	Magnesium	78	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971031	13 Ca	Calcium	78	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971031	14 Na	Sodium	78	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971031	15 K	Potassium	78	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971031	16 Ti	Titanium	78	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971031	17 Mn	Manganese	78	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971031	18 Cd	Cadmium	78	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971031	19 Co	Cobalt	78	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971031	20 Ba	Barium	78	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971031	21 Bi	Bismuth	78	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971031	22 Ga	Gallium	78	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971031	23 La	Lanthanum	78	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971031	24 Li	Lithium	78	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971031	25 Nb	Niobium	78	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971031	26 Sc	Scandium	78	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971031	27 Sn	Tin	78	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971031	28 Sr	Strontium	78	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971031	29 Ta	Tantalum	78	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971031	30 Te	Tellurium	78	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971031	31 V	Vanadium	78	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971031	32 W	Tungsten	78	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971031	33 Y	Yttrium	78	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971031	34 Zr	Zirconium	78	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						

REPORT COPIES TO: MR. DAVID B. STEVENSON

INVOICE TO: MR. DAVID B. STEVENSON

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MS



CLIENT: CYPRUS CANADA INC.
REPORT: T97-57794.1 (COMPLETE)

PROJECT: 5007
DATE RECEIVED: 20-OCT-97 DATE PRINTED: 31-OCT-97 PAGE 1 OF 5

SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	As PPM	Cu PPM	Zn PPM	Ni PPM	Cr PPM	Pb PPM	Mo PPM	Sb PPM	Al PCT	Fe PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Ti PCT	Mn PPM	Cd PPM	Co PPM	Ba PPM	Bi PPM	Ga PPM	La PPM	Li PPM	Nb PPM	Sc PPM	Sn PPM	Sr PPM	Ta PPM	Te PPM	V PPM	W PPM	Y PPM	Zr PPM
656847	<.2	308	93	62	84	114	<2	4	<5	2.03	3.56	1.66	2.37	0.21	0.16	0.08	485	<.2	52	59	<5	<2	4	13	2	9	<20	12	<10	<10	104	<20	9	2	
656848	<.2	188	98	46	67	131	<2	5	<5	1.72	3.11	1.51	2.29	0.19	0.12	0.09	487	<.2	47	21	<5	<2	3	9	1	8	<20	10	<10	<10	100	<20	8	2	
656849	<.2	>10000	43	31	77	219	<2	12	17	0.92	4.66	0.91	4.50	0.09	0.06	0.03	822	<.2	54	14	<5	<2	3	5	<1	<5	<20	25	<10	<10	46	<20	9	4	
656850	<.2	666	79	62	96	241	<2	10	<5	2.51	3.57	1.36	3.21	0.26	0.86	0.14	492	<.2	32	77	<5	<2	10	20	1	6	<20	22	<10	<10	79	<20	10	7	
656851	<.2	140	104	53	71	144	<2	5	<5	2.45	3.46	1.56	2.79	0.25	0.54	0.12	491	<.2	35	66	<5	<2	5	18	4	8	<20	18	<10	<10	97	<20	9	6	
656852	<.2	131	110	43	80	110	<2	4	<5	2.20	3.48	1.83	1.77	0.21	0.36	0.11	417	<.2	43	42	<5	<2	3	16	4	8	<20	10	<10	<10	105	<20	8	3	
656853	<.2	4264	109	39	63	166	<2	7	<5	1.76	3.45	1.45	2.80	0.19	0.27	0.08	495	<.2	38	56	<5	<2	3	12	3	8	<20	14	<10	<10	92	<20	8	3	
656854	<.2	1583	126	39	63	181	<2	8	<5	1.78	3.62	1.36	2.84	0.22	0.09	0.07	513	<.2	41	14	<5	<2	3	8	2	10	<20	14	<10	<10	99	<20	10	4	
656855	<.2	342	121	48	56	148	<2	5	<5	2.58	4.62	1.68	3.86	0.26	0.39	0.13	619	<.2	34	46	<5	<2	3	18	5	13	<20	25	<10	<10	143	<20	12	4	
656856	<.2	1997	70	52	46	221	<2	11	<5	2.62	4.34	1.63	1.83	0.19	1.04	0.16	439	<.2	25	119	<5	<2	9	25	4	9	<20	17	<10	<10	113	<20	9	10	
656857	<.2	170	79	178	36	189	3	9	<5	3.00	4.40	1.46	2.23	0.25	1.04	0.18	397	0.2	19	226	<5	<2	12	28	3	8	<20	21	<10	<10	73	<20	13	10	
656858	<.2	55	103	84	63	271	6	14	<5	1.89	3.83	1.10	2.30	0.20	0.16	0.11	481	<.2	25	75	<5	<2	7	15	1	6	<20	18	<10	<10	62	<20	8	6	
656859	<.2	14	64	91	42	203	7	7	<5	2.62	3.93	1.51	2.57	0.26	0.39	0.15	505	<.2	19	130	<5	<2	11	24	3	8	<20	33	<10	<10	94	<20	11	6	
656860	<.2	8	32	80	13	140	<2	9	<5	1.66	3.61	0.87	3.00	0.20	0.16	0.11	560	<.2	17	25	<5	<2	14	14	1	9	<20	14	<10	<10	129	<20	12	6	
656861	<.2	10	64	52	18	129	<2	7	<5	1.68	3.49	0.89	3.27	0.23	0.11	0.13	600	<.2	17	22	<5	<2	12	10	1	10	<20	17	<10	<10	124	<20	12	5	
656862	<.2	26	133	45	39	122	<2	5	<5	1.99	4.20	1.20	5.93	0.25	0.05	0.13	981	<.2	26	4	<5	<2	4	10	2	12	<20	30	<10	<10	126	<20	11	4	
656863	<.2	51	99	62	48	121	2	4	<5	2.66	5.02	1.60	5.97	0.27	0.05	0.13	932	<.2	34	4	<5	<2	4	16	2	15	<20	29	<10	<10	156	<20	13	5	
656864	<.2	23	89	43	33	108	<2	3	<5	1.97	3.52	1.33	3.24	0.26	0.04	0.13	605	<.2	24	2	<5	<2	4	8	4	12	<20	16	<10	<10	125	<20	11	4	
656895	0.2	52	11	431	2	112	92	8	<5	0.89	3.55	0.04	1.19	0.29	0.46	<.01	2124	0.6	<1	160	<5	6	607	13	230	<5	<20	37	<10	<10	5	<20	106	408	
656896	0.5	129	14	622	4	125	159	12	<5	0.70	3.44	0.03	1.00	0.30	0.45	<.01	2111	1.2	<1	197	<5	4	729	2	200	<5	<20	44	<10	<10	6	<20	125	639	
656897	<.2	54	13	411	2	104	84	8	<5	0.96	3.58	0.03	1.06	0.43	0.55	<.01	2461	0.6	<1	213	<5	5	682	46	368	<5	<20	52	<10	<10	5	<20	115	518	
656898	0.7	35	94	675	60	163	49	15	<5	1.51	>10.00	0.65	3.98	0.07	0.27	0.05	2861	1.2	24	31	<5	<2	130	19	60	<5	<20	31	<10	<10	39	<20	46	169	
656899	<.2	5	47	183	57	161	10	10	<5	3.75	8.23	2.55	2.79	0.11	0.98	0.28	1464	0.3	18	48	<5	<2	8	33	6	12	<20	19	<10	<10	140	<20	17	10	
656900	<.2	31	59	68	83	159	5	23	<5	3.11	5.06	1.79	3.65	0.27	0.22	0.19	994	<.2	28	54	<5	<2	14	29	4	11	<20	37	<10	<10	123	<20	28	9	
656901	<.2	12	65	87	83	193	8	7	<5	3.53	5.04	1.84	3.72	0.25	0.71	0.25	730	<.2	24	128	<5	<2	8	20	9	10	<20	26	<10	<10	131	<20	15	7	
656905	<.2	16	38	73	77	148	3	4	<5	3.41	7.26	1.81	5.80	0.09	0.13	0.13	1723	<.2	24	14	<5	<2	9	34	5	13	<20	39	<10	<10	131	<20	17	8	
656906	<.2	41	33	94	81	127	<2	3	<5	2.47	7.31	2.32	5.80	0.11	0.18	0.02	2328	<.2	28	25	<5	4	8	37	3	15	<20	73	<10	<10	118	<20	21	8	
656907	<.2	67	87	299	106	156	31	7	<5	0.98	>10.00	1.31	6.18	0.08	0.11	<.01	1965	0.4	25	22	<5	<2	11	14	<1	9	<20	71	<10	<10	74	<20	72	15	
656908	0.3	58	135	376	126	200	39	11	7	0.56	>10.00	1.04	4.24	0.07	0.05	<.01	1828	0.4	199	6	<5	<2	5	6	<1	8	<20	62	<10	<10	68	<20	40	21	
656909	<.2	70	43	451	57	150	33	10	7	1.07	6.74	1.57	5.68	0.03	0.17	<.01	1977	0.5	16	32	<5	<2	11	9	<1	6	<20	158	<10	<10	38	<20	28	12	

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SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	As PPM	Cu PPM	Zn PPM	Ni PPM	Cr PPM	Pb PPM	Mo PPM	Sb PPM	Al PCT	Fe PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Ti PCT	Mn PPM	Cd PPM	Co PPM	Ba PPM	Bi PPM	Ga PPM	La PPM	Li PPM	Nb PPM	Sc PPM	Sn PPM	Sr PPM	Ta PPM	Te PPM	V PPM	W PPM	Y PPM	Zr PPM
656910	<.2	48	45	322	66	74	5	4	<5	1.38	6.71	1.71	6.04	0.11	0.20	<.01	2371	0.2	22	32	<5	<2	2	7	1	7	<20	61	<10	<10	23	<20	5	7	
656911	<.2	75	36	67	69	101	5	5	<5	1.62	7.59	1.66	5.79	0.09	0.28	<.01	2142	<.2	29	38	<5	<2	2	13	2	7	<20	81	<10	<10	36	<20	5	8	
656912	<.2	49	52	155	54	112	3	3	<5	2.94	7.72	2.57	5.38	0.06	0.14	<.01	2102	<.2	25	12	<5	5	5	31	6	17	<20	36	<10	<10	134	<20	6	7	
656913	<.2	36	87	79	52	100	<2	2	<5	3.20	7.20	2.42	6.31	0.06	0.13	<.01	1805	<.2	30	14	<5	6	3	30	6	20	<20	52	<10	<10	175	<20	9	6	
656914	<.2	36	113	76	60	130	3	3	<5	3.49	7.23	1.93	6.84	0.08	0.05	0.06	1369	<.2	29	6	<5	6	3	21	6	19	<20	42	<10	<10	199	<20	13	6	
656916	<.2	1305	36	55	45	321	10	13	<5	1.59	2.68	0.63	0.35	0.10	1.01	0.16	415	<.2	12	151	<5	<2	40	19	1	<5	<20	20	<10	<10	41	<20	9	13	
656917	<.2	441	37	55	42	248	8	12	<5	1.45	2.83	0.65	0.42	0.09	0.92	0.14	408	<.2	11	106	<5	<2	28	16	3	<5	<20	25	<10	<10	36	<20	8	17	
656918	<.2	1583	31	47	42	331	7	17	<5	1.29	2.59	0.59	0.61	0.09	0.81	0.11	361	<.2	11	97	<5	<2	26	15	2	<5	<20	24	<10	<10	35	<20	8	12	
656919	<.2	47	32	50	41	243	7	13	<5	1.36	2.33	0.62	0.33	0.09	0.89	0.14	314	<.2	11	87	<5	<2	31	16	<1	<5	<20	18	<10	<10	35	<20	8	13	
656920	<.2	21	31	51	34	278	8	12	<5	1.46	2.32	0.59	0.51	0.10	0.93	0.12	345	<.2	8	122	<5	<2	24	16	1	<5	<20	24	<10	<10	31	<20	7	12	
656921	<.2	1542	29	39	37	323	6	17	<5	1.04	1.87	0.40	0.35	0.09	0.69	0.09	241	<.2	10	83	<5	<2	23	11	<1	<5	<20	18	<10	<10	24	<20	6	10	
656922	<.2	3644	35	50	37	229	13	12	<5	0.96	1.98	0.40	0.35	0.09	0.59	0.07	220	<.2	12	80	<5	<2	31	11	1	<5	<20	19	<10	<10	21	<20	7	11	
656923	<.2	317	34	55	40	231	8	12	<5	1.61	2.58	0.68	0.61	0.13	1.02	0.16	367	<.2	11	107	<5	<2	29	18	2	<5	<20	32	<10	<10	42	<20	9	12	
656924	<.2	1506	32	52	32	313	11	13	<5	1.17	2.27	0.51	0.45	0.10	0.77	0.11	282	<.2	10	102	<5	<2	24	13	<1	<5	<20	23	<10	<10	29	<20	7	11	
656925	<.2	112	40	45	41	355	8	19	<5	1.26	2.66	0.46	0.56	0.07	0.79	0.09	295	<.2	10	101	<5	<2	25	13	<1	<5	<20	19	<10	<10	28	<20	8	11	
656926	<.2	419	28	39	35	318	7	15	<5	1.06	2.07	0.52	0.50	0.07	0.69	0.10	286	<.2	11	78	<5	<2	30	12	<1	<5	<20	20	<10	<10	29	<20	6	9	
656927	<.2	39	30	48	34	357	7	14	<5	1.54	2.37	0.88	0.41	0.12	1.04	0.15	330	<.2	10	100	<5	<2	28	17	1	5	<20	30	<10	<10	43	<20	7	14	
656928	<.2	5774	30	46	43	292	8	15	<5	1.32	2.44	0.76	0.35	0.10	0.89	0.13	330	<.2	11	106	<5	<2	29	15	1	<5	<20	21	<10	<10	40	<20	7	14	
656929	<.2	2576	34	61	45	294	7	13	<5	1.58	2.58	1.00	0.28	0.10	1.08	0.16	356	<.2	10	148	<5	<2	31	19	1	6	<20	22	<10	<10	49	<20	7	15	
656930	<.2	987	41	67	53	306	8	14	<5	2.25	3.17	1.09	0.44	0.15	1.36	0.18	364	<.2	13	195	<5	<2	34	23	2	6	<20	39	<10	<10	54	<20	9	21	
656931	<.2	137	69	51	42	207	4	5	<5	3.10	4.33	2.08	4.31	0.25	1.23	0.19	682	<.2	20	145	<5	<2	11	23	3	12	<20	82	<10	<10	108	<20	9	8	
656932	<.2	376	97	75	55	101	4	4	<5	2.18	4.67	1.42	6.53	0.21	0.38	0.10	1320	<.2	30	53	<5	<2	4	16	1	16	<20	41	<10	<10	119	<20	11	5	
656933	<.2	593	146	119	48	124	3	4	<5	2.34	4.93	1.44	3.97	0.25	0.40	0.10	1235	<.2	30	72	<5	<2	3	17	1	17	<20	21	<10	<10	127	<20	11	5	
656934	<.2	807	172	133	60	143	3	4	<5	2.29	5.30	1.36	4.86	0.28	0.08	0.07	1674	<.2	30	18	<5	<2	3	11	3	18	<20	17	<10	<10	123	<20	12	6	
656935	<.2	549	46	33	496	1119	<2	2	<5	1.76	5.30	6.09	3.33	<.01	<.01	0.01	1081	<.2	77	<1	<5	<2	1	1	10	9	<20	25	<10	<10	69	<20	3	5	
656936	<.2	467	37	31	503	1220	<2	1	<5	1.59	5.93	5.99	2.94	<.01	<.01	0.01	1113	<.2	73	<1	<5	<2	<1	<1	6	10	<20	24	<10	<10	66	<20	2	6	
656947	<.2	215	6	33	77	155	<2	2	<5	2.62	3.97	2.52	1.97	0.24	0.30	0.09	446	<.2	37	26	<5	<2	3	28	6	12	<20	23	<10	<10	87	<20	7	5	
656948	<.2	329	259	21	62	156	<2	2	<5	1.98	3.25	2.07	1.73	0.22	0.12	0.07	407	<.2	35	13	<5	<2	2	20	3	13	<20	16	<10	<10	82	<20	6	3	
656949	<.2	1499	51	21	68	171	3	2	<5	2.27	3.62	2.32	2.64	0.20	0.21	0.07	503	<.2	36	33	<5	<2	3	27	5	11	<20	24	<10	<10	78	<20	6	4	
656950	<.2	452	9	31	70	198	<2	2	<5	2.44	3.58	2.47	1.91	0.18	0.22	0.08	465	<.2	34	46	<5	<2	2	15	7	11	<20	16	<10	<10	72	<20	5	4	



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656951	<.2	901	67	29	55	225	<2	7	<5	2.48	3.94	2.35	2.47	0.15	0.35	0.08	463	<.2	29	83	<5	<2	2	16	7	13	<20	19	<10	<10	92	<20	5	4	
656952	<.2	120	144	29	95	201	<2	2	<5	2.56	3.53	2.76	1.63	0.18	0.24	0.09	397	<.2	37	40	<5	<2	2	18	6	8	<20	18	<10	<10	72	<20	4	4	
656953	<.2	599	120	41	50	122	<2	2	<5	2.05	4.33	1.94	2.15	0.24	0.24	0.08	456	<.2	32	24	<5	<2	3	10	5	16	<20	18	<10	<10	117	<20	9	5	
656954	<.2	86	104	34	28	134	<2	3	<5	1.97	3.84	1.80	1.98	0.20	0.70	0.15	474	<.2	23	135	<5	<2	3	17	4	14	<20	16	<10	<10	107	<20	8	5	
656955	<.2	27	73	51	17	116	5	7	<5	2.30	3.91	1.53	2.03	0.24	0.52	0.13	408	<.2	14	90	<5	<2	9	16	2	14	<20	34	<10	<10	111	<20	13	6	
656962	<.2	67	8	312	5	114	68	7	<5	0.72	3.87	0.08	0.76	0.37	0.41	<.01	2268	0.4	<1	227	<5	4	541	5	343	<5	<20	79	<10	<10	8	<20	87	258	
656970	<.2	192	81	47	75	89	8	13	<5	2.03	4.14	1.94	2.43	0.27	0.41	0.10	597	<.2	31	61	<5	<2	4	32	7	16	<20	21	<10	<10	112	<20	14	7	
656971	<.2	8419	142	72	39	112	90	9	<5	1.78	5.90	1.58	3.61	0.20	0.20	0.05	779	<.2	26	14	<5	<2	5	31	4	18	<20	28	<10	<10	121	<20	21	19	
656972	<.2	9392	96	47	57	132	6	7	<5	2.27	5.20	1.72	3.62	0.20	0.58	0.10	674	<.2	29	78	<5	<2	4	16	6	14	<20	29	<10	<10	101	<20	12	8	
656973	<.2	319	106	68	45	115	6	8	<5	3.09	5.28	2.23	3.64	0.23	0.79	0.12	765	<.2	23	77	<5	<2	5	28	7	18	<20	52	<10	<10	138	<20	13	13	
656974	<.2	35	48	55	40	145	4	7	<5	3.15	3.73	1.34	2.54	0.32	0.87	0.16	468	<.2	16	114	<5	<2	11	24	5	13	<20	33	<10	<10	96	<20	13	11	
656975	<.2	65	48	134	52	128	19	7	<5	1.00	3.20	0.79	2.45	0.21	0.25	0.06	1238	0.2	12	69	<5	<2	243	16	60	8	<20	30	<10	<10	51	<20	63	80	
656976	<.2	56	55	48	63	124	5	5	<5	2.40	3.63	1.28	5.65	0.26	0.70	0.14	626	<.2	14	101	<5	<2	10	18	6	11	<20	32	<10	<10	84	<20	12	6	
656977	<.2	256	121	36	74	79	<2	3	<5	2.23	3.77	1.77	2.31	0.25	0.04	0.09	441	<.2	31	5	<5	<2	3	9	4	14	<20	15	<10	<10	110	<20	9	5	
656978	0.4	1500	99	33	81	95	<2	4	<5	2.19	3.56	1.72	2.72	0.25	0.22	0.09	498	<.2	29	63	<5	<2	3	11	4	12	<20	21	<10	<10	89	<20	8	4	
656979	0.8	7761	165	39	55	128	<2	6	<5	1.50	4.41	1.25	3.27	0.19	0.12	0.06	596	<.2	30	28	<5	<2	3	8	3	13	<20	21	<10	<10	85	<20	12	6	
656980	<.2	3651	87	21	43	151	<2	8	<5	1.20	3.07	1.10	2.47	0.19	0.18	0.05	449	<.2	18	16	<5	<2	7	20	4	11	<20	20	<10	<10	78	<20	10	4	
656981	<.2	4100	39	31	50	190	<2	10	<5	1.45	3.34	0.96	2.38	0.16	0.53	0.09	464	<.2	14	101	<5	<2	10	13	1	7	<20	13	<10	<10	57	<20	8	4	

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Intertek Testing Services
Chimitec Bondar Clegg

Rapport Lab Geochimie
Geochemical Lab Report

CLIENT: CYPRUS CANADA INC.

PROJECT: 5007

REPORT: T97-57794.1 (COMPLETE)

DATE RECEIVED: 20-OCT-97

DATE PRINTED: 31-OCT-97

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STANDARD NAME	ELEMENT UNITS	Ag PPM	As PPM	Cu PPM	Zn PPM	Ni PPM	Cr PPM	Pb PPM	Mo PPM	Sb PPM	Al PCT	Fe PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Ti PCT	Mn PPM	Cd PPM	Co PPM	Ba PPM	Bi PPM	Ga PPM	La PPM	Li PPM	Nb PPM	Sc PPM	Sn PPM	Sr PPM	Ta PPM	Te PPM	V PPM	W PPM	Y PPM	Zr PPM
BCC GEOCHEM STD 6	0.2	145	158	144	144	192	19	3	<5	2.08	7.30	2.70	3.93	0.01	0.05	<.01	1531	<.2	34	5	<5	2	3	23	3	7	<20	78	<10	<10	54	<20	4	9	
Number of Analyses	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value	0.2	145	158	144	144	192	19	3	3	2.08	7.30	2.70	3.93	0.01	0.05	.005	1531	0.1	34	5	3	2	3	23	3	7	10	78	5	5	54	10	4	9	
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	0.2	-	140	140	135	170	18	4	-	1.80	6.50	2.70	4.00	0.01	0.04	.003	1450	0.2	35	6	1	-	-	24	-	6	5	70	1	-	50	12	3	5	
ANALYTICAL BLANK	<.2	<5	<1	<1	<1	<1	<2	<1	<5	<.01	<0.01	<.01	<.01	<.01	<.01	<.01	<.01	<1	<.2	<1	<1	<5	<2	<1	<1	<1	<5	<20	<1	<10	<10	<1	<20	<1	<1
ANALYTICAL BLANK	<.2	<5	<1	<1	<1	<1	<2	<1	<5	<.01	<0.01	<.01	<.01	<.01	<.01	<.01	<.01	<1	<.2	<1	<1	<5	<2	<1	<1	<1	<5	<20	<1	<10	<10	<1	<20	<1	<1
ANALYTICAL BLANK	<.2	<5	1	<1	<1	<1	<2	<1	<5	<.01	<0.01	<.01	<.01	<.01	<.01	<.01	<.01	<1	<.2	<1	<1	<5	<2	<1	<1	<1	<5	<20	<1	<10	<10	<1	<20	<1	<1
Number of Analyses	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Mean Value	0.1	3	0.7	0.5	0.5	0.5	1	0.5	3	.005	0.005	.005	.005	.005	.005	.005	.005	0.5	0.1	0.5	0.5	3	1	0.5	0.5	0.5	3	10	0.5	5	5	0.5	10	0.5	0.5
Standard Deviation	<.1	-	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value	0.2	5	1	1	1	1	2	1	5	<.01	0.05	<.01	<.01	<.01	<.01	<.01	<.01	1	1.0	1	.01	2	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
BCC GEOCHEM STD 5	0.8	10	91	75	38	50	11	1	<5	3.22	4.61	1.75	0.97	0.06	0.29	0.21	717	<.2	14	191	<5	<2	7	25	4	11	<20	36	<10	<10	131	<20	9	9	
Number of Analyses	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value	0.8	10	91	75	38	50	11	1	3	3.22	4.61	1.75	0.97	0.06	0.29	0.21	717	0.1	14	191	3	1	7	25	4	11	10	36	5	5	131	10	9	9	
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	0.7	8	90	80	40	54	11	2	1	3.09	4.74	1.83	1.08	0.06	0.32	-	720	0.1	18	200	1	-	5	-	1	18	4	39	1	0.2	133	1	9	9	
BCC GEOCHEM STD 4	1.3	37	289	221	43	69	35	3	<5	0.78	2.71	1.23	1.47	0.05	0.13	<.01	593	0.9	6	58	<5	<2	4	6	1	<5	<20	43	<10	<10	9	<20	3	6	
Number of Analyses	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value	1.3	37	289	221	43	69	35	3	3	0.78	2.71	1.23	1.47	0.05	0.13	.005	593	0.9	6	58	3	1	4	6	1	3	10	43	5	5	9	10	3	6	
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	0.5	30	290	255	42	80	33	4	1	0.77	2.60	1.34	1.43	0.04	0.14	0.01	600	0.8	9	55	1	2	4	7	1	12	1	39	1	0.1	9	1	4	8	



CLIENT: CYPRUS CANADA INC.

PROJECT: 5007

REPORT: T97-57794.1 (COMPLETE)

DATE RECEIVED: 20-OCT-97

DATE PRINTED: 31-OCT-97

PAGE 5 OF 5

SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	As PPM	Cu PPM	Zn PPM	Ni PPM	Cr PPM	Pb PPM	Mo PPM	Sb PPM	Al PCT	Fe PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Ti PCT	Mn PPM	Cd PPM	Co PPM	Ba PPM	Bi PPM	Ga PPM	La PPM	Li PPM	Nb PPM	Sc PPM	Sn PPM	Sr PPM	Ta PPM	Te PPM	V PPM	W PPM	Y PPM	Zr PPM
656851		<.2	140	104	53	71	144	<2	5	<5	2.45	3.46	1.56	2.79	0.25	0.54	0.12	491	<.2	35	66	<5	<2	5	18	4	8	<20	18	<10	<10	97	<20	9	6
Duplicate		<.2	149	114	52	76	154	<2	6	<5	2.67	3.66	1.65	2.97	0.26	0.58	0.13	533	<.2	30	71	<5	<2	6	19	4	9	<20	20	<10	<10	104	<20	10	6
656898		0.7	35	94	675	60	163	49	15	<5	1.51	>10.00	0.65	3.98	0.07	0.27	0.05	2861	1.2	24	31	<5	<2	130	19	60	<5	<20	31	<10	<10	39	<20	46	169
Duplicate		0.5	31	85	600	55	148	51	14	<5	1.39	>10.00	0.58	3.66	0.06	0.25	0.04	2608	1.2	19	22	<5	<2	115	17	52	<5	<20	29	<10	<10	36	<20	41	151
656922		<.2	3644	35	50	37	229	13	12	<5	0.96	1.98	0.40	0.35	0.09	0.59	0.07	220	<.2	12	80	<5	<2	31	11	1	<5	<20	19	<10	<10	21	<20	7	11
Duplicate		<.2	4128	40	52	41	246	13	13	<5	1.08	2.22	0.44	0.38	0.09	0.63	0.08	251	<.2	10	90	<5	<2	34	12	1	<5	<20	22	<10	<10	23	<20	8	7
656949		<.2	1499	51	21	68	171	3	2	<5	2.27	3.62	2.32	2.64	0.20	0.21	0.07	503	<.2	36	33	<5	<2	3	27	5	11	<20	24	<10	<10	78	<20	6	4
Duplicate		<.2	1537	52	20	70	172	<2	3	<5	2.30	3.61	2.32	2.69	0.20	0.21	0.06	502	<.2	34	34	<5	<2	3	28	5	11	<20	25	<10	<10	78	<20	6	5



Intertek Testing Services
Chimitec Bondar Clegg

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Rapport Lab Geochimie
Geochemical Lab Report

REPORT: T97-57802.1 (COMPLETE)

REFERENCE: -

CLIENT: CYPRUS CANADA INC.
PROJECT: 5007

SUBMITTED BY: D. STEVENSON
DATE RECEIVED: 20-OCT-97 DATE PRINTED: 13-NOV-97

DATE APPROVED	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION	EXTRACTION	METHOD	SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
						DRILL CORE	50	-200	50	AS RECEIVED	50
971107	1 Ag	Silver	50	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	2 As	Arsenic	50	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	3 Cu	Copper	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	4 Zn	Zinc	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	5 Ni	Nickel	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	6 Cr	Chromium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	7 Pb	Lead	50	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	8 Mo	Molybdenum	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	9 Sb	Antimony	50	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	10 Al	Aluminum	50	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	11 Fe	Iron	50	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	12 Mg	Magnesium	50	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	13 Ca	Calcium	50	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	14 Na	Sodium	50	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	15 K	Potassium	50	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	16 Ti	Titanium	50	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	17 Mn	Manganese	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	18 Cd	Cadmium	50	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	19 Co	Cobalt	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	20 Ba	Barium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	21 Bi	Bismuth	50	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	22 Ga	Gallium	50	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	23 La	Lanthanum	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	24 Li	Lithium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	25 Nb	Niobium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	26 Sc	Scandium	50	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	27 Sn	Tin	50	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	28 Sr	Strontium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	29 Ta	Tantalum	50	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	30 Te	Tellurium	50	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	31 V	Vanadium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	32 W	Tungsten	50	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	33 Y	Yttrium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971107	34 Zr	Zirconium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					

REPORT COPIES TO: MR. DAVID B. STEVENSON

INVOICE TO: MR. DAVID B. STEVENSON

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CLIENT: CYPRUS CANADA INC.

PROJECT: 5007

REPORT: T97-57802.1 (COMPLETE)

DATE RECEIVED: 20-OCT-97

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PAGE 1 OF 4

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656865	<.2	14	129	64	45	175	<2	5	<5	2.41	5.34	1.52	4.76	0.33	0.07	0.15	973	0.4	24	4	<5	5	3	5	<1	16	<20	23	<10	<10	148	<20	9	<1	
656866	<.2	52	134	53	42	139	<2	2	<5	2.16	4.69	1.51	3.78	0.25	0.05	0.12	815	<.2	27	3	<5	4	3	6	<1	14	<20	13	<10	<10	130	<20	8	<1	
656867	<.2	55	128	167	33	71	3	<1	<5	1.72	5.24	1.08	7.79	0.16	0.07	0.08	1633	1.1	21	16	<5	3	3	4	<1	9	<20	25	<10	<10	81	<20	7	1	
656868	<.2	83	70	144	69	189	4	5	<5	2.83	5.88	1.04	4.01	0.21	0.83	0.12	984	0.8	20	90	<5	5	8	15	<1	6	<20	26	<10	<10	53	<20	7	4	
656869	<.2	43	83	77	63	167	<2	2	<5	3.09	6.51	1.28	4.73	0.23	0.53	0.13	1560	0.3	23	126	<5	5	5	12	<1	8	<20	26	<10	<10	83	<20	7	2	
656870	<.2	13	41	62	51	185	<2	4	<5	2.60	4.28	1.79	1.82	0.20	0.44	0.13	648	<.2	17	112	<5	7	8	16	<1	8	<20	19	<10	<10	86	<20	8	3	
656871	<.2	15	48	51	65	201	<2	3	<5	2.46	3.65	1.98	1.55	0.19	0.20	0.12	344	<.2	19	42	<5	6	9	10	<1	8	<20	22	<10	<10	79	<20	8	3	
656872	<.2	17	55	47	59	199	<2	5	<5	2.44	3.32	1.58	3.23	0.21	0.28	0.11	564	<.2	17	62	<5	6	9	10	<1	7	<20	26	<10	<10	73	<20	8	2	
656873	<.2	16	63	81	68	226	3	5	<5	4.30	5.16	1.32	3.44	0.36	1.11	0.18	1314	0.3	23	105	<5	8	7	16	<1	11	<20	35	<10	<10	113	<20	8	2	
656874	<.2	27	84	76	57	189	3	4	<5	4.06	4.42	1.16	3.71	0.36	0.70	0.14	1383	0.3	24	88	<5	7	4	13	<1	12	<20	46	<10	<10	138	<20	7	<1	
656875	<.2	142	89	81	84	167	<2	2	<5	3.44	4.97	1.33	3.87	0.28	0.54	0.13	1066	0.6	31	158	<5	6	4	13	<1	11	<20	34	<10	<10	132	<20	8	<1	
656876	<.2	56	90	90	75	178	3	1	<5	5.15	4.78	1.52	4.26	0.40	0.96	0.16	887	0.5	29	184	<5	9	4	16	<1	11	<20	82	<10	<10	140	<20	6	<1	
656877	0.3	243	69	67	64	174	<2	4	<5	3.61	4.45	1.39	4.21	0.30	0.64	0.12	1144	0.7	26	185	<5	7	4	11	<1	10	<20	42	<10	<10	117	<20	7	<1	
656878	<.2	25	86	55	57	161	<2	2	<5	2.23	3.86	1.62	2.19	0.19	0.45	0.12	1010	<.2	26	168	<5	4	5	10	<1	12	<20	12	<10	<10	117	<20	8	<1	
656879	<.2	45	93	62	56	158	<2	2	<5	2.43	4.24	1.45	2.86	0.23	0.19	0.12	1118	<.2	29	36	<5	6	5	10	<1	13	<20	22	<10	<10	115	<20	8	<1	
656880	<.2	36	79	62	45	136	<2	2	<5	2.68	4.25	1.54	3.01	0.28	0.10	0.10	1146	<.2	23	25	<5	4	5	9	<1	11	<20	24	<10	<10	96	<20	7	<1	
656881	<.2	113	95	59	58	141	<2	2	<5	2.73	4.44	1.68	3.11	0.25	0.04	0.09	1128	0.7	28	10	<5	5	5	9	<1	11	<20	25	<10	<10	98	<20	7	<1	
656882	<.2	615	74	53	65	163	<2	2	<5	2.11	3.55	1.48	2.85	0.18	0.15	0.07	842	1.5	30	39	<5	4	6	12	<1	12	<20	16	<10	<10	107	<20	7	<1	
656883	<.2	97	77	61	67	151	<2	1	<5	2.84	4.32	1.66	3.31	0.24	0.15	0.09	908	<.2	30	54	<5	4	5	11	<1	11	<20	41	<10	<10	108	<20	7	<1	
656884	<.2	44	90	53	64	160	<2	2	<5	3.30	4.13	1.60	4.14	0.26	0.35	0.12	999	0.2	28	129	<5	6	4	10	<1	10	<20	42	<10	<10	109	<20	6	<1	
656885	<.2	1210	81	76	71	167	<2	2	<5	3.21	4.87	1.24	4.29	0.27	0.54	0.12	1142	3.7	31	166	<5	6	4	10	<1	12	<20	30	<10	<10	127	<20	8	<1	
656886	<.2	326	73	67	92	185	<2	3	<5	2.06	3.88	1.01	2.70	0.18	0.15	0.10	833	1.0	35	53	<5	5	5	9	<1	13	<20	16	<10	<10	127	<20	10	<1	
656887	<.2	65	89	67	115	250	<2	5	<5	1.91	3.24	1.06	1.61	0.18	0.42	0.13	540	<.2	43	129	<5	5	5	11	<1	13	<20	17	<10	<10	160	<20	11	<1	
656888	<.2	80	75	69	87	179	<2	3	<5	2.28	3.90	1.16	3.49	0.20	0.42	0.14	904	<.2	34	94	<5	5	4	10	<1	12	<20	19	<10	<10	135	<20	9	<1	
656889	<.2	50	102	75	76	154	<2	2	<5	2.97	5.45	1.44	3.75	0.22	0.14	0.11	1282	<.2	29	59	<5	5	5	9	<1	11	<20	30	<10	<10	121	<20	9	<1	
656890	<.2	126	83	71	60	142	<2	1	<5	3.47	5.56	1.50	4.35	0.28	0.24	0.12	1389	<.2	24	160	<5	6	4	9	<1	10	<20	41	<10	<10	108	<20	8	<1	
656891	<.2	96	141	79	75	151	2	<1	<5	3.51	5.10	1.57	3.17	0.23	0.43	0.14	919	<.2	30	141	<5	7	4	13	<1	12	<20	45	<10	<10	133	<20	8	<1	
656892	<.2	43	45	60	59	125	<2	2	<5	2.69	4.68	1.71	3.00	0.18	0.06	0.10	1063	<.2	22	14	<5	7	8	12	<1	9	<20	31	<10	<10	89	<20	8	1	
656893	<.2	23	57	85	64	131	<2	<1	<5	2.91	5.95	1.88	3.39	0.11	0.21	0.13	1569	<.2	22	26	<5	7	5	14	<1	8	<20	25	<10	<10	98	<20	7	1	
656894	<.2	8	59	84	60	132	<2	<1	<5	2.99	5.55	1.82	2.33	0.17	0.06	0.18	1080	<.2	20	15	<5	7	8	11	<1	8	<20	21	<10	<10	94	<20	9	1	



Intertek Testing Services

Chimitec Bondar Clegg

Rapport Lab Geochimie Geochemical Lab Report

CLIENT: CYPRUS CANADA INC.

PROJECT: 5007

REPORT: T97-57802.1 (COMPLETE)

DATE RECEIVED: 20-OCT-97

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SAMPLE NUMBER	ELEMENT UNITS	Ag	As	Cu	Zn	Ni	Cr	Pb	Mo	Sb	Al	Fe	Mg	Ca	Na	K	Ti	Mn	Cd	Co	Ba	Bi	Ga	La	Li	Nb	Sc	Sn	Sr	Ta	Te	V	W	Y	Zr
656902	<.2	<5	73	72	69	138	<2	<1	<5	2.93	5.16	1.75	3.79	0.16	0.17	0.21	962	<.2	22	46	<5	8	7	15	<1	10	<20	32	<10	<10	124	<20	9	2	
656903	<.2	6	45	82	74	159	<2	1	<5	2.80	5.08	2.01	2.29	0.16	0.10	0.16	789	<.2	23	31	<5	7	7	13	<1	9	<20	24	<10	<10	107	<20	8	2	
656904	<.2	11	53	79	72	160	<2	1	<5	3.06	6.67	2.09	3.48	0.10	0.06	0.18	1386	<.2	25	19	<5	6	8	13	<1	9	<20	38	<10	<10	102	<20	8	1	
656915	<.2	38	69	44	46	216	3	3	<5	2.65	5.58	1.58	4.93	0.06	0.08	0.06	845	0.2	23	7	<5	4	2	16	<1	13	<20	45	<10	<10	144	<20	6	<1	
656937	<.2	197	28	24	141	503	<2	<1	<5	1.98	2.24	2.21	2.49	0.16	0.04	0.05	365	0.3	32	6	<5	5	1	7	<1	<5	<20	14	<10	<10	38	<20	3	<1	
656938	<.2	99	27	46	153	819	<2	<1	<5	2.10	2.94	2.81	3.14	0.07	0.14	0.07	645	<.2	32	63	<5	3	1	10	<1	<5	<20	14	<10	<10	54	<20	2	<1	
656939	<.2	46	46	15	48	337	<2	<1	<5	1.62	1.47	1.45	3.66	0.19	0.17	0.08	509	<.2	18	93	<5	3	1	9	<1	<5	<20	19	<10	<10	36	<20	3	<1	
656940	<.2	55	38	19	51	167	<2	<1	<5	2.30	2.01	1.58	3.65	0.23	0.08	0.07	559	<.2	20	90	<5	5	2	11	<1	6	<20	25	<10	<10	48	<20	3	<1	
656941	0.4	13	96	24	30	63	<2	<1	<5	2.74	2.65	1.55	3.18	0.30	0.25	0.10	616	<.2	16	52	<5	6	3	14	<1	7	<20	30	<10	<10	66	<20	5	<1	
656942	<.2	36	33	45	52	86	<2	1	<5	2.25	3.82	1.76	3.01	0.16	0.44	0.11	658	<.2	20	71	<5	5	6	13	<1	8	<20	16	<10	<10	87	<20	6	2	
656943	<.2	42	100	56	65	130	<2	2	<5	2.29	3.70	1.84	2.80	0.14	0.20	0.07	583	<.2	21	48	<5	6	7	11	<1	8	<20	20	<10	<10	79	<20	5	1	
656944	<.2	22	15	23	26	230	<2	10	<5	1.09	2.08	1.16	1.14	0.13	0.17	0.07	282	<.2	15	25	<5	3	5	8	<1	5	<20	7	<10	<10	48	<20	3	<1	
656945	<.2	6	38	15	13	110	<2	3	<5	0.94	1.96	0.96	1.48	0.16	0.23	0.10	272	<.2	10	24	<5	3	5	9	<1	6	<20	7	<10	<10	48	<20	5	4	
656946	<.2	76	168	30	38	113	<2	<1	<5	1.98	3.55	1.93	1.55	0.13	0.66	0.10	463	<.2	27	46	<5	3	2	17	<1	8	<20	8	<10	<10	81	<20	4	<1	
656956	<.2	26	34	164	16	125	34	8	<5	1.02	4.55	1.18	2.77	0.16	0.37	0.05	1341	0.3	11	77	<5	<2	160	33	42	12	<20	111	<10	<10	58	<20	41	211	
656957	<.2	39	40	207	12	195	82	29	<5	1.03	1.95	0.45	2.46	0.23	0.30	0.05	672	0.4	8	62	<5	2	52	22	12	6	<20	90	<10	<10	22	<20	74	117	
656958	<.2	22	65	204	15	120	35	16	<5	1.77	3.24	0.90	5.60	0.19	0.48	0.09	1153	0.7	14	68	<5	6	14	23	1	9	<20	74	<10	<10	46	<20	30	39	
656959	<.2	30	45	161	17	130	36	27	<5	1.39	4.80	1.22	2.89	0.15	0.40	0.06	960	0.4	11	95	<5	3	15	48	4	10	<20	101	<10	<10	44	<20	36	91	
656960	<.2	22	33	76	15	116	17	50	<5	2.35	3.87	1.07	2.72	0.22	0.56	0.10	744	<.2	9	119	<5	7	16	25	<1	6	<20	51	<10	<10	44	<20	22	60	
656961	<.2	50	65	114	22	141	57	12	<5	1.83	4.42	1.05	3.23	0.13	0.52	0.07	1110	0.6	19	66	<5	4	43	44	8	12	<20	44	<10	<10	75	<20	28	78	

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Intertek Testing Services
Chimitec Bondar Clegg

Rapport Lab Geochimie
Geochemical Lab Report

CLIENT: CYPRUS CANADA INC.

PROJECT: 5007

REPORT: T97-57802.1 (COMPLETE)

DATE RECEIVED: 20-OCT-97

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STANDARD NAME	ELEMENT UNITS	Ag	As	Cu	Zn	Ni	Cr	Pb	Mo	Sb	Al	Fe	Mg	Ca	Na	K	Ti	Mn	Cd	Co	Ba	Bi	Ga	La	Li	Nb	Sc	Sn	Sr	Ta	Te	V	W	Y	Zr	
BCC GEOCHEM STD 5		0.6	9	97	75	35	49	9	<1	<5	3.03	4.40	1.78	0.96	0.05	0.31	0.19	719	<.2	14	169	<5	6	7	20	<1	7	<20	38	<10	<10	115	<20	5	9	
Number of Analyses		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		0.6	9	97	75	35	49	9	0.5	3	3.03	4.40	1.78	0.96	0.05	0.31	0.19	719	0.1	14	169	3	6	7	20	0.5	7	10	38	5	5	115	10	5	9	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		0.7	8	90	80	40	54	11	2	1	3.09	4.74	1.83	1.08	0.06	0.32	-	720	0.1	18	200	1	-	5	-	1	18	4	39	1	0.2	133	1	9	9	
ANALYTICAL BLANK		<.2	<5	<1	<1	<1	<1	<2	<1	<5	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.2	<1	<1	<5	<2	<1	<1	<1	<5	<20	<1	<10	<10	<1	<20	<1	<1	
ANALYTICAL BLANK		<.2	<5	<1	<1	<1	<1	<2	<1	<5	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.2	<1	<1	<5	<2	<1	<1	<1	<5	<20	<1	<10	<10	<1	<20	<1	<1	
Number of Analyses		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Mean Value		0.1	3	0.5	0.5	0.5	0.5	1	0.5	3	.005	.005	.005	.005	.005	.005	.005	.005	0.5	0.1	0.5	0.5	3	1	0.5	0.5	0.5	3	10	0.5	5	5	0.5	10	0.5	0.5
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		0.2	5	1	1	1	1	2	1	5	<.01	0.05	<.01	<.01	<.01	<.01	<.01	1	1.0	1	0.01	2	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
BCC GEOCHEM STD 4		1.3	29	269	227	41	110	34	2	<5	0.72	2.53	1.29	1.22	0.05	0.13	<.01	565	1.0	8	49	<5	2	4	4	<1	<5	<20	35	<10	<10	7	<20	2	7	
Number of Analyses		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		1.3	29	269	227	41	110	34	2	3	0.72	2.53	1.29	1.22	0.05	0.13	.005	565	1.0	8	49	3	2	4	4	0.5	3	10	35	5	5	7	10	2	7	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		0.5	30	290	255	42	80	33	4	1	0.77	2.60	1.34	1.43	0.04	0.14	0.01	600	0.8	9	55	1	2	4	7	1	12	1	39	1	0.1	9	1	4	8	



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SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	As PPM	Cu PPM	Zn PPM	Ni PPM	Cr PPM	Pb PPM	Mo PPM	Sb PPM	Al PCT	Fe PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Ti PCT	Mn PPM	Cd PPM	Co PPM	Ba PPM	Bi PPM	Ga PPM	La PPM	Li PPM	Nb PPM	Sc PPM	Sn PPM	Sr PPM	Ta PPM	Te PPM	V PPM	W PPM	Y PPM	Zr PPM
656867	<.2	55	128	167	33	71	3	<1	<5	1.72	5.24	1.08	7.79	0.16	0.07	0.08	1633	1.1	21	16	<5	3	3	4	<1	9	<20	25	<10	<10	81	<20	7	1	
Duplicate	<.2	61	130	169	33	81	3	<1	<5	1.72	5.18	1.06	7.74	0.16	0.07	0.08	1633	0.7	21	16	<5	3	4	4	<1	9	<20	26	<10	<10	81	<20	7	1	
656884	<.2	44	90	53	64	160	<2	2	<5	3.30	4.13	1.60	4.14	0.26	0.35	0.12	999	0.2	28	129	<5	6	4	10	<1	10	<20	42	<10	<10	109	<20	6	<1	
Duplicate	<.2	42	86	51	63	155	<2	2	<5	3.23	4.03	1.57	4.03	0.26	0.33	0.12	980	0.4	27	126	<5	6	4	9	<1	10	<20	41	<10	<10	106	<20	6	<1	
656942	<.2	36	33	45	52	86	<2	1	<5	2.25	3.82	1.76	3.01	0.16	0.44	0.11	658	<.2	20	71	<5	5	6	13	<1	8	<20	16	<10	<10	87	<20	6	2	
Duplicate	<.2	36	34	46	48	88	<2	2	<5	2.30	3.91	1.79	3.08	0.16	0.45	0.11	672	0.3	21	72	<5	5	6	14	<1	9	<20	16	<10	<10	81	<20	6	2	



Intertek Testing Services
Chimitec Bondar Clegg

DEC 02 1997

Rapport Lab Geochimie
Geochemical Lab Report

REPORT: T97-57803.1 (COMPLETE)

REFERENCE: -

CLIENT: CYPRUS CANADA INC.

SUBMITTED BY: D. STEVENSON

PROJECT: 5007

DATE RECEIVED: 20-OCT-97 DATE PRINTED: 4-NOV-97

DATE APPROVED	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION	EXTRACTION	METHOD	SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
971104	1 Ag Silver	53	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA	DRILL CORE	53	-200	53	AS RECEIVED	53
971104	2 As Arsenic	53	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971104	3 Cu Copper	53	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971104	4 Zn Zinc	53	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971104	5 Ni Nickel	53	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971104	6 Cr Chromium	53	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971104	7 Pb Lead	53	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971104	8 Mo Molybdenum	53	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971104	9 Sb Antimony	53	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971104	10 Al Aluminum	53	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971104	11 Fe Iron	53	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971104	12 Mg Magnesium	53	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971104	13 Ca Calcium	53	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971104	14 Na Sodium	53	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971104	15 K Potassium	53	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971104	16 Ti Titanium	53	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971104	17 Mn Manganese	53	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971104	18 Cd Cadmium	53	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971104	19 Co Cobalt	53	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971104	20 Ba Barium	53	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971104	21 Bi Bismuth	53	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971104	22 Ga Gallium	53	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971104	23 La Lanthanum	53	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971104	24 Li Lithium	53	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971104	25 Nb Niobium	53	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971104	26 Sc Scandium	53	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971104	27 Sn Tin	53	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971104	28 Sr Strontium	53	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971104	29 Ta Tantalum	53	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971104	30 Te Tellurium	53	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971104	31 V Vanadium	53	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971104	32 W Tungsten	53	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971104	33 Y Yttrium	53	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971104	34 Zr Zirconium	53	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						

REPORT COPIES TO: MR. DAVID B. STEVENSON INVOICE TO: MR. DAVID B. STEVENSON

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PAGE 1 OF 4

SAMPLE NUMBER	ELEMENT UNITS	Ag	As	Cu	Zn	Ni	Cr	Pb	Mo	Sb	Al	Fe	Mg	Ca	Na	K	Ti	Mn	Cd	Co	Ba	Bi	Ga	La	Li	Nb	Sc	Sn	Sr	Ta	Te	V	W	Y	Zr
		PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
656963	<.2	38	63	119	43	209	72	13	<5	2.66	4.37	1.45	3.10	0.25	0.69	0.13	713	<.2	19	107	<5	<2	29	35	11	13	<20	25	<10	<10	85	<20	38	141	
656964	<.2	23	68	34	45	159	3	9	<5	1.38	2.65	1.11	2.14	0.23	0.17	0.10	438	<.2	18	18	<5	<2	8	11	5	10	<20	18	<10	<10	71	<20	12	7	
656965	<.2	30	97	65	54	194	10	23	<5	1.75	3.62	1.36	3.46	0.24	0.30	0.10	757	<.2	22	65	<5	<2	10	34	5	13	<20	33	<10	<10	85	<20	16	25	
656966	<.2	8	38	39	41	252	<2	13	<5	2.26	3.09	1.35	1.38	0.22	0.39	0.12	361	<.2	13	265	<5	<2	11	12	7	8	<20	28	<10	<10	65	<20	10	6	
656967	<.2	14	52	126	54	159	<2	12	<5	2.69	4.33	1.44	3.41	0.22	0.57	0.14	700	<.2	22	185	<5	<2	10	29	8	13	<20	32	<10	<10	97	<20	13	8	
656968	<.2	63	48	59	87	158	<2	6	<5	2.37	3.88	1.73	2.32	0.20	0.38	0.11	550	<.2	25	61	<5	<2	12	16	8	11	<20	18	<10	<10	83	<20	12	9	
656969	0.2	51	62	63	70	151	9	7	<5	1.51	2.69	1.15	1.59	0.21	0.13	0.09	374	<.2	22	30	<5	<2	12	10	5	8	<20	14	<10	<10	61	<20	12	13	
656982	<.2	36	61	47	13	145	<2	9	<5	1.49	3.48	0.62	3.00	0.19	0.20	0.11	573	<.2	18	33	<5	<2	13	10	5	11	<20	13	<10	<10	125	<20	13	5	
656983	<.2	66	52	40	16	120	<2	8	<5	1.48	3.37	0.80	3.67	0.20	0.21	0.11	655	<.2	19	63	<5	<2	11	10	5	11	<20	20	<10	<10	110	<20	13	4	
656984	0.4	79	86	40	35	107	<2	5	<5	1.73	3.85	1.15	4.94	0.23	0.05	0.12	835	<.2	27	7	<5	<2	4	8	7	15	<20	20	<10	<10	114	<20	11	<1	
656985	0.2	260	62	45	45	116	<2	4	<5	2.11	4.17	1.50	3.59	0.27	0.13	0.11	620	<.2	36	31	<5	<2	4	10	8	18	<20	13	<10	<10	139	<20	12	1	
656986	0.3	168	162	49	40	130	<2	6	<5	1.84	3.88	1.14	5.71	0.23	0.05	0.11	695	<.2	29	9	<5	<2	4	9	7	15	<20	19	<10	<10	125	<20	11	<1	
656987	0.2	28	100	41	36	97	<2	3	<5	2.00	3.98	1.33	4.43	0.26	0.08	0.15	649	<.2	26	22	<5	<2	4	9	8	17	<20	18	<10	<10	133	<20	11	<1	
656988	0.3	37	71	46	41	118	<2	4	<5	2.07	4.34	1.34	5.71	0.25	0.16	0.15	872	<.2	29	68	<5	<2	4	11	6	17	<20	24	<10	<10	136	<20	12	<1	
656989	<.2	112	69	59	70	156	<2	6	<5	3.07	4.97	1.48	3.27	0.29	0.17	0.13	1086	<.2	31	44	<5	<2	6	13	7	15	<20	30	<10	<10	122	<20	12	<1	
656990	0.3	186	63	55	76	160	<2	6	<5	3.03	4.68	1.37	3.50	0.32	0.17	0.13	1049	<.2	34	40	<5	<2	6	13	8	16	<20	38	<10	<10	133	<20	13	<1	
656991	0.3	932	33	56	71	154	<2	6	<5	3.02	4.57	1.60	4.32	0.26	0.40	0.12	1020	<.2	33	261	<5	<2	6	17	9	14	<20	29	<10	<10	115	<20	14	<1	
656992	<.2	5497	54	33	53	264	<2	10	<5	1.50	3.00	1.02	2.60	0.14	0.33	0.08	593	<.2	31	196	<5	<2	4	12	5	11	<20	14	<10	<10	88	<20	9	1	
656993	<.2	85	66	56	56	165	<2	6	<5	2.32	4.05	1.52	2.64	0.20	0.25	0.12	1008	<.2	33	92	<5	<2	6	15	6	16	<20	13	<10	<10	114	<20	11	<1	
656994	0.2	4158	80	38	85	256	<2	12	<5	1.68	3.46	1.02	2.86	0.15	0.08	0.05	753	<.2	45	20	<5	<2	6	10	5	11	<20	19	<10	<10	71	<20	11	1	
656995	<.2	74	69	46	70	186	<2	6	<5	2.52	3.93	1.37	3.58	0.23	0.41	0.14	1019	<.2	32	216	<5	<2	5	16	8	18	<20	27	<10	<10	136	<20	10	<1	
656996	<.2	47	127	57	90	185	<2	6	<5	2.31	4.72	1.18	3.73	0.20	0.21	0.15	905	<.2	38	104	<5	<2	6	12	5	15	<20	23	<10	<10	117	<20	16	<1	
656997	0.2	44	71	66	81	161	<2	6	<5	2.67	5.04	1.26	4.00	0.21	0.31	0.15	1012	<.2	34	103	<5	<2	5	15	9	17	<20	21	<10	<10	140	<20	15	<1	
656998	0.3	21	22	64	67	158	<2	6	<5	2.87	5.83	2.08	5.75	0.16	0.07	0.08	1692	<.2	25	16	<5	<2	9	18	9	14	<20	44	<10	<10	98	<20	12	1	
656999	<.2	25	31	50	55	184	<2	8	<5	2.60	3.83	1.33	3.46	0.21	0.13	0.12	755	<.2	21	69	<5	<2	8	9	8	11	<20	33	<10	<10	91	<20	12	1	
657000	<.2	20	54	52	66	205	<2	7	<5	2.53	4.10	1.43	2.12	0.21	0.13	0.13	574	<.2	25	51	<5	<2	8	12	8	11	<20	26	<10	<10	93	<20	12	2	
657001	<.2	11	42	80	81	245	<2	10	<5	3.59	4.95	1.84	0.30	0.13	2.01	0.23	593	<.2	23	342	<5	<2	28	45	10	13	<20	20	<10	<10	105	<20	7	29	
657002	<.2	13	36	71	88	350	<2	13	<5	3.18	4.45	2.00	0.39	0.13	1.87	0.23	568	<.2	22	650	<5	<2	24	41	8	15	<20	20	<10	<10	109	<20	7	30	
657003	<.2	12	40	84	94	274	<2	12	<5	3.90	4.98	2.25	0.50	0.17	2.24	0.25	611	<.2	25	478	<5	<2	23	47	9	15	<20	32	<10	<10	115	<20	8	32	
657004	<.2	14	38	90	92	277	<2	10	<5	3.36	4.67	2.12	0.62	0.12	1.98	0.22	670	<.2	23	582	<5	<2	26	45	10	14	<20	24	<10	<10	105	<20	6	34	

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Intertek Testing Services
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Rapport Lab Geochimie
Geochemical Lab Report

CLIENT: CYPRUS CANADA INC.

PROJECT: 5007

REPORT: T97-57803.1 (COMPLETE)

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SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	As PPM	Cu PPM	Zn PPM	Ni PPM	Cr PPM	Pb PPM	Mo PPM	Sb PPM	Al PCT	Fe PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Ti PCT	Mn PPM	Cd PPM	Co PPM	Ba PPM	Bi PPM	Ga PPM	La PPM	Li PPM	Nb PPM	Sc PPM	Sn PPM	Sr PPM	Ta PPM	Te PPM	V PPM	W PPM	Y PPM	Zr PPM
657005		<.2	13	41	86	91	335	<2	10	<5	3.59	4.83	2.19	0.37	0.12	1.77	0.20	628	<.2	24	446	<5	<2	23	44	9	13	<20	20	<10	<10	106	<20	6	34
657006		<.2	12	27	59	64	386	<2	17	<5	2.76	3.82	1.37	0.82	0.19	1.36	0.18	529	<.2	19	421	<5	<2	21	28	8	11	<20	52	<10	<10	87	<20	8	25
657007		<.2	476	13	44	36	355	4	19	<5	1.24	2.28	0.51	1.16	0.07	0.74	0.10	605	<.2	11	110	<5	<2	22	15	3	<5	<20	29	<10	<10	32	<20	7	21
657008		<.2	212	27	52	36	284	3	13	<5	1.63	2.95	0.66	0.56	0.10	1.00	0.14	408	<.2	14	165	<5	<2	36	18	4	<5	<20	28	<10	<10	38	<20	8	41
657009		<.2	10	12	36	33	242	13	14	<5	1.38	2.18	0.52	0.83	0.09	0.75	0.09	373	<.2	11	136	<5	<2	33	14	4	<5	<20	49	<10	<10	25	<20	7	37
657010		<.2	9	11	47	39	243	5	14	<5	1.74	2.69	0.59	0.57	0.10	1.06	0.15	425	<.2	13	160	<5	<2	32	20	5	<5	<20	27	<10	<10	36	<20	8	31
657011		<.2	9	19	51	42	228	5	12	<5	1.76	2.99	0.64	0.59	0.09	1.02	0.14	448	<.2	16	147	<5	<2	33	20	4	<5	<20	25	<10	<10	38	<20	8	23
657012		<.2	8	18	41	38	205	3	10	<5	1.76	3.05	0.65	0.91	0.09	1.01	0.12	537	<.2	14	154	<5	<2	27	19	3	<5	<20	28	<10	<10	34	<20	7	19
657013		<.2	10	25	58	51	262	3	13	<5	2.06	3.07	0.98	1.02	0.12	1.08	0.15	556	<.2	16	215	<5	<2	27	25	7	6	<20	29	<10	<10	54	<20	8	21
657014		<.2	20	39	79	89	318	<2	10	<5	3.57	4.93	2.09	0.40	0.11	2.26	0.27	621	<.2	22	611	<5	<2	24	49	9	16	<20	20	<10	<10	120	<20	7	32
657015		<.2	12	41	75	80	332	<2	11	<5	3.13	4.40	1.92	0.33	0.14	1.93	0.23	549	<.2	21	487	<5	<2	25	44	8	14	<20	20	<10	<10	106	<20	8	29
657016		<.2	13	31	69	80	335	<2	11	<5	2.85	4.12	1.91	0.37	0.14	1.77	0.21	510	<.2	20	504	<5	<2	25	41	8	13	<20	21	<10	<10	102	<20	9	25
657017		<.2	13	35	77	81	328	3	9	<5	2.92	4.32	1.87	0.75	0.16	1.68	0.21	614	<.2	22	517	<5	<2	26	41	9	13	<20	33	<10	<10	96	<20	9	31
657018		<.2	60	34	60	142	461	<2	10	<5	3.08	3.97	2.67	0.75	0.16	1.72	0.21	465	<.2	26	579	<5	<2	24	42	10	10	<20	33	<10	<10	92	<20	8	29
657019		<.2	30	39	56	121	478	<2	15	<5	2.69	3.96	2.32	0.62	0.13	1.55	0.19	417	<.2	23	488	<5	<2	22	40	8	11	<20	27	<10	<10	91	<20	7	28
657020		<.2	63	36	76	72	239	2	8	<5	1.97	4.30	1.76	1.90	0.10	1.07	0.13	741	<.2	19	306	<5	<2	22	32	5	10	<20	65	<10	<10	68	<20	9	37
657021		<.2	10	28	65	59	280	2	11	<5	2.30	3.79	1.53	1.64	0.12	1.47	0.20	606	<.2	18	420	<5	<2	29	33	9	10	<20	31	<10	<10	80	<20	8	26
657022		<.2	28	33	71	78	230	<2	8	<5	3.32	4.53	1.84	0.85	0.13	2.16	0.27	635	<.2	21	504	<5	<2	27	38	10	13	<20	25	<10	<10	102	<20	9	37
657023		<.2	50	15	47	40	252	3	11	<5	1.64	2.50	0.85	0.73	0.09	0.89	0.12	366	<.2	13	174	<5	<2	30	22	3	<5	<20	30	<10	<10	39	<20	6	30
657024		<.2	335	24	54	44	260	4	13	<5	1.53	2.83	0.64	0.37	0.09	1.00	0.16	412	<.2	15	159	<5	<2	39	17	5	<5	<20	21	<10	<10	41	<20	8	30
657025		<.2	95	17	44	44	276	3	16	<5	1.45	2.56	0.57	0.33	0.08	0.91	0.14	417	<.2	14	125	<5	<2	31	16	4	<5	<20	17	<10	<10	36	<20	8	29
657026		<.2	966	17	46	41	252	2	13	<5	1.77	2.63	0.61	0.52	0.13	0.95	0.14	440	<.2	13	110	<5	<2	26	15	4	<5	<20	33	<10	<10	35	<20	7	25
657027		<.2	139	13	46	41	291	2	17	<5	1.44	2.43	0.52	0.47	0.11	0.91	0.14	443	<.2	12	105	<5	<2	25	14	5	<5	<20	21	<10	<10	36	<20	7	26



Intertek Testing Services
Chimitec Bondar Clegg

Rapport Lab Geochimie
Geochemical Lab Report

CLIENT: CYPRUS CANADA INC.

PROJECT: 5007

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STANDARD NAME	ELEMENT UNITS	Ag PPM	As PPM	Cu PPM	Zn PPM	Ni PPM	Cr PPM	Pb PPM	Mo PPM	Sb PPM	Al PCT	Fe PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Ti PCT	Mn PPM	Cd PPM	Co PPM	Ba PPM	Bi PPM	Ga PPM	La PPM	Li PPM	Nb PPM	Sc PPM	Sn PPM	Sr PPM	Ta PPM	Te PPM	V PPM	W PPM	Y PPM	Zr PPM		
BCC GEOCHEM STD 4		1.3	27	320	235	45	69	28	4	<5	0.77	2.49	1.12	1.34	0.05	0.13	<.01	538	1.1	9	57	<5	<2	4	6	3	<5	<20	34	<10	<10	7	<20	3	10		
Number of Analyses		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Mean Value		1.3	27	320	235	45	69	28	4	3	0.77	2.49	1.12	1.34	0.05	0.13	.005	538	1.1	9	57	3	1	4	6	3	3	10	34	5	5	7	10	3	10		
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Accepted Value		0.5	30	290	255	42	80	33	4	1	0.77	2.60	1.34	1.43	0.04	0.14	0.01	600	0.8	9	55	1	2	4	7	1	12	1	39	1	0.1	9	1	4	8		
ANALYTICAL BLANK		<.2	<5	<1	<1	<1	<1	<2	<1	<5	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<1	<.2	<1	<1	<5	<2	<1	<1	<1	<5	<20	1	<10	<10	<1	<20	<1	<1		
ANALYTICAL BLANK		<.2	<5	<1	<1	1	1	<2	<1	<5	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<1	<.2	<1	<1	<5	<2	<1	<1	<1	<5	<20	<1	<10	<10	<1	<20	<1	<1		
Number of Analyses		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
Mean Value		0.1	3	0.5	0.5	0.8	0.9	1	0.5	3	.005	.005	.005	.005	.005	.005	.005	0.5	0.1	0.5	0.5	3	1	0.5	0.5	0.5	3	10	0.8	5	5	0.5	10	0.5	0.5		
Standard Deviation		-	-	-	-	0.4	0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.4	-	-	-	-	-	-			
Accepted Value		0.2	5	1	1	1	1	2	1	5	<.01	0.05	<.01	<.01	<.01	<.01	<.01	1	1.0	1	.01	2	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01		
BCC GEOCHEM STD 6		0.4	144	130	130	142	185	14	4	<5	1.97	7.09	2.68	3.86	0.01	0.04	<.01	1451	<.2	34	5	<5	<2	3	20	5	9	<20	78	<10	<10	47	<20	3	5		
Number of Analyses		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Mean Value		0.4	144	130	130	142	185	14	4	3	1.97	7.09	2.68	3.86	0.01	0.04	.005	1451	0.1	34	5	3	1	3	20	5	9	10	78	5	5	47	10	3	5		
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Accepted Value		0.2	-	140	140	135	170	18	4	-	1.80	6.50	2.70	4.00	0.01	0.04	.003	1450	0.2	35	6	1	-	-	24	-	6	5	70	1	-	50	12	3	5		



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SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	As PPM	Cu PPM	Zn PPM	Ni PPM	Cr PPM	Pb PPM	Mo PPM	Sb PPM	Al PCT	Fe PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Ti PCT	Mn PPM	Cd PPM	Co PPM	Ba PPM	Bi PPM	Ga PPM	La PPM	Li PPM	Nb PPM	Sc PPM	Sn PPM	Sr PPM	Ta PPM	Te PPM	V PPM	W PPM	Y PPM	Zr PPM
656966	<.2	8	38	39	41	252	<2	13	<5	2.26	3.09	1.35	1.38	0.22	0.39	0.12	361	<.2	13	265	<5	<2	11	12	7	8	<20	28	<10	<10	65	<20	10	6	
Duplicate	<.2	8	36	41	43	262	<2	13	<5	2.33	3.19	1.41	1.43	0.22	0.41	0.12	370	<.2	13	282	<5	<2	12	12	7	8	<20	29	<10	<10	67	<20	10	6	
656995	<.2	74	69	46	70	186	<2	6	<5	2.52	3.93	1.37	3.58	0.23	0.41	0.14	1019	<.2	32	216	<5	<2	5	16	8	18	<20	27	<10	<10	136	<20	10	<1	
Duplicate	<.2	71	73	47	71	188	<2	6	<5	2.55	3.99	1.40	3.61	0.23	0.42	0.13	1009	<.2	34	224	<5	<2	5	16	7	18	<20	29	<10	<10	138	<20	10	<1	
657015	<.2	12	41	75	80	332	<2	11	<5	3.13	4.40	1.92	0.33	0.14	1.93	0.23	549	<.2	21	487	<5	<2	25	44	8	14	<20	20	<10	<10	106	<20	8	29	
Duplicate	<.2	13	42	76	84	345	<2	11	<5	3.22	4.53	1.97	0.35	0.14	2.02	0.24	565	<.2	22	503	<5	<2	26	45	8	15	<20	22	<10	<10	110	<20	8	30	



Intertek Testing Services
Chimitec Bondar Clegg

REC 02 1997

Rapport Lab Geochimie
Geochemical Lab Report

REPORT: C97-63652.1 (COMPLETE)

REFERENCE: -

CLIENT: CYPRUS CANADA INC.

SUBMITTED BY: ANDREW TIMS

PROJECT: 5007

DATE RECEIVED: 27-OCT-97 DATE PRINTED: 7-NOV-97

DATE APPROVED	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION	EXTRACTION	METHOD	SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
971107	1 Ag Silver	43	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA	DRILL CORE	43	-200	43	AS RECEIVED	43
971107	2 As Arsenic	43	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971107	3 Cu Copper	43	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971107	4 Zn Zinc	43	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971107	5 Ni Nickel	43	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971107	6 Cr Chromium	43	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971107	7 Pb Lead	43	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971107	8 Mo Molybdenum	43	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971107	9 Sb Antimony	43	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971107	10 Al Aluminum	43	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971107	11 Fe Iron	43	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971107	12 Mg Magnesium	43	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971107	13 Ca Calcium	43	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971107	14 Na Sodium	43	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971107	15 K Potassium	43	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971107	16 Ti Titanium	43	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971107	17 Mn Manganese	43	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971107	18 Cd Cadmium	43	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971107	19 Co Cobalt	43	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971107	20 Ba Barium	43	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971107	21 Bi Bismuth	43	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971107	22 Ga Gallium	43	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971107	23 La Lanthanum	43	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971107	24 Li Lithium	43	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971107	25 Nb Niobium	43	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971107	26 Sc Scandium	43	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971107	27 Sn Tin	43	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971107	28 Sr Strontium	43	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971107	29 Ta Tantalum	43	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971107	30 Te Tellurium	43	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971107	31 V Vanadium	43	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971107	32 W Tungsten	43	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971107	33 Y Yttrium	43	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971107	34 Zr Zirconium	43	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						

REPORT COPIES TO: MR ANDREW TIMS

INVOICE TO: MR ANDREW TIMS

This report must not be reproduced except in full. The data presented in this report is specific to those samples identified under "Sample Number" and is applicable only to the samples as received expressed on a dry basis unless otherwise indicated

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Intertek Testing Services

Chimitec Bondar Clegg

Rapport Lab Geochimie

Geochemical Lab Report

CLIENT: CYPRUS CANADA INC.

PROJECT: 5007

REPORT: C97-63652.1 (COMPLETE)

DATE RECEIVED: 27-OCT-97

DATE PRINTED: 7-NOV-97

PAGE 1 OF 4

SAMPLE NUMBER	ELEMENT UNITS	Ag	As	Cu	Zn	Ni	Cr	Pb	Mo	Sb	Al	Fe	Mg	Ca	Na	K	Ti	Mn	Cd	Co	Ba	Bi	Ga	La	Li	Nb	Sc	Sn	Sr	Ta	Te	V	W	Y	Zr
		PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
657028	<.2	49	45	63	58	364	5	19	<5	1.79	3.69	0.70	1.17	0.11	1.11	0.19	445	<0.2	23	117	<5	<2	37	18	1	<5	<20	65	<10	<10	49	21	10	34	
657029	<.2	193	36	56	37	414	6	18	<5	1.65	3.38	0.69	0.56	0.13	1.02	0.18	460	0.4	17	121	<5	<2	31	17	1	<5	<20	32	<10	<10	45	<20	8	26	
657030	<.2	5016	31	49	40	309	8	17	5	1.38	2.72	0.50	0.47	0.12	0.81	0.10	309	14.7	16	145	<5	<2	29	12	<1	<5	<20	29	<10	<10	31	<20	7	29	
657031	<.2	93	36	55	38	242	8	11	<5	1.54	2.45	0.58	0.38	0.12	0.99	0.14	307	<0.2	17	154	<5	<2	35	15	<1	<5	<20	27	<10	<10	33	<20	8	28	
657032	<.2	61	30	48	39	407	9	23	<5	1.13	2.31	0.50	0.38	0.08	0.70	0.10	274	<0.2	14	103	<5	<2	24	12	<1	<5	<20	22	<10	<10	29	<20	6	21	
657033	<.2	59	31	51	31	306	8	14	<5	1.22	2.36	0.50	0.53	0.08	0.77	0.11	279	<0.2	14	122	<5	<2	27	13	<1	<5	<20	24	<10	<10	26	<20	6	24	
657034	<.2	71	34	52	39	398	10	23	<5	1.19	2.44	0.49	0.36	0.09	0.76	0.11	249	<0.2	15	117	<5	<2	29	13	<1	<5	<20	24	<10	<10	28	<20	6	23	
657035	<.2	40	41	66	42	257	8	11	<5	1.78	3.20	0.82	0.32	0.11	1.20	0.20	385	<0.2	20	148	<5	<2	37	20	1	<5	<20	23	<10	<10	46	<20	9	35	
657036	<.2	28	36	50	35	331	7	19	<5	1.24	2.30	0.49	0.72	0.13	0.74	0.12	319	<0.2	14	129	<5	<2	29	13	<1	<5	<20	34	<10	<10	33	<20	7	20	
657037	<.2	276	45	61	37	314	7	13	<5	1.56	3.03	0.73	0.47	0.14	0.96	0.17	375	0.6	17	134	<5	<2	34	17	<1	<5	<20	30	<10	<10	44	<20	8	27	
657038	<.2	1608	48	73	54	305	12	17	<5	1.77	3.70	0.86	0.43	0.09	1.17	0.18	429	4.5	21	135	<5	<2	33	19	1	<5	<20	26	<10	<10	45	<20	9	34	
657039	1.7	37	37	47	30	336	6	15	<5	1.36	2.72	0.53	0.86	0.10	0.82	0.11	354	<0.2	14	103	<5	<2	29	13	<1	<5	<20	32	<10	<10	27	<20	7	20	
657040	<.2	1756	41	50	44	353	9	20	<5	1.30	2.79	0.69	0.70	0.10	0.81	0.13	372	5.0	17	101	<5	<2	34	14	1	<5	<20	29	<10	<10	43	<20	8	29	
657041	<.2	61	40	64	44	279	8	11	<5	1.99	3.23	1.17	0.38	0.12	1.31	0.20	398	<0.2	19	162	<5	<2	33	22	1	6	<20	30	<10	<10	52	<20	8	35	
657042	<.2	129	40	77	52	327	7	16	<5	2.04	3.47	1.18	0.50	0.15	1.27	0.21	409	0.3	21	240	<5	<2	36	23	2	7	<20	35	<10	<10	64	<20	9	40	
657043	<.2	208	125	81	62	172	<2	5	<5	2.62	6.07	2.04	6.13	0.22	1.03	0.19	1199	0.4	39	113	<5	<2	7	23	7	17	<20	45	<10	<10	150	<20	12	5	
657044	<.2	109	82	154	50	126	<2	4	<5	2.66	6.50	1.75	5.78	0.30	0.16	0.13	1719	0.4	39	47	<5	<2	3	19	7	21	<20	24	<10	<10	165	<20	14	<1	
657045	<.2	73	125	112	46	131	<2	4	<5	2.54	6.12	1.77	5.23	0.30	0.16	0.14	1288	<0.2	37	40	<5	<2	3	13	7	20	<20	20	<10	<10	155	<20	13	<1	
657046	<.2	441	108	56	301	659	9	3	<5	1.92	4.42	3.28	3.40	0.05	0.16	0.03	744	1.0	57	51	<5	3	85	46	6	6	<20	18	<10	<10	57	<20	21	77	
657047	<.2	54	31	17	56	291	<2	1	<5	2.63	2.98	2.09	4.18	0.31	0.07	0.08	448	<0.2	21	32	<5	<2	2	16	3	10	<20	33	<10	<10	55	<20	6	1	
657048	<.2	44	29	20	57	265	<2	3	<5	3.08	3.40	2.31	3.81	0.32	0.07	0.09	608	<0.2	23	41	<5	<2	2	20	4	10	<20	32	<10	<10	61	<20	7	<1	
657049	<.2	21	77	22	35	100	<2	3	<5	3.57	3.39	1.88	3.84	0.42	0.35	0.12	541	<0.2	22	126	<5	<2	2	22	4	11	<20	43	<10	<10	73	<20	8	<1	
657050	<.2	16	82	28	38	94	<2	5	<5	2.86	3.68	1.95	3.74	0.32	0.64	0.16	485	<0.2	25	111	<5	<2	2	29	4	12	<20	28	<10	<10	94	<20	9	2	
657051	<.2	11	95	21	27	63	<2	3	<5	2.68	2.84	1.39	4.51	0.29	0.20	0.10	650	<0.2	18	42	<5	<2	2	17	4	9	<20	35	<10	<10	67	<20	8	<1	
657052	<.2	5	102	24	27	91	<2	5	<5	2.99	3.81	1.71	4.45	0.36	0.13	0.13	737	<0.2	19	33	<5	<2	3	17	5	13	<20	36	<10	<10	86	20	10	<1	
657053	<.2	7	74	24	27	73	<2	4	<5	2.37	3.68	1.89	3.34	0.29	0.28	0.14	498	<0.2	20	65	<5	<2	3	16	4	12	<20	22	<10	<10	89	<20	10	2	
657054	<.2	11	77	29	28	53	<2	3	<5	2.56	5.04	2.00	3.65	0.27	0.44	0.16	640	<0.2	25	84	<5	<2	4	23	7	16	<20	22	<10	<10	160	<20	15	3	
657055	<.2	<5	15	25	38	306	<2	14	<5	1.40	3.27	1.45	1.40	0.20	0.22	0.11	315	<0.2	16	31	<5	<2	4	12	3	9	<20	5	<10	<10	77	<20	6	2	
657056	<.2	12	61	34	41	171	<2	5	<5	1.88	4.55	2.30	3.04	0.20	0.45	0.12	653	<0.2	25	68	<5	<2	2	29	5	15	<20	19	<10	<10	105	<20	10	4	
657057	<.2	<5	116	27	41	106	<2	3	<5	1.93	3.26	1.71	1.97	0.21	0.38	0.15	419	<0.2	23	73	<5	<2	2	14	4	10	<20	13	<10	<10	85	<20	6	<1	



CLIENT: CYPRUS CANADA INC.

PROJECT: 5007

REPORT: C97-63652.1 (COMPLETE)

DATE RECEIVED: 27-OCT-97

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SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	As PPM	Cu PPM	Zn PPM	Ni PPM	Cr PPM	Pb PPM	Mo PPM	Sb PPM	Al PCT	Fe PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Ti PCT	Mn PPM	Cd PPM	Co PPM	Ba PPM	Bi PPM	Ga PPM	La PPM	Li PPM	Nb PPM	Sc PPM	Sn PPM	Sr PPM	Ta PPM	Te PPM	V PPM	W PPM	Y PPM	Zr PPM
657058		<.2	1696	62	26	28	223	12	14	<5	0.76	1.30	0.30	0.94	0.06	0.28	0.02	156	4.6	9	66	<5	<2	22	5	<1	<5	<20	24	<10	<10	11	<20	6	23
657059		<.2	190	51	40	28	174	7	8	<5	1.10	1.56	0.49	2.54	0.08	0.34	0.02	338	0.5	9	74	<5	<2	20	7	<1	<5	<20	53	<10	<10	15	<20	8	22
657060		<.2	2760	31	34	34	259	14	14	<5	1.04	2.13	0.62	0.94	0.08	0.34	0.06	234	7.5	13	70	<5	<2	20	10	<1	<5	<20	30	<10	<10	25	<20	6	24
657061		<.2	5717	39	31	38	273	9	15	<5	1.05	2.32	0.58	0.88	0.09	0.42	0.07	219	16.0	14	82	<5	<2	25	9	<1	<5	<20	31	<10	<10	29	<20	6	22
657062		<.2	7568	39	32	45	223	8	12	<5	1.24	2.78	0.73	0.92	0.08	0.62	0.09	265	21.2	18	110	<5	<2	35	12	<1	<5	<20	30	<10	<10	36	<20	8	30
657063		<.2	923	41	41	43	219	7	12	<5	1.55	2.67	0.91	0.75	0.09	0.78	0.11	316	2.4	16	129	<5	<2	26	14	<1	<5	<20	31	<10	<10	39	<20	7	30
657064		<.2	37	28	52	36	243	13	12	<5	1.44	2.30	0.86	0.45	0.09	0.82	0.12	269	<0.2	14	123	<5	<2	24	14	1	<5	<20	24	<10	<10	36	<20	6	27
657065		<.2	21	40	61	34	227	9	9	<5	1.50	2.36	0.84	0.46	0.13	0.85	0.14	279	<0.2	16	124	<5	<2	31	16	<1	<5	<20	28	<10	<10	43	<20	8	28
657066		<.2	41	186	50	38	202	6	7	<5	2.88	4.13	1.74	2.97	0.24	0.96	0.20	456	<0.2	25	492	<5	<2	9	19	5	12	<20	42	<10	<10	117	<20	9	7
657067		<.2	55	28	13	48	143	<2	2	<5	3.93	1.79	1.67	5.07	0.53	0.25	0.11	473	<0.2	21	452	<5	<2	2	13	4	7	<20	80	<10	<10	35	<20	8	1
657068		<.2	29	20	13	37	156	<2	1	<5	2.90	1.82	1.56	4.74	0.44	0.17	0.11	486	<0.2	17	700	<5	<2	1	9	2	8	<20	47	<10	<10	44	<20	6	<1
657069		<.2	30	9	10	34	195	<2	2	<5	2.18	1.57	1.46	4.05	0.34	0.08	0.15	368	<0.2	17	201	<5	<2	1	7	2	7	<20	34	<10	<10	44	<20	7	<1
657070		<.2	89	60	28	140	620	<2	1	<5	3.29	3.84	4.45	4.45	0.10	0.04	0.08	719	<0.2	36	34	<5	<2	1	17	5	12	<20	19	<10	<10	65	<20	5	<1

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CLIENT: CYPRUS CANADA INC.
REPORT: C97-63652.1 (COMPLETE)

DATE RECEIVED: 27-OCT-97 DATE PRINTED: 7-NOV-97 PAGE 3 OF 4

PROJECT: 5007

STANDARD NAME	ELEMENT UNITS	Ag	As	Cu	Zn	Ni	Cr	Pb	Mo	Sb	Al	Fe	Mg	Ca	Na	K	Ti	Mn	Cd	Co	Ba	Bi	Ga	La	Li	Nb	Sc	Sn	Sr	Ta	Te	V	W	Y	Zr	
BCC GEOCHEM STD 5		0.4	10	97	72	35	52	6	2	<5	3.19	4.89	1.79	1.16	0.06	0.33	0.23	704	<0.2	21	216	<5	<2	8	25	5	11	<20	42	<10	<10	136	<20	9	12	
Number of Analyses		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		0.4	10	97	72	35	52	6	2	3	3.19	4.89	1.79	1.16	0.06	0.33	0.23	704	0.1	21	216	3	1	8	25	5	11	10	42	5	5	136	10	9	12	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		0.7	8	90	80	40	54	11	2	1	3.09	4.74	1.83	1.08	0.06	0.32	-	720	0.1	18	200	1	-	5	-	1	18	4	39	1	0.2	133	1	9	9	
ANALYTICAL BLANK		<.2	<5	<1	<1	<1	<1	<2	<1	<5	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<1	<0.2	<1	<1	<5	<2	<1	<1	<1	<5	<20	<1	<10	<10	<1	<20	<1	<1	
ANALYTICAL BLANK		<.2	<5	<1	<1	<1	<1	<2	<1	<5	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<1	<0.2	<1	<1	<5	<2	<1	<1	<1	<5	<20	<1	<10	<10	<1	<20	<1	<1	
Number of Analyses		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Mean Value		0.1	3	0.5	0.5	0.5	0.5	1	0.5	3	.005	.005	.005	.005	.005	.005	.005	0.5	0.1	0.5	0.5	3	1	0.5	0.5	0.5	3	10	0.5	5	5	0.5	10	0.5	0.5	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		0.2	5	1	1	1	1	2	1	5	<.01	0.05	<.01	<.01	<.01	<.01	<.01	1	1.0	1	.01	2	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	
BCC GEOCHEM STD 4		1.5	29	289	233	41	112	30	4	<5	0.83	2.73	1.22	1.43	0.06	0.16	<.01	551	0.9	9	71	<5	<2	4	5	<1	<5	<20	38	<10	<10	8	<20	3	10	
Number of Analyses		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		1.5	29	289	233	41	112	30	4	3	0.83	2.73	1.22	1.43	0.06	0.16	.005	551	0.9	9	71	3	1	4	5	0.5	3	10	38	5	5	8	10	3	10	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		0.5	30	290	255	42	80	33	4	1	0.77	2.60	1.34	1.43	0.04	0.14	0.01	600	0.8	9	55	1	2	4	7	1	12	1	39	1	0.1	9	1	4	8	



CLIENT: CYPRUS CANADA INC.

PROJECT: 5007

REPORT: C97-63652.1 (COMPLETE)

DATE RECEIVED: 27-OCT-97

DATE PRINTED: 7-NOV-97

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SAMPLE NUMBER	ELEMENT UNITS	Ag	As	Cu	Zn	Ni	Cr	Pb	Mo	Sb	Al	Fe	Mg	Ca	Na	K	Ti	Mn	Cd	Co	Ba	Bi	Ga	La	Li	Nb	Sc	Sn	Sr	Ta	Te	V	W	Y	Zr
		PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
657030		<.2	5016	31	49	40	309	8	17	5	1.38	2.72	0.50	0.47	0.12	0.81	0.10	309	14.7	16	145	<5	<2	29	12	<1	<5	<20	29	<10	<10	31	<20	7	29
Duplicate		<.2	4551	28	46	36	294	7	16	<5	1.31	2.47	0.46	0.43	0.11	0.75	0.10	279	12.6	15	138	<5	<2	26	11	<1	<5	<20	27	<10	<10	29	<20	7	27
657047		<.2	54	31	17	56	291	<2	1	<5	2.63	2.98	2.09	4.18	0.31	0.07	0.08	448	<0.2	21	32	<5	<2	2	16	3	10	<20	33	<10	<10	55	<20	6	1
Duplicate		<.2	58	31	18	60	315	<2	2	<5	2.83	3.21	2.27	4.41	0.35	0.08	0.09	476	<0.2	23	33	<5	<2	2	16	3	12	<20	35	<10	<10	62	<20	7	1
657067		<.2	55	28	13	48	143	<2	2	<5	3.93	1.79	1.67	5.07	0.53	0.25	0.11	473	<0.2	21	452	<5	<2	2	13	4	7	<20	80	<10	<10	35	<20	8	1
Duplicate		<.2	53	29	14	49	149	<2	2	<5	4.04	1.90	1.72	5.20	0.55	0.25	0.11	486	<0.2	22	467	<5	<2	2	14	5	8	<20	84	<10	<10	37	<20	8	1



Intertek Testing Services
Chimitec Bondar Clegg

Rapport Lab Geochimie
Geochemical Lab Report

REPORT: C97-63653.1 (COMPLETE)

REFERENCE: -

CLIENT: CYPRUS CANADA INC.
PROJECT: 5007

SUBMITTED BY: ANDREW TIMS
DATE RECEIVED: 27-OCT-97 DATE PRINTED: 6-NOV-97

DATE APPROVED	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION	EXTRACTION	METHOD	SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
971106	1 Ag	47	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA	DRILL CORE	47	-200	47	AS RECEIVED	47
971106	2 As	47	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	3 Cu	47	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	4 Zn	47	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	5 Ni	47	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	6 Cr	47	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	7 Pb	47	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	8 Mo	47	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	9 Sb	47	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	10 Al	47	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	11 Fe	47	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	12 Mg	47	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	13 Ca	47	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	14 Na	47	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	15 K	47	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	16 Ti	47	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	17 Mn	47	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	18 Cd	47	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	19 Co	47	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	20 Ba	47	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	21 Bi	47	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	22 Ga	47	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	23 La	47	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	24 Li	47	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	25 Nb	47	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	26 Sc	47	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	27 Sn	47	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	28 Sr	47	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	29 Ta	47	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	30 Te	47	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	31 V	47	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	32 W	47	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	33 Y	47	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	34 Zr	47	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						

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Intertek Testing Services
Chimitec Bondar Clegg

Rapport Lab Geochimie
Geochemical Lab Report

CLIENT: CYPRUS CANADA INC.

PROJECT: 5007

REPORT: C97-63653.1 (COMPLETE)

DATE RECEIVED: 27-OCT-97

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SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	As PPM	Cu PPM	Zn PPM	Ni PPM	Cr PPM	Pb PPM	Mo PPM	Sb PPM	Al PCT	Fe PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Ti PCT	Mn PPM	Cd PPM	Co PPM	Ba PPM	Bi PPM	Ga PPM	La PPM	Li PPM	Nb PPM	Sc PPM	Sn PPM	Sr PPM	Ta PPM	Te PPM	V PPM	W PPM	Y PPM	Zr PPM
657071	<.2	125	74	26	460	1181	3	1	<5	1.42	4.42	3.40	3.39	<.01	<.01	0.02	771	<.2	72	<1	<5	3	2	<1	<1	7	<20	16	<10	<10	52	<20	2	<1	
657072	<.2	86	60	50	249	594	2	2	<5	3.42	5.75	3.59	2.25	0.06	0.47	0.10	662	<.2	54	463	5	5	8	16	<1	11	<20	12	<10	<10	100	<20	3	<1	
657073	<.2	101	58	53	192	157	<2	3	<5	3.72	4.72	3.77	0.76	0.06	0.14	0.07	522	<.2	52	68	<5	5	6	23	<1	<5	<20	9	<10	<10	40	<20	3	<1	
657074	<.2	34	81	45	54	148	2	3	<5	2.37	3.69	2.28	2.86	0.20	0.47	0.13	582	<.2	29	264	<5	4	3	16	<1	11	<20	18	<10	<10	83	<20	6	1	
657075	<.2	11	108	40	23	118	<2	4	<5	2.26	3.94	2.17	1.98	0.25	0.50	0.15	547	<.2	24	122	<5	4	4	16	<1	13	<20	12	<10	<10	99	<20	6	1	
657076	0.2	34	389	30	33	139	2	2	<5	2.13	2.96	2.05	3.94	0.21	0.12	0.10	656	<.2	26	31	<5	3	<1	10	<1	10	<20	26	<10	<10	71	<20	5	<1	
657077	<.2	92	43	55	89	196	2	6	<5	3.10	3.69	2.45	3.06	0.15	0.54	0.14	627	<.2	32	69	<5	6	5	23	<1	7	<20	22	<10	<10	64	<20	6	3	
657078	<.2	89	125	39	71	71	<2	3	<5	2.40	3.30	1.90	2.69	0.26	0.04	0.09	533	<.2	35	4	<5	4	2	8	<1	9	<20	22	<10	<10	83	<20	6	<1	
657079	<.2	<5	67	56	33	146	3	8	<5	4.82	3.92	1.69	4.26	0.35	0.74	0.14	694	<.2	15	86	<5	9	6	21	<1	8	<20	65	<10	<10	69	<20	7	3	
657080	<.2	47	107	46	43	139	<2	4	<5	2.15	3.80	2.09	2.02	0.22	0.28	0.12	509	<.2	26	62	<5	4	5	14	<1	12	<20	18	<10	<10	97	<20	8	2	
657081	<.2	13	55	45	45	164	2	8	<5	1.98	2.98	1.62	2.10	0.24	0.40	0.14	442	<.2	17	97	<5	6	8	14	<1	8	<20	32	<10	<10	61	<20	7	4	
657082	<.2	45	146	32	34	95	<2	4	<5	1.53	3.16	1.66	1.65	0.22	0.27	0.11	394	<.2	27	31	<5	3	5	12	<1	11	<20	13	<10	<10	93	<20	7	2	
657083	<.2	98	81	47	22	112	<2	6	<5	2.82	3.64	1.60	4.31	0.36	0.40	0.12	636	<.2	20	70	<5	6	4	13	<1	11	<20	55	<10	<10	93	<20	9	5	
657084	<.2	2129	66	60	48	174	<2	8	<5	3.19	4.09	1.75	3.02	0.36	1.04	0.16	661	3.4	22	155	<5	6	9	21	<1	9	<20	51	<10	<10	85	<20	8	10	
657085	<.2	573	119	52	72	99	<2	3	<5	2.63	3.67	2.12	3.68	0.26	0.27	0.09	646	0.6	35	31	<5	4	1	12	<1	10	<20	34	<10	<10	87	<20	7	1	
657086	<.2	3722	223	47	53	164	<2	7	<5	2.63	4.23	1.74	3.70	0.27	0.61	0.12	697	6.5	27	65	<5	5	5	16	<1	9	<20	38	<10	<10	73	<20	8	4	
657087	<.2	47	42	85	20	171	4	9	<5	2.22	4.13	1.07	2.78	0.25	0.36	0.11	725	<.2	12	106	<5	5	11	12	<1	8	<20	24	<10	<10	62	<20	10	7	
657088	<.2	24	124	44	26	126	<2	6	<5	1.61	3.44	1.34	3.65	0.23	0.04	0.11	717	<.2	21	7	<5	4	5	7	<1	11	<20	15	<10	<10	93	<20	9	3	
657089	<.2	48	106	44	37	104	<2	3	<5	2.39	3.94	1.82	2.97	0.30	0.04	0.12	588	<.2	28	5	<5	5	4	9	<1	14	<20	28	<10	<10	118	<20	9	<1	
657090	<.2	<5	147	46	36	102	<2	3	<5	2.02	4.17	1.53	6.37	0.26	0.05	0.14	1088	<.2	23	4	<5	5	<1	8	<1	14	<20	25	<10	<10	107	<20	9	<1	
657091	<.2	<5	105	55	30	104	2	4	<5	2.25	4.20	1.54	5.52	0.29	0.07	0.15	1085	<.2	19	5	<5	5	<1	9	<1	15	<20	22	<10	<10	120	<20	10	<1	
657092	<.2	47	113	207	40	191	4	9	<5	2.99	5.85	1.44	3.55	0.28	0.31	0.11	956	0.6	24	61	<5	6	7	11	<1	11	<20	31	<10	<10	85	<20	10	7	
657093	<.2	22	68	113	50	157	4	6	<5	3.29	5.17	1.54	3.84	0.36	0.41	0.14	1058	<.2	22	43	<5	6	4	12	<1	9	<20	40	<10	<10	85	<20	9	4	
657094	<.2	5	44	167	36	176	38	7	<5	3.03	5.22	1.27	4.15	0.24	0.55	0.12	1104	<.2	18	66	<5	7	9	18	<1	9	<20	40	<10	<10	66	<20	11	10	
657095	<.2	9	53	47	54	148	2	4	<5	3.40	3.92	1.64	3.76	0.34	0.16	0.09	1020	<.2	18	31	<5	6	6	11	<1	10	<20	60	<10	<10	75	<20	10	2	
657096	<.2	28	87	42	60	193	<2	6	<5	2.27	3.39	1.37	2.00	0.29	0.29	0.12	881	<.2	30	79	<5	4	5	11	<1	15	<20	21	<10	<10	118	<20	10	1	
657097	<.2	6489	98	50	80	171	<2	7	<5	1.70	4.07	1.04	4.03	0.18	0.24	0.09	779	10.2	35	118	<5	3	3	9	<1	11	<20	22	<10	<10	95	<20	11	1	
657098	<.2	189	72	70	71	159	2	4	<5	2.34	4.84	1.33	2.87	0.25	0.39	0.13	923	0.3	33	80	<5	5	5	11	<1	16	<20	19	<10	<10	134	<20	12	2	
657099	<.2	<5	71	57	38	123	2	5	<5	3.65	5.57	1.84	3.98	0.32	0.11	0.12	1556	<.2	17	71	<5	6	6	7	<1	10	<20	78	<10	<10	83	<20	8	<1	
657100	<.2	7	80	102	102	215	4	6	<5	2.50	4.58	1.70	2.48	0.20	0.34	0.15	998	<.2	35	85	<5	7	8	12	<1	14	<20	19	<10	<10	138	<20	13	2	



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SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	As PPM	Cu PPM	Zn PPM	Ni PPM	Cr PPM	Pb PPM	Mo PPM	Sb PPM	Al PCT	Fe PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Ti PCT	Mn PPM	Cd PPM	Co PPM	Ba PPM	Bi PPM	Ga PPM	La PPM	Li PPM	Nb PPM	Sc PPM	Sn PPM	Sr PPM	Ta PPM	Te PPM	V PPM	W PPM	Y PPM	Zr PPM
657101	<.2	<5	28	53	33	240	10	13	<5	1.32	1.98	0.90	0.51	0.12	0.68	0.12	274	<0.2	12	104	<5	5	30	14	<1	<5	<20	46	<10	<10	31	<20	6	28	
657102	<.2	8	24	50	24	266	12	12	<5	1.01	1.43	0.50	0.53	0.13	0.62	0.07	192	<0.2	10	101	<5	3	35	9	<1	<5	<20	51	<10	<10	17	<20	5	29	
657103	<.2	14	19	47	25	316	13	18	<5	0.79	1.18	0.32	0.82	0.10	0.41	0.04	190	<0.2	9	79	<5	3	29	7	<1	<5	<20	47	<10	<10	15	<20	4	22	
657104	<.2	127	34	113	29	162	17	9	<5	1.64	3.10	1.00	1.03	0.17	0.74	0.20	353	<0.2	15	110	<5	5	30	14	<1	<5	<20	49	<10	<10	69	<20	8	31	
657105	<.2	441	27	49	27	231	10	14	<5	1.07	1.48	0.54	0.75	0.12	0.49	0.08	216	0.5	10	77	<5	4	35	8	<1	<5	<20	50	<10	<10	19	<20	6	28	
657106	0.2	1173	27	46	23	283	9	12	<5	1.01	1.62	0.55	0.50	0.12	0.55	0.07	205	1.8	10	100	<5	4	30	8	<1	<5	<20	50	<10	<10	19	<20	4	23	
657107	<.2	1384	30	56	34	280	10	16	<5	1.31	1.96	0.77	0.68	0.12	0.77	0.11	255	2.0	13	115	<5	4	32	11	<1	<5	<20	58	<10	<10	27	<20	6	31	
657108	<.2	13	27	48	27	263	10	14	<5	1.27	1.51	0.57	0.68	0.13	0.66	0.08	223	<0.2	10	83	<5	4	33	9	<1	<5	<20	62	<10	<10	18	<20	6	27	
657109	0.3	1645	24	51	31	227	11	13	<5	1.30	1.73	0.71	0.69	0.12	0.68	0.10	265	2.1	12	87	<5	5	33	9	1	<5	<20	52	<10	<10	22	<20	7	32	
657110	<.2	2503	22	43	28	287	8	13	<5	1.03	1.51	0.51	0.49	0.12	0.54	0.07	223	3.3	11	104	<5	4	26	7	<1	<5	<20	41	<10	<10	19	<20	5	26	
657111	<.2	3460	29	45	35	271	8	15	<5	1.14	1.78	0.63	0.61	0.13	0.63	0.09	271	4.2	13	109	<5	4	29	8	<1	<5	<20	43	<10	<10	23	<20	6	28	
657112	<.2	114	36	59	37	238	10	11	<5	1.90	2.26	1.12	0.61	0.16	0.94	0.15	361	<0.2	13	85	<5	6	29	14	<1	<5	<20	69	<10	<10	35	<20	7	26	
657113	<.2	6623	40	41	43	282	11	16	<5	1.15	2.25	0.71	0.77	0.11	0.59	0.08	283	9.8	15	74	<5	4	31	9	<1	<5	<20	45	<10	<10	28	<20	6	27	
657114	<.2	67	44	66	42	296	9	12	<5	1.80	2.67	1.35	0.32	0.13	1.13	0.18	374	<0.2	15	136	<5	7	34	14	1	<5	<20	42	<10	<10	41	<20	7	32	
657115	0.2	3607	42	60	42	280	9	15	<5	1.52	2.57	1.10	0.45	0.12	0.95	0.14	353	4.9	15	108	<5	5	35	11	1	<5	<20	43	<10	<10	36	<20	7	28	
657116	<.2	17	44	66	39	267	12	13	<5	1.56	2.41	1.12	0.38	0.14	0.93	0.15	343	<0.2	14	120	<5	6	31	12	<1	<5	<20	43	<10	<10	38	<20	6	26	
657117	<.2	9	37	66	39	299	11	16	<5	1.53	2.36	1.11	0.32	0.14	0.96	0.16	336	<0.2	14	107	<5	5	30	13	<1	<5	<20	41	<10	<10	39	<20	6	27	

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STANDARD NAME	ELEMENT UNITS	Ag PPM	As PPM	Cu PPM	Zn PPM	Ni PPM	Cr PPM	Pb PPM	Mo PPM	Sb PPM	Al PCT	Fe PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Ti PCT	Mn PPM	Cd PPM	Co PPM	Ba PPM	Bi PPM	Ga PPM	La PPM	Li PPM	Nb PPM	Sc PPM	Sn PPM	Sr PPM	Ta PPM	Te PPM	V PPM	W PPM	Y PPM	Zr PPM		
BCC GEOCHEM STD 4		1.1	28	292	246	44	-	36	4	<5	0.90	2.74	1.56	1.43	0.06	0.16	<.01	623	0.9	9	63	<5	3	4	6	<1	<5	<20	40	<10	<10	9	<20	3	10		
Number of Analyses		1	1	1	1	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Mean Value		1.1	28	292	246	44	-	36	4	3	0.90	2.74	1.56	1.43	0.06	0.16	.005	623	0.9	9	63	3	3	4	6	0.5	3	10	40	5	5	9	10	3	10		
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Accepted Value		0.5	30	290	255	42	80	33	4	1	0.77	2.60	1.34	1.43	0.04	0.14	0.01	600	0.8	9	55	1	2	4	7	1	12	1	39	1	0.1	9	1	4	8		
ANALYTICAL BLANK		<.2	<5	<1	<1	<1	<1	<2	<1	<5	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<1	<0.2	<1	<1	<5	<2	<1	<1	<1	<5	<20	<1	<10	<10	<1	<20	<1	<1		
ANALYTICAL BLANK		<.2	<5	<1	<1	<1	<1	<2	<1	<5	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<1	<0.2	<1	<1	<5	<2	<1	<1	<1	<5	<20	<1	<10	<10	<1	<20	<1	<1		
Number of Analyses		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Mean Value		0.1	3	0.5	0.5	0.5	0.5	1	0.5	3	.005	.005	.005	.005	.005	.005	.005	0.5	0.1	0.5	0.5	3	1	0.5	0.5	0.5	3	10	0.5	5	5	0.5	10	0.5	0.5		
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Accepted Value		0.2	5	1	1	1	1	2	1	5	<.01	0.05	<.01	<.01	<.01	<.01	<.01	1	1.0	1	.01	2	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01		
BCC GEOCHEM STD 6		0.3	144	144	132	126	172	22	3	<5	1.91	6.58	2.55	3.71	0.01	0.04	<.01	1476	0.6	31	6	<5	4	6	20	<1	7	<20	78	<10	<10	44	<20	3	5		
Number of Analyses		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Mean Value		0.3	144	144	132	126	172	22	3	3	1.91	6.58	2.55	3.71	0.01	0.04	.005	1476	0.6	31	6	3	4	6	20	0.5	7	10	78	5	5	44	10	3	5		
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Accepted Value		0.2	-	140	140	135	170	18	4	-	1.80	6.50	2.70	4.00	0.01	0.04	.003	1450	0.2	35	6	1	-	-	24	-	6	5	70	1	-	50	12	3	5		



CLIENT: CYPRUS CANADA INC.

PROJECT: 5007

REPORT: C97-63653.1 (COMPLETE)

DATE RECEIVED: 27-OCT-97

DATE PRINTED: 6-NOV-97

PAGE 4 OF 4

SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	As PPM	Cu PPM	Zn PPM	Ni PPM	Cr PPM	Pb PPM	Mo PPM	Sb PPM	Al PCT	Fe PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Ti PCT	Mn PPM	Cd PPM	Co PPM	Ba PPM	Bi PPM	Ga PPM	La PPM	Li PPM	Nb PPM	Sc PPM	Sn PPM	Sr PPM	Ta PPM	Te PPM	V PPM	W PPM	Y PPM	Zr PPM
657074		<.2	34	81	45	54	148	2	3	<5	2.37	3.69	2.28	2.86	0.20	0.47	0.13	582	<0.2	29	264	<5	4	3	16	<1	11	<20	18	<10	<10	83	<20	6	1
Duplicate		<.2	40	84	46	55	152	2	4	<5	2.45	3.82	2.30	2.95	0.21	0.48	0.14	596	<0.2	29	271	<5	5	3	16	<1	11	<20	18	<10	<10	85	<20	6	1
657091		<.2	<5	105	55	30	104	2	4	<5	2.25	4.20	1.54	5.52	0.29	0.07	0.15	1085	<0.2	19	5	<5	5	<1	9	<1	15	<20	22	<10	<10	120	<20	10	<1
Duplicate		<.2	5	105	53	29	102	3	4	<5	2.17	4.12	1.50	5.53	0.28	0.06	0.13	1059	<0.2	19	5	<5	4	<1	8	<1	15	<20	22	<10	<10	116	<20	10	<1
657111		<.2	3460	29	45	35	271	8	15	<5	1.14	1.78	0.63	0.61	0.13	0.63	0.09	271	4.2	13	109	<5	4	29	8	<1	<5	<20	43	<10	<10	23	<20	6	28
Duplicate		<.2	3382	30	45	35	265	8	15	<5	1.13	1.77	0.62	0.61	0.13	0.64	0.08	269	4.5	13	110	<5	4	29	8	<1	<5	<20	44	<10	<10	23	<20	6	27



Intertek Testing Services
Chimitec Bondar Clegg

NOV 02 1997

Rapport Lab Geochimie
Geochemical Lab Report

REPORT: C97-63654.1 (COMPLETE)

REFERENCE: -

CLIENT: CYPRUS CANADA INC.

SUBMITTED BY: ANDREW TIMS

PROJECT: 5007

DATE RECEIVED: 27-OCT-97 DATE PRINTED: 6-NOV-97

DATE APPROVED	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION	EXTRACTION	METHOD	SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
971106	1 Ag	36	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA	DRILL CORE	36	-200	36	AS RECEIVED	36
971106	2 As	36	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	3 Cu	36	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	4 Zn	36	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	5 Ni	36	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	6 Cr	36	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	7 Pb	36	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	8 Mo	36	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	9 Sb	36	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	10 Al	36	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	11 Fe	36	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	12 Mg	36	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	13 Ca	36	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	14 Na	36	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	15 K	36	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	16 Ti	36	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	17 Mn	36	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	18 Cd	36	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	19 Co	36	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	20 Ba	36	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	21 Bi	36	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	22 Ga	36	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	23 La	36	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	24 Li	36	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	25 Nb	36	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	26 Sc	36	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	27 Sn	36	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	28 Sr	36	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	29 Ta	36	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	30 Te	36	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	31 V	36	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	32 W	36	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	33 Y	36	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971106	34 Zr	36	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						

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Intertek Testing Services Chimitec Bondar Clegg

Rapport Lab Geochimie Geochemical Lab Report

CLIENT: CYPRUS CANADA INC.

PROJECT: 5007

REPORT: C97-63654.1 (COMPLETE)

DATE RECEIVED: 27-OCT-97

DATE PRINTED: 6-NOV-97 PAGE 1 OF 4

SAMPLE NUMBER	ELEMENT UNITS	Ag	As	Cu	Zn	Ni	Cr	Pb	Mo	Sb	Al	Fe	Mg	Ca	Na	K	Ti	Mn	Cd	Co	Ba	Bi	Ga	La	Li	Nb	Sc	Sn	Sr	Ta	Te	V	W	Y	Zr
657118		<.2	9	39	67	39	293	8	16	<5	1.50	2.43	1.16	0.27	0.11	0.93	0.16	343	<.2	14	98	<5	6	29	13	<1	<5	<20	35	<10	<10	38	<20	6	25
657119		0.2	30	27	51	33	298	8	13	<5	1.35	2.02	0.92	0.36	0.11	0.79	0.12	277	<.2	12	112	<5	5	26	10	<1	<5	<20	35	<10	<10	27	<20	5	29
657120		<.2	33	21	49	33	333	12	17	<5	1.22	1.84	0.80	0.54	0.13	0.66	0.10	278	<.2	10	98	<5	4	25	9	<1	<5	<20	40	<10	<10	28	<20	5	27
657121		<.2	8	35	75	37	296	11	13	<5	1.39	2.22	1.02	0.42	0.11	0.80	0.13	293	<.2	13	108	<5	6	40	12	<1	<5	<20	37	<10	<10	32	<20	7	37
657122		<.2	9	29	60	33	306	9	17	<5	1.22	1.70	0.67	0.58	0.10	0.66	0.09	235	<.2	11	100	<5	4	37	9	<1	<5	<20	34	<10	<10	22	<20	6	32
657123		<.2	10	25	26	26	259	9	11	<5	1.33	1.60	0.71	0.85	0.09	0.51	0.04	211	<.2	11	103	<5	4	26	9	<1	<5	<20	40	<10	<10	17	<20	6	28
657124		<.2	6	28	29	35	279	8	15	<5	1.39	1.98	0.88	0.94	0.10	0.50	0.05	245	<.2	11	99	<5	4	27	11	<1	<5	<20	46	<10	<10	23	<20	7	29
657125		<.2	12	37	41	35	290	9	13	<5	1.43	2.28	0.90	0.88	0.10	0.64	0.10	272	<.2	14	99	<5	5	29	11	1	<5	<20	44	<10	<10	27	<20	8	29
657126		<.2	37	26	41	34	274	8	15	<5	1.44	1.87	0.78	0.78	0.09	0.70	0.09	249	<.2	12	97	<5	5	29	12	<1	<5	<20	36	<10	<10	24	<20	7	28
657127		<.2	19	31	60	31	290	11	12	<5	1.73	2.04	0.91	0.78	0.14	0.86	0.12	279	<.2	13	105	<5	5	32	12	<1	<5	<20	50	<10	<10	29	<20	7	16
657128		<.2	16	43	62	45	319	10	16	<5	1.62	2.60	1.25	0.26	0.10	1.03	0.16	325	<.2	14	143	<5	6	32	13	<1	<5	<20	29	<10	<10	38	<20	6	31
657129		<.2	258	36	66	38	245	8	11	<5	1.67	2.46	1.21	0.28	0.11	1.03	0.16	332	<.2	14	142	<5	6	31	14	<1	<5	<20	28	<10	<10	35	<20	6	32
657130		<.2	49	45	67	52	304	9	15	<5	1.93	3.06	1.37	0.56	0.09	1.14	0.16	402	<.2	17	150	<5	6	30	15	<1	<5	<20	36	<10	<10	43	<20	6	32
657131		<.2	55	48	70	39	270	8	12	<5	1.56	2.38	1.11	0.34	0.11	0.95	0.14	314	<.2	13	123	<5	5	28	12	<1	<5	<20	26	<10	<10	34	<20	5	29
657132		<.2	112	41	68	43	280	8	14	<5	1.75	2.74	1.29	0.35	0.13	1.11	0.16	359	<.2	15	137	<5	6	28	16	<1	<5	<20	28	<10	<10	43	<20	6	29
657133		<.2	127	40	64	39	238	7	9	<5	1.68	2.51	1.25	0.31	0.12	1.05	0.16	331	<.2	14	144	<5	6	28	13	<1	<5	<20	25	<10	<10	41	<20	6	25
657134		<.2	30	43	80	55	319	9	14	<5	2.28	3.39	1.71	0.38	0.14	1.53	0.24	465	<.2	18	188	<5	9	36	22	<1	7	<20	31	<10	<10	63	<20	7	37
657135		<.2	342	37	72	42	267	13	11	<5	1.75	2.67	1.30	0.43	0.11	1.03	0.14	352	0.5	15	159	<5	6	32	16	<1	<5	<20	26	<10	<10	40	<20	6	31
657136		<.2	16	48	72	47	288	14	15	<5	1.69	2.67	1.24	0.31	0.09	1.05	0.15	321	<.2	16	163	<5	6	34	13	<1	<5	<20	21	<10	<10	36	<20	7	33
657137		<.2	15	52	67	44	253	13	10	<5	1.86	2.86	1.37	0.28	0.12	1.23	0.19	381	<.2	16	176	<5	7	37	17	<1	<5	<20	27	<10	<10	44	<20	7	31
657138		<.2	51	43	64	39	279	9	14	<5	1.72	2.53	1.33	0.82	0.12	0.94	0.13	391	<.2	14	175	<5	5	28	15	<1	<5	<20	28	<10	<10	45	<20	6	23
657139		<.2	73	169	53	49	154	3	3	<5	3.22	4.73	2.09	3.59	0.24	1.01	0.18	583	0.2	38	407	<5	5	4	18	<1	11	<20	32	<10	<10	99	<20	7	3
657140		<.2	33	14	16	41	138	<2	2	<5	3.23	1.44	1.68	5.03	0.39	0.16	0.10	489	<.2	17	283	<5	5	<1	8	<1	6	<20	50	<10	<10	30	<20	5	1
657141		<.2	34	21	17	44	147	<2	1	<5	3.84	1.75	1.89	4.31	0.46	0.03	0.10	425	<.2	17	103	<5	6	<1	7	<1	7	<20	58	<10	<10	40	<20	5	<1
657142		<.2	39	45	37	246	686	2	2	<5	2.00	3.26	2.97	3.48	0.10	0.03	0.06	601	<.2	38	15	<5	4	<1	6	<1	6	<20	18	<10	<10	42	<20	3	<1
657143		<.2	41	42	105	161	523	2	6	<5	2.38	4.33	2.83	1.75	0.06	0.46	0.10	584	<.2	36	235	<5	6	9	12	<1	8	<20	11	<10	<10	73	<20	5	3
657144		<.2	48	98	51	71	180	3	5	<5	2.80	4.06	2.51	2.13	0.21	0.42	0.12	550	<.2	31	86	<5	5	5	17	<1	10	<20	24	<10	<10	82	<20	6	1
657145		<.2	59	59	48	65	200	3	6	<5	2.87	3.37	2.18	2.84	0.20	0.62	0.13	592	<.2	27	133	<5	5	5	18	<1	7	<20	30	<10	<10	61	<20	6	2
657146		<.2	10	28	51	13	176	4	11	<5	2.86	3.03	1.25	8.18	0.31	0.84	0.16	1037	<.2	11	215	<5	7	<1	20	<1	6	<20	58	<10	<10	64	<20	7	2
657147		<.2	19	90	37	29	106	2	6	<5	1.88	2.77	1.46	5.37	0.17	0.31	0.13	782	<.2	17	105	<5	5	1	16	<1	7	<20	26	<10	<10	61	<20	6	1



Intertek Testing Services
Chimitec Bondar Clegg

Rapport Lab Geochimie
Geochemical Lab Report

CLIENT: CYPRUS CANADA INC.
REPORT: C97-63654.1 (COMPLETE)

PROJECT: 5007
DATE RECEIVED: 27-OCT-97 DATE PRINTED: 6-NOV-97 PAGE 2 OF 4

SAMPLE NUMBER	ELEMENT	Ag	As	Cu	Zn	Ni	Cr	Pb	Mo	Sb	Al	Fe	Mg	Ca	Na	K	Ti	Mn	Cd	Co	Ba	Bi	Ga	La	Li	Nb	Sc	Sn	Sr	Ta	Te	V	W	Y	Zr
	UNITS	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
657148		<.2	21	69	31	41	307	<2	16	<5	1.97	3.41	1.82	2.00	0.20	0.20	0.12	454	<.2	20	54	<5	4	3	12	<1	10	<20	17	<10	<10	96	<20	6	<1
657149		<.2	97	74	36	70	125	2	6	<5	2.02	2.97	1.97	1.83	0.19	0.03	0.07	429	0.3	33	4	<5	4	4	8	<1	8	<20	16	<10	<10	64	<20	5	1
657150		<.2	77	69	58	72	118	<2	6	<5	2.63	3.86	2.21	2.52	0.24	0.06	0.10	515	<.2	33	6	<5	5	3	12	<1	10	<20	25	<10	<10	89	<20	6	<1
657151		<.2	34	73	41	40	143	2	6	<5	2.54	3.20	1.38	3.67	0.28	0.19	0.11	585	<.2	20	56	<5	5	4	10	<1	9	<20	24	<10	<10	81	<20	7	3
657152		<.2	9	62	51	37	236	4	12	<5	3.52	3.68	1.50	3.43	0.37	0.73	0.15	553	<.2	16	170	<5	8	7	19	<1	8	<20	37	<10	<10	77	<20	7	4
657153		<.2	69	96	43	63	117	2	2	<5	2.51	3.80	2.21	2.33	0.26	0.42	0.13	519	0.2	33	51	<5	4	3	14	<1	11	<20	24	<10	<10	96	<20	7	1

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Intertek Testing Services
Chimitec Bondar Clegg

Rapport Lab Geochimie
Geochemical Lab Report

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DATE PRINTED: 6-NOV-97

PAGE 3 OF 4

STANDARD NAME	ELEMENT	Ag	As	Cu	Zn	Ni	Cr	Pb	Mo	Sb	Al	Fe	Mg	Ca	Na	K	Ti	Mn	Cd	Co	Ba	Bi	Ga	La	Li	Nb	Sc	Sn	Sr	Ta	Te	V	W	Y	Zr	
	UNITS	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	
BCC GEOCHEM STD 6		<.2	133	152	131	125	176	21	3	<5	1.92	6.52	2.52	3.67	0.01	0.04	<.01	1458	0.3	30	6	5	4	6	20	<1	7	<20	77	<10	<10	44	<20	3	5	
Number of Analyses		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		0.1	133	152	131	125	176	21	3	3	1.92	6.52	2.52	3.67	0.01	0.04	.005	1458	0.3	30	6	5	4	6	20	0.5	7	10	77	5	5	44	10	3	5	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		0.2	-	140	140	135	170	18	4	-	1.80	6.50	2.70	4.00	0.01	0.04	.003	1450	0.2	35	6	1	-	-	24	-	6	5	70	1	-	50	12	3	5	
ANALYTICAL BLANK		<.2	<5	<1	<1	<1	<1	<2	<1	<5	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<1	<.2	<1	<1	<5	<2	<1	<1	<1	<5	<20	<1	<10	<10	<1	<20	<1	<1	
Number of Analyses		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		0.1	3	0.5	0.5	0.5	0.5	1	0.5	3	.005	.005	.005	.005	.005	.005	.005	0.5	0.1	0.5	0.5	3	1	0.5	0.5	0.5	3	10	0.5	5	5	0.5	10	0.5	0.5	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		0.2	5	1	1	1	1	2	1	5	<.01	0.05	<.01	<.01	<.01	<.01	<.01	1	1.0	1	.01	2	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01



CLIENT: CYPRUS CANADA INC.

PROJECT: 5007

REPORT: C97-63654.1 (COMPLETE)

DATE RECEIVED: 27-OCT-97 DATE PRINTED: 6-NOV-97 PAGE 4 OF 4

SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	As PPM	Cu PPM	Zn PPM	Ni PPM	Cr PPM	Pb PPM	Mo PPM	Sb PPM	Al PCT	Fe PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Ti PCT	Mn PPM	Cd PPM	Co PPM	Ba PPM	Bi PPM	Ga PPM	La PPM	Li PPM	Nb PPM	Sc PPM	Sn PPM	Sr PPM	Ta PPM	Te PPM	V PPM	W PPM	Y PPM	Zr PPM
657122		<.2	9	29	60	33	306	9	17	<5	1.22	1.70	0.67	0.58	0.10	0.66	0.09	235	<.2	11	100	<5	4	37	9	<1	<5	<20	34	<10	<10	22	<20	6	32
Duplicate		<.2	<5	28	58	33	308	9	17	<5	1.21	1.70	0.69	0.59	0.10	0.64	0.09	234	<.2	12	98	<5	4	36	8	1	<5	<20	33	<10	<10	22	<20	6	31
657139		<.2	73	169	53	49	154	3	3	<5	3.22	4.73	2.09	3.59	0.24	1.01	0.18	583	0.2	38	407	<5	5	4	18	<1	11	<20	32	<10	<10	99	<20	7	3
Duplicate		<.2	83	178	54	51	160	3	4	<5	3.37	4.86	2.07	3.70	0.25	1.05	0.18	601	<.2	39	421	<5	6	6	18	<1	12	<20	34	<10	<10	103	<20	7	3



Intertek Testing Services
Chimitec Bondar Clegg

DEC 02 1997

Rapport Lab Geochimie
Geochemical Lab Report

REPORT: C97-63743.1 (COMPLETE)

REFERENCE: -

CLIENT: CYPRUS CANADA INC.

SUBMITTED BY: ANDREW TIMS

PROJECT: 5007

DATE RECEIVED: 30-OCT-97 DATE PRINTED: 10-NOV-97

DATE APPROVED	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION	EXTRACTION	METHOD	SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER	
971110	1 Ag	Silver	50	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA	DRILL CORE	50	-20+80	50	AS RECEIVED	50
971110	2 As	Arsenic	50	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971110	3 Cu	Copper	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971110	4 Zn	Zinc	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971110	5 Ni	Nickel	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971110	6 Cr	Chromium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971110	7 Pb	Lead	50	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971110	8 Mo	Molybdenum	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971110	9 Sb	Antimony	50	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971110	10 Al	Aluminum	50	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971110	11 Fe	Iron	50	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971110	12 Mg	Magnesium	50	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971110	13 Ca	Calcium	50	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971110	14 Na	Sodium	50	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971110	15 K	Potassium	50	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971110	16 Ti	Titanium	50	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971110	17 Mn	Manganese	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971110	18 Cd	Cadmium	50	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971110	19 Co	Cobalt	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971110	20 Ba	Barium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971110	21 Bi	Bismuth	50	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971110	22 Ga	Gallium	50	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971110	23 La	Lanthanum	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971110	24 Li	Lithium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971110	25 Nb	Niobium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971110	26 Sc	Scandium	50	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971110	27 Sn	Tin	50	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971110	28 Sr	Strontium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971110	29 Ta	Tantalum	50	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971110	30 Te	Tellurium	50	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971110	31 V	Vanadium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971110	32 W	Tungsten	50	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971110	33 Y	Yttrium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971110	34 Zr	Zirconium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						

REPORT COPIES TO: MR. DAVID B. STEVENSON

INVOICE TO: MR. DAVID B. STEVENSON

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per



Intertek Testing Services

Chimitec Bondar Clegg

Rapport Lab Geochimie

Geochemical Lab Report

CLIENT: CYPRUS CANADA INC.
 REPORT: C97-63743.1 (COMPLETE)

DATE RECEIVED: 30-OCT-97 DATE PRINTED: 10-NOV-97 PAGE 1 OF 4 PROJECT: 5007

SAMPLE NUMBER	ELEMENT UNITS	Ag	As	Cu	Zn	Ni	Cr	Pb	Mo	Sb	Al	Fe	Mg	Ca	Na	K	Ti	Mn	Cd	Co	Ba	Bi	Ga	La	Li	Nb	Sc	Sn	Sr	Ta	Te	V	W	Y	Zr
657154	<.2	48	60	25	18	107	<2	5	<5	1.29	2.81	0.88	3.21	0.15	0.14	0.09	490	<0.2	19	44	<5	<2	3	9	6	11	<20	22	<10	<10	86	<20	7	<1	
657155	<.2	24	63	57	44	156	<2	8	<5	1.85	3.30	1.11	1.77	0.21	0.43	0.12	393	<0.2	21	91	<5	<2	10	17	5	8	<20	27	<10	<10	64	<20	8	4	
657156	<.2	56	124	31	46	167	<2	5	<5	2.00	3.83	1.71	1.90	0.18	0.15	0.09	405	<0.2	31	24	<5	<2	3	14	6	12	<20	12	<10	<10	87	<20	7	<1	
657157	<.2	195	92	36	28	123	<2	5	<5	1.97	3.75	1.37	2.71	0.22	0.38	0.11	492	0.7	26	49	<5	<2	4	16	5	11	<20	23	<10	<10	87	<20	8	2	
657158	<.2	711	96	30	55	127	<2	5	<5	2.01	3.15	1.29	2.66	0.20	0.23	0.08	417	3.1	32	22	<5	<2	2	13	4	9	<20	26	<10	<10	69	<20	6	<1	
657159	<.2	2339	92	59	45	138	<2	7	<5	2.14	4.31	1.34	3.45	0.20	0.42	0.10	545	10.3	30	71	<5	<2	4	16	6	12	<20	30	<10	<10	92	<20	9	2	
657160	<.2	17	93	44	35	124	<2	5	<5	2.04	4.19	1.30	3.67	0.24	0.06	0.13	643	<0.2	26	5	<5	<2	3	11	7	16	<20	17	<10	<10	115	<20	10	<1	
657161	<.2	10	101	43	32	114	<2	4	<5	2.00	4.17	1.17	4.97	0.25	0.06	0.13	866	<0.2	25	4	<5	<2	3	9	7	15	<20	21	<10	<10	109	<20	10	<1	
657162	<.2	65	78	65	40	132	<2	4	<5	2.49	4.21	0.97	3.93	0.29	0.20	0.12	788	<0.2	28	50	<5	<2	4	11	6	11	<20	31	<10	<10	90	<20	10	<1	
657163	<.2	16	65	72	88	320	3	10	<5	3.33	5.06	1.97	0.88	0.18	1.77	0.20	641	<0.2	26	442	<5	<2	23	56	7	15	<20	45	<10	<10	100	<20	8	35	
657164	<.2	717	55	67	93	261	5	51	<5	5.70	5.12	1.82	2.10	0.29	2.12	0.23	572	2.9	28	161	<5	4	26	43	7	14	<20	186	<10	<10	93	<20	10	41	
657165	<.2	485	56	58	79	333	5	14	<5	4.34	4.44	1.51	1.90	0.17	1.65	0.19	538	1.9	24	109	<5	<2	22	41	5	10	<20	117	<10	<10	74	<20	9	37	
657166	<.2	17	51	69	81	319	3	8	<5	2.80	4.65	1.86	0.72	0.18	1.64	0.21	560	<0.2	25	441	<5	<2	24	51	6	13	<20	46	<10	<10	92	<20	8	33	
657167	<.2	14	52	68	79	270	5	5	<5	2.43	4.45	1.87	0.74	0.12	1.42	0.17	496	<0.2	25	461	<5	<2	22	52	6	12	<20	34	<10	<10	85	<20	6	29	
657168	<.2	74	52	66	76	375	3	10	<5	2.54	4.45	1.83	0.64	0.15	1.63	0.22	436	<0.2	25	499	<5	<2	26	55	7	13	<20	28	<10	<10	98	<20	8	37	
657169	<.2	26	48	69	77	340	3	8	<5	2.54	4.44	1.85	0.70	0.16	1.57	0.21	447	<0.2	25	523	<5	<2	25	54	6	13	<20	28	<10	<10	95	<20	7	36	
657170	<.2	25	49	73	76	276	3	9	<5	3.09	4.67	1.78	0.75	0.13	2.03	0.25	576	<0.2	25	477	<5	<2	26	63	6	14	<20	29	<10	<10	95	<20	8	37	
657171	<.2	19	49	69	81	279	3	5	<5	2.84	4.77	1.99	1.01	0.12	1.81	0.23	639	<0.2	25	515	<5	<2	23	66	6	14	<20	32	<10	<10	92	<20	7	35	
657172	<.2	23	43	61	74	283	4	8	<5	2.53	4.21	1.86	1.28	0.11	1.50	0.18	608	<0.2	22	386	<5	<2	24	63	5	11	<20	44	<10	<10	73	<20	7	38	
657173	<.2	23	48	63	85	299	3	7	<5	2.59	4.48	1.94	1.01	0.13	1.60	0.20	590	<0.2	25	529	<5	<2	23	58	6	13	<20	37	<10	<10	87	<20	7	34	
657174	<.2	11	35	52	60	265	5	9	<5	2.12	3.59	1.50	1.24	0.13	1.28	0.16	501	<0.2	19	372	<5	<2	21	46	5	9	<20	41	<10	<10	63	<20	7	30	
657175	<.2	18	51	67	83	257	5	5	<5	2.37	4.43	1.71	1.12	0.11	1.45	0.19	621	<0.2	24	438	<5	<2	22	49	5	12	<20	41	<10	<10	81	<20	7	32	
657176	<.2	235	50	64	79	274	4	9	7	2.40	4.35	1.56	1.10	0.11	1.43	0.16	612	0.8	23	318	<5	<2	21	42	5	10	<20	66	<10	<10	69	<20	6	33	
657177	<.2	69	43	75	65	234	5	8	6	2.95	4.54	1.59	0.82	0.13	1.75	0.21	572	<0.2	23	362	<5	<2	23	48	5	12	<20	40	<10	<10	83	<20	8	32	
657178	<.2	31	49	73	73	239	4	9	<5	3.29	5.00	1.62	0.79	0.15	1.82	0.22	587	<0.2	25	385	<5	<2	22	52	6	14	<20	36	<10	<10	94	<20	8	33	
657179	<.2	51	52	78	69	167	4	5	<5	3.29	4.70	1.64	0.83	0.15	1.79	0.22	562	<0.2	24	292	<5	<2	23	51	5	11	<20	45	<10	<10	79	<20	9	36	
657180	<.2	33	46	72	60	235	4	9	<5	3.10	4.48	1.62	0.92	0.15	1.69	0.22	581	<0.2	22	420	<5	<2	21	45	5	11	<20	43	<10	<10	82	<20	9	30	
657181	<.2	43	42	73	61	237	3	10	<5	2.92	4.51	1.59	0.26	0.11	1.78	0.22	572	<0.2	22	305	<5	<2	19	41	5	9	<20	21	<10	<10	73	<20	6	31	
657182	<.2	33	28	47	27	175	7	9	<5	1.03	1.71	0.38	0.29	0.06	0.59	0.07	235	<0.2	13	97	<5	<2	34	12	<1	<5	<20	16	<10	<10	15	<20	7	30	
657183	<.2	20	26	43	32	239	7	14	<5	1.22	2.16	0.34	0.38	0.07	0.65	0.08	313	<0.2	13	106	<5	<2	33	15	1	<5	<20	22	<10	<10	19	<20	8	32	

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Intertek Testing Services

Chimitec Bondar Clegg

Rapport Lab Geochimie

Geochemical Lab Report

CLIENT: CYPRUS CANADA INC.
 REPORT: C97-63743.1 (COMPLETE)

PROJECT: 5007

DATE RECEIVED: 30-OCT-97 DATE PRINTED: 10-NOV-97 PAGE 2 OF 4

SAMPLE NUMBER	ELEMENT	Ag	As	Cu	Zn	Ni	Cr	Pb	Mo	Sb	Al	Fe	Mg	Ca	Na	K	Ti	Mn	Cd	Co	Ba	Bi	Ga	La	Li	Nb	Sc	Sn	Sr	Ta	Te	V	W	Y	Zr
	UNITS	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
657184	<.2	36	17	43	27	259	9	14	<5	0.94	1.47	0.23	0.37	0.06	0.50	0.06	254	<0.2	12	89	<5	<2	29	9	<1	<5	<20	24	<10	<10	11	<20	7	33	
657185	<.2	49	22	49	27	153	8	8	<5	1.04	1.83	0.32	0.35	0.06	0.58	0.08	299	<0.2	13	88	<5	<2	31	12	1	<5	<20	21	<10	<10	14	<20	8	33	
657186	<.2	25	22	44	30	265	8	16	5	1.02	1.72	0.26	0.39	0.07	0.53	0.06	259	<0.2	12	86	<5	<2	33	10	1	<5	<20	27	<10	<10	14	<20	8	34	
657187	<.2	82	21	41	26	242	6	14	<5	1.10	2.01	0.26	0.64	0.08	0.54	0.05	362	0.3	10	83	<5	<2	27	11	<1	<5	<20	39	<10	<10	14	<20	7	28	
657188	<.2	154	19	51	28	245	8	13	5	1.02	1.57	0.37	0.83	0.09	0.46	0.04	236	0.7	11	83	<5	<2	28	10	1	<5	<20	67	<10	<10	17	<20	7	32	
657189	<.2	118	28	55	29	141	9	7	<5	1.21	2.05	0.54	0.72	0.09	0.64	0.08	272	0.4	14	101	<5	<2	31	15	1	<5	<20	76	<10	<10	22	<20	9	40	
657190	<.2	165	26	54	32	252	8	15	<5	1.14	2.07	0.58	0.48	0.11	0.72	0.09	262	0.7	14	108	<5	<2	30	19	2	<5	<20	61	<10	<10	28	<20	6	31	
657191	<.2	41	27	58	30	201	6	10	<5	1.29	2.12	0.63	0.37	0.13	0.83	0.11	251	<0.2	14	132	<5	<2	30	23	2	<5	<20	59	<10	<10	30	<20	6	30	
657192	<.2	22	24	56	32	216	6	12	<5	1.33	2.06	0.59	0.37	0.12	0.82	0.11	246	<0.2	14	119	<5	<2	29	19	2	<5	<20	55	<10	<10	28	<20	6	34	
657193	<.2	36	36	62	31	164	8	7	<5	1.26	2.21	0.64	0.37	0.09	0.83	0.12	269	<0.2	16	100	<5	<2	37	16	1	<5	<20	52	<10	<10	27	<20	6	33	
657194	<.2	20	26	60	30	248	10	14	<5	1.13	1.82	0.51	0.51	0.11	0.68	0.08	265	<0.2	13	129	<5	<2	28	13	1	<5	<20	60	<10	<10	23	<20	4	26	
657195	<.2	101	30	54	31	220	9	12	<5	1.28	2.14	0.61	0.44	0.13	0.82	0.10	294	0.4	14	125	<5	<2	30	16	2	<5	<20	55	<10	<10	28	<20	5	28	
657196	<.2	22	30	65	31	224	10	13	<5	1.14	2.03	0.55	0.47	0.12	0.72	0.08	278	<0.2	13	132	<5	<2	32	16	1	<5	<20	66	<10	<10	24	<20	5	25	
657197	<.2	16	39	60	31	149	9	7	5	0.91	2.29	0.63	0.63	0.09	0.58	0.07	366	<0.2	14	89	<5	<2	36	14	1	<5	<20	75	<10	<10	23	<20	6	33	
657198	<.2	18	30	60	35	249	4	14	<5	1.56	2.32	0.68	0.51	0.12	0.96	0.16	305	<0.2	15	81	<5	<2	34	15	2	<5	<20	42	<10	<10	35	<20	8	36	
657199	<.2	39	23	50	29	233	5	12	<5	1.25	1.89	0.53	0.73	0.11	0.78	0.11	264	<0.2	13	86	<5	<2	27	12	2	<5	<20	44	<10	<10	25	<20	6	30	
657200	<.2	42	25	51	29	240	6	13	<5	1.12	1.71	0.46	0.80	0.11	0.67	0.10	234	<0.2	13	88	<5	<2	32	10	2	<5	<20	46	<10	<10	22	<20	7	35	
657201	<.2	22	25	56	27	158	6	7	<5	1.21	1.83	0.55	0.31	0.08	0.80	0.12	249	<0.2	14	81	<5	<2	35	12	1	<5	<20	25	<10	<10	23	<20	7	39	
657202	<.2	92	28	53	32	275	6	16	<5	1.29	1.98	0.55	0.50	0.12	0.77	0.12	271	0.4	14	75	<5	<2	31	13	3	<5	<20	34	<10	<10	30	<20	7	31	
657203	<.2	1538	25	46	29	236	7	13	7	1.14	1.86	0.48	0.91	0.11	0.56	0.06	266	6.8	12	78	<5	<2	30	10	1	<5	<20	42	<10	<10	18	<20	6	30	

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CLIENT: CYPRUS CANADA INC.
REPORT: C97-63743.1 (COMPLETE)

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STANDARD NAME	ELEMENT UNITS	Ag PPM	As PPM	Cu PPM	Zn PPM	Ni PPM	Cr PPM	Pb PPM	Mo PPM	Sb PPM	Al PCT	Fe PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Ti PCT	Mn PPM	Cd PPM	Co PPM	Ba PPM	Bi PPM	Ga PPM	La PPM	Li PPM	Nb PPM	Sc PPM	Sn PPM	Sr PPM	Ta PPM	Te PPM	V PPM	W PPM	Y PPM	Zr PPM	
BCC GEOCHEM STD 4		1.4	25	279	219	41	106	28	4	<5	0.82	2.85	1.10	1.32	0.06	0.15	<.01	553	0.8	9	62	<5	<2	4	6	<1	<5	<20	38	<10	<10	6	<20	3	9	
Number of Analyses		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Mean Value		1.4	25	279	219	41	106	28	4	3	0.82	2.85	1.10	1.32	0.06	0.15	.005	553	0.8	9	62	3	1	4	6	0.5	3	10	38	5	5	6	10	3	9	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Accepted Value		0.5	30	290	255	42	80	33	4	1	0.77	2.60	1.34	1.43	0.04	0.14	0.01	600	0.8	9	55	1	2	4	7	1	12	1	39	1	0.1	9	1	4	8	
ANALYTICAL BLANK		<.2	<5	<1	<1	<1	<1	<2	<1	<5	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<1	<0.2	<1	<1	<5	<2	<1	<1	<1	<5	<20	<1	<10	<10	<1	<20	<1	<1	
ANALYTICAL BLANK		<.2	<5	<1	<1	<1	<1	<2	<1	<5	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<1	<0.2	<1	<1	<5	<2	<1	<1	<1	<5	<20	<1	<10	<10	<1	<20	<1	<1	
Number of Analyses		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Mean Value		0.1	3	0.5	0.5	0.5	0.5	1	0.5	3	.005	.005	.005	.005	.005	.005	.005	0.5	0.1	0.5	0.5	3	1	0.5	0.5	0.5	3	10	0.5	5	5	0.5	10	0.5	0.5	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Accepted Value		0.2	5	1	1	1	1	2	1	5	<.01	0.05	<.01	<.01	<.01	<.01	<.01	1	1.0	1	.01	2	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	1	.01	.01	.01
BCC GEOCHEM STD 6		<.2	125	134	121	119	163	13	4	<5	1.85	7.20	2.41	3.42	0.01	0.04	<.01	1362	0.3	30	5	<5	<2	2	20	3	8	<20	76	<10	<10	40	<20	3	3	
Number of Analyses		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Mean Value		0.1	125	134	121	119	163	13	4	3	1.85	7.20	2.41	3.42	0.01	0.04	.005	1362	0.3	30	5	3	1	2	20	3	8	10	76	5	5	40	10	3	3	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Accepted Value		0.2	-	140	140	135	170	18	4	-	1.80	6.50	2.70	4.00	0.01	0.04	.003	1450	0.2	35	6	1	-	-	24	-	6	5	70	1	-	50	12	3	5	



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PROJECT: 5007

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SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	As PPM	Cu PPM	Zn PPM	Ni PPM	Cr PPM	Pb PPM	Mo PPM	Sb PPM	Al PCT	Fe PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Ti PCT	Mn PPM	Cd PPM	Co PPM	Ba PPM	Bi PPM	Ga PPM	La PPM	Li PPM	Nb PPM	Sc PPM	Sn PPM	Sr PPM	Ta PPM	Te PPM	V PPM	W PPM	Y PPM	Zr PPM
657157		<.2	195	92	36	28	123	<2	5	<5	1.97	3.75	1.37	2.71	0.22	0.38	0.11	492	0.7	26	49	<5	<2	4	16	5	11	<20	23	<10	<10	87	<20	8	2
Duplicate		<.2	195	91	35	28	121	<2	5	<5	1.93	3.63	1.33	2.66	0.21	0.37	0.11	481	0.7	25	49	<5	<2	4	16	5	11	<20	22	<10	<10	85	<20	8	2
657174		<.2	11	35	52	60	265	5	9	<5	2.12	3.59	1.50	1.24	0.13	1.28	0.16	501	<0.2	19	372	<5	<2	21	46	5	9	<20	41	<10	<10	63	<20	7	30
Duplicate		<.2	12	36	54	62	272	4	9	<5	2.18	3.71	1.55	1.28	0.13	1.33	0.17	517	<0.2	19	384	<5	<2	22	47	5	9	<20	42	<10	<10	65	<20	7	31
657194		<.2	20	26	60	30	248	10	14	<5	1.13	1.82	0.51	0.51	0.11	0.68	0.08	265	<0.2	13	129	<5	<2	28	13	1	<5	<20	60	<10	<10	23	<20	4	26
Duplicate		<.2	20	26	61	30	250	10	14	<5	1.13	1.82	0.51	0.52	0.11	0.67	0.08	265	<0.2	13	131	<5	<2	28	13	1	<5	<20	59	<10	<10	23	<20	4	26



Intertek Testing Services
Chimitec Bondar Clegg

0202

Rapport Lab Geochimie
Geochemical Lab Report

REPORT: C97-63744.1 (COMPLETE)

REFERENCE: -

CLIENT: CYPRUS CANADA INC.

SUBMITTED BY: D. STEVENSON

PROJECT: 5007

DATE RECEIVED: 30-OCT-97 DATE PRINTED: 11-NOV-97

DATE APPROVED	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION	EXTRACTION	METHOD	SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
						DRILL CORE	50	-150	50	AS RECEIVED	50
971111	1 Ag	Silver	50	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971111	2 As	Arsenic	50	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971111	3 Cu	Copper	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971111	4 Zn	Zinc	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971111	5 Ni	Nickel	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971111	6 Cr	Chromium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971111	7 Pb	Lead	50	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971111	8 Mo	Molybdenum	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971111	9 Sb	Antimony	50	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971111	10 Al	Aluminum	50	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971111	11 Fe	Iron	50	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971111	12 Mg	Magnesium	50	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971111	13 Ca	Calcium	50	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971111	14 Na	Sodium	50	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971111	15 K	Potassium	50	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971111	16 Ti	Titanium	50	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971111	17 Mn	Manganese	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971111	18 Cd	Cadmium	50	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971111	19 Co	Cobalt	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971111	20 Ba	Barium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971111	21 Bi	Bismuth	50	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971111	22 Ga	Gallium	50	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971111	23 La	Lanthanum	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971111	24 Li	Lithium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971111	25 Nb	Niobium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971111	26 Sc	Scandium	50	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971111	27 Sn	Tin	50	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971111	28 Sr	Strontium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971111	29 Ta	Tantalum	50	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971111	30 Te	Tellurium	50	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971111	31 V	Vanadium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971111	32 W	Tungsten	50	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971111	33 Y	Yttrium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					
971111	34 Zr	Zirconium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA					

REPORT COPIES TO: MR. DAVID B. STEVENSON

INVOICE TO: MR. DAVID B. STEVENSON

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CLIENT: CYPRUS CANADA INC.

PROJECT: 5007

REPORT: C97-63744.1 (COMPLETE)

DATE RECEIVED: 30-OCT-97

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SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	As PPM	Cu PPM	Zn PPM	Ni PPM	Cr PPM	Pb PPM	Mo PPM	Sb PPM	Al PCT	Fe PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Ti PCT	Mn PPM	Cd PPM	Co PPM	Ba PPM	Bi PPM	Ga PPM	La PPM	Li PPM	Nb PPM	Sc PPM	Sn PPM	Sr PPM	Ta PPM	Te PPM	V PPM	W PPM	Y PPM	Zr PPM
657204	<.2	174	34	70	45	262	9	15	<.5	1.72	2.45	0.92	0.41	0.09	1.12	0.17	372	<.2	17	81	<.5	4	31	21	1	<.5	<20	22	<10	<10	43	<20	9	38	
657205	<.2	105	29	63	40	352	9	18	<.5	1.39	2.16	0.70	0.60	0.12	0.73	0.11	297	<.2	14	107	<.5	4	29	16	1	<.5	<20	38	<10	<10	41	<20	6	33	
657206	<.2	260	31	61	39	278	10	13	<.5	1.41	2.15	0.75	0.61	0.12	0.81	0.12	316	<.2	15	109	<.5	2	31	15	1	<.5	<20	42	<10	<10	38	<20	5	33	
657207	<.2	28	30	49	39	277	9	15	<.5	1.35	2.13	0.77	0.96	0.12	0.66	0.09	352	<.2	13	90	<.5	<2	29	15	1	<.5	<20	61	<10	<10	39	<20	6	35	
657208	<.2	48	28	43	36	256	9	12	<.5	1.43	2.01	0.69	0.62	0.13	0.75	0.11	251	<.2	13	99	<.5	3	32	14	1	<.5	<20	46	<10	<10	38	<20	6	30	
657209	<.2	14	27	59	36	318	9	17	<.5	1.30	1.89	0.61	0.72	0.12	0.73	0.11	269	<.2	13	82	<.5	3	34	13	<1	<.5	<20	40	<10	<10	33	<20	7	29	
657210	<.2	37	21	47	32	217	7	11	<.5	1.53	1.77	0.62	0.61	0.08	0.89	0.11	256	<.2	12	85	<.5	4	29	15	<1	<.5	<20	41	<10	<10	27	<20	7	31	
657211	<.2	101	33	47	39	303	11	16	<.5	1.66	2.05	0.65	0.77	0.09	0.77	0.09	256	<.2	14	98	<.5	3	33	15	<1	<.5	<20	44	<10	<10	34	<20	8	33	
657212	<.2	18	38	56	42	235	13	11	<.5	1.71	2.39	0.86	0.59	0.12	0.93	0.13	293	<.2	15	130	<.5	5	31	16	1	<.5	<20	41	<10	<10	41	<20	7	33	
657213	<.2	6	35	63	41	267	8	14	<.5	1.71	2.30	0.77	0.54	0.14	0.97	0.16	290	<.2	16	97	<.5	5	37	18	1	<.5	<20	44	<10	<10	44	<20	9	35	
657214	<.2	14	27	59	32	237	11	11	<.5	1.33	1.86	0.58	0.71	0.13	0.69	0.13	225	<.2	13	95	<.5	3	36	14	1	<.5	<20	44	<10	<10	34	<20	8	36	
657215	<.2	9	61	85	99	355	8	9	<.5	4.54	4.88	2.06	0.99	0.32	2.20	0.28	674	<.2	29	532	<.5	8	29	62	5	17	<20	69	<10	<10	133	<20	11	43	
657216	<.2	33	40	81	90	412	6	10	<.5	3.34	4.37	2.22	0.90	0.21	2.02	0.27	645	<.2	26	500	<.5	9	26	48	5	15	<20	39	<10	<10	114	<20	9	39	
657217	<.2	31	52	81	92	353	7	10	<.5	3.34	4.51	2.04	0.78	0.19	1.99	0.27	643	<.2	27	539	<.5	7	28	48	5	16	<20	38	<10	<10	120	<20	9	42	
657218	<.2	404	41	84	82	331	11	9	<.5	4.48	4.18	2.04	2.78	0.22	1.78	0.19	601	<.2	23	154	<.5	7	22	52	3	11	<20	135	<10	<10	87	<20	8	36	
657219	<.2	39	44	72	89	317	9	10	<.5	3.67	4.18	1.90	1.06	0.22	2.03	0.25	570	<.2	25	228	<.5	7	25	39	4	13	<20	58	<10	<10	102	<20	9	39	
657220	<.2	38	44	72	85	324	8	9	<.5	3.36	4.39	1.98	0.96	0.20	1.99	0.26	624	<.2	25	379	<.5	6	26	47	4	13	<20	44	<10	<10	102	<20	8	37	
657221	<.2	419	42	79	83	339	9	10	<.5	4.64	4.60	2.09	2.50	0.34	2.15	0.26	651	<.2	25	319	<.5	11	29	49	4	13	<20	150	<10	<10	107	<20	10	42	
657222	<.2	9	48	75	86	347	6	9	<.5	3.07	4.28	1.95	0.86	0.24	1.70	0.25	580	<.2	24	517	<.5	9	26	54	5	14	<20	43	<10	<10	109	<20	9	38	
657223	<.2	15	50	73	103	332	6	8	<.5	3.18	4.18	2.14	0.54	0.22	1.81	0.26	503	<.2	27	512	<.5	7	25	60	5	15	<20	34	<10	<10	115	<20	9	38	
657224	<.2	<.5	49	76	88	426	5	9	<.5	2.52	4.21	1.95	0.67	0.20	1.43	0.23	439	<.2	24	495	<.5	6	27	48	5	11	<20	38	<10	<10	109	<20	8	34	
657225	<.2	6	47	70	90	389	5	10	<.5	2.66	3.94	2.00	0.80	0.22	1.50	0.24	467	<.2	24	465	<.5	6	26	48	5	10	<20	37	<10	<10	101	<20	8	33	
657226	<.2	9	49	76	93	395	6	8	<.5	2.80	4.22	2.12	0.77	0.22	1.60	0.24	480	<.2	25	453	<.5	7	26	50	4	12	<20	39	<10	<10	109	<20	9	38	
657227	<.2	14	46	68	95	327	5	9	<.5	2.78	3.73	2.06	0.53	0.21	1.42	0.20	386	<.2	24	523	<.5	8	24	50	5	13	<20	30	<10	<10	108	<20	9	38	
657228	<.2	13	49	77	94	342	6	8	<.5	3.01	4.18	2.18	0.43	0.23	1.62	0.23	485	<.2	25	525	<.5	8	25	53	5	14	<20	35	<10	<10	114	<20	9	39	
657229	<.2	18	51	77	92	300	5	7	<.5	3.28	4.43	2.26	0.32	0.13	1.78	0.22	490	<.2	25	519	<.5	10	22	67	5	16	<20	17	<10	<10	117	<20	7	37	
657230	<.2	10	48	79	101	434	7	15	<.5	3.26	4.48	2.21	0.46	0.18	1.55	0.21	540	<.2	26	428	<.5	9	24	58	5	16	<20	26	<10	<10	124	<20	8	37	
657231	<.2	10	47	67	88	389	5	10	<.5	2.63	4.09	1.95	1.04	0.14	1.34	0.19	490	<.2	23	416	<.5	5	24	48	4	12	<20	28	<10	<10	101	<20	8	34	
657232	<.2	13	48	72	93	276	6	5	<.5	3.04	4.24	1.98	0.66	0.13	1.74	0.22	514	<.2	25	376	<.5	6	24	57	5	14	<20	25	<10	<10	106	<20	8	35	
657233	<.2	436	42	70	81	351	9	10	<.5	2.54	3.64	1.86	0.90	0.14	1.54	0.23	493	<.2	23	543	<.5	6	26	47	4	11	<20	27	<10	<10	93	<20	8	35	



Intertek Testing Services
Chimitec Bondar Clegg

Rapport Lab Geochimie
Geochemical Lab Report

CLIENT: CYPRUS CANADA INC.
REPORT: C97-63744.1 (COMPLETE)

DATE RECEIVED: 30-OCT-97 DATE PRINTED: 11-NOV-97 PROJECT: 5007
PAGE 2 OF 4

SAMPLE NUMBER	ELEMENT	Ag	As	Cu	Zn	Ni	Cr	Pb	Mo	Sb	Al	Fe	Mg	Ca	Na	K	Ti	Mn	Cd	Co	Ba	Bi	Ga	La	Li	Nb	Sc	Sn	Sr	Ta	Te	V	W	Y	Zr
	UNITS	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
657234	<.2	82	50	79	82	267	7	5	<5	3.07	4.32	1.96	1.02	0.11	1.98	0.27	623	<.2	24	525	<5	8	29	54	5	14	<20	25	<10	<10	110	<20	9	39	
657235	<.2	15	39	67	84	370	7	10	<5	2.58	3.83	2.01	1.65	0.14	1.48	0.21	558	<.2	22	517	<5	6	23	50	4	11	<20	35	<10	<10	92	<20	8	33	
657236	<.2	21	42	68	82	328	6	5	<5	2.47	3.80	1.99	1.33	0.14	1.46	0.21	520	<.2	22	537	<5	7	26	46	4	11	<20	33	<10	<10	96	<20	8	35	
657237	<.2	39	42	66	86	294	6	9	<5	3.10	3.73	1.87	1.01	0.16	1.92	0.26	573	<.2	23	360	<5	6	26	51	4	12	<20	33	<10	<10	91	<20	8	43	
657238	<.2	1128	44	78	89	353	5	5	<5	2.76	4.09	1.98	0.94	0.14	1.76	0.24	598	<.2	24	570	<5	8	28	53	4	14	<20	27	<10	<10	110	<20	9	38	
657239	<.2	327	44	70	85	373	6	8	<5	2.58	4.04	2.01	1.14	0.16	1.58	0.22	522	<.2	22	486	<5	6	26	47	4	13	<20	29	<10	<10	101	<20	8	37	
657240	<.2	52	46	70	85	267	5	4	<5	2.63	4.50	2.13	1.58	0.11	1.70	0.20	635	<.2	23	364	<5	5	23	52	4	12	<20	33	<10	<10	92	<20	8	31	
657241	<.2	49	38	67	71	282	8	9	<5	2.88	3.59	1.64	1.48	0.17	1.74	0.21	608	<.2	20	177	<5	6	23	37	3	9	<20	49	<10	<10	72	<20	8	30	
657242	<.2	136	39	67	75	228	8	4	<5	2.83	4.14	1.93	2.06	0.12	1.79	0.21	653	<.2	22	363	<5	7	25	43	3	11	<20	50	<10	<10	84	<20	9	34	
657243	<.2	7	43	71	70	305	6	8	<5	2.55	4.48	2.24	0.83	0.17	1.62	0.21	423	<.2	23	545	<5	4	23	56	5	12	<20	28	<10	<10	109	<20	8	34	
657244	<.2	25	40	67	75	194	7	6	9	1.93	3.61	1.52	2.09	0.08	0.86	0.10	442	<.2	19	207	<5	3	21	40	3	7	<20	51	<10	<10	64	<20	8	34	
657245	<.2	28	34	74	71	216	8	7	<5	2.96	4.02	1.67	2.06	0.16	1.40	0.14	578	<.2	19	222	<5	4	21	59	3	8	<20	58	<10	<10	69	<20	8	32	
657246	<.2	22	42	71	71	183	6	4	<5	3.01	4.55	2.00	1.00	0.13	1.84	0.21	560	<.2	22	462	<5	7	25	59	4	11	<20	26	<10	<10	89	<20	7	38	
657247	<.2	16	44	69	82	227	5	7	<5	3.16	5.10	1.90	1.16	0.13	1.85	0.21	713	<.2	23	391	<5	5	21	61	4	11	<20	36	<10	<10	91	<20	6	30	
657248	<.2	14	45	85	84	223	8	5	<5	3.26	4.82	2.16	0.47	0.12	1.86	0.21	588	<.2	24	402	<5	6	23	58	4	13	<20	23	<10	<10	106	<20	7	32	
657249	<.2	13	49	79	82	299	6	9	<5	3.03	4.78	2.02	0.46	0.18	1.57	0.19	587	<.2	23	455	<5	8	23	52	5	14	<20	30	<10	<10	110	<20	7	34	
657250	<.2	8	43	76	67	197	5	4	<5	2.79	4.55	1.99	0.60	0.12	1.59	0.18	550	<.2	21	525	<5	7	22	50	5	12	<20	20	<10	<10	99	<20	6	26	
657251	<.2	15	50	78	74	290	6	10	<5	2.93	4.75	2.02	0.76	0.16	1.67	0.18	625	<.2	23	519	<5	8	22	51	4	13	<20	29	<10	<10	100	<20	6	30	
657252	<.2	16	82	85	72	84	6	2	<5	2.03	7.17	2.06	4.84	0.05	0.28	0.03	1627	<.2	29	57	<5	<2	5	17	3	9	<20	51	<10	<10	77	<20	7	4	
657253	<.2	22	36	76	70	129	<2	3	<5	3.34	6.04	2.08	3.79	0.20	0.08	0.13	1243	<.2	27	15	<5	3	7	15	4	12	<20	38	<10	<10	113	<20	11	4	

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Intertek Testing Services
Chimitec Bondar Clegg

Rapport Lab Geochimie
Geochemical Lab Report

CLIENT: CYPRUS CANADA INC.
REPORT: C97-63744.1 (COMPLETE)

PROJECT: 5007
DATE RECEIVED: 30-OCT-97 DATE PRINTED: 11-NOV-97 PAGE 3 OF 4

STANDARD NAME	ELEMENT UNITS	Ag PPM	As PPM	Cu PPM	Zn PPM	Ni PPM	Cr PPM	Pb PPM	Mo PPM	Sb PPM	Al PCT	Fe PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Ti PCT	Mn PPM	Cd PPM	Co PPM	Ba PPM	Bi PPM	Ga PPM	La PPM	Li PPM	Nb PPM	Sc PPM	Sn PPM	Sr PPM	Ta PPM	Te PPM	V PPM	W PPM	Y PPM	Zr PPM		
BCC GEOCHEM STD 6		0.3	142	132	135	138	173	21	2	<5	2.05	6.83	2.73	4.02	0.01	0.04	<.01	1387	<.2	30	6	<5	<2	2	20	3	8	<20	76	<10	<10	59	<20	3	7		
Number of Analyses		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Mean Value		0.3	142	132	135	138	173	21	2	3	2.05	6.83	2.73	4.02	0.01	0.04	.005	1387	0.1	30	6	3	1	2	20	3	8	10	76	5	5	59	10	3	7		
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Accepted Value		0.2	-	140	140	135	170	18	4	-	1.80	6.50	2.70	4.00	0.01	0.04	.003	1450	0.2	35	6	1	-	-	24	-	6	5	70	1	-	50	12	3	5		
ANALYTICAL BLANK		<.2	<5	<1	<1	<1	<1	<2	<1	<5	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<1	<.2	<1	<1	<5	<2	<1	<1	<1	<5	<20	<1	<10	<10	<1	<20	<1	<1		
ANALYTICAL BLANK		<.2	<5	<1	<1	<1	<1	<2	<1	<5	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<1	<.2	<1	<1	<5	<2	<1	<1	<1	<5	<20	<1	<10	<10	<1	<20	<1	<1		
Number of Analyses		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
Mean Value		0.1	3	0.5	0.5	0.5	0.5	1	0.5	3	.005	.005	.005	.005	.005	.005	.005	0.5	0.1	0.5	0.5	3	1	0.5	0.5	0.5	3	10	0.5	5	5	0.5	10	0.5	0.5		
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Accepted Value		0.2	5	1	1	1	1	2	1	5	<.01	0.05	<.01	<.01	<.01	<.01	<.01	1	1.0	1	.01	2	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	
BCC GEOCHEM STD 5		0.8	7	85	71	34	45	8	1	<5	3.02	4.42	1.75	1.03	0.05	0.29	0.18	688	<.2	18	166	<5	4	7	23	5	10	<20	33	<10	<10	119	<20	7	13		
Number of Analyses		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Mean Value		0.8	7	85	71	34	45	8	1	3	3.02	4.42	1.75	1.03	0.05	0.29	0.18	688	0.1	18	166	3	4	7	23	5	10	10	33	5	5	119	10	7	13		
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Accepted Value		0.7	8	90	80	40	54	11	2	1	3.09	4.74	1.83	1.08	0.06	0.32	-	720	0.1	18	200	1	-	5	-	1	18	4	39	1	0.2	133	1	9	9		



CLIENT: CYPRUS CANADA INC.

PROJECT: 5007

REPORT: C97-63744.1 (COMPLETE)

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SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	As PPM	Cu PPM	Zn PPM	Ni PPM	Cr PPM	Pb PPM	Mo PPM	Sb PPM	Al PCT	Fe PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Ti PCT	Mn PPM	Cd PPM	Co PPM	Ba PPM	Bi PPM	Ga PPM	La PPM	Li PPM	Nb PPM	Sc PPM	Sn PPM	Sr PPM	Ta PPM	Te PPM	V PPM	W PPM	Y PPM	Zr PPM
657208	<.2	48	28	43	36	256	9	12	<5	1.43	2.01	0.69	0.62	0.13	0.75	0.11	251	<.2	13	99	<5	3	32	14	1	<5	<20	46	<10	<10	38	<20	6	30	
Duplicate	<.2	48	29	42	36	245	8	12	<5	1.43	2.03	0.69	0.62	0.13	0.75	0.10	250	<.2	13	97	<5	3	32	14	1	<5	<20	46	<10	<10	38	<20	6	30	
657225	<.2	6	47	70	90	389	5	10	<5	2.66	3.94	2.00	0.80	0.22	1.50	0.24	467	<.2	24	465	<5	6	26	48	5	10	<20	37	<10	<10	101	<20	8	33	
Duplicate	<.2	5	46	69	86	379	5	9	<5	2.53	3.88	1.92	0.76	0.20	1.44	0.23	444	<.2	23	462	<5	5	26	46	4	10	<20	35	<10	<10	99	<20	8	31	
657245	<.2	28	34	74	71	216	8	7	<5	2.96	4.02	1.67	2.06	0.16	1.40	0.14	578	<.2	19	222	<5	4	21	59	3	8	<20	58	<10	<10	69	<20	8	32	
Duplicate	<.2	28	33	71	69	204	7	7	<5	2.86	3.93	1.62	1.99	0.15	1.36	0.13	561	<.2	18	213	<5	6	21	57	2	8	<20	54	<10	<10	66	<20	7	30	



Intertek Testing Services
Chimitec Bondar Clegg

Rapport Lab Geochimie
Geochemical Lab Report

REPORT: C97-63745.1 (COMPLETE)

REFERENCE: -

CLIENT: CYPRUS CANADA INC.

SUBMITTED BY: D. STEVENSON

PROJECT: 5007

DATE RECEIVED: 30-OCT-97 DATE PRINTED: 11-NOV-97

DATE APPROVED	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION	EXTRACTION	METHOD	SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER	
971111	1 Ag	Silver	50	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA	DRILL CORE	50	-150	50	AS RECEIVED	50
971111	2 As	Arsenic	50	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	3 Cu	Copper	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA	REPORT COPIES TO: MR. DAVID B. STEVENSON				INVOICE TO: MR. DAVID B. STEVENSON	
971111	4 Zn	Zinc	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	5 Ni	Nickel	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	6 Cr	Chromium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	7 Pb	Lead	50	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	8 Mo	Molybdenum	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	9 Sb	Antimony	50	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	10 Al	Aluminum	50	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	11 Fe	Iron	50	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	12 Mg	Magnesium	50	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	13 Ca	Calcium	50	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	14 Na	Sodium	50	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	15 K	Potassium	50	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	16 Ti	Titanium	50	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	17 Mn	Manganese	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	18 Cd	Cadmium	50	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	19 Co	Cobalt	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	20 Ba	Barium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	21 Bi	Bismuth	50	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	22 Ga	Gallium	50	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	23 La	Lanthanum	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	24 Li	Lithium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	25 Nb	Niobium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	26 Sc	Scandium	50	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	27 Sn	Tin	50	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	28 Sr	Strontium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	29 Ta	Tantalum	50	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	30 Te	Tellurium	50	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	31 V	Vanadium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	32 W	Tungsten	50	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	33 Y	Yttrium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	34 Zr	Zirconium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						

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Intertek Testing Services
Chimitec Bondar Clegg

Rapport Lab Geochimie
Geochemical Lab Report

CLIENT: CYPRUS CANADA INC.

PROJECT: 5007

REPORT: C97-63745.1 (COMPLETE)

DATE RECEIVED: 30-OCT-97

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SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	As PPM	Cu PPM	Zn PPM	Ni PPM	Cr PPM	Pb PPM	Mo PPM	Sb PPM	Al PCT	Fe PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Ti PPM	Mn PPM	Cd PPM	Co PPM	Ba PPM	Bi PPM	Ga PPM	La PPM	Li PPM	Nb PPM	Sc PPM	Sn PPM	Sr PPM	Ta PPM	Te PPM	V PPM	W PPM	Y PPM	Zr PPM
657254		<.2	15	52	112	72	112	<2	2	<5	4.05	8.25	2.73	3.17	0.13	0.05	0.15	1172	<.2	33	12	<5	3	9	24	7	13	<20	27	<10	<10	122	<20	12	3
657255		<.2	96	5	275	2	75	23	5	<5	0.86	3.67	0.03	1.18	0.22	0.44	<.01	1407	1.2	<1	148	<5	2	502	4	105	<5	<20	22	<10	<10	13	<20	59	517
657256		<.2	60	3	231	<1	35	14	2	<5	0.94	3.25	0.04	1.73	0.13	0.28	<.01	1015	0.8	<1	105	<5	4	440	7	67	<5	<20	27	<10	<10	12	<20	56	606
657257		<.2	33	5	373	2	84	52	5	<5	0.72	4.14	0.01	0.89	0.25	0.41	<.01	2073	0.7	<1	157	<5	<2	659	3	118	<5	<20	40	<10	<10	15	<20	115	1050
657258		<.2	18	40	190	50	89	29	7	<5	2.23	5.51	0.85	3.01	0.23	0.19	0.08	1518	<.2	17	134	<5	3	291	17	30	8	<20	49	<10	<10	74	<20	41	142
657259		<.2	17	11	356	2	69	113	6	<5	1.21	3.37	0.03	1.18	0.52	0.62	<.01	2140	0.4	<1	151	<5	2	529	126	353	<5	<20	28	<10	<10	12	<20	107	1004
657260		<.2	16	19	335	<1	48	56	5	<5	1.12	4.00	0.02	1.12	0.46	0.53	<.01	2048	0.4	<1	93	<5	3	501	42	286	<5	<20	32	<10	<10	10	<20	80	711
657261		<.2	50	32	186	2	66	37	14	<5	0.63	1.98	0.02	2.14	0.24	0.43	<.01	1046	0.5	<1	126	<5	4	485	30	149	<5	<20	22	<10	<10	8	<20	84	511
657262		<.2	32	34	252	<1	42	25	30	<5	0.59	2.21	0.01	1.94	0.24	0.34	<.01	1308	0.9	<1	94	<5	3	540	13	196	<5	<20	28	<10	<10	8	<20	95	794
657263		<.2	28	14	335	1	60	52	13	<5	1.13	2.42	0.03	2.20	0.40	0.47	<.01	1136	0.5	<1	119	<5	7	799	68	210	<5	<20	45	<10	<10	14	<20	170	1627
657264		0.3	13	88	104	47	100	9	8	<5	2.78	4.64	1.70	4.33	0.23	0.10	0.14	888	<.2	24	66	<5	3	11	15	5	11	<20	44	<10	<10	91	<20	18	11
657265		<.2	5	50	179	75	147	<2	4	<5	3.92	9.63	2.67	3.55	0.10	0.06	0.21	1702	<.2	31	18	<5	<2	8	26	8	14	<20	36	<10	<10	125	<20	11	6
657266		<.2	10	65	103	90	124	5	1	<5	4.73	>10.00	3.27	3.89	0.05	0.07	0.15	1829	<.2	41	13	<5	<2	9	35	8	18	<20	36	<10	<10	153	<20	14	5
657267		0.3	36	104	74	46	112	<2	2	<5	3.27	7.05	2.07	7.25	0.14	0.09	0.18	1063	0.3	35	22	<5	<2	2	15	8	20	<20	31	<10	<10	152	<20	11	2
657268		<.2	40	7	357	<1	42	47	2	<5	0.73	4.07	<.01	0.67	0.37	0.37	<.01	2371	0.8	<1	180	<5	3	663	37	405	<5	<20	52	<10	<10	14	<20	92	574
657269		<.2	6	42	72	64	275	7	9	<5	2.45	4.36	1.74	1.75	0.14	1.09	0.20	618	<.2	21	270	<5	6	20	25	5	8	<20	45	<10	<10	87	<20	8	14
657270		<.2	6	40	72	45	140	6	4	<5	2.34	3.79	1.40	0.74	0.12	0.98	0.18	477	<.2	18	193	<5	6	19	27	4	8	<20	36	<10	<10	73	<20	8	12
657271		<.2	<5	33	65	42	224	6	10	<5	2.75	4.02	1.39	1.18	0.17	0.97	0.19	531	<.2	17	212	<5	5	21	24	3	8	<20	61	<10	<10	71	<20	9	19
657272		<.2	<5	39	91	49	187	5	4	<5	2.12	3.95	1.41	1.08	0.14	0.77	0.17	518	<.2	20	202	<5	7	24	22	4	10	<20	45	<10	<10	86	<20	12	16
657273		<.2	12	59	57	86	236	5	6	<5	2.66	4.57	2.05	0.83	0.12	0.11	0.16	592	<.2	23	35	<5	7	24	22	4	7	<20	59	<10	<10	85	<20	9	13
657274		<.2	13	26	49	62	174	5	2	<5	1.80	3.01	1.45	0.74	0.09	0.08	0.13	382	<.2	18	28	<5	3	22	16	3	<5	<20	42	<10	<10	50	<20	6	8
657275		<.2	14	34	42	67	240	3	6	<5	1.81	3.00	1.41	0.73	0.12	0.09	0.13	343	<.2	19	29	<5	6	21	15	3	<5	<20	49	<10	<10	56	<20	6	10
657276		<.2	21	40	63	69	299	6	11	<5	1.75	3.27	1.39	0.83	0.10	0.28	0.13	354	<.2	20	76	<5	5	22	16	3	<5	<20	35	<10	<10	61	<20	6	13
657277		<.2	22	36	69	61	283	7	9	<5	2.17	4.21	1.68	2.95	0.10	0.76	0.17	634	<.2	20	184	<5	5	24	22	4	6	<20	65	<10	<10	77	<20	8	14
657278		<.2	38	59	100	65	325	8	10	<5	2.25	4.66	1.87	1.95	0.10	0.45	0.15	599	0.4	21	133	<5	6	24	24	4	9	<20	66	<10	<10	88	<20	11	14
657279		<.2	39	42	48	61	225	6	4	<5	2.29	4.44	1.82	1.67	0.08	0.28	0.12	460	0.2	26	100	<5	6	21	28	5	9	<20	36	<10	<10	85	<20	8	13
657280		<.2	8	42	110	74	343	7	12	<5	2.45	4.45	1.88	0.86	0.11	0.53	0.18	550	<.2	22	143	<5	6	24	26	4	7	<20	42	<10	<10	85	<20	10	12
657281		<.2	<5	43	60	63	287	5	6	<5	1.92	3.65	1.57	1.32	0.11	0.50	0.15	382	<.2	20	129	<5	5	23	22	4	<5	<20	34	<10	<10	69	<20	7	13
657282		<.2	<5	41	60	63	338	6	11	<5	2.05	3.89	1.65	1.50	0.14	0.67	0.14	376	<.2	19	165	<5	5	22	24	4	7	<20	41	<10	<10	78	<20	8	14
657283		<.2	7	41	68	67	279	5	8	<5	2.76	4.74	1.82	0.60	0.10	1.34	0.21	543	<.2	22	417	<5	8	22	37	5	10	<20	25	<10	<10	94	<20	9	13

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Intertek Testing Services
Chimitec Bondar Clegg

Rapport Lab Geochimie
Geochemical Lab Report

CLIENT: CYPRUS CANADA INC.
REPORT: C97-63745.1 (COMPLETE)

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PROJECT: 5007

SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	As PPM	Cu PPM	Zn PPM	Ni PPM	Cr PPM	Pb PPM	Mo PPM	Sb PPM	Al PCT	Fe PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Ti PCT	Mn PPM	Cd PPM	Co PPM	Ba PPM	Bi PPM	Ga PPM	La PPM	Li PPM	Nb PPM	Sc PPM	Sn PPM	Sr PPM	Ta PPM	Te PPM	V PPM	W PPM	Y PPM	Zr PPM
657284		<.2	<5	39	62	50	249	10	9	<5	1.88	3.62	1.38	1.47	0.12	0.30	0.11	418	<.2	19	82	<5	4	23	21	4	6	<20	46	<10	<10	71	<20	9	14
657285		<.2	<5	42	73	50	230	7	7	<5	2.27	4.13	1.60	0.78	0.09	0.49	0.15	446	<.2	19	127	<5	6	25	23	4	7	<20	35	<10	<10	82	<20	9	15
657286		<.2	<5	37	68	60	233	7	8	<5	2.22	4.11	1.54	0.81	0.10	0.13	0.14	490	<.2	21	39	<5	7	24	19	4	8	<20	35	<10	<10	79	<20	10	17
657287		<.2	<5	43	84	54	263	7	9	<5	2.63	4.51	1.57	1.29	0.13	0.73	0.19	592	<.2	21	178	<5	7	27	26	4	9	<20	40	<10	<10	87	<20	12	20
657288		<.2	12	40	94	71	264	8	13	<5	3.51	5.80	1.89	0.57	0.12	1.35	0.24	638	<.2	26	219	<5	9	31	42	5	11	<20	34	<10	<10	105	<20	13	26
657289		<.2	6	57	87	71	320	7	13	<5	3.27	5.48	1.71	0.69	0.13	1.17	0.22	686	<.2	25	238	<5	7	25	37	5	13	<20	42	<10	<10	114	<20	12	18
657290		<.2	8	59	87	76	237	6	9	<5	3.56	6.02	1.90	0.56	0.14	1.45	0.24	653	<.2	28	270	<5	9	24	42	6	16	<20	35	<10	<10	123	<20	10	19
657291		<.2	<5	46	66	57	305	5	12	<5	2.25	3.75	1.55	0.54	0.17	0.68	0.16	318	<.2	20	119	<5	7	25	21	5	8	<20	32	<10	<10	93	<20	10	22
657292		0.2	<5	37	70	47	300	7	12	<5	3.72	4.02	1.40	2.24	0.18	0.74	0.19	469	<.2	18	74	<5	7	20	26	3	7	<20	70	<10	<10	76	<20	9	10
657293		0.2	<5	23	57	20	229	<2	13	<5	2.23	2.47	0.88	1.97	0.15	0.56	0.13	239	<.2	10	56	<5	6	8	18	1	<5	<20	38	<10	<10	38	<20	3	6
657294		<.2	<5	21	51	21	202	<2	11	<5	1.43	2.25	0.87	0.44	0.18	0.42	0.11	169	<.2	10	72	<5	6	10	14	2	<5	<20	17	<10	<10	46	<20	3	12
657295		<.2	<5	18	52	23	279	<2	15	<5	1.29	2.18	0.82	0.29	0.17	0.21	0.08	150	<.2	10	49	<5	5	10	11	2	<5	<20	16	<10	<10	50	<20	3	12
657296		<.2	<5	44	79	61	263	6	11	<5	3.38	5.12	1.77	0.69	0.19	1.51	0.21	567	<.2	23	401	<5	10	24	36	5	14	<20	54	<10	<10	103	<20	9	18
657297		<.2	7	53	87	63	277	6	11	<5	3.26	5.21	1.78	0.67	0.15	1.22	0.23	588	<.2	24	332	<5	9	26	38	5	12	<20	50	<10	<10	108	<20	10	15
657298		<.2	<5	23	53	25	210	<2	11	<5	1.79	2.97	1.13	0.57	0.14	0.23	0.10	297	<.2	12	37	<5	5	10	18	3	5	<20	24	<10	<10	53	<20	4	10
657299		<.2	<5	16	49	21	181	<2	9	<5	1.52	2.70	1.02	0.83	0.17	0.13	0.08	206	<.2	11	26	<5	8	9	16	2	<5	<20	19	<10	<10	51	<20	3	9
657300		<.2	<5	31	53	18	240	<2	14	<5	1.36	2.35	0.78	0.66	0.14	0.21	0.10	179	<.2	9	75	<5	5	12	14	2	<5	<20	22	<10	<10	45	<20	4	8
657301		<.2	<5	27	63	17	174	<2	7	<5	1.34	2.46	0.77	1.00	0.15	0.38	0.10	204	<.2	9	131	<5	5	11	16	2	5	<20	40	<10	<10	43	<20	5	7
657302		<.2	<5	39	62	21	239	<2	12	<5	1.18	2.47	0.72	0.64	0.20	0.31	0.09	182	<.2	10	121	<5	5	12	16	2	<5	<20	32	<10	<10	44	<20	5	11
657303		<.2	<5	21	49	17	205	<2	10	<5	1.16	1.90	0.59	0.35	0.21	0.36	0.10	131	<.2	8	127	<5	4	11	11	2	<5	<20	17	<10	<10	42	<20	3	11

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CLIENT: CYPRUS CANADA INC.

PROJECT: 5007

REPORT: C97-63745.1 (COMPLETE)

DATE RECEIVED: 30-OCT-97

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STANDARD NAME	ELEMENT UNITS	Ag	As	Cu	Zn	Ni	Cr	Pb	Mo	Sb	Al	Fe	Mg	Ca	Na	K	Ti	Mn	Cd	Co	Ba	Bi	Ga	La	Li	Nb	Sc	Sn	Sr	Ta	Te	V	W	Y	Zr	
BCC GEOCHEM STD 5		0.8	7	90	78	34	44	9	<1	<5	3.43	4.97	1.71	1.09	0.06	0.30	0.20	711	<.2	19	190	<5	5	8	25	6	11	<20	37	<10	<10	127	<20	8	11	
Number of Analyses		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		0.8	7	90	78	34	44	9	0.5	3	3.43	4.97	1.71	1.09	0.06	0.30	0.20	711	0.1	19	190	3	5	8	25	6	11	10	37	5	5	127	10	8	11	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		0.7	8	90	80	40	54	11	2	1	3.09	4.74	1.83	1.08	0.06	0.32	-	720	0.1	18	200	1	-	5	-	1	18	4	39	1	0.2	133	1	9	9	
ANALYTICAL BLANK		<.2	<5	<1	<1	<1	<1	<2	<1	<5	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<1	<.2	<1	<1	<5	<2	<1	<1	<1	<5	<20	<1	<10	<10	<1	<20	<1	<1	
ANALYTICAL BLANK		<.2	<5	<1	<1	<1	<1	<2	<1	<5	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<1	<.2	<1	<1	<5	<2	<1	<1	<1	<5	<20	<1	<10	<10	<1	<20	<1	<1	
Number of Analyses		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Mean Value		0.1	3	0.5	0.5	0.5	0.5	1	0.5	3	.005	0.005	.005	.005	.005	.005	.005	0.5	0.1	0.5	0.5	3	1	0.5	0.5	0.5	3	10	0.5	5	5	0.5	10	0.5	0.5	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		0.2	5	1	1	1	1	2	1	5	<.01	0.05	<.01	<.01	<.01	<.01	<.01	1	1.0	1	.01	2	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.005
BCC GEOCHEM STD 4		1.5	28	255	219	40	110	35	3	<5	0.89	2.81	1.19	1.42	0.06	0.16	<.01	561	1.0	8	64	<5	3	5	6	1	<5	<20	35	<10	<10	10	<20	3	9	
Number of Analyses		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		1.5	28	255	219	40	110	35	3	3	0.89	2.81	1.19	1.42	0.06	0.16	.005	561	1.0	8	64	3	3	5	6	1	3	10	35	5	5	10	10	3	9	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		0.5	30	290	255	42	80	33	4	1	0.77	2.60	1.34	1.43	0.04	0.14	0.01	600	0.8	9	55	1	2	4	7	1	12	1	39	1	0.1	9	1	4	8	



CLIENT: CYPRUS CANADA INC.

PROJECT: 5007

REPORT: C97-63745.1 (COMPLETE)

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SAMPLE NUMBER	ELEMENT UNITS	Ag	As	Cu	Zn	Ni	Cr	Pb	Mo	Sb	Al	Fe	Mg	Ca	Na	K	Ti	Mn	Cd	Co	Ba	Bi	Ga	La	Li	Nb	Sc	Sn	Sr	Ta	Te	V	W	Y	Zr	
		PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
657259		<.2	17	11	356	2	69	113	6	<5	1.21	3.37	0.03	1.18	0.52	0.62	<.01	2140	0.4	<1	151	<5	2	529	126	353	<5	<20	28	<10	<10	12	<20	107	1004	
Duplicate		<.2	16	10	340	2	67	117	7	<5	1.23	3.31	0.03	1.08	0.52	0.58	<.01	2185	0.4	<1	145	<5	4	518	120	324	<5	<20	27	<10	<10	12	<20	111	898	
657276		<.2	21	40	63	69	299	6	11	<5	1.75	3.27	1.39	0.83	0.10	0.28	0.13	354	<.2	20	76	<5	5	22	16	3	<5	<20	35	<10	<10	61	<20	6	13	
Duplicate		<.2	20	42	67	71	320	6	12	<5	1.85	3.46	1.46	0.92	0.11	0.29	0.15	376	<.2	20	80	<5	4	23	16	4	<5	<20	40	<10	<10	65	<20	7	15	
657296		<.2	<5	44	79	61	263	6	11	<5	3.38	5.12	1.77	0.69	0.19	1.51	0.21	567	<.2	23	401	<5	10	24	36	5	14	<20	54	<10	<10	103	<20	9	18	
Duplicate		<.2	<5	42	77	56	245	6	10	<5	3.14	4.74	1.65	0.64	0.17	1.40	0.20	527	<.2	22	384	<5	8	23	33	5	13	<20	52	<10	<10	98	<20	8	18	



Intertek Testing Services
Chimitec Bondar Clegg

DEC 02 1997

Rapport Lab Geochimie
Geochemical Lab Report

REPORT: C97-63746.1 (COMPLETE)

REFERENCE: -

CLIENT: CYPRUS CANADA INC.

SUBMITTED BY: D. STEVENSON

PROJECT: 5007

DATE RECEIVED: 30-OCT-97 DATE PRINTED: 11-NOV-97

DATE APPROVED	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION	EXTRACTION	METHOD	SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER	
971111	1 Ag	Silver	50	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA	DRILL CORE	50	-150	50	AS RECEIVED	50
971111	2 As	Arsenic	50	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	3 Cu	Copper	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	4 Zn	Zinc	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	5 Ni	Nickel	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	6 Cr	Chromium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	7 Pb	Lead	50	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	8 Mo	Molybdenum	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	9 Sb	Antimony	50	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	10 Al	Aluminum	50	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	11 Fe	Iron	50	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	12 Mg	Magnesium	50	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	13 Ca	Calcium	50	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	14 Na	Sodium	50	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	15 K	Potassium	50	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	16 Ti	Titanium	50	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	17 Mn	Manganese	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	18 Cd	Cadmium	50	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	19 Co	Cobalt	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	20 Ba	Barium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	21 Bi	Bismuth	50	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	22 Ga	Gallium	50	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	23 La	Lanthanum	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	24 Li	Lithium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	25 Nb	Niobium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	26 Sc	Scandium	50	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	27 Sn	Tin	50	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	28 Sr	Strontium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	29 Ta	Tantalum	50	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	30 Te	Tellurium	50	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	31 V	Vanadium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	32 W	Tungsten	50	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	33 Y	Yttrium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						
971111	34 Zr	Zirconium	50	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA						

REPORT COPIES TO: MR. DAVID B. STEVENSON

INVOICE TO: MR. DAVID B. STEVENSON

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CLIENT: CYPRUS CANADA INC.
REPORT: C97-63746.1 (COMPLETE)

PROJECT: 5007
DATE RECEIVED: 30-OCT-97 DATE PRINTED: 11-NOV-97 PAGE 1 OF 4

SAMPLE NUMBER	ELEMENT UNITS	Ag	As	Cu	Zn	Ni	Cr	Pb	Mo	Sb	Al	Fe	Mg	Ca	Na	K	Ti	Mn	Cd	Co	Ba	Bi	Ga	La	Li	Nb	Sc	Sn	Sr	Ta	Te	V	W	Y	Zr
		PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
657304	<.2	<5	19	52	18	236	<2	11	<5	1.40	2.26	0.66	0.53	0.20	0.57	0.12	201	<.2	9	136	<5	<2	7	16	<1	<5	<20	24	<10	<10	35	<20	3	5	
657305	<.2	<5	20	42	11	168	<2	6	<5	1.14	1.83	0.50	0.67	0.12	0.25	0.09	169	<.2	7	40	<5	<2	7	14	<1	<5	<20	28	<10	<10	29	<20	2	7	
657306	<.2	<5	16	39	12	205	<2	11	<5	0.81	1.72	0.41	0.55	0.14	0.23	0.07	127	<.2	6	45	<5	<2	8	11	<1	<5	<20	13	<10	<10	33	<20	3	11	
657307	<.2	<5	18	53	13	196	<2	10	<5	1.44	2.14	0.62	0.60	0.16	0.23	0.08	188	<.2	7	94	<5	3	7	13	<1	<5	<20	30	<10	<10	33	<20	2	6	
657308	<.2	<5	18	73	26	198	<2	9	<5	2.12	3.13	1.15	0.80	0.18	0.23	0.11	338	<.2	13	62	<5	4	11	21	1	<5	<20	57	<10	<10	48	<20	5	5	
657309	<.2	5	18	61	17	164	<2	8	<5	1.87	2.75	0.85	1.75	0.17	0.18	0.06	322	<.2	10	54	<5	5	6	18	2	<5	<20	66	<10	<10	29	<20	4	5	
657310	<.2	<5	12	27	14	167	<2	9	<5	1.21	2.24	0.71	1.25	0.12	0.10	0.08	265	<.2	7	22	<5	3	7	15	<1	<5	<20	36	<10	<10	27	<20	4	11	
657311	<.2	<5	19	53	12	200	<2	10	<5	1.05	1.88	0.49	0.82	0.14	0.28	0.10	198	<.2	7	50	<5	<2	9	11	1	<5	<20	30	<10	<10	30	<20	4	7	
657312	<.2	<5	17	43	11	181	<2	9	<5	1.19	1.94	0.48	0.72	0.16	0.34	0.11	191	<.2	7	61	<5	<2	7	11	<1	<5	<20	30	<10	<10	30	<20	3	5	
657313	<.2	<5	18	46	11	192	<2	9	<5	1.23	1.97	0.52	0.62	0.16	0.27	0.13	192	<.2	7	56	<5	<2	7	11	<1	<5	<20	32	<10	<10	32	<20	3	4	
657314	<.2	<5	19	40	11	196	<2	10	<5	1.11	1.83	0.50	0.53	0.13	0.26	0.11	178	<.2	7	43	<5	<2	7	11	<1	<5	<20	29	<10	<10	29	<20	2	5	
657315	<.2	<5	23	50	17	190	<2	9	<5	1.36	2.28	0.68	0.71	0.19	0.55	0.12	226	<.2	9	137	<5	<2	7	16	<1	<5	<20	24	<10	<10	38	<20	3	5	
657316	<.2	<5	19	47	18	312	<2	17	<5	1.06	2.11	0.56	0.35	0.18	0.41	0.10	193	<.2	8	148	<5	<2	8	13	<1	<5	<20	18	<10	<10	37	<20	3	10	
657317	<.2	<5	28	53	22	224	<2	12	<5	1.77	2.70	0.80	0.46	0.26	0.75	0.13	280	<.2	11	195	<5	2	10	20	<1	5	<20	30	<10	<10	46	<20	4	14	
657318	<.2	<5	22	46	19	343	<2	18	<5	1.41	2.25	0.58	0.39	0.22	0.57	0.12	169	<.2	9	158	<5	<2	8	14	<1	<5	<20	23	<10	<10	41	<20	3	10	
657319	<.2	<5	28	55	27	251	<2	12	<5	1.93	3.01	0.92	0.45	0.20	0.80	0.13	280	<.2	12	205	<5	3	12	23	<1	6	<20	31	<10	<10	52	<20	5	15	
657320	<.2	<5	40	60	44	149	3	3	<5	2.84	4.21	1.40	0.60	0.23	1.35	0.18	481	<.2	19	303	<5	<2	18	33	<1	10	<20	61	<10	<10	82	<20	8	18	
657321	<.2	<5	42	67	51	246	4	9	<5	2.75	4.73	1.56	0.52	0.14	1.09	0.20	514	<.2	21	258	<5	3	20	39	<1	11	<20	39	<10	<10	90	<20	9	20	
657322	<.2	<5	42	77	48	257	4	10	<5	2.63	4.60	1.54	0.76	0.12	0.97	0.16	524	<.2	19	213	<5	4	18	33	<1	10	<20	37	<10	<10	82	<20	8	21	
657323	<.2	<5	48	71	51	215	4	7	<5	2.94	4.80	1.42	0.82	0.16	1.08	0.18	538	<.2	21	236	<5	3	19	37	<1	10	<20	52	<10	<10	85	<20	9	15	
657324	<.2	<5	33	61	41	239	3	11	<5	2.54	3.74	1.33	0.45	0.13	1.27	0.17	413	<.2	17	253	<5	3	17	33	1	8	<20	33	<10	<10	63	<20	6	18	
657325	<.2	<5	43	65	49	273	3	10	<5	2.76	4.45	1.39	0.39	0.16	1.38	0.19	487	<.2	20	328	<5	3	18	37	<1	11	<20	36	<10	<10	83	<20	7	18	
657326	<.2	<5	42	60	47	266	3	10	<5	2.96	4.64	1.31	0.64	0.18	1.34	0.18	494	<.2	19	282	<5	3	17	40	<1	10	<20	43	<10	<10	82	<20	8	16	
657327	<.2	<5	28	51	33	194	3	8	<5	2.09	3.07	1.14	0.46	0.10	0.87	0.13	365	<.2	14	184	<5	2	14	30	1	6	<20	25	<10	<10	47	<20	6	16	
657328	<.2	<5	40	64	47	226	2	8	<5	2.57	4.37	1.39	0.46	0.12	0.84	0.17	492	<.2	19	198	<5	3	18	33	<1	10	<20	32	<10	<10	82	<20	8	17	
657329	<.2	<5	39	53	43	195	3	6	<5	2.36	4.28	1.24	0.93	0.11	0.66	0.12	466	<.2	17	141	<5	4	15	27	<1	8	<20	37	<10	<10	70	<20	8	15	
657330	<.2	<5	41	61	45	244	3	9	<5	2.66	4.45	1.29	0.60	0.15	1.04	0.17	452	<.2	18	217	<5	3	16	33	<1	10	<20	39	<10	<10	80	<20	7	16	
657331	<.2	<5	33	57	41	224	2	7	<5	2.29	3.86	1.30	0.39	0.12	0.94	0.16	463	<.2	17	204	<5	2	16	26	<1	9	<20	23	<10	<10	73	<20	7	18	
657332	<.2	<5	38	67	42	255	2	11	<5	2.47	4.04	1.23	0.43	0.14	1.08	0.17	435	<.2	17	231	<5	3	15	29	<1	9	<20	23	<10	<10	71	<20	7	17	
657333	<.2	<5	12	47	14	183	<2	10	<5	1.38	2.16	0.73	0.43	0.13	0.44	0.10	211	<.2	8	76	<5	3	7	16	<1	<5	<20	20	<10	<10	31	<20	3	8	

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Intertek Testing Services

Chimitec Bondar Clegg

Rapport Lab Geochimie

Geochemical Lab Report

CLIENT: CYPRUS CANADA INC.

PROJECT: 5007

REPORT: C97-63746.1 (COMPLETE)

DATE RECEIVED: 30-OCT-97

DATE PRINTED: 11-NOV-97

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SAMPLE NUMBER	ELEMENT	Ag	As	Cu	Zn	Ni	Cr	Pb	Mo	Sb	Al	Fe	Mg	Ca	Na	K	Ti	Mn	Cd	Co	Ba	Bi	Ga	La	Li	Nb	Sc	Sn	Sr	Ta	Te	V	W	Y	Zr
		UNITS	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
657334		<.2	<5	11	22	11	181	<2	10	<5	1.06	1.79	0.41	1.91	0.10	0.28	0.01	261	<.2	5	63	<5	3	5	7	1	<5	<20	43	<10	<10	14	<20	3	4
657335		<.2	<5	11	44	9	164	<2	8	<5	1.48	1.92	0.49	1.30	0.14	0.25	0.04	202	<.2	6	71	<5	4	6	12	<1	<5	<20	49	<10	<10	17	<20	3	2
657336		<.2	<5	5	30	7	157	<2	9	<5	1.17	1.73	0.33	2.40	0.08	0.31	<.01	314	<.2	5	50	<5	4	6	8	2	<5	<20	32	<10	<10	12	<20	3	2
657337		<.2	<5	11	16	6	156	<2	8	<5	1.21	1.61	0.24	3.48	0.06	0.33	<.01	281	<.2	4	35	<5	3	4	6	2	<5	<20	47	<10	<10	6	<20	2	1
657338		<.2	<5	4	7	6	169	<2	9	<5	0.77	1.11	0.43	4.18	0.05	0.29	<.01	795	<.2	2	27	<5	<2	7	2	2	<5	<20	43	<10	<10	5	<20	5	2
657339		<.2	<5	19	33	9	143	<2	7	<5	1.23	1.60	0.23	2.64	0.05	0.34	<.01	256	<.2	6	27	<5	3	6	7	1	<5	<20	32	<10	<10	7	<20	3	2
657340		<.2	8	12	28	11	130	<2	10	<5	0.85	1.23	0.16	3.59	0.09	0.30	<.01	369	<.2	10	23	<5	3	7	5	2	<5	<20	37	<10	<10	11	<20	6	4
657341		<.2	<5	15	42	9	86	<2	6	<5	1.51	2.18	0.39	2.39	0.08	0.27	<.01	237	<.2	8	29	<5	6	5	13	2	<5	<20	28	<10	<10	14	<20	4	3
657342		<.2	<5	18	46	12	182	<2	14	<5	1.09	1.93	0.58	1.54	0.12	0.32	0.06	248	<.2	7	68	<5	4	6	12	<1	<5	<20	38	<10	<10	28	<20	4	4
657343		<.2	<5	18	67	20	133	<2	8	<5	1.78	2.95	1.03	1.00	0.13	0.67	0.10	339	<.2	11	109	<5	5	8	25	<1	5	<20	30	<10	<10	48	<20	4	7
657344		<.2	<5	53	68	60	174	6	8	<5	2.20	3.99	1.54	1.18	0.10	0.62	0.07	436	<.2	17	113	<5	8	17	35	<1	9	<20	40	<10	<10	73	<20	8	16
657345		<.2	15	39	63	145	277	9	5	<5	2.33	3.56	2.58	1.94	0.10	0.33	0.11	509	<.2	20	61	<5	5	18	48	1	7	<20	60	<10	<10	67	<20	8	15
657346		<.2	38	18	157	152	305	7	5	<5	2.42	3.66	2.79	2.26	0.11	0.90	0.10	511	<.2	20	214	<5	4	19	68	2	8	<20	68	<10	<10	71	<20	10	22
657347		<.2	13	31	64	150	313	5	6	<5	2.90	4.04	2.96	1.07	0.13	1.81	0.18	476	<.2	23	399	<5	4	20	62	1	8	<20	48	<10	<10	77	<20	8	19
657348		<.2	<5	58	71	125	287	4	9	<5	2.86	4.45	2.74	0.88	0.13	2.09	0.20	540	<.2	24	615	<5	3	22	69	<1	12	<20	53	<10	<10	88	<20	10	21
657349		<.2	<5	60	66	121	258	4	6	<5	2.81	4.28	2.74	0.73	0.11	1.73	0.21	541	<.2	23	528	<5	3	20	53	<1	11	<20	40	<10	<10	84	<20	9	20
657350		<.2	<5	50	63	118	268	5	8	<5	2.70	3.83	2.58	0.51	0.12	1.80	0.20	493	<.2	22	446	<5	<2	18	48	<1	9	<20	42	<10	<10	79	<20	7	16
657351		<.2	<5	65	57	130	245	4	6	<5	2.57	3.90	2.60	0.98	0.12	1.46	0.17	474	<.2	23	358	<5	4	18	45	<1	9	<20	48	<10	<10	81	<20	8	16
657352		<.2	<5	93	58	139	331	5	13	<5	2.53	3.83	2.54	0.62	0.10	1.67	0.19	446	<.2	23	430	<5	<2	17	42	<1	8	<20	36	<10	<10	79	<20	7	16
657353		<.2	<5	55	58	140	315	2	7	<5	2.51	3.47	2.46	0.60	0.14	1.71	0.20	411	<.2	22	497	<5	<2	19	45	<1	<5	<20	41	<10	<10	69	<20	6	19

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Intertek Testing Services
Chimitec Bondar Clegg

Rapport Lab Geochimie
Geochemical Lab Report

CLIENT: CYPRUS CANADA INC.
REPORT: C97-63746.1 (COMPLETE)

PROJECT: 5007
DATE RECEIVED: 30-OCT-97 DATE PRINTED: 11-NOV-97 PAGE 3 OF 4

STANDARD NAME	ELEMENT UNITS	Ag	As	Cu	Zn	Ni	Cr	Pb	Mo	Sb	Al	Fe	Mg	Ca	Na	K	Ti	Mn	Cd	Co	Ba	Bi	Ga	La	Li	Nb	Sc	Sn	Sr	Ta	Te	V	W	Y	Zr			
		PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM		
BCC GEOCHEM STD 4		1.9	24	256	212	36	112	29	3	<5	0.90	2.84	1.08	1.27	0.06	0.17	<.01	510	0.8	8	64	<5	2	2	6	<1	<5	<20	36	<10	<10	8	<20	3	11			
Number of Analyses		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Mean Value		1.9	24	256	212	36	112	29	3	3	0.90	2.84	1.08	1.27	0.06	0.17	.005	510	0.8	8	64	3	2	2	6	0.5	3	10	36	5	5	8	10	3	11			
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Accepted Value		0.5	30	290	255	42	80	33	4	1	0.77	2.60	1.34	1.43	0.04	0.14	0.01	600	0.8	9	55	1	2	4	7	1	12	1	39	1	0.1	9	1	4	8			
ANALYTICAL BLANK		<.2	<5	<1	<1	<1	<1	<2	<1	<5	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<1	<.2	<1	<1	<5	<2	<1	<1	<1	<5	<20	<1	<10	<10	<1	<20	<1	<1			
ANALYTICAL BLANK		<.2	<5	<1	<1	<1	<1	<2	<1	<5	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<1	<.2	<1	<1	<5	<2	<1	1	<1	<5	<20	<1	<10	<10	<1	<20	<1	<1			
Number of Analyses		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
Mean Value		0.1	3	0.5	0.5	0.5	0.5	1	0.5	3	.005	.005	.005	.005	.005	.005	.005	0.5	0.1	0.5	0.5	3	1	0.5	0.8	0.5	3	10	0.5	5	5	0.5	10	0.5	0.5			
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Accepted Value		0.2	5	1	1	1	1	2	1	5	<.01	0.05	<.01	<.01	<.01	<.01	<.01	1	1.0	1	.01	2	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01		
BCC GEOCHEM STD 6		0.2	128	127	122	121	149	15	2	<5	1.62	6.33	2.40	3.69	<.01	0.05	<.01	1280	<.2	26	6	<5	5	<1	22	2	7	<20	76	<10	<10	41	<20	3	4			
Number of Analyses		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Mean Value		0.2	128	127	122	121	149	15	2	3	1.62	6.33	2.40	3.69	.005	0.05	.005	1280	0.1	26	6	3	5	0.5	22	2	7	10	76	5	5	41	10	3	4			
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Accepted Value		0.2	-	140	140	135	170	18	4	-	1.80	6.50	2.70	4.00	0.01	0.04	.003	1450	0.2	35	6	1	-	-	24	-	6	5	70	1	-	50	12	3	5			



CLIENT: CYPRUS CANADA INC.
 REPORT: C97-63746.1 (COMPLETE)

PROJECT: 5007
 DATE RECEIVED: 30-OCT-97 DATE PRINTED: 11-NOV-97 PAGE 4 OF 4

SAMPLE NUMBER	ELEMENT UNITS	Ag	As	Cu	Zn	Ni	Cr	Pb	Mo	Sb	Al	Fe	Mg	Ca	Na	K	Ti	Mn	Cd	Co	Ba	Bi	Ga	La	Li	Nb	Sc	Sn	Sr	Ta	Te	V	W	Y	Zr
657310		<.2	<5	12	27	14	167	<2	9	<5	1.21	2.24	0.71	1.25	0.12	0.10	0.08	265	<.2	7	22	<5	3	7	15	<1	<5	<20	36	<10	<10	27	<20	4	11
Duplicate		<.2	<5	11	24	13	164	<2	9	<5	1.35	2.20	0.70	1.29	0.13	0.10	0.08	251	<.2	7	21	<5	3	7	14	2	<5	<20	36	<10	<10	26	<20	4	11
657327		<.2	<5	28	51	33	194	3	8	<5	2.09	3.07	1.14	0.46	0.10	0.87	0.13	365	<.2	14	184	<5	2	14	30	1	6	<20	25	<10	<10	47	<20	6	16
Duplicate		<.2	<5	29	52	34	205	3	8	<5	2.19	3.17	1.17	0.49	0.11	0.92	0.14	379	<.2	14	191	<5	3	15	31	1	6	<20	27	<10	<10	49	<20	6	18
657347		<.2	13	31	64	150	313	5	6	<5	2.90	4.04	2.96	1.07	0.13	1.81	0.18	476	<.2	23	399	<5	4	20	62	1	8	<20	48	<10	<10	77	<20	8	19
Duplicate		<.2	13	31	65	152	317	4	6	<5	2.90	4.00	2.96	1.06	0.12	1.82	0.18	476	<.2	24	403	<5	4	20	61	<1	8	<20	48	<10	<10	78	<20	8	19

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D'ANALYSE

REPORT: C97-60624.0 (COMPLETE)

REFERENCE: SHIP-4

CLIENT: CYPRUS CANADA INC.

SUBMITTED BY: DAVID STEVENSON

PROJECT: 5007

DATE PRINTED: 27-MAR-97

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	AU30 GOLD FIRE ASSAY-AA	55	5 PPB	Fire Assay of 30g	30g Fire Assay - AA

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
DRILL CORE	55	-150	55	CRUSH/SPLIT & PULV.	55

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CLIENT: CYPRUS CANADA INC.
 REPORT: C97-60624.0 (COMPLETE)

PROJECT: 5007
 DATE PRINTED: 27-MAR-97 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
656189		<5	656229		<5
656190		<5	656230		<5
656191		<5	656231		<5
656192		<5	656232		<5
656193		<5	656233		<5
656194		6	656234		<5
656195		<5	656235		<5
656196		12	656236		<5
656197		7	656237		<5
656198		<5	656238		<5
656199		<5	656239		<5
656200		<5	656240		<5
656201		<5	656241		<5
656202		<5	656242		8
656203		<5	656243		<5
656204		<5			
656205		<5			
656206		<5			
656207		<5			
656208		<5			
656209		<5			
656210		<5			
656211		<5			
656212		31			
656213		<5			
656214		<5			
656215		<5			
656216		<5			
656217		<5			
656218		<5			
656219		<5			
656220		<5			
656221		<5			
656222		<5			
656223		<5			
656224		<5			
656225		<5			
656226		<5			
656227		<5			
656228		<5			

SK97-03

SK97-01

SK97-02

SK97-03

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CLIENT: CYPRUS CANADA INC.

PROJECT: 5007

REPORT: C97-60624.0 (COMPLETE)

DATE PRINTED: 27-MAR-97

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STANDARD NAME	ELEMENT UNITS	AU30 PPB	STANDARD NAME	ELEMENT UNITS	AU30 PPB
---------------	---------------	----------	---------------	---------------	----------

ANALYTICAL BLANK		<5			
ANALYTICAL BLANK		<5			
ANALYTICAL BLANK		<5			
Number of Analyses		3			
Mean Value		2.5			

Standard Deviation		0.00			
Accepted Value		5			

CERT. AU STANDARD		8287			
Number of Analyses		1			
Mean Value		8287.4			
Standard Deviation		-			
Accepted Value		8560			

Gold Tailings		264			
Number of Analyses		1			
Mean Value		263.8			
Standard Deviation		-			
Accepted Value		263			

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REPORT: C97-60624.0 (COMPLETE)

PROJECT: 5007
DATE PRINTED: 27-MAR-97 PAGE 3

SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
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SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
------------------	------------------	-------------

656193		<5
Duplicate		<5

656215		<5
Duplicate		<5

656237		<5
Duplicate		<5

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REPORT: C97-60707.0 (COMPLETE)

REFERENCE: SHIP-5

CLIENT: CYPRUS CANADA INC.

SUBMITTED BY: DAVID STEVENSON

PROJECT: 5007

DATE PRINTED: 9-APR-97

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	AU30 GOLD FIRE ASSAY-AA	43	5 PPB	Fire Assay of 30g	30g Fire Assay - AA
2	AuGrav Gold (Grav.)	1	0.17 G/T	FIRE ASSAY	FIRE ASSAY

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
DRILL CORE	43	-150	43	CRUSH/SPLIT & PULV.	43

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CLIENT: CYPRUS CANADA INC.

PROJECT: 5007

REPORT: C97-60707.0 (COMPLETE)

DATE PRINTED: 9-APR-97

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SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	AuGrav G/T	SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	AuGrav G/T
656244		172		656291	<5		
656245		46		656292	<5		
656246		36		656293	<5		
656247		21					
656248		1172	1.61				
656249		20					
656250		19					
656251		47					
656252		34					
656253		18					
656254		55					
656255		37					
656256		25					
656257		16					
656258		42					
656259		40					
656260		38					
656261		34					
656262		14					
656270		11					
656271		28					
656272		<5					
656273		<5					
656274		<5					
656275		<5					
656276		6					
656277		<5					
656278		<5					
656279		7					
656280		<5					
656281		<5					
656282		<5					
656283		<5					
656284		<5					
656285		<5					
656286		<5					
656287		<5					
656288		<5					
656289		<5					
656290		<5					

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 REPORT: C97-60707.0 (COMPLETE)

PROJECT: 5007
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STANDARD NAME	ELEMENT UNITS	AU30 PPB	AuGrav G/T	STANDARD NAME	ELEMENT UNITS	AU30 PPB	AuGrav G/T
---------------	---------------	----------	------------	---------------	---------------	----------	------------

ANALYTICAL BLANK		<5	-				
ANALYTICAL BLANK		<5	-				
Number of Analyses		2	-				
Mean Value		2.5	-				
Standard Deviation		0.00	-				

Accepted Value		5	<0.01				
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CANMET CH-3		1463	-				
Number of Analyses		1	-				
Mean Value		1463.0	-				
Standard Deviation		-	-				
Accepted Value		1400	-				

CERT. AU STANDARD		8623	-				
Number of Analyses		1	-				
Mean Value		8623.1	-				
Standard Deviation		-	-				
Accepted Value		8560	8.57				

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REPORT: C97-60707.0 (COMPLETE)

PROJECT: 5007
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SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	AuGrav G/T	SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	AuGrav G/T
656251		47					
Duplicate		47					
656280		<5					
Duplicate		<5					

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D'ANALYSE

REPORT: C97-60708.0 (COMPLETE)

REFERENCE: -

CLIENT: CYPRUS CANADA INC.
PROJECT: 5007

SUBMITTED BY: DAVID STEVENSON
DATE PRINTED: 7-APR-97

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	AU30 GOLD FIRE ASSAY-AA	46	5 PPB	Fire Assay of 30g	30g Fire Assay - AA

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
DRILL CORE	46	-150	46	CRUSH/SPLIT & PULV.	46

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DATE PRINTED: 7-APR-97

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SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
656294		<5	656334		<5
656295		<5	656335		<5
656296		<5	656336		<5
656297		<5	656337		<5
656298		<5	656338		<5
656299		<5	656339		<5
656300		<5			
656301		<5			
656302		<5			
656303		<5			
656304		<5			
656305		<5			
656306		<5			
656307		<5			
656308		<5			
656309		<5			
656310		<5			
656311		<5			
656312		<5			
656313		<5			
656314		<5			
656315		<5			
656316		<5			
656317		<5			
656318		<5			
656319		<5			
656320		<5			
656321		<5			
656322		<5			
656323		<5			
656324		<5			
656325		<5			
656326		<5			
656327		<5			
656328		<5			
656329		<5			
656330		<5			
656331		<5			
656332		<5			
656333		<5			

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REPORT: C97-60708.0 (COMPLETE)

PROJECT: 5007
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STANDARD NAME	ELEMENT UNITS	AU30 PPB
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STANDARD NAME	ELEMENT UNITS	AU30 PPB
------------------	------------------	-------------

ANALYTICAL BLANK		<5
ANALYTICAL BLANK		<5
Number of Analyses		2
Mean Value		2.5
Standard Deviation		0.00

Accepted Value		5
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CERT. AU STANDARD		8614
Number of Analyses		1
Mean Value		8614.0
Standard Deviation		-
Accepted Value		8560

Gold Tailings		250
Number of Analyses		1
Mean Value		250.0
Standard Deviation		-
Accepted Value		263

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REPORT: C97-60708.0 (COMPLETE)

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SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
656302		<5			
Duplicate		<5			
656324		<5			
Duplicate		<5			

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D'ANALYSE

REPORT: C97-60747.0 (COMPLETE)

REFERENCE: -

CLIENT: CYPRUS CANADA INC.

SUBMITTED BY: DAVID STEVENSON

PROJECT: 5007

DATE PRINTED: 9-APR-97

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD	
1	AU30	GOLD FIRE ASSAY-AA	40	5 PPB	Fire Assay of 30g	30g Fire Assay - AA

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
DRILL CORE	40	-150	40	CRUSH/SPLIT & PULV.	40

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REPORT: C97-60747.0 (COMPLETE)

PROJECT: 5007
DATE PRINTED: 9-APR-97 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
------------------	------------------	-------------

656340		<5
656341		<5
656342		<5
656343		<5
656344		<5

656345		<5
656346		<5
656347		<5
656348		<5
656349		<5

656350		20
656351		14
656352		<5
656353		<5
656354		12

656355		49
656356		7
656357		<5
656358		7
656359		<5

656360		<5
656361		<5
656362		<5
656363		<5
656364		<5

656365		5
656366		<5
656367		<5
656368		<5
656369		<5

656370		<5
656371		<5
656372		<5
656373		36
656374		<5

SKG 06

656375		<5
656376		<5
656377		<5
656378		<5
656379		<5

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PROJECT: 5007
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STANDARD NAME	ELEMENT UNITS	AU30 PPB
------------------	------------------	-------------

ANALYTICAL BLANK		<5
ANALYTICAL BLANK		<5
Number of Analyses		2
Mean Value		2.5
Standard Deviation		0.00

Accepted Value		5
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CANMET CH-3		1356
Number of Analyses		1
Mean Value		1355.8
Standard Deviation		-
Accepted Value		1400

CERT. AU STANDARD		8399
Number of Analyses		1
Mean Value		8398.7
Standard Deviation		-
Accepted Value		8560

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REPORT: C97-60747.0 (COMPLETE)

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SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
656347		<5
Duplicate		<5
656369		<5
Duplicate		<5

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REPORT: C97-60706.0 (COMPLETE)

REFERENCE: SHIP-5

CLIENT: CYPRUS CANADA INC.

SUBMITTED BY: DAVID STEVENSON

PROJECT: 5007

DATE PRINTED: 4-APR-97

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	AU30 GOLD FIRE ASSAY-AA	7	5 PPB	Fire Assay of 30g	30g Fire Assay - AA
2	AuGrav Gold (Grav.)	4	0.17 G/T	FIRE ASSAY	FIRE ASSAY

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
DRILL CORE	7	-150	7	CRUSH/SPLIT & PULV.	7

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SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	AuGrav G/T
656263		49	
656264		1963	2.57
656265		2085	2.85
656266		1266	2.33
656267		3886	4.39

SK-97-04

656268		784	
656269		139	

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REPORT: C97-60706.2 (COMPLETE)

REFERENCE: SHIP-5

CLIENT: CYPRUS CANADA INC.

SUBMITTED BY: DAVID STEVENSON

PROJECT: 5007

DATE PRINTED: 4-APR-97

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au30 Gold	7	5 PPB	Fire Assay of 30g	30g Fire Assay - AA
2	AuGrav Gold (Grav.)	4	0.17 G/T	FIRE ASSAY	FIRE ASSAY

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
DRILL CORE	7	-150	7	PULVERIZATION	7

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REPORT: C97-60706.2 (COMPLETE)

PROJECT: 5007
DATE PRINTED: 4-APR-97 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	AuGrav G/T	
656263		44		
656264		2131	1.95	
656265		2135	1.82	
656266		1152	0.89	SK97-04
656267		4044	3.33	

656268		575		
656269		137		

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REPORT: C97-60706.2 (COMPLETE)

PROJECT: 5007
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SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	AuGrav G/T
------------------	------------------	-------------	---------------

656269		137	
Duplicate		142	

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REPORT: C97-60813.0 (COMPLETE)

REFERENCE: SHIP-6

CLIENT: CYPRUS CANADA INC.
PROJECT: 5007

SUBMITTED BY: DAVID STEVENSON
DATE PRINTED: 17-APR-97

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	AU30 GOLD FIRE ASSAY-AA	50	5 PPB	Fire Assay of 30g	30g Fire Assay - AA

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
DRILL CORE	50	-150	50	CRUSH/SPLIT & PULV.	50

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SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
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SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
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656418		<5
656419		<5
656420		15
656421		<5
656422		15

656458		61
656459		<5
656460		<5
656461		<5
656462		<5

656423		71
656424		109
656425		83
656426		85
656427		24

656463		<5
656464		7
656465		44
656466		36
656467		42

656428		50
656429		21
656430		23
656431		19
656432		9

656433		6
656434		123
656435		141
656436		44
656437		8

656438		<5
656439		<5
656440		<5
656441		7
656442		5

656443		14
656444		<5
656445		10
656446		12
656447		13

656448		6
656449		<5
656450		<5
656451		6
656452		<5

656453		37
656454		<5
656455		<5
656456		<5
656457		<5

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STANDARD	ELEMENT	AU30
NAME	UNITS	PPB

STANDARD	ELEMENT	AU30
NAME	UNITS	PPB

ANALYTICAL BLANK		<5
ANALYTICAL BLANK		<5
ANALYTICAL BLANK		<5
Number of Analyses		3
Mean Value		2.5

Standard Deviation		0.00
Accepted Value		5

Gold Tailings		272
Gold Tailings		256
Number of Analyses		2
Mean Value		264.0
Standard Deviation		11.31

Accepted Value		263
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CANMET CH-3		1389
Number of Analyses		1
Mean Value		1389.0
Standard Deviation		-
Accepted Value		1400

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Fax: (819) 825-0256



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CLIENT: CYPRUS CANADA INC.

PROJECT: 5007

REPORT: C97-60813.0 (COMPLETE)

DATE PRINTED: 17-APR-97

PAGE 3

SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
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SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
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656421		<5
Duplicate		6

656443		14
Duplicate		7

656465		44
Duplicate		40

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REPORT: C97-60814.0 (COMPLETE)

REFERENCE: SHIP-6

CLIENT: CYPRUS CANADA INC.

SUBMITTED BY: DAVID STEVENSON

PROJECT: 5007

DATE PRINTED: 15-APR-97

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	AU30 GOLD FIRE ASSAY-AA	35	5 PPB	Fire Assay of 30g	30g Fire Assay - AA

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
DRILL CORE	35	-150	35	CRUSH/SPLIT & PULV.	35

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CLIENT: CYPRUS CANADA INC.

PROJECT: 5007

REPORT: C97-60814.0 (COMPLETE)

DATE PRINTED: 15-APR-97

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SAMPLE NUMBER	ELEMENT UNITS	AJ30 PPB
------------------	------------------	-------------

656468		132
656469		13
656470		33
656471		24
656472		18

656473		29
656474		35
656475		11
656476		36
656477		<5

656478		14
656479		69
656480		<5
656481		28
656482		5

656483		20
656484		<5
656485		7
656486		691
656487		35

51077-08

656488		66
656489		8
656490		<5
656491		<5
656492		<5

656493		<5
656494		<5
656495		<5
656496		<5
656497		<5

656498		43
656499		<5
656500		<5
656501		<5
656502		<5

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REPORT: C97-60814.0 (COMPLETE)

PROJECT: 5007
DATE PRINTED: 15-APR-97 PAGE 2

STANDARD	ELEMENT	AU30
NAME	UNITS	PPB

ANALYTICAL BLANK		<5
ANALYTICAL BLANK		<5
Number of Analyses		2
Mean Value		2.5
Standard Deviation		0.00

Accepted Value		5
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CANMET CH-3		1346
Number of Analyses		1
Mean Value		1346.0
Standard Deviation		-
Accepted Value		1400

Gold Tailings		244
Number of Analyses		1
Mean Value		244.0
Standard Deviation		-
Accepted Value		263

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REPORT: C97-60814.0 (COMPLETE)

PROJECT: 5007
DATE PRINTED: 15-APR-97 PAGE 3

SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
------------------	------------------	-------------

656472		18
Duplicate		6

656494		<5
Duplicate		<5



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MAY 23 1997

REPORT: C97-60847.0 (COMPLETE)

REFERENCE: SHIP-7

CLIENT: CYPRUS CANADA INC.
PROJECT: 5007

SUBMITTED BY: DAVID STEVENSON
DATE PRINTED: 21-APR-97

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	AU30 GOLD FIRE ASSAY-AA	43	5 PPB	Fire Assay of 30g	30g Fire Assay - AA
2	AuGrav Gold (Grav.)	1	0.17 G/T	FIRE ASSAY	FIRE ASSAY

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
DRILL CORE	43	-150	43	CRUSH/SPLIT & PULV.	43

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David Stevenson



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CLIENT: CYPRUS CANADA INC.
REPORT: C97-60847.0 (COMPLETE)

PROJECT: 5007
DATE PRINTED: 21-APR-97 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	AuGrav G/T	SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	AuGrav G/T
656503		248		656543		71	
656504		1116	1.37	656544		18	
656505		108		656545		17	
656506		112					
656507		180					
656508		27					
656509		17					
656510		17					
656511		5					
656512		52					
656513		17					
656514		11					
656515		9					
656516		139					
656517		14					
656518		21					
656519		14					
656520		25					
656521		9					
656522		5					
656523		13					
656524		6					
656525		12					
656526		13					
656527		8					
656528		<5					
656529		54					
656530		26					
656531		8					
656532		8					
656533		8					
656534		10					
656535		8					
656536		5					
656537		6					
656538		9					
656539		9					
656540		11					
656541		43					
656542		9					

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REPORT: C97-60847.0 (COMPLETE)

PROJECT: 5007
DATE PRINTED: 21-APR-97 PAGE 2

STANDARD NAME	ELEMENT UNITS	AU30 PPB	AuGrav G/T
ANALYTICAL BLANK		<5	-
ANALYTICAL BLANK		<5	-
Number of Analyses		2	-
Mean Value		2.5	-
Standard Deviation		0.00	-
Accepted Value		5	<0.01

STANDARD NAME	ELEMENT UNITS	AU30 PPB	AuGrav G/T
---------------	---------------	----------	------------

CANMET CH-3	1488	-
Number of Analyses	1	-
Mean Value	1488.0	-
Standard Deviation	-	-
Accepted Value	1400	-

Gold Tailings	252	-
Number of Analyses	1	-
Mean Value	252.0	-
Standard Deviation	-	-
Accepted Value	263	-



CLIENT: CYPRUS CANADA INC.
REPORT: C97-60847.0 (COMPLETE)

PROJECT: 5007
DATE PRINTED: 21-APR-97 PAGE 3

SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	AuGrav G/T	SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	AuGrav G/T
656510		17					
Duplicate		13					
656532		8					
Duplicate		7					



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MAY 23 1997

REPORT: C97-60859.0 (COMPLETE)

REFERENCE: SHIP-8

CLIENT: CYPRUS CANADA INC.
PROJECT: 5007

SUBMITTED BY: DAVID STEVENSON
DATE PRINTED: 23-APR-97

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	AU30 GOLD FIRE ASSAY-AA	41	5 PPB	Fire Assay of 30g	30g Fire Assay - AA

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
DRILL CORE	41	-150	41	CRUSH/SPLIT & PULV.	41

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CLIENT: CYPRUS CANADA INC.
REPORT: C97-60848.0 (COMPLETE)

PROJECT: 5007
DATE PRINTED: 18-APR-97 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
656546		6	656586		<5
656547		8	656587		5
656548		17	656588		9
656549		8	656589		<5
656550		20	656590		<5
656551		9			
656552		14			
656553		790			
656554		602			
656555		389			
656556		521			
656557		34			
656558		37			
656559		<5			
656560		<5			
656561		8			
656562		10			
656563		<5			
656564		<5			
656565		<5			
656566		<5			
656567		<5			
656568		<5			
656569		<5			
656570		16			
656571		10			
656572		8			
656573		6			
656574		200			
656575		186			
656576		9			
656577		<5			
656578		6			
656579		13			
656580		8			
656581		5			
656582		11			
656583		11			
656584		20			
656585		<5			



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REPORT: C97-60859.0 (COMPLETE)

PROJECT: 5007
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SAMPLE
NUMBER

ELEMENT
UNITS

AU30
PPB

SAMPLE
NUMBER

ELEMENT
UNITS

AU30
PPB

656591

<5

656631

57

656592

5

656593

7

656594

7

656595

21

656596

113

656597

337

656598

42

656599

88

656600

28

656601

28

656602

27

656603

98

656604

142

656605

29

656606

321

656607

15

656608

6

656609

14

656610

12

656611

23

656612

40

656613

6

656614

45

656615

27

656616

22

656617

18

656618

39

656619

17

656620

25

656621

31

656622

29

656623

<5

656624

99

656625

119

656626

22

656627

8

656628

28

656629

81

656630

10

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CLIENT: CYPRUS CANADA INC.
REPORT: C97-60859.0 (COMPLETE)

PROJECT: 5007
DATE PRINTED: 23-APR-97 PAGE 2

STANDARD NAME	ELEMENT UNITS	AU30 PPB
ANALYTICAL BLANK		<5
ANALYTICAL BLANK		<5
Number of Analyses		2
Mean Value		2.5
Standard Deviation		0.00
Accepted Value		5

STANDARD NAME	ELEMENT UNITS	AU30 PPB
---------------	---------------	----------

Gold Tailings	264
Number of Analyses	1
Mean Value	264.3
Standard Deviation	-
Accepted Value	263

CANMET CH-3	1471
Number of Analyses	1
Mean Value	1471.0
Standard Deviation	-
Accepted Value	1400



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PROJECT: 5007
 DATE PRINTED: 23-APR-97 PAGE 3

SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
656600		28			
Duplicate		31			
656622		29			
Duplicate		14			



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REPORT: C97-60860.0 (COMPLETE)

REFERENCE: SHIP-8

CLIENT: CYPRUS CANADA INC.
PROJECT: 5007

SUBMITTED BY: DAVID STEVENSON
DATE PRINTED: 24-APR-97

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	AU30 GOLD FIRE ASSAY-AA	37	5 PPB	Fire Assay of 30g	30g Fire Assay - AA
2	AuGrav Gold (Grav.)	3	0.17 G/T	FIRE ASSAY	FIRE ASSAY

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
DRILL CORE	37	-150	37	CRUSH/SPLIT & PULV.	37

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CLIENT: CYPRUS CANADA INC.
REPORT: C97-60860.0 (COMPLETE)

PROJECT: 5007
DATE PRINTED: 24-APR-97 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	AuGrav G/T
656632		18	
656633		23	
656634		75	
656635		10	
656636		23	
656637		18	
656638		131	
656639		23	
656640		40	
656641		35	
656642		1538	1.71
656643		2187	2.19
656644		2219	2.50
656645		977	
656646		360	
656647		119	
656648		50	
656649		90	
656650		71	
656651		45	
656652		199	
656653		174	
656654		12	
656655		307	
656656		207	
656657		17	
656658		12	
656659		21	
656660		15	
656661		8	
656662		11	
656663		<5	
656664		<5	
656665		8	
656666		9	
656667		5	
656668		<5	

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CLIENT: CYPRUS CANADA INC.
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PROJECT: 5007
DATE PRINTED: 24-APR-97 PAGE 2

STANDARD NAME	ELEMENT UNITS	AU30 PPB	AuGrav G/T
ANALYTICAL BLANK		<5	-
ANALYTICAL BLANK		<5	-
Number of Analyses		2	-
Mean Value		2.5	-
Standard Deviation		0.00	-
Accepted Value		5	<0.01

Gold Tailings	256	-
Number of Analyses	1	-
Mean Value	256.0	-
Standard Deviation	-	-
Accepted Value	263	-

CANMET CH-3	1588	-
Number of Analyses	1	-
Mean Value	1588.0	-
Standard Deviation	-	-
Accepted Value	1400	-



CLIENT: CYPRUS CANADA INC.
REPORT: C97-60860.0 (COMPLETE)

PROJECT: 5007
DATE PRINTED: 24-APR-97 PAGE 3

SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	AuGrav G/T
656632		18	
Duplicate		27	
656654		12	
Duplicate		7	



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MAY 20 1997

REPORT: C97-60894.0 (COMPLETE)

REFERENCE: SHIP-9

CLIENT: CYPRUS CANADA INC.
PROJECT: 5007

SUBMITTED BY: DAVID STEVENSON
DATE PRINTED: 24-APR-97

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	AU30 GOLD FIRE ASSAY-AA	40	5 PPB	Fire Assay of 30g	30g Fire Assay - AA

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
DRILL CORE	40	-150	40	CRUSH/SPLIT & PULV.	40

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CLIENT: CYPRUS CANADA INC.
REPORT: C97-60894.0 (COMPLETE)

PROJECT: 5007
DATE PRINTED: 24-APR-97 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
656669		8
656670		442
656671		10
656672		<5
656673		13
656674		15
656675		12
656676		21
656677		8
656678		85
656679		79
656680		113
656681		11
656682		23
656683		7
656684		14
656685		6
656686		<5
656687		<5
656688		8
656689		7
656690		6
656691		<5
656692		<5
656693		9
656694		184
656695		19
656696		26
656697		61
656698		368
656699		202
656700		687
656701		174
656702		32
656703		20
656704		8
656705		12
656706		51
656707		11
656708		12

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CLIENT: CYPRUS CANADA INC.
REPORT: C97-60894.0 (COMPLETE)

PROJECT: 5007
DATE PRINTED: 24-APR-97 PAGE 2

STANDARD NAME	ELEMENT UNITS	AU30 PPB
ANALYTICAL BLANK		<5
ANALYTICAL BLANK		<5
Number of Analyses		2
Mean Value		2.5
Standard Deviation		0.00
Accepted Value		5

CANMET CH-3	1339
Number of Analyses	1
Mean Value	1338.7
Standard Deviation	-
Accepted Value	1400

CERT. AU STANDARD	9152
Number of Analyses	1
Mean Value	9152.0
Standard Deviation	-
Accepted Value	8560



CLIENT: CYPRUS CANADA INC.
REPORT: C97-60894.0 (COMPLETE)

PROJECT: 5007
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SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
656673		13
Duplicate		16
656695		19
Duplicate		11



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MAY 6 1997

REPORT: C97-60895.0 (COMPLETE)

REFERENCE: SHIP-9

CLIENT: CYPRUS CANADA INC.
PROJECT: 5007

SUBMITTED BY: DAVID STEVENSON
DATE PRINTED: 24-APR-97

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	AU30 GOLD FIRE ASSAY-AA	30	5 PPB	Fire Assay of 30g	30g Fire Assay - AA

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
DRILL CORE	30	-150	30	CRUSH/SPLIT & PULV.	30

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SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
656709		47
656710		489
656711		29
656712		28
656713		24
656714		14
656715		10
656716		<5
656717		16
656718		46
656719		7
656720		575
656721		<5
656722		72
656723		<5
656724		8
656725		6
656726		6
656727		5
656728		33
656729		15
656730		15
656731		22
656732		6
656733		8
656734		41
656735		11
656736		11
656737		13
656738		7



CLIENT: CYPRUS CANADA INC.
 REPORT: C97-60895.0 (COMPLETE)

PROJECT: 5007
 DATE PRINTED: 24-APR-97 PAGE 2

STANDARD NAME	ELEMENT UNITS	AU30 PPB
ANALYTICAL BLANK		<5
ANALYTICAL BLANK		<5
Number of Analyses		2
Mean Value		2.5
Standard Deviation		0.00
Accepted Value		5

CERT. AU STANDARD	9152
Number of Analyses	1
Mean Value	9152.0
Standard Deviation	-
Accepted Value	8560

Gold Tailings	248
Number of Analyses	1
Mean Value	248.3
Standard Deviation	-
Accepted Value	263



CLIENT: CYPRUS CANADA INC.
REPORT: C97-60895.0 (COMPLETE)

PROJECT: 5007
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SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
656714		14
Duplicate		12
656736		11
Duplicate		11



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REPORT: C97-60813.1 (COMPLETE)

REFERENCE: SHIP-6

CLIENT: CYPRUS CANADA INC.
PROJECT: 5007

SUBMITTED BY: DAVID STEVENSON
DATE PRINTED: 9-MAY-97

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
DRILL CORE	45	-150	45	SAMPLES FROM STORAGE	45

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REPORT: C97-60813.1 (COMPLETE)

REFERENCE: SHIP-6

CLIENT: CYPRUS CANADA INC.

SUBMITTED BY: DAVID STEVENSON

PROJECT: 5007

DATE PRINTED: 9-MAY-97

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Ag Silver	45	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
2	As Arsenic	45	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
3	Cu Copper	45	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
4	Zn Zinc	45	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
5	Ni Nickel	45	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
6	Cr Chromium	45	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
7	Pb Lead	45	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
8	Mo Molybdenum	45	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
9	Sb Antimony	45	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
10	Al Aluminum	45	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
11	Fe Iron	45	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
12	Mg Magnesium	45	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
13	Ca Calcium	45	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
14	Na Sodium	45	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
15	K Potassium	45	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
16	Ti Titanium	45	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
17	Mn Manganese	45	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
18	Cd Cadmium	45	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
19	Co Cobalt	45	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
20	Ba Barium	45	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
21	Bi Bismuth	45	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
22	Ga Gallium	45	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
23	La Lanthanum	45	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
24	Li Lithium	45	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
25	Nb Niobium	45	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
26	Sc Scandium	45	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
27	Sn Tin	45	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
28	Sr Strontium	45	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
29	Ta Tantalum	45	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
30	Te Tellurium	45	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
31	V Vanadium	45	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
32	W Tungsten	45	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
33	Y Yttrium	45	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
34	Zr Zirconium	45	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA

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1322-B rue Harricana, Val d'Or, Québec, J9P 3X6

Tel: (819) 825-0178, Fax: (819) 825-0256



CLIENT: CYPRUS CANADA INC.
REPORT: C97-60813.1 (COMPLETE)

PROJECT: 5007
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SAMPLE NUMBER	ELEMENT UNITS	Nb PPM	Sc PPM	Sn PPM	Sr PPM	Ta PPM	Te PPM	V PPM	W PPM	Y PPM	Zr PPM
656418		7	12	<20	79	<10	<10	100	26	7	32
656419		7	9	<20	50	<10	<10	88	<20	7	30
656420		6	7	<20	53	<10	<10	83	<20	7	32
656421		5	7	<20	103	<10	<10	94	<20	5	25
656422		5	6	<20	23	<10	<10	60	<20	6	35
656423		6	<5	<20	28	<10	<10	13	22	5	24
656424		7	<5	<20	30	<10	<10	14	<20	6	24
656425		7	<5	<20	24	<10	<10	14	<20	6	21
656426		8	<5	<20	33	<10	<10	14	<20	6	26
656427		10	<5	<20	37	<10	<10	16	35	7	25
656428		9	<5	<20	43	<10	<10	32	23	6	32
656429		5	<5	<20	45	<10	<10	29	<20	6	34
656430		5	<5	<20	59	<10	<10	28	<20	6	31
656431		5	<5	<20	43	<10	<10	32	22	6	35
656432		6	<5	<20	32	<10	<10	51	<20	7	38
656433		5	<5	<20	42	<10	<10	35	<20	6	32
656434		5	<5	<20	35	<10	<10	42	<20	8	34
656435		9	<5	<20	80	<10	<10	31	<20	7	29
656436		9	<5	<20	50	<10	<10	33	39	7	31
656437		8	<5	<20	41	<10	<10	30	31	7	30
656438		7	<5	<20	42	<10	<10	34	<20	6	33
656439		8	<5	<20	50	<10	<10	43	<20	7	36
656440		6	<5	<20	34	<10	<10	18	<20	5	27
656441		5	<5	<20	35	<10	<10	15	<20	5	26
656442		7	<5	<20	32	<10	<10	18	<20	6	31
656443		6	<5	<20	36	<10	<10	17	33	5	28
656444		8	<5	<20	60	<10	<10	32	<20	6	28
656445		9	<5	<20	67	<10	<10	27	33	7	32
656446		9	<5	<20	109	<10	<10	23	23	7	29
656447		7	<5	<20	53	<10	<10	15	<20	6	25
656448		6	<5	<20	52	<10	<10	19	<20	6	25
656449		6	<5	<20	44	<10	<10	24	23	5	30
656450		5	<5	<20	35	<10	<10	30	<20	5	28
656451		6	<5	<20	37	<10	<10	38	<20	6	30
656452		8	<5	<20	38	<10	<10	44	<20	6	33
656453		11	8	<20	14	<10	<10	66	<20	10	13
656454		11	7	<20	16	<10	<10	51	<20	9	11
656455		10	9	<20	53	<10	<10	75	<20	9	4
656456		9	12	<20	26	<10	<10	97	<20	8	6
656457		13	14	<20	27	<10	<10	117	<20	10	5

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CLIENT: CYPRUS CANADA INC.
REPORT: C97-60813.1 (COMPLETE)

PROJECT: 5007
DATE PRINTED: 9-MAY-97 PAGE 2A

SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	As PPM	Cu PPM	Zn PPM	Ni PPM	Cr PPM	Pb PPM	Mo PPM	Sb PPM	Al PCT	Fe PCT	Hg PCT
656458		0.4	399	68	101	65	154	20	7	<5	3.91	5.74	1.20
656459		0.3	463	67	86	56	144	19	8	<5	3.67	5.23	1.11
656460		0.3	36	55	61	35	148	19	10	<5	3.58	5.29	1.47
656461		0.3	21	41	56	30	146	25	11	<5	4.12	4.98	1.26
656462		0.2	64	44	63	72	167	19	5	<5	3.63	4.24	1.83



CLIENT: CYPRUS CANADA INC.
REPORT: C97-60813.1 (COMPLETE)

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SAMPLE NUMBER	ELEMENT UNITS	Ca PCT	Na PCT	K PCT	Ti PCT	Mn PPM	Cd PPM	Co PPM	Ba PPM	Bi PPM	Ga PPM	La PPM	Li PPM
656458		5.09	0.33	0.46	0.21	1298	<0.2	35	35	<5	4	<1	17
656459		3.63	0.32	0.49	0.13	1215	<0.2	29	63	<5	3	2	13
656460		2.83	0.31	0.54	0.14	1296	<0.2	13	80	<5	3	4	16
656461		3.07	0.41	0.70	0.15	1505	<0.2	10	100	6	4	2	14
656462		2.26	0.31	0.46	0.14	911	<0.2	31	80	<5	5	2	14



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CLIENT: CYPRUS CANADA INC.
REPORT: C97-60813.1 (COMPLETE)

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SAMPLE NUMBER	ELEMENT UNITS	Nb PPM	Sc PPM	Sn PPM	Sr PPM	Ta PPM	Te PPM	V PPM	W PPM	Y PPM	Zr PPM
656458		17	17	<20	43	<10	<10	142	<20	13	5
656459		15	13	<20	39	<10	<10	104	23	11	6
656460		13	10	<20	33	<10	<10	88	<20	11	7
656461		10	9	<20	38	<10	<10	84	21	10	7
656462		14	12	<20	25	<10	<10	116	31	13	5



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CLIENT: CYPRUS CANADA INC.
REPORT: C97-60706.1 (COMPLETE)

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SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	As PPM	Cu PPM	Zn PPM	Ni PPM	Cr PPM	Pb PPM	Mo PPM	Sb PPM	Al PCT	Fe PCT	Mg PCT
656263		<0.2	525	39	63	32	258	20	11	16	1.27	2.12	0.82
656264		<0.2	2525	102	127	72	198	22	10	18	3.53	8.17	2.25
656265		<0.2	4039	117	105	65	180	20	9	19	3.21	7.29	2.38
656266		<0.2	2194	279	62	43	128	13	6	18	2.16	5.95	2.02
656267		0.5	7662	500	67	44	136	15	10	30	2.09	8.13	2.06
656268		<0.2	5930	133	58	95	148	14	7	25	1.59	4.62	1.90
656269		<0.2	4199	56	147	206	332	52	5	15	1.69	4.08	2.43

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CLIENT: CYPRUS CANADA INC.
REPORT: C97-60706.1 (COMPLETE)

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SAMPLE NUMBER	ELEMENT UNITS	Ca PCT	Na PCT	K PCT	Tl PCT	Mn PPM	Cd PPM	Co PPM	Ba PPM	Bi PPM	Ga PPM	La PPM	Li PPM
656263		0.38	0.08	0.79	0.09	206	1.4	14	131	<5	<2	23	14
656264		5.98	0.08	2.46	0.27	1631	24.0	32	76	8	<2	<1	36
656265		4.71	0.12	2.06	0.21	907	39.4	36	49	9	<2	<1	30
656266		3.11	0.13	1.69	0.19	503	17.3	35	103	<5	<2	<1	19
656267		3.55	0.11	0.94	0.11	568	83.3	46	56	9	<2	<1	16
656268		3.22	0.11	0.71	0.08	471	49.1	35	61	8	<2	<1	13
656269		3.30	0.05	0.40	0.06	685	24.8	48	30	6	<2	<1	13

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CLIENT: CYPRUS CANADA INC.
REPORT: C97-60706.1 (COMPLETE)

PROJECT: 5007
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SAMPLE NUMBER	ELEMENT UNITS	Nb PPM	Sc PPM	Sn PPM	Sr PPM	Ta PPM	Te PPM	V PPM	W PPM	Y PPM	Zr PPM
656263		5	<5	<20	29	<10	<10	27	<20	5	25
656264		6	26	<20	79	12	13	208	<20	7	4
656265		8	20	<20	45	10	15	186	<20	9	4
656266		6	12	<20	17	<10	12	157	<20	7	3
656267		6	12	<20	34	14	12	108	<20	7	8
656268		6	9	<20	41	<10	<10	72	<20	7	6
656269		5	7	<20	40	<10	<10	50	<20	5	3



CLIENT: CYPRUS CANADA INC.
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SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	As PPM	Cu PPM	Zn PPM	Ni PPM	Cr PPM	Pb PPM	Mo PPM	Sb PPM	Al PCT	Fe PCT	Mg PCT
656244		<0.2	539	29	57	31	367	22	16	214	1.18	2.35	0.50
656245		<0.2	661	20	50	25	346	21	16	44	0.87	1.75	0.29
656246		<0.2	569	17	49	28	235	19	12	34	0.75	1.11	0.21
656247		<0.2	55	21	50	28	328	18	14	53	1.00	1.84	0.38
656248		<0.2	925	20	52	30	260	21	14	92	0.95	1.62	0.31
656249		<0.2	109	18	47	25	291	19	12	26	0.85	1.38	0.26
656250		<0.2	51	24	44	31	283	19	17	32	0.87	1.55	0.26
656251		<0.2	89	17	35	23	284	14	13	33	0.83	1.31	0.17
656252		<0.2	102	31	60	35	194	20	10	9	1.44	2.16	0.84
656253		<0.2	49	31	53	37	238	20	12	11	1.26	2.22	0.90
656254		<0.2	85	26	65	32	160	22	9	7	1.55	1.93	0.90
656255		<0.2	208	40	64	34	208	24	11	14	1.28	1.95	0.83
656256		<0.2	55	26	59	33	210	21	11	12	1.26	1.84	0.87
656257		<0.2	629	37	69	41	176	25	10	9	1.58	2.38	1.23
656258		<0.2	191	30	54	34	206	22	12	10	1.28	1.95	0.91
656259		<0.2	889	31	65	39	175	28	10	9	1.71	2.28	1.31
656260		<0.2	932	20	46	29	254	21	14	14	0.90	1.43	0.45
656261		<0.2	263	26	73	35	158	22	9	11	1.48	2.28	1.02
656262		<0.2	106	21	46	26	221	19	13	12	0.95	1.35	0.40
656270		<0.2	254	74	102	43	132	34	13	<5	3.62	7.07	1.43
656271		<0.2	133	49	77	45	129	26	11	<5	2.73	5.85	1.48



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CLIENT: CYPRUS CANADA INC.
REPORT: C97-60707.1 (COMPLETE)

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SAMPLE NUMBER	ELEMENT UNITS	Ca PCT	Na PCT	K PCT	Ti PCT	Mn PPM	Cd PPM	Co PPM	Ba PPM	Bi PPM	Ga PPM	La PPM	Li PPM
656244		0.50	0.10	0.76	0.09	336	4.2	14	111	7	<2	12	15
656245		0.55	0.08	0.54	0.05	284	5.5	12	104	5	<2	10	9
656246		0.51	0.08	0.46	0.04	178	5.5	11	93	<5	3	12	7
656247		0.51	0.08	0.55	0.07	305	1.1	13	87	6	<2	12	12
656248		0.52	0.08	0.52	0.05	193	7.3	12	87	<5	<2	11	9
656249		0.53	0.08	0.51	0.05	253	1.5	11	95	<5	<2	13	9
656250		0.55	0.08	0.47	0.04	177	2.0	11	90	6	3	19	9
656251		0.89	0.07	0.42	0.03	217	2.3	10	72	<5	<2	6	8
656252		0.73	0.12	0.90	0.13	292	1.0	13	95	9	3	6	18
656253		0.66	0.10	0.70	0.11	260	<0.2	14	78	<5	3	11	17
656254		0.84	0.13	0.91	0.13	302	0.4	13	89	<5	5	6	17
656255		0.68	0.11	0.55	0.10	253	1.3	14	69	5	3	15	14
656256		0.88	0.11	0.75	0.11	284	0.5	12	105	6	3	5	14
656257		0.38	0.10	0.94	0.14	271	3.8	15	150	9	6	4	15
656258		0.69	0.11	0.71	0.09	252	1.1	13	101	6	3	4	14
656259		0.52	0.09	0.96	0.12	287	5.6	15	152	9	5	5	16
656260		0.53	0.12	0.46	0.05	172	7.1	12	94	<5	3	5	8
656261		0.49	0.10	0.85	0.11	256	1.9	14	156	6	3	6	15
656262		0.62	0.10	0.41	0.03	153	2.0	10	95	<5	4	10	8
656270		4.53	0.33	0.47	0.15	2127	0.4	24	59	11	<2	<1	13
656271		3.38	0.27	0.23	0.12	1465	<0.2	25	48	12	<2	<1	13



CLIENT: CYPRUS CANADA INC.
REPORT: C97-60707.1 (COMPLETE)

PROJECT: 5007
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SAMPLE NUMBER	ELEMENT UNITS	Nb PPM	Sc PPM	Sn PPM	Sr PPM	Ta PPM	Te PPM	V PPM	W PPM	Y PPM	Zr PPM
656244		5	<5	<20	31	<10	<10	21	23	6	25
656245		4	<5	<20	28	<10	<10	14	<20	5	26
656246		4	<5	<20	32	<10	<10	11	<20	5	26
656247		5	<5	<20	25	<10	<10	18	<20	6	27
656248		5	<5	<20	21	<10	<10	14	<20	6	25
656249		4	<5	<20	28	<10	<10	13	<20	5	24
656250		4	<5	<20	31	<10	<10	12	20	5	23
656251		4	<5	<20	31	<10	<10	11	<20	5	21
656252		5	<5	<20	40	<10	<10	36	<20	6	30
656253		5	<5	<20	41	<10	<10	33	29	6	30
656254		6	<5	<20	54	<10	<10	31	25	7	31
656255		6	<5	<20	45	<10	<10	26	<20	7	29
656256		6	<5	<20	45	<10	<10	30	<20	7	30
656257		4	<5	<20	26	<10	<10	35	<20	6	31
656258		4	<5	<20	31	<10	<10	29	20	5	29
656259		5	<5	<20	29	<10	<10	35	<20	6	33
656260		3	<5	<20	33	<10	<10	18	<20	4	24
656261		5	<5	<20	33	<10	<10	29	21	5	34
656262		4	<5	<20	28	<10	<10	14	<20	5	21
656270		7	10	27	34	<10	<10	72	22	11	7
656271		6	9	21	25	<10	<10	71	<20	10	5

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CLIENT: CYPRUS CANADA INC.
REPORT: C97-60847.1 (COMPLETE)

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SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT
656503		<0.2	15	10	42	22	37	11	1.2	<5	1451	177	1.56
656504		<0.2	21	42	59	18	37	12	1.7	<5	2887	1725	1.92
656505		<0.2	21	14	57	17	36	12	0.3	<5	529	611	2.16
656506		<0.2	26	12	57	12	35	13	0.3	<5	629	323	2.11
656507		<0.2	21	13	46	17	35	12	0.5	<5	669	292	1.73
656508		<0.2	18	12	51	14	31	11	0.5	<5	211	34	1.49
656509		<0.2	22	12	50	17	34	12	0.3	<5	38	22	1.58
656510		<0.2	22	13	52	12	29	11	<0.2	<5	22	18	1.91
656511		<0.2	17	11	51	16	32	11	<0.2	<5	19	17	1.97
656512		<0.2	17	12	49	12	29	11	0.4	<5	256	17	1.51
656513		<0.2	17	11	54	16	32	11	<0.2	<5	53	17	2.28
656514		<0.2	18	12	54	12	30	11	0.3	<5	30	15	1.56
656515		<0.2	19	10	42	14	30	10	0.3	<5	20	14	1.43
656516		<0.2	32	14	52	9	37	14	<0.2	<5	125	24	2.13
656517		0.3	43	10	105	12	40	15	<0.2	<5	26	13	2.42
656518		<0.2	34	11	51	10	37	14	<0.2	<5	103	19	2.07
656519		<0.2	26	10	46	11	37	13	<0.2	<5	82	17	1.97
656520		<0.2	25	9	51	6	33	13	<0.2	<5	57	14	1.96
656521		<0.2	40	8	74	10	45	17	<0.2	<5	22	11	2.69
656522		<0.2	28	8	63	9	38	15	<0.2	<5	14	10	2.34
656523		<0.2	22	8	55	12	35	13	<0.2	<5	55	9	1.94
656524		<0.2	38	8	57	11	38	14	<0.2	<5	45	9	2.26
656525		<0.2	23	9	56	13	34	13	<0.2	<5	15	9	2.01
656526		<0.2	23	13	63	10	36	14	<0.2	<5	52	11	2.26
656527		<0.2	28	8	64	13	39	14	<0.2	<5	18	12	2.30
656528		<0.2	32	9	59	12	48	16	<0.2	<5	23	12	2.77
656529		<0.2	29	11	64	14	39	14	<0.2	<5	127	10	2.26
656530		<0.2	20	9	49	13	33	11	<0.2	<5	81	8	1.68
656531		<0.2	28	19	60	13	41	13	<0.2	<5	21	11	2.16
656532		<0.2	26	25	69	10	39	14	<0.2	<5	12	9	2.35
656533		<0.2	25	10	57	12	39	15	<0.2	<5	13	9	2.20
656534		<0.2	37	9	60	9	46	16	<0.2	<5	31	10	2.83
656535		<0.2	33	12	70	13	46	16	<0.2	<5	32	10	2.60
656536		<0.2	23	10	52	10	35	12	<0.2	<5	17	9	1.94
656537		<0.2	24	9	63	11	37	13	<0.2	<5	14	11	2.09
656538		<0.2	24	9	66	10	39	14	<0.2	<5	22	13	2.45
656539		<0.2	20	9	50	12	36	12	<0.2	<5	19	13	2.08
656540		<0.2	32	11	57	8	40	15	<0.2	<5	28	10	2.53
656541		<0.2	36	14	62	13	40	14	<0.2	<5	46	13	2.38
656542		<0.2	25	12	60	10	31	11	0.2	<5	16	14	1.75



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SAMPLE NUMBER	ELEMENT UNITS	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT
656503		130	<10	82	409	14	<20	<20	27	0.89	0.21	0.13	0.04
656504		172	48	85	368	17	<20	<20	31	0.89	0.28	0.21	0.07
656505		295	18	103	323	22	<20	<20	31	1.15	0.37	0.36	0.08
656506		278	11	100	248	19	<20	<20	35	1.13	0.36	0.39	0.07
656507		173	<10	79	322	16	<20	<20	28	0.90	0.30	0.12	0.06
656508		117	<10	94	296	14	<20	<20	27	0.81	0.28	0.08	0.08
656509		205	<10	100	310	18	<20	<20	28	0.93	0.32	0.39	0.08
656510		337	<10	101	246	17	<20	<20	33	1.12	0.36	0.45	0.08
656511		333	<10	114	285	19	<20	<20	29	1.17	0.34	0.48	0.08
656512		259	<10	86	240	15	<20	<20	31	0.89	0.25	0.80	0.09
656513		281	<10	105	302	21	<20	<20	29	1.16	0.34	0.36	0.09
656514		244	<10	117	257	17	<20	<20	31	0.93	0.27	0.73	0.10
656515		211	<10	75	263	14	<20	<20	34	1.01	0.26	0.93	0.07
656516		279	<10	106	208	30	<20	<20	32	1.59	0.59	1.18	0.15
656517		323	<10	133	251	39	<20	<20	37	1.65	0.75	0.94	0.16
656518		289	<10	101	212	26	<20	<20	31	1.44	0.63	1.13	0.12
656519		259	<10	90	210	25	<20	<20	29	1.54	0.66	0.89	0.10
656520		261	<10	111	139	32	<20	<20	27	1.59	0.75	0.56	0.12
656521		302	<10	131	210	42	<20	<20	36	1.71	0.87	0.70	0.11
656522		287	<10	155	221	44	<20	<20	31	1.75	0.83	0.72	0.20
656523		227	<10	110	239	27	<20	<20	32	1.48	0.63	0.51	0.13
656524		281	<10	112	254	33	<20	<20	32	1.53	0.70	1.51	0.15
656525		302	<10	119	283	32	<20	<20	36	1.44	0.62	2.20	0.18
656526		283	<10	119	237	36	<20	<20	36	1.92	0.80	1.05	0.19
656527		237	<10	165	276	38	<20	<20	32	1.60	0.76	0.87	0.16
656528		295	<10	214	298	42	<20	<20	30	2.06	0.94	0.70	0.19
656529		305	<10	108	300	38	<20	<20	29	1.61	0.82	1.25	0.13
656530		218	<10	96	280	20	<20	<20	34	1.06	0.51	0.97	0.10
656531		317	<10	101	256	29	<20	<20	34	1.47	0.69	1.63	0.12
656532		265	<10	116	242	37	<20	<20	34	1.57	0.82	0.66	0.14
656533		251	<10	141	261	35	<20	<20	32	1.54	0.74	0.57	0.16
656534		391	<10	166	226	42	<20	<20	32	2.02	1.03	1.29	0.15
656535		297	<10	148	253	37	<20	<20	35	1.82	0.96	0.49	0.10
656536		265	<10	109	218	29	<20	<20	29	1.46	0.75	0.66	0.13
656537		281	<10	124	233	31	<20	<20	34	1.64	0.74	0.53	0.14
656538		384	<10	146	234	42	<20	<20	32	1.97	1.00	1.00	0.17
656539		281	<10	111	245	32	<20	<20	29	1.60	0.84	1.01	0.11
656540		284	<10	128	181	30	<20	<20	36	1.73	0.79	0.87	0.09
656541		296	<10	115	267	35	<20	<20	30	1.69	0.85	0.50	0.10
656542		211	<10	81	222	22	<20	<20	32	1.20	0.57	0.60	0.10

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CLIENT: CYPRUS CANADA INC.
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SAMPLE NUMBER	ELEMENT UNITS	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM
656503		0.49	13	6	<2	8	<1	<5	<10	0.02	10
656504		0.50	20	6	<2	10	<1	<5	<10	0.04	17
656505		0.62	20	6	<2	15	<1	<5	<10	0.06	24
656506		0.63	17	7	<2	14	<1	<5	<10	0.07	24
656507		0.48	15	5	<2	11	<1	<5	<10	0.04	23
656508		0.42	22	5	<2	9	<1	<5	<10	0.04	20
656509		0.56	24	5	<2	11	<1	<5	<10	0.05	25
656510		0.69	18	6	<2	14	<1	<5	<10	0.07	28
656511		0.70	24	6	<2	14	<1	<5	<10	0.08	26
656512		0.53	37	6	<2	10	<1	<5	<10	0.05	23
656513		0.65	27	6	<2	17	<1	<5	<10	0.07	26
656514		0.54	44	6	<2	11	<1	<5	<10	0.06	24
656515		0.44	41	7	<2	9	<1	<5	<10	0.03	10
656516		0.70	82	7	<2	18	<1	<5	<10	0.09	33
656517		0.99	54	8	<2	23	<1	<5	<10	0.13	39
656518		0.66	44	6	<2	19	<1	<5	<10	0.07	24
656519		0.73	43	7	<2	19	<1	<5	<10	0.08	29
656520		0.92	29	6	<2	18	<1	<5	<10	0.10	31
656521		1.12	37	9	<2	25	<1	<5	<10	0.14	40
656522		1.11	51	8	<2	21	<1	<5	<10	0.15	36
656523		0.92	38	7	<2	17	<1	<5	<10	0.11	38
656524		0.94	100	7	<2	18	<1	<5	<10	0.12	36
656525		0.87	134	7	<2	16	<1	<5	<10	0.11	34
656526		1.06	72	8	<2	22	<1	<5	<10	0.13	37
656527		0.98	79	8	<2	17	<1	<5	<10	0.11	37
656528		1.20	59	7	<2	21	<1	<5	<10	0.13	39
656529		1.02	71	7	<2	20	<1	<5	<10	0.12	35
656530		0.58	48	6	<2	12	<1	<5	<10	0.06	27
656531		0.64	63	7	<2	19	<1	<5	<10	0.05	17
656532		0.90	43	7	<2	21	<1	<5	<10	0.11	34
656533		0.89	46	7	<2	15	<1	<5	<10	0.11	36
656534		1.09	73	8	<2	21	<1	<5	<10	0.11	40
656535		1.10	32	8	<2	22	<1	<5	<10	0.13	40
656536		0.76	40	7	<2	15	<1	<5	<10	0.10	34
656537		0.89	42	8	<2	17	<1	<5	<10	0.11	37
656538		1.07	73	8	<2	23	<1	<5	<10	0.13	36
656539		0.82	49	7	<2	18	<1	<5	<10	0.09	32
656540		0.87	40	8	<2	19	<1	<5	<10	0.08	33
656541		0.92	42	6	<2	19	<1	<5	<10	0.10	35
656542		0.61	24	5	<2	13	<1	<5	<10	0.06	24

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CLIENT: CYPRUS CANADA INC.
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SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT
656543		<0.2	27	13	52	15	36	13	<0.2	<5	59	20	1.81
656544		<0.2	22	14	54	14	31	11	0.3	<5	35	16	1.62
656545		<0.2	22	10	60	12	32	11	<0.2	<5	38	12	1.80



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SAMPLE NUMBER	ELEMENT UNITS	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT
656543		187	<10	89	272	23	<20	<20	29	1.37	0.53	0.52	0.11
656544		235	<10	86	282	19	<20	<20	34	1.25	0.51	0.55	0.10
656545		246	<10	97	233	25	<20	<20	31	1.43	0.63	0.55	0.11



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SAMPLE NUMBER	ELEMENT UNITS	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM
656543		0.65	37	7	<2	14	<1	<5	<10	0.07	25
656544		0.68	34	7	<2	12	<1	<5	<10	0.07	27
656545		0.81	33	7	<2	15	<1	<5	<10	0.09	31



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SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT
656546		<0.2	27	10	54	15	34	13	<0.2	<5	44	13	1.92
656547		<0.2	22	13	52	8	30	12	<0.2	<5	60	21	1.90
656548		<0.2	25	11	62	11	33	13	<0.2	<5	44	17	2.31
656549		<0.2	37	10	59	7	37	15	<0.2	<5	46	14	2.28
656550		<0.2	29	8	56	11	36	14	<0.2	<5	26	11	2.11
656551		<0.2	27	9	55	8	29	12	<0.2	<5	56	10	1.78
656552		<0.2	30	8	51	10	31	12	<0.2	<5	101	11	1.77
656553		<0.2	66	5	76	2	76	36	<0.2	<5	6166	19	6.80
656554		<0.2	523	3	85	3	37	37	<0.2	<5	2715	12	7.83
656555		<0.2	232	<2	60	3	41	27	<0.2	<5	901	9	4.10
656556		<0.2	144	2	67	4	291	53	<0.2	<5	3500	19	4.39
656557		<0.2	61	4	51	4	74	18	<0.2	<5	80	<5	3.69
656558		<0.2	44	<2	37	7	59	18	<0.2	<5	52	<5	2.37
656559		<0.2	41	<2	47	3	57	19	<0.2	<5	39	<5	2.85
656560		<0.2	34	<2	62	8	30	19	<0.2	<5	17	6	3.88
656561		<0.2	110	2	199	3	30	23	<0.2	<5	36	7	5.70
656562		<0.2	95	<2	38	3	21	26	<0.2	<5	61	<5	3.37
656563		<0.2	103	<2	41	2	27	28	<0.2	<5	94	<5	3.61
656564		<0.2	71	<2	40	3	30	28	<0.2	<5	74	6	3.70
656565		<0.2	57	<2	35	5	25	19	<0.2	<5	<5	<5	3.37
656566		<0.2	75	<2	50	5	72	19	<0.2	<5	<5	<5	3.28
656567		<0.2	67	<2	47	4	67	18	<0.2	<5	<5	<5	3.45
656568		<0.2	95	<2	64	7	67	22	<0.2	<5	<5	<5	3.62
656569		<0.2	51	<2	42	3	55	20	<0.2	<5	12	<5	3.88
656570		<0.2	67	<2	30	1	63	32	<0.2	<5	61	5	3.39
656571		<0.2	58	<2	25	2	49	31	<0.2	<5	101	<5	2.48
656572		<0.2	50	<2	25	1	32	27	<0.2	<5	137	<5	2.76
656573		<0.2	78	<2	25	2	40	28	<0.2	<5	382	<5	3.34
656574		<0.2	21	<2	25	2	46	29	<0.2	<5	49	<5	2.82
656575		<0.2	53	<2	24	1	56	30	<0.2	<5	83	<5	2.96
656576		<0.2	36	<2	18	1	22	22	<0.2	<5	60	<5	2.74
656577		<0.2	76	<2	20	2	18	23	<0.2	<5	320	<5	2.92
656578		<0.2	58	<2	22	1	21	25	<0.2	<5	32	<5	3.20
656579		<0.2	86	<2	22	1	21	24	<0.2	<5	29	<5	3.17
656580		<0.2	45	<2	29	1	25	26	<0.2	<5	22	5	4.51
656581		<0.2	25	<2	31	1	104	40	<0.2	<5	127	<5	3.40
656582		<0.2	76	<2	31	2	56	30	<0.2	<5	68	<5	3.49
656583		<0.2	76	<2	53	2	53	29	<0.2	<5	71	6	4.54
656584		<0.2	79	<2	70	5	39	24	<0.2	<5	217	6	4.80
656585		<0.2	35	<2	53	3	53	19	<0.2	<5	36	8	3.76

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CLIENT: CYPRUS CANADA INC.
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SAMPLE NUMBER	ELEMENT UNITS	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Pb PCT
656546		268	<10	114	308	31	<20	<20	27	1.29	0.72	0.31	0.00
656547		265	<10	91	199	28	<20	<20	19	1.35	0.81	0.56	0.00
656548		309	<10	99	228	31	<20	<20	27	1.58	0.96	0.32	0.00
656549		346	<10	119	197	40	<20	<20	25	1.56	0.98	0.76	0.00
656550		271	<10	110	241	34	<20	<20	24	1.46	0.78	0.62	0.00
656551		227	<10	111	195	28	<20	<20	33	1.25	0.66	0.44	0.08
656552		211	<10	107	212	24	<20	<20	30	1.21	0.58	0.46	0.07
656553		1072	<10	77	239	172	<20	<20	2	3.21	2.82	5.92	0.05
656554		635	<10	72	102	130	<20	<20	6	2.33	2.01	3.57	0.09
656555		338	<10	55	97	76	<20	<20	6	1.72	2.02	1.36	0.13
656556		663	<10	16	415	47	<20	<20	5	1.69	2.80	3.54	0.03
656557		550	<10	86	131	57	<20	<20	10	1.49	1.30	2.55	0.16
656558		315	<10	60	183	54	<20	<20	11	1.19	1.09	1.88	0.12
656559		422	<10	122	108	61	<20	<20	10	1.59	1.35	2.05	0.18
656560		550	<10	126	183	86	<20	<20	7	2.38	1.22	2.89	0.20
656561		729	<10	19	112	114	<20	<20	6	2.69	1.95	4.27	0.06
656562		459	<10	11	119	105	<20	<20	2	1.61	1.65	2.89	0.14
656563		494	<10	9	124	108	<20	<20	2	1.76	1.64	2.80	0.17
656564		526	<10	10	131	110	<20	<20	2	2.08	1.75	2.96	0.21
656565		388	<10	79	133	100	<20	<20	6	2.16	2.22	1.89	0.14
656566		300	<10	49	158	73	<20	<20	10	1.78	1.82	1.51	0.14
656567		419	<10	28	146	72	<20	<20	10	1.73	1.68	2.03	0.15
656568		477	<10	41	161	43	<20	<20	9	1.12	1.00	2.96	0.13
656569		508	<10	7	124	80	<20	<20	7	1.85	1.77	2.77	0.17
656570		438	<10	7	193	74	<20	<20	2	2.04	2.64	2.03	0.11
656571		384	<10	8	177	57	<20	<20	1	1.56	1.96	1.83	0.14
656572		393	<10	5	110	79	<20	<20	1	1.46	1.72	2.16	0.15
656573		382	<10	40	189	86	<20	<20	2	1.99	2.00	2.27	0.14
656574		407	<10	36	196	69	<20	<20	2	1.79	2.04	2.14	0.14
656575		385	<10	28	183	67	<20	<20	2	1.78	2.19	1.85	0.11
656576		347	<10	15	92	91	<20	<20	2	1.41	1.60	2.01	0.18
656577		468	<10	25	87	97	<20	<20	2	1.29	1.33	3.08	0.17
656578		397	<10	13	110	100	<20	<20	2	1.51	1.81	2.11	0.19
656579		355	<10	39	102	92	<20	<20	2	1.48	1.75	2.26	0.17
656580		462	<10	17	133	122	<20	<20	3	2.08	2.26	2.81	0.16
656581		407	<10	7	134	57	<20	<20	2	2.23	2.95	1.85	0.08
656582		440	<10	6	153	84	<20	<20	2	2.10	2.39	2.67	0.18
656583		644	<10	28	90	112	<20	<20	2	2.56	2.20	3.28	0.19
656584		1270	<10	50	142	94	<20	<20	4	3.17	0.84	5.14	0.25
656585		843	<10	82	161	91	<20	<20	5	4.07	1.57	3.59	0.27

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Chimitec Bondar Clegg

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D'Analy

CLIENT: CYPRUS CANADA INC.
REPORT: C97-60848.1 (COMPLETE)

PROJECT: 5007
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SAMPLE NUMBER	ELEMENT UNITS	K PCT	Sr PPM	Y PPM	Ca PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM
656546		0.78	28	5	9	14	<1	<5	<10	0.09	27
656547		0.69	21	5	9	15	<1	<5	<10	0.09	24
656548		0.73	19	5	6	18	<1	<5	<10	0.08	25
656549		0.96	20	6	7	19	<1	<5	<10	0.12	26
656550		0.94	30	6	8	16	<1	<5	<10	0.11	28
656551		0.73	26	6	10	13	<1	<5	<10	0.08	27
656552		0.70	31	5	11	11	<1	<5	<10	0.06	26
656553		2.06	91	6	<2	39	<1	20	<10	0.14	1
656554		0.53	43	8	<2	21	<1	13	<10	0.09	4
656555		0.44	15	6	<2	19	<1	7	<10	0.08	15
656556		0.11	37	6	<2	16	<1	7	<10	0.03	3
656557		0.33	19	10	<2	13	<1	7	<10	0.08	12
656558		0.24	18	9	6	11	<1	6	<10	0.08	9
656559		0.47	22	9	3	13	<1	7	<10	0.11	10
656560		0.74	55	8	<2	19	<1	8	<10	0.13	3
656561		0.22	62	11	<2	42	<1	16	<10	0.02	2
656562		0.05	21	6	<2	10	<1	12	<10	0.08	1
656563		0.08	23	7	<2	12	<1	12	<10	0.08	<1
656564		0.08	32	7	<2	14	<1	13	<10	0.09	<1
656565		0.46	32	7	<2	25	<1	10	<10	0.10	6
656566		0.42	28	10	<2	22	<1	8	<10	0.10	11
656567		0.19	41	11	<2	20	<1	9	<10	0.11	9
656568		0.20	17	9	<2	11	<1	6	<10	0.10	8
656569		0.04	29	9	<2	14	<1	10	<10	0.08	6
656570		0.04	23	5	<2	16	<1	9	<10	0.05	<1
656571		0.05	18	3	5	9	<1	7	<10	0.06	<1
656572		0.03	19	4	<2	9	<1	9	<10	0.06	<1
656573		0.41	30	5	<2	17	<1	8	<10	0.09	<1
656574		0.37	26	3	3	15	<1	7	<10	0.09	<1
656575		0.31	15	4	2	16	<1	7	<10	0.08	1
656576		0.14	14	5	3	9	<1	10	<10	0.08	1
656577		0.21	18	6	<2	9	<1	11	<10	0.07	1
656578		0.13	20	6	<2	10	<1	11	<10	0.08	1
656579		0.17	21	6	<2	11	<1	11	<10	0.08	1
656580		0.21	34	8	<2	21	<1	14	<10	0.07	1
656581		0.13	17	3	<2	17	<1	6	<10	0.05	<1
656582		0.04	19	6	<2	12	<1	11	<10	0.07	1
656583		0.11	34	9	<2	18	<1	12	<10	0.08	3
656584		0.52	53	11	<2	17	<1	11	<10	0.11	5
656585		0.55	73	10	<2	15	<1	9	<10	0.11	4

ITS - Chimitec

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L. Deschamps



CLIENT: CYPRUS CANADA INC.
REPORT: C97-60848.1 (COMPLETE)

PROJECT: 5007
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SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT
656586		<0.2	50	<2	58	4	49	18	<0.2	<5	28	7	4.46
656587		<0.2	34	<2	28	2	50	22	<0.2	<5	41	<5	3.48
656588		<0.2	26	<2	37	3	66	22	<0.2	<5	55	<5	2.57
656589		<0.2	4	<2	52	3	56	19	<0.2	<5	32	<5	3.17
656590		<0.2	13	<2	51	5	11	18	<0.2	<5	7	5	4.54



CLIENT: CYPRUS CANADA INC.
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SAMPLE NUMBER	ELEMENT UNITS	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT
656586		906	<10	55	180	80	<20	<20	5	3.51	1.72	3.72	0.24
656587		343	<10	38	89	76	<20	<20	8	1.68	1.85	2.33	0.16
656588		270	<10	64	175	64	<20	<20	7	1.48	1.37	1.84	0.20
656589		360	<10	50	124	58	<20	<20	7	2.01	1.58	2.50	0.16
656590		522	<10	126	113	97	<20	<20	11	1.96	0.88	2.37	0.21



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SAMPLE NUMBER	ELEMENT UNITS	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM
656586		0.36	56	11	<2	16	<1	9	<10	0.11	5
656587		0.17	23	9	<2	10	<1	8	<10	0.11	2
656588		0.44	20	7	5	13	<1	6	<10	0.10	3
656589		0.19	25	7	<2	18	<1	6	<10	0.09	2
656590		0.56	20	15	<2	11	<1	9	<10	0.15	5

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CLIENT: CYPRUS CANADA INC.
REPORT: C97-60859.1 (COMPLETE)

PROJECT: 5007
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SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT
656591		<0.2	51	8	95	12	82	21	<0.2	<5	<5	<5	4.90
656592		<0.2	47	8	87	7	91	23	<0.2	<5	25	5	5.07
656593		<0.2	54	7	93	11	82	24	<0.2	<5	<5	<5	4.81
656594		<0.2	37	7	79	12	59	19	0.2	<5	21	9	4.45
656595		<0.2	23	17	64	16	32	12	0.2	<5	77	21	1.54
656596		<0.2	18	14	55	19	26	11	<0.2	<5	882	41	1.44
656597		0.3	20	20	50	16	27	11	<0.2	<5	1419	626	1.30
656598		0.3	24	12	57	13	29	13	<0.2	<5	36	33	1.90
656599		0.3	23	14	55	17	35	13	<0.2	<5	319	31	1.91
656600		<0.2	23	13	59	14	29	13	<0.2	<5	267	13	1.54
656601		0.3	19	9	54	14	31	12	0.2	<5	73	10	1.38
656602		0.3	23	9	54	14	27	12	<0.2	<5	1851	14	2.04
656603		<0.2	13	15	42	17	30	12	<0.2	<5	6101	42	1.49
656604		0.3	22	10	56	13	28	12	<0.2	<5	998	11	1.62
656605		0.3	22	10	62	14	33	12	<0.2	<5	22	<5	2.83
656606		<0.2	20	7	61	15	26	11	<0.2	<5	917	13	1.85
656607		0.3	22	10	78	16	31	12	<0.2	<5	37	<5	1.69
656608		0.3	32	8	71	10	39	15	<0.2	<5	11	<5	2.56
656609		<0.2	32	8	69	11	38	14	<0.2	<5	29	5	2.24
656610		<0.2	27	13	79	13	35	13	<0.2	<5	20	<5	2.42
656611		<0.2	30	10	71	12	41	15	<0.2	<5	87	8	2.48
656612		<0.2	29	11	64	11	35	14	<0.2	<5	13	6	2.31
656613		<0.2	26	5	40	9	37	13	<0.2	<5	37	<5	1.95
656614		0.2	28	8	62	12	36	14	<0.2	<5	195	8	2.30
656615		<0.2	28	9	64	11	38	13	<0.2	<5	107	<5	2.22
656616		<0.2	31	9	69	12	33	14	<0.2	<5	98	<5	2.18
656617		<0.2	25	11	64	10	34	13	<0.2	<5	41	<5	1.91
656618		<0.2	29	12	75	11	36	14	<0.2	<5	135	<5	2.46
656619		<0.2	25	9	74	12	37	14	<0.2	<5	33	7	2.15
656620		<0.2	25	13	75	17	42	14	<0.2	<5	145	6	2.63
656621		<0.2	27	11	59	20	44	14	<0.2	<5	186	10	2.43
656622		<0.2	25	10	52	16	41	15	<0.2	<5	44	8	2.28
656623		<0.2	27	8	64	16	40	14	<0.2	<5	14	7	2.52
656624		<0.2	29	9	64	14	41	14	<0.2	<5	114	10	2.24
656625		<0.2	29	10	78	17	39	14	<0.2	<5	597	<5	2.03
656626		<0.2	36	12	79	13	45	16	<0.2	<5	108	7	2.72
656627		<0.2	24	16	39	15	33	12	<0.2	<5	68	8	1.81
656628		<0.2	39	12	54	15	34	13	<0.2	<5	96	8	1.74
656629		<0.2	26	16	66	16	32	11	<0.2	<5	438	6	1.75
656630		<0.2	23	14	64	13	35	12	<0.2	<5	19	<5	2.06

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M. Seguin



Intertek Testing Services
Chimitec Bondar Clegg

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D'Analyse

CLIENT: CYPRUS CANADA INC.
REPORT: C97-60859.1 (COMPLETE)

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SAMPLE NUMBER	ELEMENT UNITS	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT
656591		744	<10	629	428	110	<20	<20	35	3.04	2.13	0.55	0.20
656592		739	<10	457	391	105	<20	<20	31	3.24	2.31	0.58	0.13
656593		604	<10	165	328	71	<20	<20	33	2.95	1.88	0.39	0.07
656594		659	<10	187	352	56	<20	<20	34	2.62	1.43	0.39	0.07
656595		221	<10	100	308	16	<20	<20	40	0.85	0.33	0.40	0.07
656596		190	<10	99	425	15	<20	<20	37	0.90	0.27	0.33	0.08
656597		169	<10	62	315	11	<20	<20	32	0.83	0.23	0.32	0.04
656598		328	<10	101	329	19	<20	<20	35	1.36	0.44	0.39	0.09
656599		324	<10	85	338	15	<20	<20	37	0.94	0.33	0.35	0.05
656600		258	<10	93	336	19	<20	<20	40	1.15	0.33	0.53	0.09
656601		253	<10	80	274	15	<20	<20	36	0.88	0.23	0.60	0.06
656602		359	<10	112	337	17	<20	<20	35	1.17	0.34	0.42	0.07
656603		213	<10	78	318	11	<20	<20	32	0.76	0.24	0.36	0.04
656604		265	<10	137	319	17	<20	<20	31	1.09	0.36	0.39	0.10
656605		604	<10	136	273	23	<20	<20	35	1.44	0.49	0.64	0.07
656606		384	<10	79	391	17	<20	<20	33	1.26	0.29	0.70	0.08
656607		254	<10	106	306	20	<20	<20	36	1.03	0.41	0.53	0.07
656608		419	<10	106	268	37	<20	<20	36	1.60	0.93	0.66	0.09
656609		325	<10	106	237	31	<20	<20	37	1.55	0.82	0.52	0.09
656610		415	<10	99	339	42	<20	<20	37	1.85	0.94	1.17	0.16
656611		375	<10	139	268	42	<20	<20	37	1.55	1.03	0.52	0.09
656612		344	<10	166	270	35	<20	<20	34	1.61	0.93	0.45	0.12
656613		282	<10	99	222	31	<20	<20	36	1.31	0.83	0.53	0.10
656614		316	<10	135	307	34	<20	<20	36	1.55	0.85	0.45	0.13
656615		349	<10	92	248	34	<20	<20	34	1.67	0.97	0.60	0.12
656616		331	<10	103	324	35	<20	<20	38	1.73	0.88	0.63	0.13
656617		284	<10	115	214	30	<20	<20	37	1.25	0.78	0.52	0.09
656618		368	<10	135	315	38	<20	<20	39	1.64	0.98	0.64	0.12
656619		305	<10	129	270	34	<20	<20	39	1.35	0.85	0.53	0.09
656620		380	<10	110	356	46	<20	<20	37	1.52	1.06	0.67	0.08
656621		329	<10	121	376	38	<20	<20	36	1.22	0.88	0.51	0.07
656622		308	<10	121	324	33	<20	<20	32	1.21	0.75	1.11	0.07
656623		345	<10	134	312	42	<20	<20	37	1.40	0.99	0.54	0.08
656624		340	<10	104	283	26	<20	<20	32	1.65	0.89	1.02	0.05
656625		322	<10	101	309	28	<20	<20	28	1.95	0.83	0.82	0.10
656626		401	<10	78	274	39	<20	<20	41	1.60	1.12	0.61	0.07
656627		270	<10	68	275	23	<20	<20	31	1.17	0.68	0.59	0.07
656628		223	<10	69	283	20	<20	<20	44	1.12	0.53	0.43	0.07
656629		257	<10	95	303	23	<20	<20	30	1.13	0.61	0.38	0.10
656630		343	<10	109	284	35	<20	<20	33	1.37	0.91	0.39	0.11

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CLIENT: CYPRUS CANADA INC.
REPORT: C97-60859.1 (COMPLETE)

PROJECT: 5007
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SAMPLE NUMBER	ELEMENT UNITS	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM
656591		1.75	42	6	11	47	1	11	<10	0.26	28
656592		1.59	36	6	10	35	1	11	<10	0.24	28
656593		1.51	14	4	8	52	1	6	<10	0.15	22
656594		1.35	24	5	7	25	1	<5	<10	0.16	29
656595		0.56	28	5	3	10	<1	<5	<10	0.06	27
656596		0.50	36	5	3	7	<1	<5	<10	0.05	26
656597		0.53	21	5	2	9	<1	<5	<10	0.03	22
656598		0.88	38	6	3	16	<1	<5	<10	0.08	29
656599		0.56	24	6	2	8	<1	<5	<10	0.06	29
656600		0.69	36	6	4	10	<1	<5	<10	0.07	20
656601		0.47	29	5	2	8	<1	<5	<10	0.05	15
656602		0.67	26	6	3	10	<1	<5	<10	0.06	28
656603		0.41	19	5	3	6	<1	<5	<10	0.03	30
656604		0.67	30	5	3	10	<1	<5	<10	0.06	29
656605		0.84	34	6	4	14	<1	<5	<10	0.10	27
656606		0.72	54	6	2	10	<1	<5	<10	0.06	27
656607		0.70	48	6	3	13	<1	<5	<10	0.07	30
656608		1.04	49	6	5	20	<1	<5	<10	0.14	30
656609		1.01	39	6	5	20	<1	<5	<10	0.12	32
656610		0.83	83	6	6	17	<1	<5	<10	0.15	27
656611		0.87	45	6	5	14	<1	<5	<10	0.15	32
656612		0.92	47	5	6	16	<1	<5	<10	0.14	29
656613		0.74	37	6	5	17	<1	<5	<10	0.13	29
656614		0.89	50	6	5	14	<1	<5	<10	0.13	33
656615		0.86	51	6	5	15	<1	<5	<10	0.13	28
656616		0.91	53	6	6	15	<1	<5	<10	0.13	30
656617		0.72	40	6	4	14	<1	<5	<10	0.12	30
656618		0.96	48	7	6	21	<1	<5	<10	0.14	27
656619		0.81	41	6	6	14	<1	<5	<10	0.12	32
656620		0.70	54	6	4	14	<1	<5	<10	0.15	30
656621		0.57	40	6	3	10	<1	<5	<10	0.12	32
656622		0.48	52	6	4	9	<1	<5	<10	0.08	31
656623		0.70	40	6	5	12	<1	<5	<10	0.15	32
656624		0.62	60	6	4	12	<1	<5	<10	0.09	28
656625		0.70	112	5	5	13	<1	<5	<10	0.11	23
656626		0.47	49	7	6	13	<1	<5	<10	0.15	31
656627		0.44	44	6	4	8	<1	<5	<10	0.10	25
656628		0.66	41	6	3	9	<1	<5	<10	0.09	27
656629		0.75	37	6	4	10	<1	<5	<10	0.09	28
656630		0.99	41	5	5	15	<1	<5	<10	0.14	27

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A. Berger



CLIENT: CYPRUS CANADA INC.
REPORT: C97-60859.1 (COMPLETE)

PROJECT: 5007
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SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT
656631		<0.2	29	12	60	15	39	13	<0.2	<5	219	6	2.12

me Berger



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CLIENT: CYPRUS CANADA INC.
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SAMPLE NUMBER	ELEMENT UNITS	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT
656631		294	<10	105	286	30	<20	<20	32	1.39	0.82	0.42	0.07

M. Berger



CLIENT: CYPRUS CANADA INC.
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SAMPLE NUMBER	ELEMENT UNITS	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM
656631		0.85	37	6	4	10	<1	<5	<10	0.11	32



CLIENT: CYPRUS CANADA INC.
REPORT: C97-60860.1 (COMPLETE)

PROJECT: 5007
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SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT
656632		<0.2	23	18	62	14	27	11	<0.2	<5	93	7	1.56
656633		<0.2	27	20	55	14	33	12	<0.2	<5	120	12	1.96
656634		<0.2	37	21	65	10	37	15	<0.2	7	115	11	2.18
656635		<0.2	30	18	74	14	39	14	<0.2	5	97	9	2.33
656636		<0.2	31	22	66	14	37	13	<0.2	<5	88	10	2.09
656637		<0.2	36	22	81	14	41	15	<0.2	<5	98	13	2.45
656638		<0.2	34	20	61	14	38	14	<0.2	7	170	23	2.16
656639		<0.2	36	20	62	13	39	15	<0.2	5	134	17	2.41
656640		<0.2	22	19	50	13	28	11	<0.2	6	127	13	1.66
656641		<0.2	39	26	76	16	42	14	<0.2	7	250	20	2.36
656642		<0.2	80	16	89	9	54	32	<0.2	8	9373	17	6.17
656643		<0.2	99	20	90	10	66	35	<0.2	7	8281	17	6.60
656644		<0.2	521	11	62	11	42	32	<0.2	17	3927	21	8.13
656645		<0.2	322	8	40	8	28	43	<0.2	10	3697	14	3.49
656646		<0.2	141	8	32	6	113	47	<0.2	8	9072	24	3.90
656647		<0.2	33	11	27	5	164	39	<0.2	8	2081	11	3.28
656648		<0.2	20	16	39	5	253	54	<0.2	<5	955	13	3.64
656649		<0.2	36	18	40	4	322	65	<0.2	7	1347	15	3.74
656650		<0.2	38	8	35	5	305	67	<0.2	8	4698	23	3.76
656651		<0.2	22	8	42	3	534	84	<0.2	6	1499	23	2.85
656652		<0.2	68	17	244	12	118	31	0.5	9	850	11	4.85
656653		<0.2	48	16	75	9	64	20	<0.2	6	195	<5	3.64
656654		<0.2	50	23	123	10	47	18	<0.2	7	191	6	4.31
656655		<0.2	127	17	53	10	28	33	<0.2	9	6489	5	4.14
656656		<0.2	110	16	43	9	26	32	<0.2	7	3544	8	3.05
656657		<0.2	112	16	50	6	27	32	<0.2	8	238	6	3.28
656658		<0.2	96	18	49	8	21	26	<0.2	8	115	<5	3.51
656659		<0.2	195	17	35	5	25	27	<0.2	10	125	5	2.81
656660		<0.2	110	23	34	6	40	29	<0.2	7	144	<5	2.87
656661		<0.2	78	17	39	5	45	30	<0.2	<5	131	6	3.25
656662		<0.2	58	14	40	6	22	23	<0.2	6	87	6	3.42
656663		<0.2	59	13	44	6	29	25	<0.2	6	122	<5	2.99
656664		<0.2	80	13	65	8	54	30	<0.2	7	159	6	3.91
656665		<0.2	124	12	58	6	47	33	<0.2	10	121	<5	3.53
656666		<0.2	68	15	43	6	82	40	<0.2	6	196	8	3.35
656667		<0.2	69	17	69	9	39	27	<0.2	10	168	6	4.19
656668		<0.2	85	23	61	8	53	31	<0.2	12	190	6	3.85

ITS - Chimitec

1322-B rue Harricana, Val d'Or, Québec, J9P 3X6

Tel: (819) 825-0178, Fax: (819) 825-0256

MB3



Intertek Testing Services
Chimitec Bondar Clegg

Certificat
D'Analyse

CLIENT: CYPRUS CANADA INC.
REPORT: C97-60860.1 (COMPLETE)

PROJECT: 5007
DATE PRINTED: 12-MAY-97 PAGE 18

SAMPLE NUMBER	ELEMENT UNITS	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT
656632		213	<10	94	248	21	<20	<20	25	1.09	0.65	0.59	0.10
656633		306	<10	111	247	28	<20	24	26	1.33	0.94	1.02	0.11
656634		421	<10	89	173	26	<20	21	24	1.46	1.03	1.91	0.05
656635		300	<10	117	266	39	<20	<20	19	1.65	1.22	0.67	0.10
656636		261	<10	119	267	35	<20	<20	20	1.39	1.04	0.33	0.11
656637		307	<10	156	267	41	<20	27	16	1.65	1.23	0.29	0.12
656638		292	<10	95	264	33	<20	21	20	1.54	1.08	0.45	0.11
656639		266	<10	129	222	35	<20	<20	18	1.76	1.15	0.45	0.09
656640		205	<10	94	231	20	<20	<20	21	1.18	0.68	0.43	0.08
656641		274	<10	149	265	36	<20	<20	16	1.62	1.18	0.48	0.09
656642		1220	<10	54	151	166	<20	<20	<1	2.31	2.17	5.76	0.07
656643		979	<10	51	150	183	21	<20	<1	2.13	2.08	5.48	0.09
656644		589	<10	70	131	125	<20	<20	<1	1.66	1.99	3.32	0.10
656645		200	<10	50	116	36	<20	<20	12	0.87	1.30	0.84	0.15
656646		348	<10	36	145	46	<20	22	6	1.09	1.91	2.15	0.15
656647		352	<10	34	167	42	<20	<20	5	1.29	2.31	1.89	0.13
656648		321	<10	40	238	36	<20	<20	5	1.58	2.75	1.21	0.07
656649		465	<10	23	234	28	<20	<20	7	1.24	2.45	2.60	0.02
656650		381	<10	3	202	22	<20	44	5	0.98	2.51	2.02	0.02
656651		900	<10	1	562	38	<20	<20	13	1.13	2.50	7.78	<0.01
656652		779	<10	102	255	50	<20	29	9	2.04	1.99	3.72	0.12
656653		546	<10	58	155	72	<20	44	11	2.14	2.23	1.79	0.20
656654		665	<10	87	143	73	<20	24	11	2.99	2.25	2.37	0.25
656655		669	<10	44	179	98	<20	<20	6	2.38	2.13	4.75	0.21
656656		607	<10	21	152	77	<20	29	9	2.00	1.68	5.35	0.24
656657		542	<10	47	131	96	<20	<20	8	2.05	2.01	2.25	0.28
656658		639	<10	7	133	108	<20	31	7	2.29	1.93	3.41	0.35
656659		424	<10	6	128	79	<20	<20	8	2.24	1.82	2.65	0.32
656660		433	<10	13	157	73	<20	<20	9	2.73	2.09	2.65	0.40
656661		495	<10	82	141	79	<20	<20	7	2.45	2.14	2.80	0.30
656662		548	<10	40	135	97	<20	<20	7	1.93	1.90	3.05	0.29
656663		499	<10	46	124	85	<20	<20	10	1.64	1.75	2.11	0.24
656664		628	<10	44	149	99	<20	<20	9	1.80	1.71	3.26	0.28
656665		729	<10	13	99	122	<20	24	8	1.55	1.48	4.25	0.25
656666		471	<10	7	166	72	<20	<20	7	2.05	2.49	2.02	0.19
656667		653	<10	30	127	108	20	<20	7	2.10	1.74	3.54	0.26
656668		642	<10	60	143	105	<20	41	7	2.83	1.98	4.18	0.33



Intertek Testing Services
Chimitec Bondar Clegg

Certified
D'Analysis

CLIENT: CYPRUS CANADA INC.
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DATE PRINTED: 12-MAY-97 PAGE 1C

SAMPLE NUMBER	ELEMENT UNITS	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM
656632		0.63	38	6	<2	10	6	<5	<10	0.09	29
656633		0.71	47	6	<2	14	6	<5	<10	0.08	29
656634		0.71	50	7	<2	15	7	<5	<10	0.08	29
656635		0.95	31	7	2	20	6	<5	<10	0.15	32
656636		0.87	27	6	<2	15	6	<5	<10	0.13	30
656637		1.07	32	6	<2	16	6	<5	<10	0.16	34
656638		0.95	38	7	<2	16	7	<5	<10	0.13	34
656639		1.06	34	7	3	19	6	<5	<10	0.13	35
656640		0.70	30	5	<2	11	5	<5	<10	0.08	29
656641		1.01	31	5	3	15	4	<5	<10	0.12	28
656642		1.47	45	6	<2	23	3	19	<10	0.14	4
656643		1.45	20	7	<2	18	5	20	<10	0.15	3
656644		1.07	15	7	<2	16	4	12	<10	0.14	8
656645		0.44	8	5	<2	7	4	<5	<10	0.08	16
656646		0.47	16	6	<2	9	4	6	<10	0.08	6
656647		0.55	12	6	<2	10	4	6	<10	0.09	3
656648		0.77	7	4	<2	12	3	5	<10	0.10	3
656649		0.19	18	4	<2	5	2	<5	<10	0.05	2
656650		0.03	16	3	<2	2	2	<5	<10	0.03	2
656651		<0.01	38	7	<2	<1	4	6	<10	0.01	2
656652		0.95	22	7	<2	18	5	8	<10	0.15	9
656653		0.34	23	9	<2	17	6	10	<10	0.09	10
656654		0.26	49	10	<2	27	8	11	<10	0.10	7
656655		0.41	33	9	<2	19	5	14	<10	0.09	2
656656		0.19	29	8	<2	11	5	12	<10	0.07	2
656657		0.38	17	7	<2	13	5	13	<10	0.12	2
656658		0.07	23	9	<2	8	6	16	<10	0.12	2
656659		0.06	28	6	<2	8	4	12	<10	0.09	1
656660		0.07	45	5	<2	11	3	10	<10	0.09	1
656661		0.19	32	6	<2	13	4	12	<10	0.11	1
656662		0.18	25	8	<2	11	5	15	<10	0.12	2
656663		0.24	17	8	<2	11	5	12	<10	0.11	3
656664		0.18	16	10	<2	9	7	13	<10	0.12	5
656665		0.08	16	10	<2	7	7	15	<10	0.13	2
656666		0.07	12	6	<2	12	4	10	<10	0.09	2
656667		0.26	18	11	<2	11	7	13	<10	0.12	4
656668		0.27	41	10	<2	12	7	12	<10	0.13	4

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Appendix B: Maps

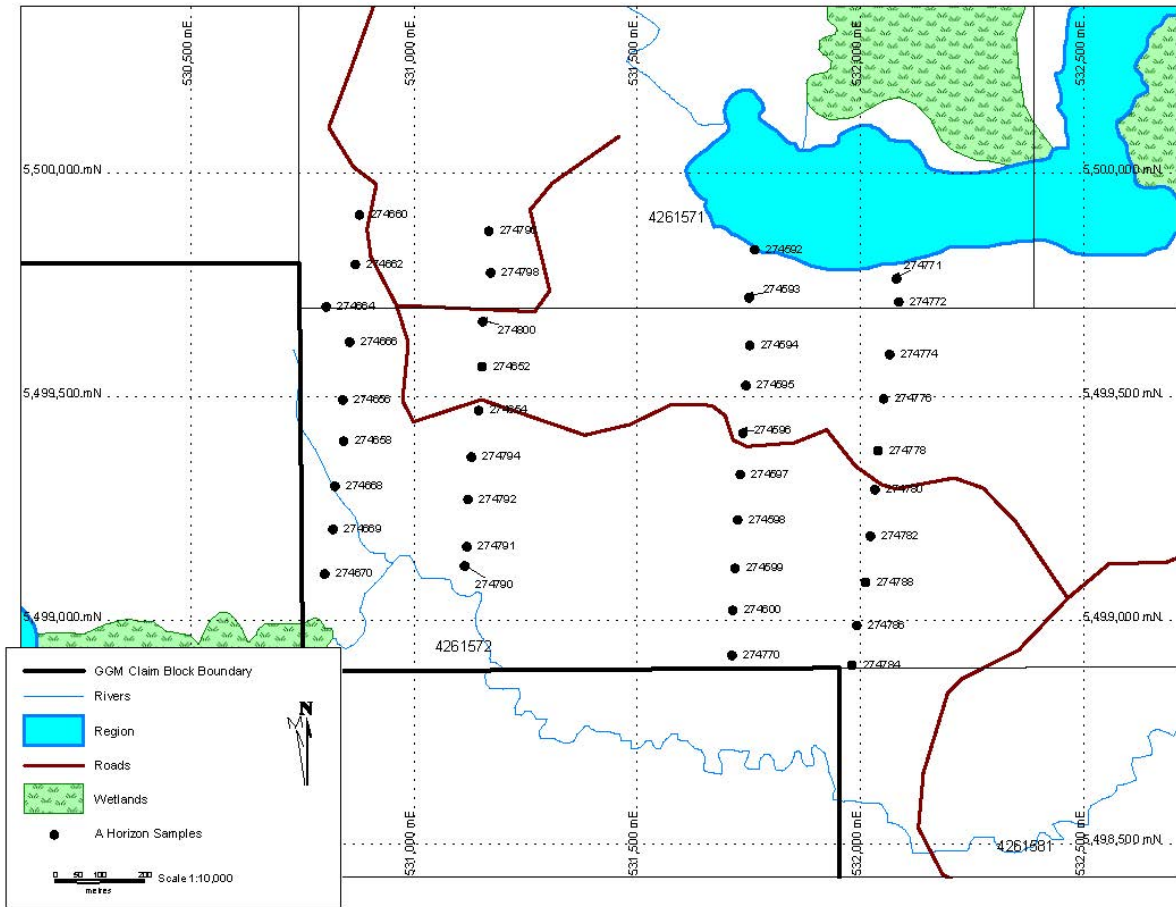


Figure 13 A (humus) horizon samples

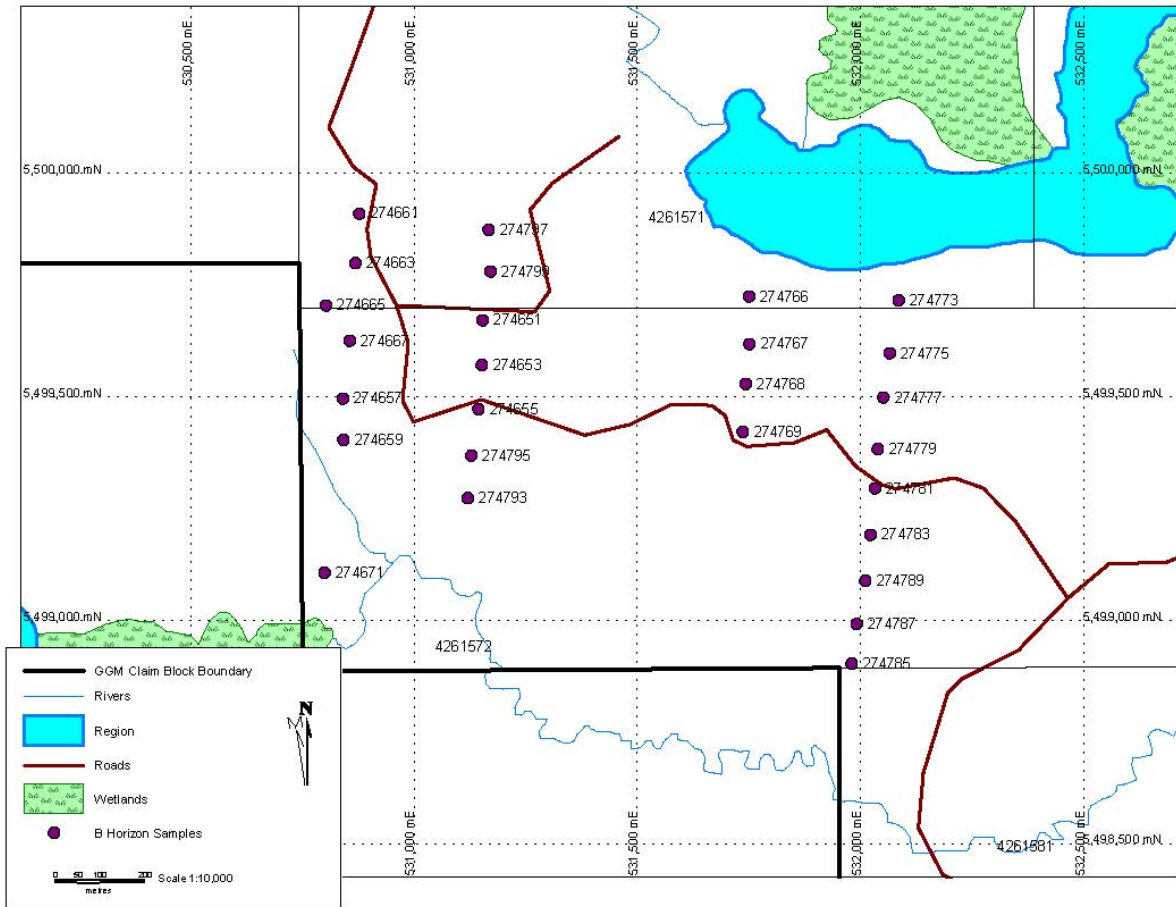


Figure 14 B horizon samples

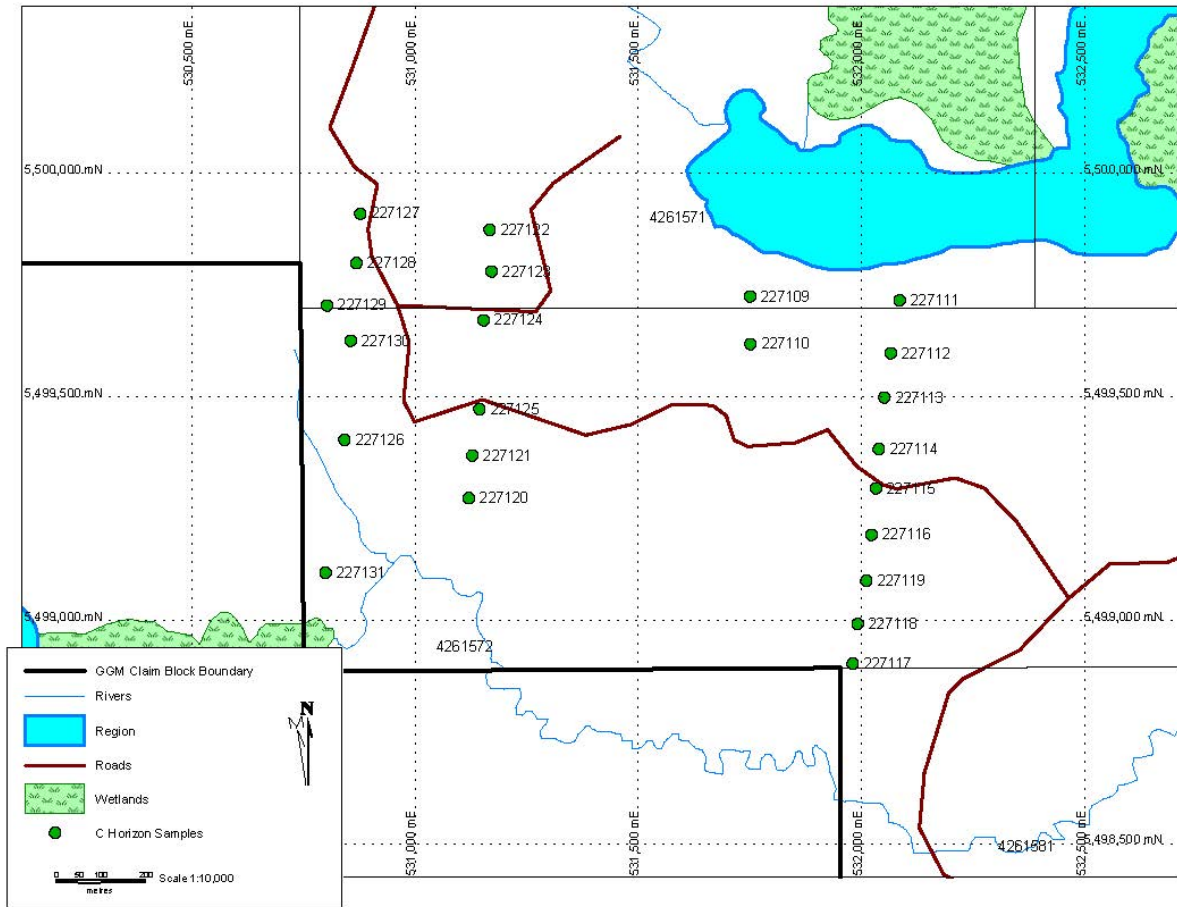


Figure 15 C horizon samples



Figure 17 Prospecting grab sample locations, Catlonite Rd.

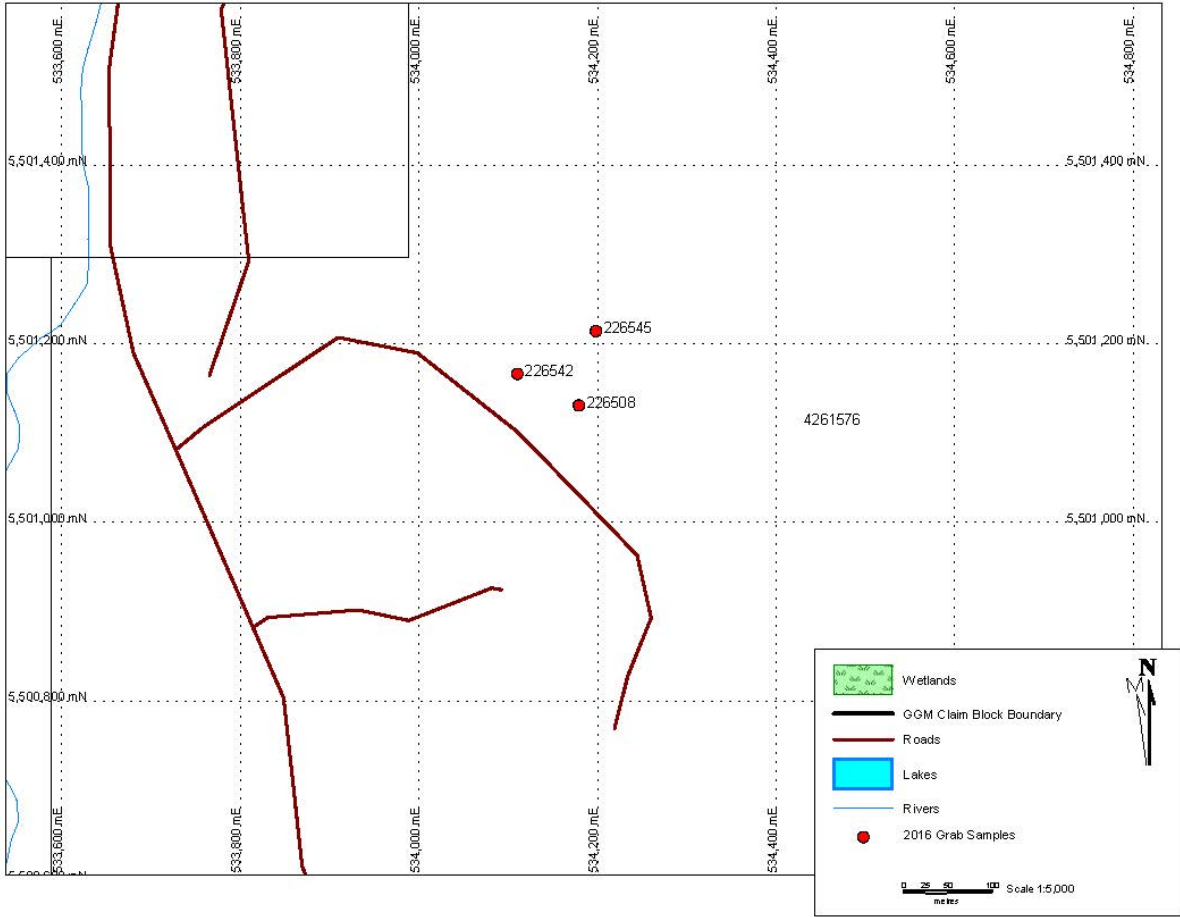


Figure 18 Prospecting grab sample locations, eastern portion of Viper Property.

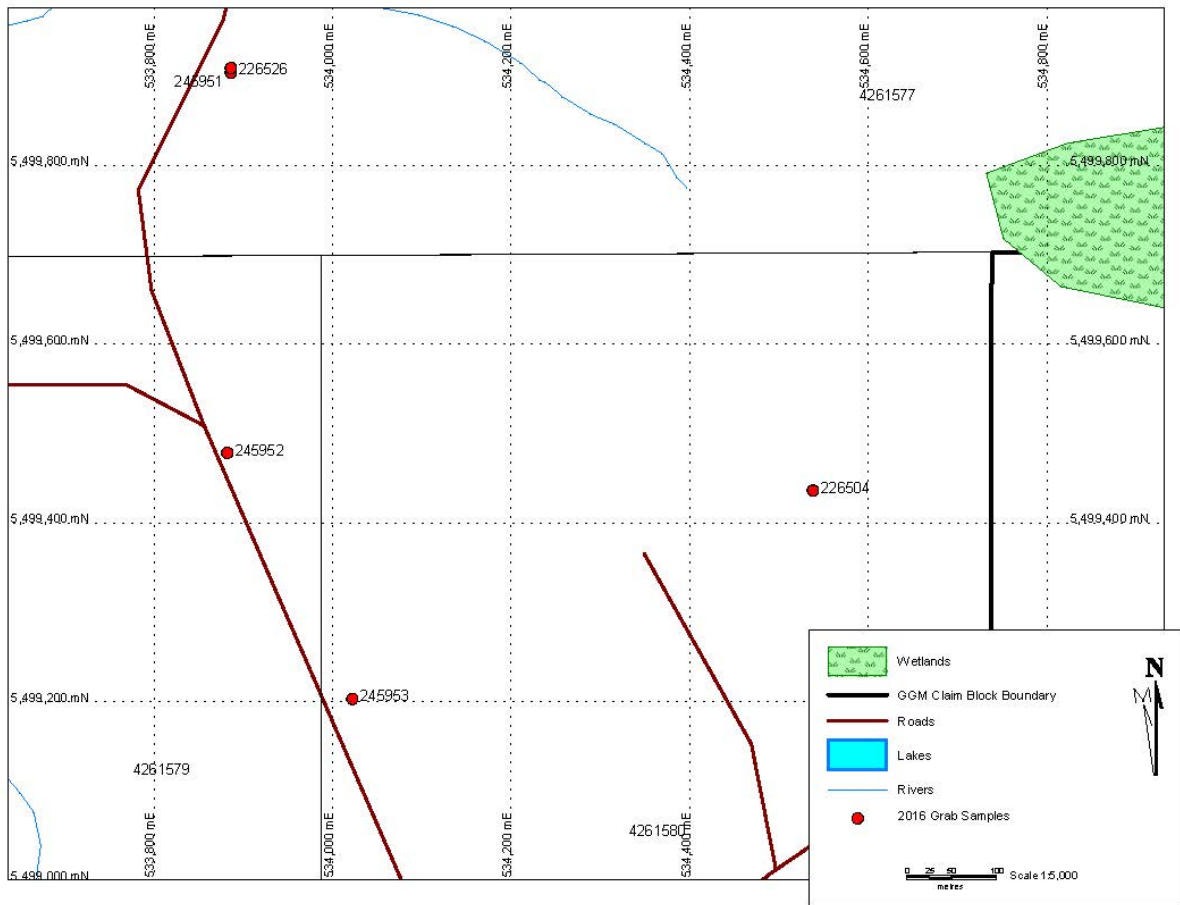


Figure 19 Prospecting grab sample locations, southeastern portion of property, Catlonite Rd.

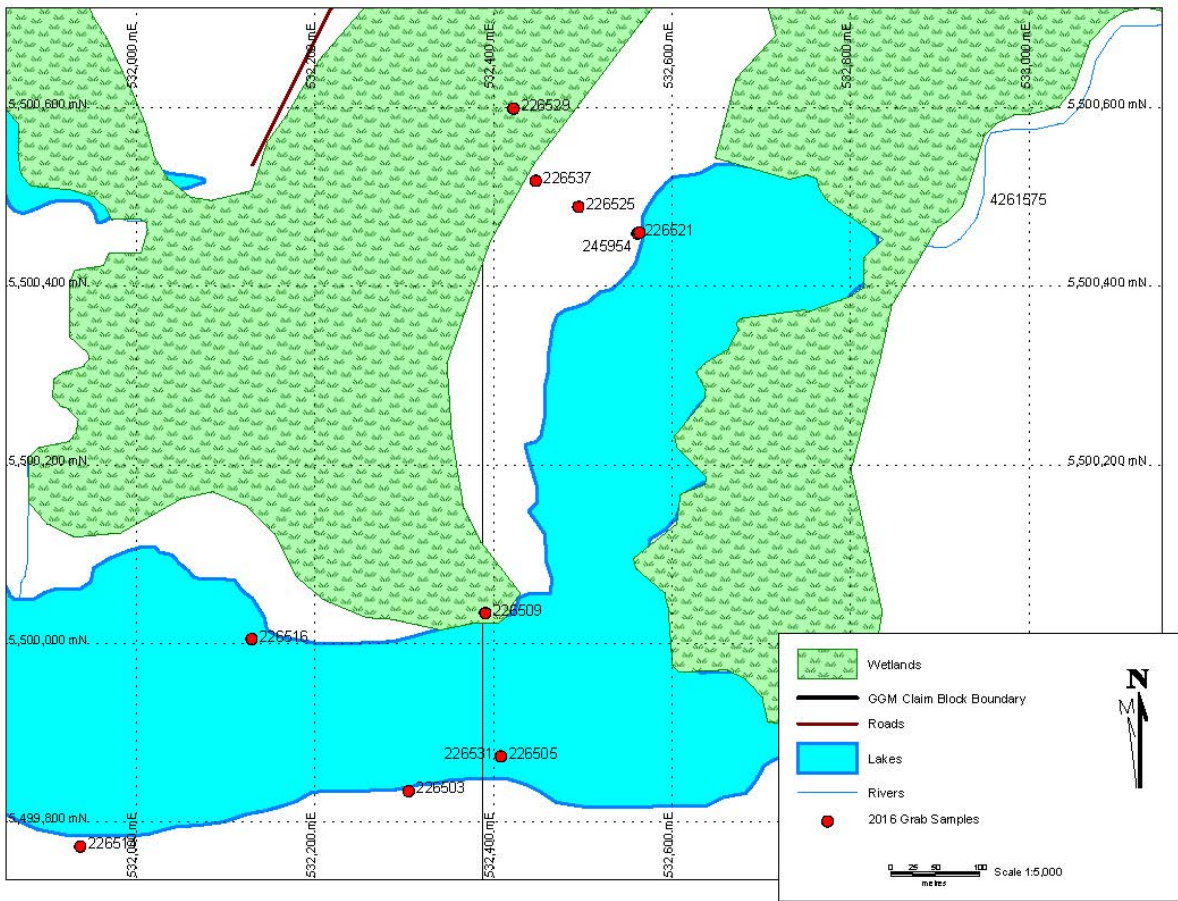


Figure 20 Prospecting grab sample locations, Milbean Lake

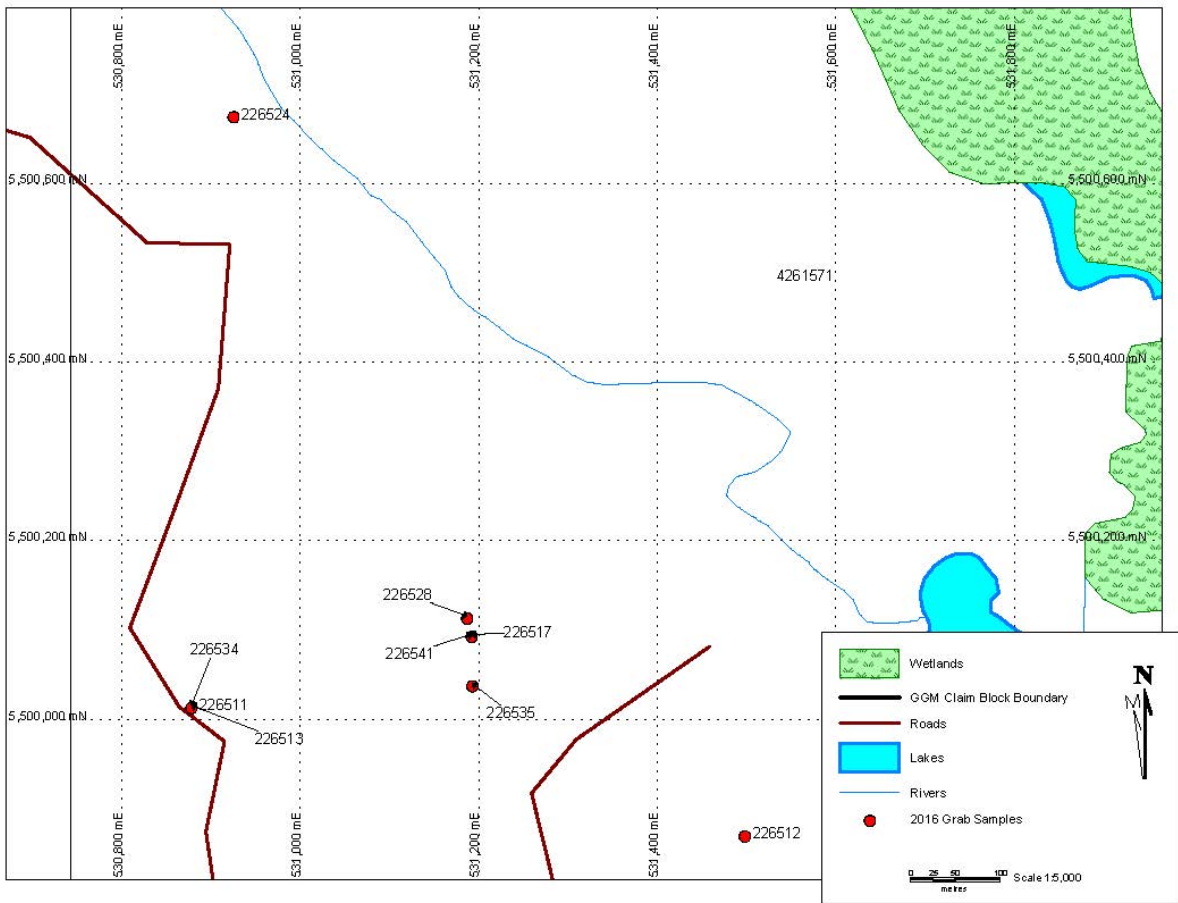


Figure 21 Prospecting grab sample locations, southwestern portion of property

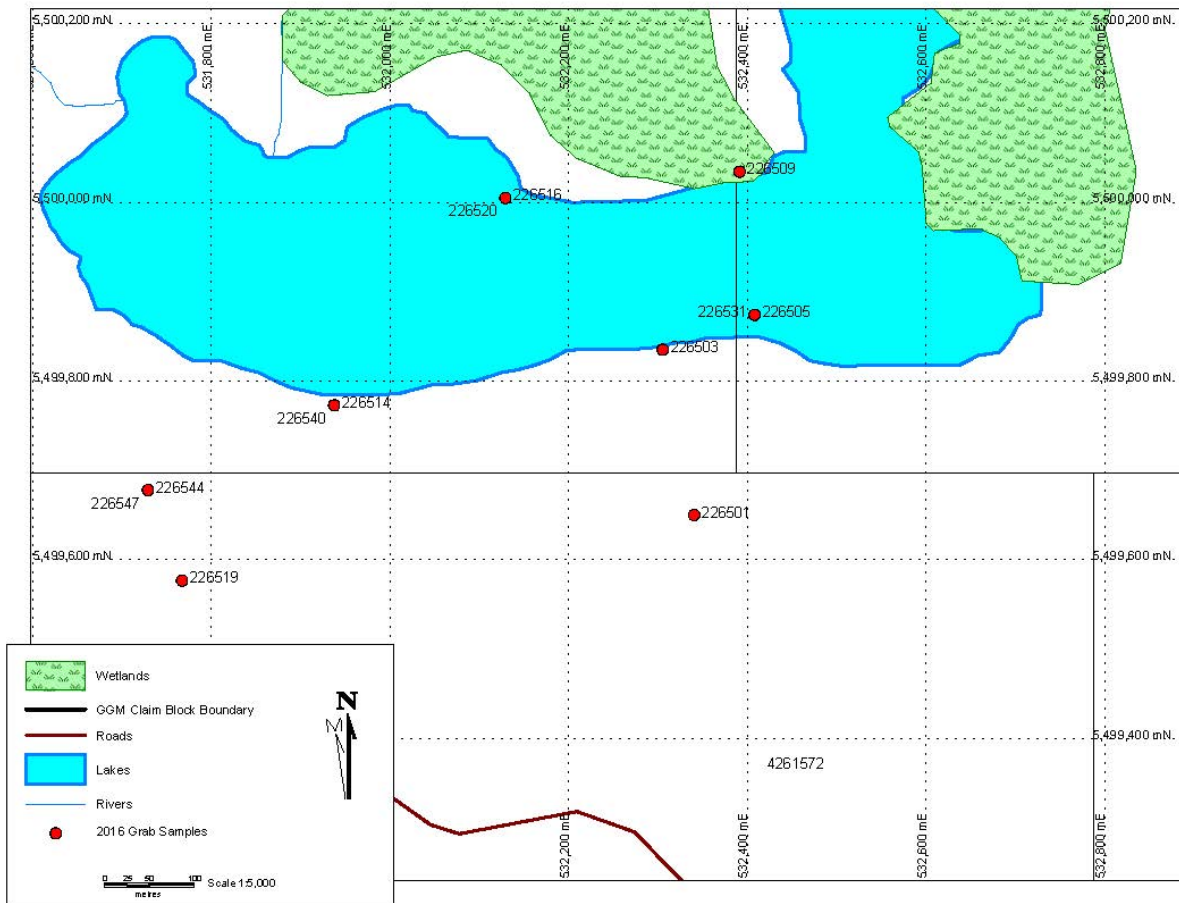


Figure 22 Prospecting grab sample locations, south of Milbean Lake

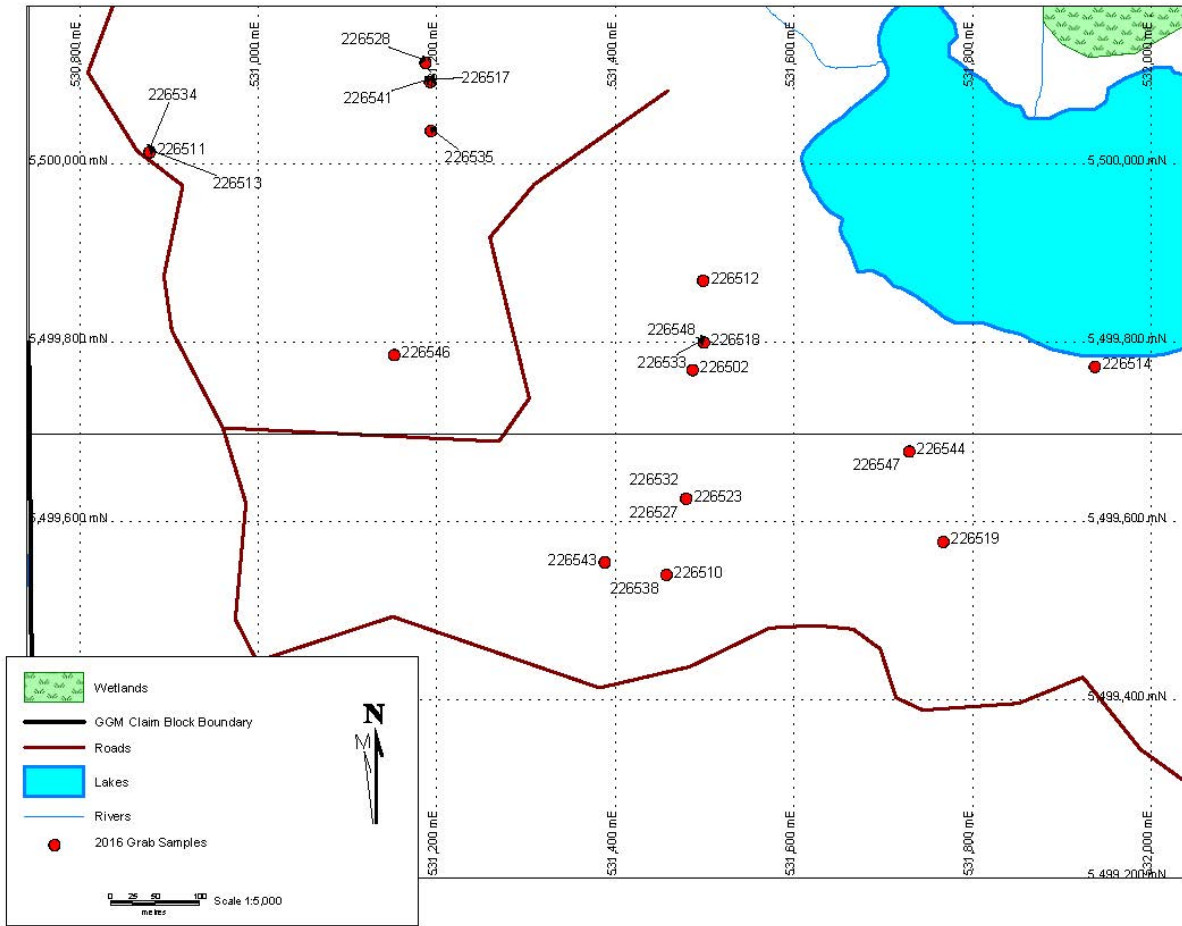


Figure 23 Prospecting grab sample locations, southwestern portion of property

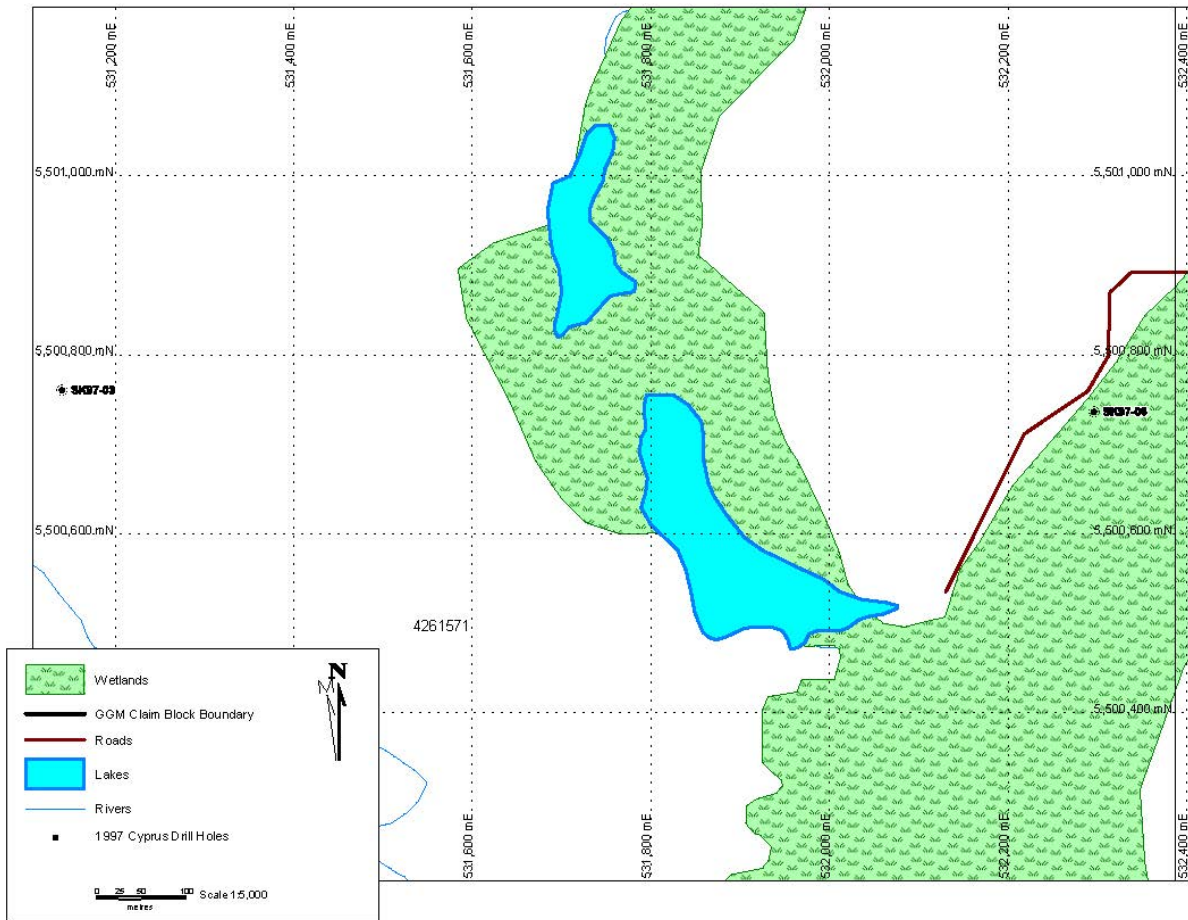


Figure 24 SK97 drill collar locations

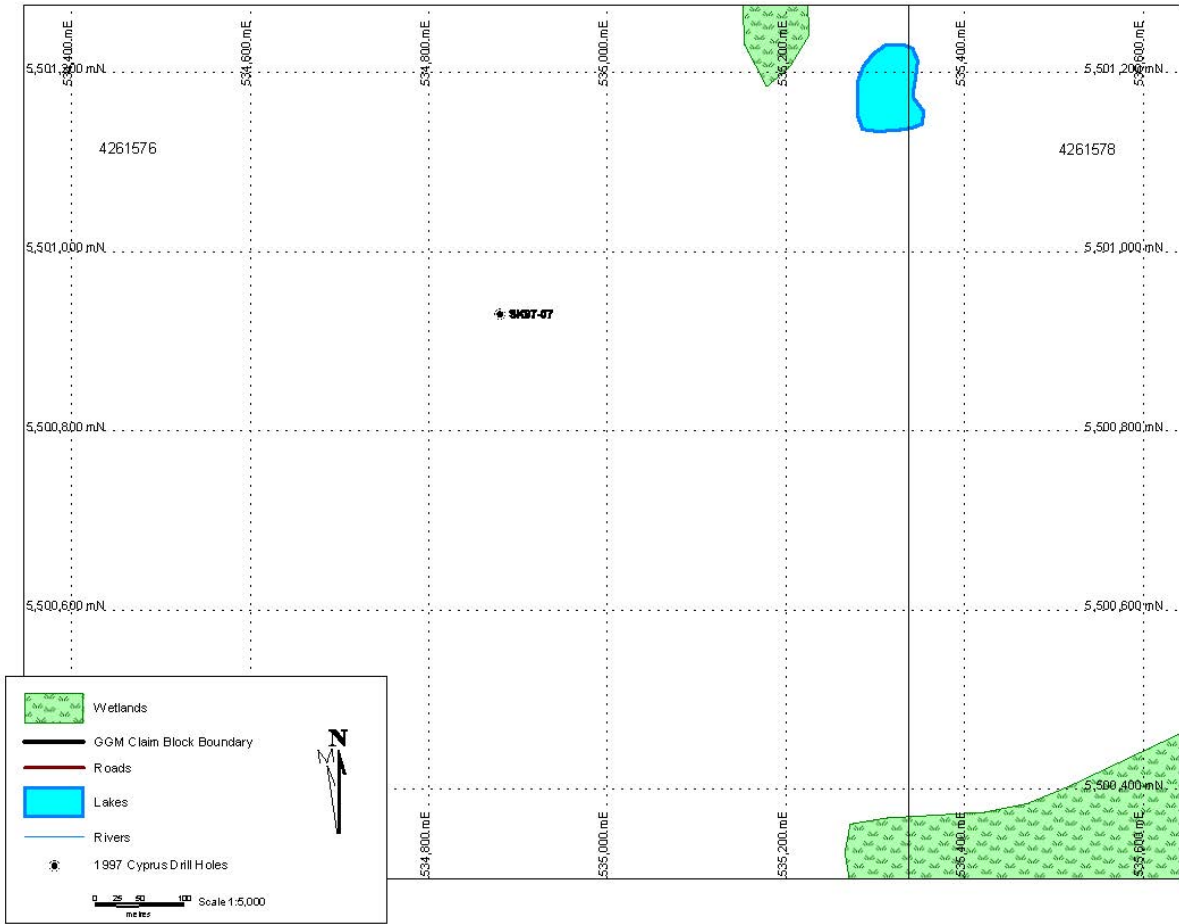


Figure 25 SK97 drill collar locations

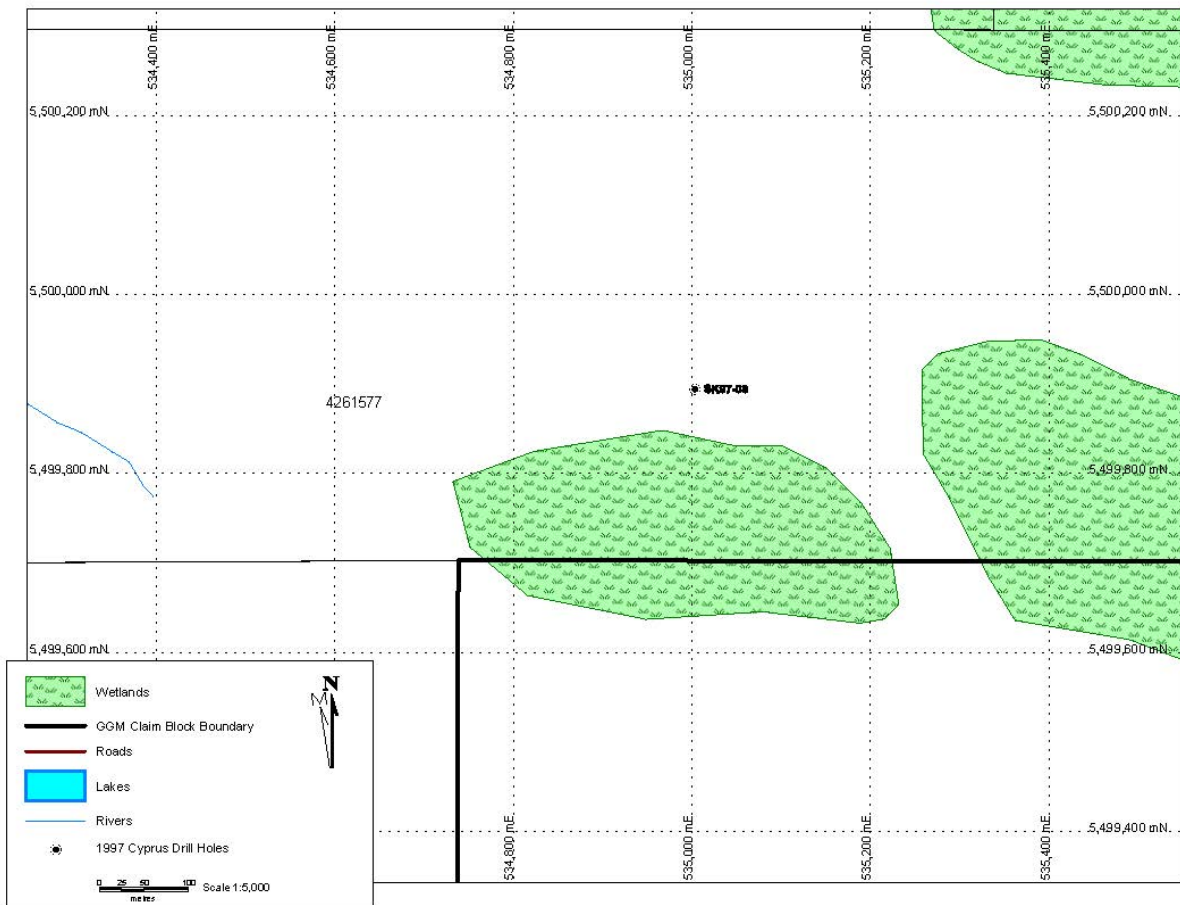


Figure 26 SK97 drill collar locations

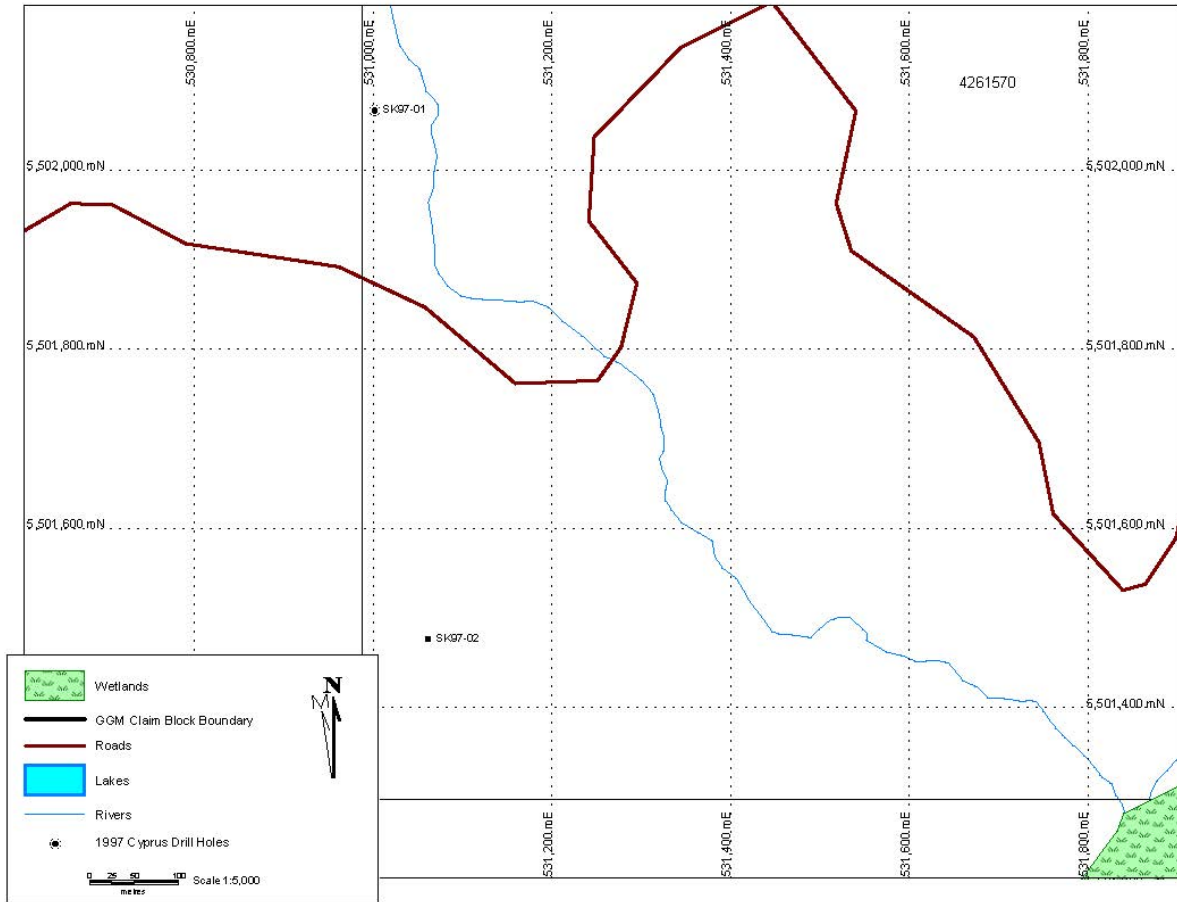


Figure 27 SK97 drill collar locations

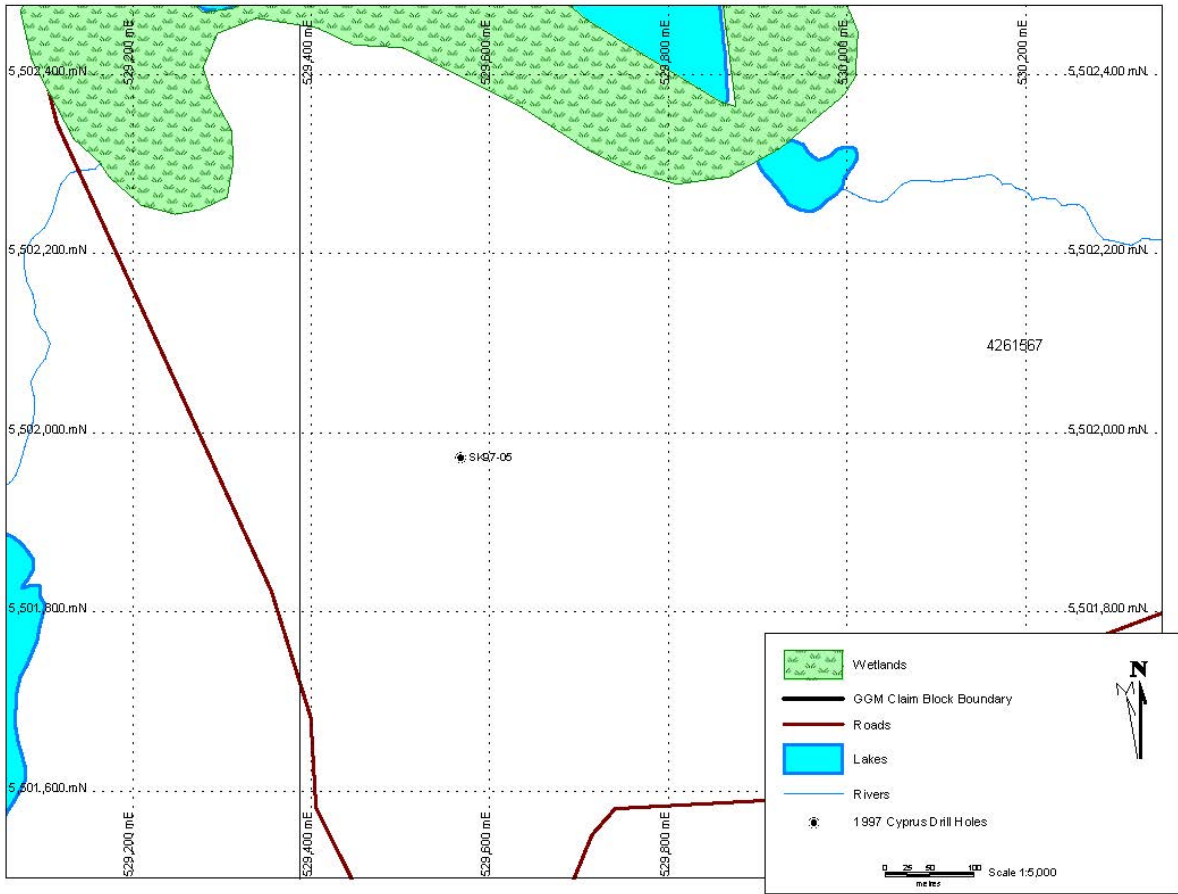


Figure 28 SK97 drill collar locations

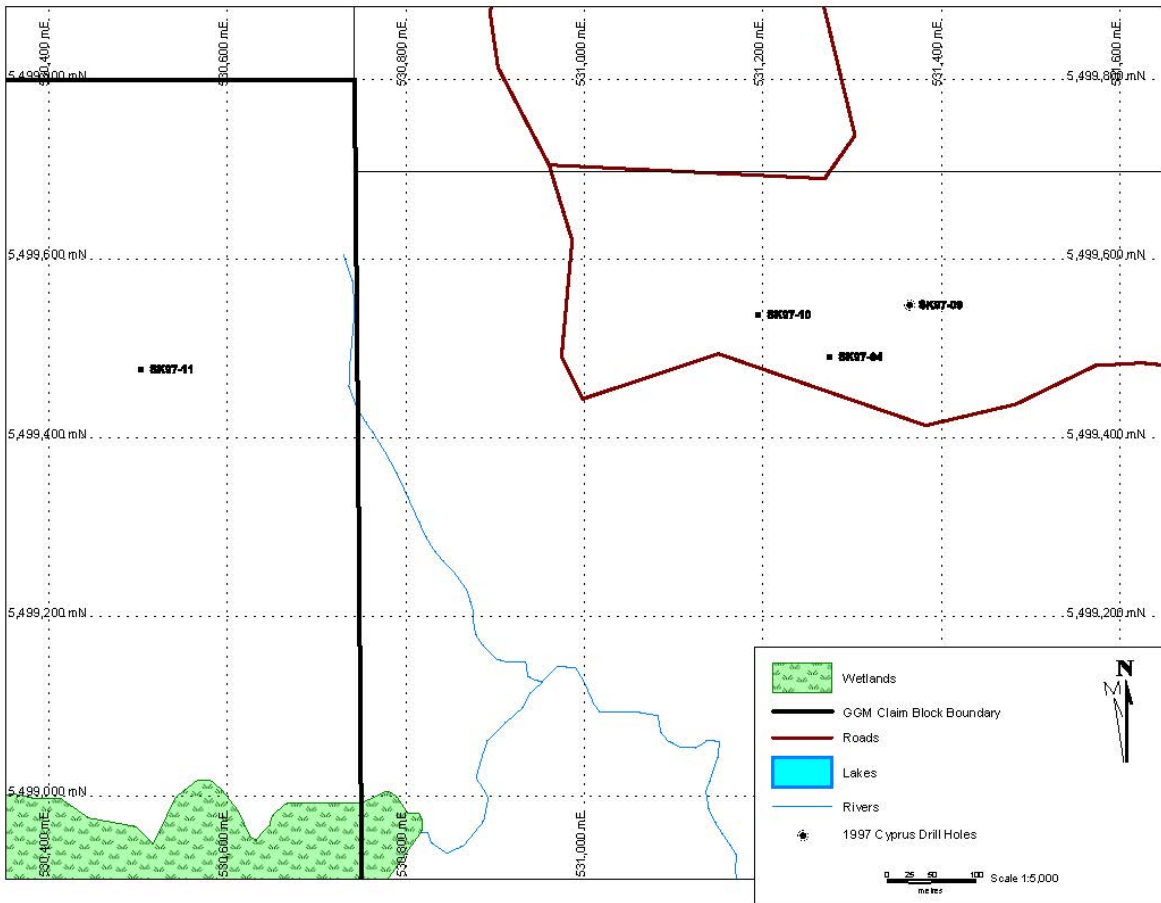


Figure 29 SK97 drill collar locations

Appendix C: Raw Data

RTK Grid Line Points

UTM_E	UTM_N	ID	Line Number	Station	UTM_Z
534095.2	5501084	viper338			339.979
531136	5499397	L300 -425	L300	425	323.359
531137.8	5499423	L300 -450	L300	450	324.161
531139.6	5499447	L300 -475	L300	475	325.061
531141.5	5499472	L300 -500	L300	500	325.46
531142.8	5499498	L300 -525	L300	525	327.814
531144.8	5499522	L300 -550	L300	550	334.307
531145.7	5499544	L300 -575	L300	575	343.902
531149.2	5499572	L300 -600	L300	600	329.766
531151	5499597	L300 -625	L300	625	330.703
531152.8	5499623	L300 -650	L300	650	330.346
531154.7	5499648	L300 -675	L300	675	331.493
531156.6	5499673	L300 -700	L300	700	329.528
531158.5	5499698	L300 -725	L300	725	329.447
531160.5	5499723	L300 -750	L300	750	330.378
531162.4	5499748	L300 -775	L300	775	330.282
531164.2	5499774	L300 -800	L300	800	329.791
531166.1	5499799	L300 -825	L300	825	330.118
531168.2	5499824	L300 -850	L300	850	328.668
531170.1	5499849	L300 -875	L300	875	328.708
531172	5499874	L300 -900	L300	900	326.115
531174	5499899	L300 -925	L300	925	325.878
531175.9	5499924	L300 -950	L300	950	326.166
531177.8	5499950	L300 -975	L300	975	326.573
531179.9	5499974	L300 -1000	L300	1000	327.225
531181.7	5500000	L300 -1025	L300	1025	327.398
531183.8	5500025	L300 -1050	L300	1050	327.805
531187.6	5500048	L300 -1075	L300	1075	336.899
531187.6	5500075	L300 -1100	L300	1100	334.404
531189.4	5500100	L300 -1125	L300	1125	336.176
531191.3	5500125	L300 -1150	L300	1150	334.17
531193.2	5500150	L300 -1175	L300	1175	333.694
531195.4	5500174	L300 -1200	L300	1200	329.233
531197.3	5500199	L300 -1225	L300	1225	325.741
531199.3	5500223	L300 -1250	L300	1250	325.151
531201.5	5500248	L300 -1275	L300	1275	324.996
531203.5	5500273	L300 -1300	L300	1300	325.952
531205.5	5500298	L300 -1325	L300	1325	325.621
531207.4	5500323	L300 -1350	L300	1350	324.86
531209.4	5500348	L300 -1375	L300	1375	321.832

531211.5	5500373	L300 -1400	L300	1400	319.292
531213.7	5500399	L300 -1425	L300	1425	318.546
531215.6	5500424	L300 -1450	L300	1450	318.29
531217.7	5500450	L300 -1475	L300	1475	318.601
531219.8	5500475	L300 -1500	L300	1500	319.884
531221.8	5500499	L300 -1525	L300	1525	321.953
531224.9	5500523	L300 -1550	L300	1550	328.804
531226.1	5500549	L300 -1575	L300	1575	326.35
531228.3	5500574	L300 -1600	L300	1600	327.218
531230.4	5500599	L300 -1625	L300	1625	328.718
531232.5	5500623	L300 -1650	L300	1650	325.141
531234.6	5500648	L300 -1675	L300	1675	325.182
531236.7	5500672	L300 -1700	L300	1700	324.921
531238.9	5500697	L300 -1725	L300	1725	324.936
531241.1	5500721	L300 -1750	L300	1750	326.933
531243.3	5500745	L300 -1775	L300	1775	326.416
531245.6	5500771	L300 -1800	L300	1800	322.883
531247.8	5500797	L300 -1825	L300	1825	322.145
531250	5500822	L300 -1850	L300	1850	322.039
531252.3	5500847	L300 -1875	L300	1875	322.147
531255.4	5500871	L300 -1900	L300	1900	324.372
531256.8	5500897	L300 -1925	L300	1925	322.259
531259.1	5500923	L300 -1950	L300	1950	322.852
531261.4	5500948	L300 -1975	L300	1975	323.894
531264.6	5500974	L300 -2000	L300	2000	344.464
531266	5500998	L300 -2025	L300	2025	326.162
531269.7	5501023	L300 -2050	L300	2050	339.161
531271.2	5501049	L300 -2075	L300	2075	327.822
531273.6	5501077	L300 -2100	L300	2100	331.313
531275.2	5501097	L300 -2125	L300	2125	338.479
531277.7	5501124	L300 -2150	L300	2150	329.511
531280.2	5501149	L300 -2175	L300	2175	328.86
531282.6	5501174	L300 -2200	L300	2200	326.623
531285.4	5501201	L300 -2225	L300	2225	326.024
531287.7	5501225	L300 -2250	L300	2250	326.332
531290.2	5501251	L300 -2275	L300	2275	325.238
531295.7	5501276	L300 -2300	L300	2300	324.615
531295.1	5501299	L300 -2325	L300	2325	325.271
531297.8	5501326	L300 -2350	L300	2350	330.661
531300.1	5501349	L300 -2375	L300	2375	326.923
531302.7	5501374	L300 -2400	L300	2400	331.992

531305.1	5501398	L300 -2425	L300	2425	332.889
531308.1	5501424	L300 -2450	L300	2450	332.832
531310.4	5501450	L300 -2475	L300	2475	330.632
531312.8	5501474	L300 -2500	L300	2500	328.188
531115.8	5499123	L300 -150	L300	150	315.918
531117.7	5499149	L300 -175	L300	175	316.1
531119.4	5499173	L300 -200	L300	200	316.456
531121.1	5499198	L300 -225	L300	225	317.124
531123.1	5499223	L300 -250	L300	250	317.541
531124.8	5499247	L300 -275	L300	275	320.726
531126	5499273	L300 -300	L300	300	322.172
531129.4	5499296	L300 -325	L300	325	325.706
531130.4	5499323	L300 -350	L300	350	320.87
531132.3	5499348	L300 -375	L300	375	322.108
531134	5499372	L300 -400	L300	400	322.462
531429.3	5499296	L600 -350	L600	350	317.608
531430.9	5499319	L600 -351	L600	351	323.09
531432.3	5499321	L600 -375	L600	375	318.776
531435.2	5499344	L600 -400	L600	400	327.844
531437.6	5499374	L600 -425	L600	425	325.456
531441.5	5499398	L600 -450	L600	450	327.394
531444.7	5499421	L600 -475	L600	475	323.512
531447.8	5499445	L600 -500	L600	500	325.086
531453.7	5499468	L600 -525	L600	525	327.832
531456.2	5499496	L600 -550	L600	550	331.881
531457	5499520	L600 -575	L600	575	328.18
531460.3	5499545	L600 -600	L600	600	329.167
531463.3	5499570	L600 -625	L600	625	328.297
531466.5	5499595	L600 -650	L600	650	328.784
531469.5	5499619	L600 -675	L600	675	329.917
531472.5	5499644	L600 -700	L600	700	326.925
531475.6	5499669	L600 -725	L600	725	327.366
531478.5	5499692	L600 -750	L600	750	332.081
531481.6	5499719	L600 -775	L600	775	328.766
531484.5	5499744	L600 -800	L600	800	329.034
531487.4	5499768	L600 -825	L600	825	329.952
531490.5	5499793	L600 -850	L600	850	330.611
531493.4	5499817	L600 -875	L600	875	331.053
531496.5	5499843	L600 -900	L600	900	327.335
531500	5499873	L600 -925	L600	925	326.535
531502.2	5499893	L600 -950	L600	950	324.197

531505.3	5499918	L600 -975	L600	975	322.947
531506.8	5499942	L600 -1000	L600	1000	323.939
531511.1	5499967	L600 -1025	L600	1025	316.225
531513.6	5499992	L600 -1050	L600	1050	315.288
531516.3	5500017	L600 -1075	L600	1075	314.514
531518.8	5500041	L600 -1100	L600	1100	314.495
531521.5	5500066	L600 -1125	L600	1125	314.683
531524.1	5500091	L600 -1150	L600	1150	314.548
531526.8	5500116	L600 -1175	L600	1175	314.564
531529.6	5500141	L600 -1200	L600	1200	314.493
531532.1	5500166	L600 -1225	L600	1225	314.623
531534.7	5500191	L600 -1250	L600	1250	314.402
531537.4	5500216	L600 -1275	L600	1275	314.75
531540.1	5500241	L600 -1300	L600	1300	314.84
531542.7	5500266	L600 -1325	L600	1325	314.926
531545.4	5500291	L600 -1350	L600	1350	315.212
531548.1	5500316	L600 -1375	L600	1375	315.464
531550.8	5500342	L600 -1400	L600	1400	315.46
531554.6	5500365	L600 -1425	L600	1425	322.541
531556.1	5500391	L600 -1450	L600	1450	316.069
531560	5500417	L600 -1475	L600	1475	316.216
531562.5	5500441	L600 -1500	L600	1500	319.118
531562.3	5500465	L600 -1525	L600	1525	324.442
531567.9	5500491	L600 -1550	L600	1550	323.836
531569.5	5500517	L600 -1575	L600	1575	323.473
531574.1	5500543	L600 -1600	L600	1600	317.722
531575.1	5500566	L600 -1625	L600	1625	325.081
531577.9	5500589	L600 -1650	L600	1650	324.523
531580.5	5500617	L600 -1675	L600	1675	323.435
531581.6	5500642	L600 -1700	L600	1700	322.066
531584.4	5500667	L600 -1725	L600	1725	322.879
531587.3	5500691	L600 -1750	L600	1750	321.432
531589.5	5500717	L600 -1775	L600	1775	319.818
531592	5500742	L600 -1800	L600	1800	319.209
531594.5	5500766	L600 -1825	L600	1825	317.172
531597.2	5500791	L600 -1850	L600	1850	316.594
531599.7	5500817	L600 -1875	L600	1875	316.182
531602.6	5500843	L600 -1900	L600	1900	316.204
531605.1	5500868	L600 -1925	L600	1925	316.238
531607.7	5500893	L600 -1950	L600	1950	316.13
531610.3	5500918	L600 -1975	L600	1975	316.586

531612.7	5500943	L600 -2000	L600	2000	317.367
531615.4	5500968	L600 -2025	L600	2025	317.937
531618	5500994	L600 -2050	L600	2050	318.997
531620.6	5501019	L600 -2075	L600	2075	326.207
531622.5	5501043	L600 -2100	L600	2100	319.977
531628.7	5501078	L600 -2125	L600	2125	348.227
531628.5	5501093	L600 -2150	L600	2150	317.253
531631.2	5501118	L600 -2175	L600	2175	316.924
531633.9	5501143	L600 -2200	L600	2200	317.669
531638.6	5501168	L600 -2225	L600	2225	327.607
531640.5	5501195	L600 -2250	L600	2250	330.507
531645.6	5501218	L600 -2275	L600	2275	322.558
531644.2	5501243	L600 -2300	L600	2300	322.069
531646.8	5501268	L600 -2325	L600	2325	322.766
531649.3	5501293	L600 -2350	L600	2350	323.593
531651.8	5501318	L600 -2375	L600	2375	322.827
531651.8	5501339	L600 -2400	L600	2400	328.641
531651.1	5501380	L600 -2425	L600	2425	333.39
531659.4	5501393	L600 -2450	L600	2450	324.114
531661.7	5501417	L600 -2475	L600	2475	320.415
531664	5501441	L600 -2500	L600	2500	318.874
531732.5	5499346	L900 -425	L900	425	317.708
531733.6	5499371	L900 -450	L900	450	318.273
531734.9	5499396	L900 -451	L900	451	318.652
531736.3	5499422	L900 -500	L900	500	318.603
531737.7	5499447	L900 -525	L900	525	319.035
531738.9	5499472	L900 -550	L900	550	319.172
531740	5499498	L900 -575	L900	575	318.299
531741.3	5499523	L900 -600	L900	600	319.384
531742.6	5499547	L900 -625	L900	625	319.778
531745.2	5499576	L900 -650	L900	650	339.684
531747.3	5499597	L900 -675	L900	675	328.375
531744.1	5499619	L900 -700	L900	700	328.426
531750.4	5499650	L900 -725	L900	725	324.69
531749.6	5499669	L900 -750	L900	750	323.606
531750.8	5499698	L900 -775	L900	775	320.077
531752.7	5499723	L900 -800	L900	800	316.545
531756.4	5499749	L900 -825	L900	825	326.404
531756	5499773	L900 -850	L900	850	314.564
531757.6	5499797	L900 -875	L900	875	313.788
531711.8	5498920	L900 -0	L900	0	316.449

531712.9	5498945	L900 -25	L900	25	316.456
531714.2	5498970	L900 -50	L900	50	316.534
531715.3	5498996	L900 -75	L900	75	316.499
531716.6	5499021	L900 -100	L900	100	316.413
531717.7	5499046	L900 -125	L900	125	316.776
531718.9	5499070	L900 -150	L900	150	316.8
531720	5499096	L900 -175	L900	175	316.743
531721.3	5499120	L900 -200	L900	200	316.73
531722.7	5499147	L900 -225	L900	225	317.099
531724	5499172	L900 -250	L900	250	317.215
531725.2	5499198	L900 -275	L900	275	317.33
531726.2	5499222	L900 -300	L900	300	317.208
531727.7	5499246	L900 -325	L900	325	317.498
531728.7	5499271	L900 -350	L900	350	317.545
531730.1	5499296	L900 -375	L900	375	317.624
531731.2	5499320	L900 -400	L900	400	317.826
531385.5	5498950	L600-0	L600	0	316.074
531388.6	5498974	L600-25	L600	25	316.15
531391.8	5498999	L600-50	L600	50	316.106
531394.9	5499024	L600-75	L600	75	316.302
531398	5499049	L600-100	L600	100	316.454
531401.1	5499074	L600-125	L600	125	316.531
531404.5	5499099	L600-150	L600	150	316.726
531407.4	5499123	L600-175	L600	175	316.844
531410.5	5499148	L600-200	L600	200	317.081
531413.9	5499173	L600-225	L600	225	318.806
531416.8	5499198	L600-250	L600	250	317.334
531420.2	5499223	L600-275	L600	275	317.493
531423	5499246	L600-300	L600	300	317.567
531426.2	5499272	L600-325	L600	325	317.526
531988.9	5498894	L1200-0	L120	0	317.039
531991	5498919	L1200-25	L120	25	316.993
531997.1	5498943	L1200-50	L120	50	321.997
531995.1	5498970	L1200-75	L120	75	315.958
531996.5	5498992	L1200-100	L120	100	322.922
532003.7	5499022	L1200-125	L120	125	327.502
532002.9	5499043	L1200-150	L120	150	321.557
532002	5499068	L1200-175	L120	175	326.974
532009.1	5499095	L1200-200	L120	200	318.93
532011.6	5499121	L1200-225	L120	225	318.59
532014.2	5499144	L1200-250	L120	250	318.203

532014	5499166	L1200-275	L120	275	326.891
532019.1	5499194	L1200-300	L120	300	318.945
532021.3	5499218	L1200-325	L120	325	320.072
532023.2	5499239	L1200-350	L120	350	326.69
532025.9	5499271	L1200-375	L120	375	327.227
532029.2	5499294	L1200-400	L120	400	322.917
532032	5499320	L1200-425	L120	425	328.786
532034.5	5499345	L1200-450	L120	450	324.211
532036.8	5499371	L1200-475	L120	475	326.471
532039.7	5499395	L1200-500	L120	500	324.209
532042.6	5499419	L1200-525	L120	525	326.081
532045.1	5499445	L1200-550	L120	550	323.958
532047.4	5499470	L1200-575	L120	575	323.56
532050.1	5499495	L1200-600	L120	600	324.321
532053	5499519	L1200-625	L120	625	325.77
532055.5	5499545	L1200-650	L120	650	325.672
532056.7	5499567	L1200-675	L120	675	331.412
532056.1	5499605	L1200-700	L120	700	337.203
532063.2	5499619	L1200-725	L120	725	320.618
532067.1	5499646	L1200-750	L120	750	335.24
532058.3	5499664	L1200-775	L120	775	318.251
532070.4	5499694	L1200-800	L120	800	319.336
532073.5	5499720	L1200-825	L120	825	314.868
532076	5499745	L1200-850	L120	850	314.294
532078.6	5499769	L1200-875	L120	875	313.709
530838.9	5499446	L0-450	L0	450	320.835
530842.7	5499472	L0-475	L0	475	320.389
530843.4	5499498	L0-500	L0	500	323.224
530848	5499523	L0-525	L0	525	326.772
530848.2	5499549	L0-550	L0	550	323.505
530850.7	5499573	L0-575	L0	575	324.651
530852.9	5499598	L0-600	L0	600	324.409
530855.3	5499622	L0-625	L0	625	324.197
530857.6	5499647	L0-650	L0	650	324.095
530859.8	5499673	L0-675	L0	675	324.068
530861.9	5499698	L0-700	L0	700	324.268
530864.5	5499723	L0-725	L0	725	324.921
530867.5	5499744	L0-750	L0	750	336.898
530868.6	5499772	L0-775	L0	775	328.603
530871	5499798	L0-800	L0	800	328.145
530872.8	5499823	L0-825	L0	825	327.929

530875.5	5499848	L0-850	L0	850	327.969
530879.9	5499872	L0-875	L0	875	330.652
530880	5499898	L0-900	L0	900	327.896
530881.8	5499922	L0-925	L0	925	328.506
530884.7	5499948	L0-950	L0	950	327.197
530887.1	5499973	L0-975	L0	975	326.96
530889.5	5499997	L0-1000	L0	1000	326.491
530891.8	5500022	L0-1025	L0	1025	326.254
530893.7	5500048	L0-1050	L0	1050	325.983
530896.6	5500072	L0-1075	L0	1075	325.814
530898.9	5500097	L0-1100	L0	1100	325.755
530901.1	5500122	L0-1125	L0	1125	325.63
530903.4	5500147	L0-1150	L0	1150	325.643
530905.8	5500172	L0-1175	L0	1175	325.189
530908	5500197	L0-1200	L0	1200	325.166
530910.3	5500223	L0-1225	L0	1225	325.082
530912.6	5500247	L0-1250	L0	1250	324.922
530914.9	5500272	L0-1275	L0	1275	324.81
530917.3	5500298	L0-1300	L0	1300	324.62
530919.7	5500322	L0-1325	L0	1325	324.146
530921.8	5500347	L0-1350	L0	1350	324.025
530924.1	5500372	L0-1375	L0	1375	323.659
530926.5	5500397	L0-1400	L0	1400	323.452
530928.7	5500422	L0-1425	L0	1425	323.359
530931	5500447	L0-1450	L0	1450	323.308
530933.2	5500472	L0-1475	L0	1475	323.817
530935.6	5500499	L0-1500	L0	1500	329.075
530939.5	5500520	L0-1525	L0	1525	327.265
530941	5500545	L0-1550	L0	1550	331.67
530942.1	5500573	L0-1575	L0	1575	326.218
530944.3	5500598	L0-1600	L0	1600	327.014
530947.2	5500623	L0-1625	L0	1625	329.293
530948.7	5500648	L0-1650	L0	1650	328.558
530964.7	5500791	L0-1800	L0	1800	329.23
530965.8	5500815	L0-1825	L0	1825	331.121
530965	5500841	L0-1850	L0	1850	330.567
530964	5500867	L0-1875	L0	1875	338.513
530966.1	5500889	L0-1900	L0	1900	337.456
530966.3	5500919	L0-1925	L0	1925	334.417
530965.7	5500941	L0-1950	L0	1950	336.25
530965.6	5500966	L0-1975	L0	1975	333.012

530965.9	5500991	L0-2000	L0	2000	330.019
530965.9	5501016	L0-2025	L0	2025	331.695
530966.1	5501041	L0-2050	L0	2050	333.656
530966.3	5501065	L0-2075	L0	2075	342.057
530969.9	5501088	L0-2100	L0	2100	345.503
530966.4	5501116	L0-2125	L0	2125	345.429
530967.6	5501139	L0-2150	L0	2150	351.468
530967.3	5501165	L0-2175	L0	2175	348.539
530966.8	5501189	L0-2200	L0	2200	350.052
530966.6	5501214	L0-2225	L0	2225	351.106
530966.7	5501240	L0-2250	L0	2250	352.811
530966.7	5501264	L0-2275	L0	2275	352.872
530969.3	5501289	L0-2300	L0	2300	359.488
530966.9	5501314	L0-2325	L0	2325	353.301
530966.7	5501339	L0-2350	L0	2350	353.216
530966.7	5501364	L0-2375	L0	2375	351.8
530966.8	5501389	L0-2400	L0	2400	351.944
530965.8	5501412	L0-2425	L0	2425	355.633
530967.2	5501440	L0-2450	L0	2450	353.726
530967.6	5501466	L0-2475	L0	2475	356.773
530966.4	5501491	L0-2500	L0	2500	352.759
530796.7	5499002	L0-0	L0	0	315.455
530798.9	5499024	L0-25	L0	25	315.8
530801.3	5499049	L0-50	L0	50	316.323
530803.8	5499074	L0-75	L0	75	316.758
530806.5	5499099	L0-100	L0	100	317.813
530808.3	5499124	L0-101	L0	101	317.544
530812.8	5499149	L0-150	L0	150	319.373
530813.1	5499174	L0-175	L0	175	315.955
530815.3	5499199	L0-200	L0	200	316.319
530817.9	5499224	L0-225	L0	225	316.418
530820.2	5499249	L0-250	L0	250	317.064
530822.6	5499274	L0-275	L0	275	317.436
530825.1	5499299	L0-300	L0	300	318.017
530827	5499323	L0-325	L0	325	318.702
530831.4	5499347	L0-350	L0	350	329.193
530833.1	5499373	L0-375	L0	375	319.996
530834.6	5499398	L0-400	L0	400	319.929
530836.9	5499423	L0-425	L0	425	320.353
532297	5498868	L1500-0	L150	0	321.571
532296.5	5498894	L1500-25	L150	25	316.763

532296.9	5498917	L1500-50	L150	50	322.334
532299.5	5498945	L1500-75	L150	75	327.315
532298.9	5498968	L1500-100	L150	100	322.332
532301.7	5498993	L1500-125	L150	125	325.732
532306.7	5499021	L1500-150	L150	150	324.83
532300.1	5499057	L1500-175	L150	175	331.355
532307.5	5499069	L1500-200	L150	200	329.716
532308.4	5499091	L1500-225	L150	225	325.264
532310	5499143	L1500-275	L150	275	319.011
532308.6	5499118	L1500-250	L150	250	319.892
532311.2	5499168	L1500-300	L150	300	319.271
532312.6	5499193	L1500-325	L150	325	319.248
532314.3	5499217	L1500-350	L150	350	319.078
532314.8	5499240	L1500-375	L150	375	326.685
532317.3	5499266	L1500-400	L150	400	323.41
532318.8	5499291	L1500-425	L150	425	321.652
532320.7	5499317	L1500-450	L150	450	320.444
532326.3	5499343	L1500-475	L150	475	328.31
532323	5499368	L1500-500	L150	500	325.616
532325.3	5499391	L1500-525	L150	525	326.691
532326.6	5499417	L1500-550	L150	550	325.465
532330.7	5499442	L1500-575	L150	575	335.109
532332.7	5499466	L1500-600	L150	600	322.813
532325.7	5499481	L1500-625	L150	625	342.766
532333	5499516	L1500-650	L150	650	329.458
532335.7	5499539	L1500-675	L150	675	327.878
532338.4	5499566	L1500-700	L150	700	325.733
532342.8	5499589	L1500-725	L150	725	326.293
532345.8	5499612	L1500-750	L150	750	328.202
532346.1	5499639	L1500-775	L150	775	321.51
532348.8	5499664	L1500-800	L150	800	322.068
532351.5	5499689	L1500-825	L150	825	319.658
532354.7	5499714	L1500-850	L150	850	317.913
532357.2	5499739	L1500-875	L150	875	316.851
532356.1	5499762	L1500-900	L150	900	322.522
532363.3	5499787	L1500-925	L150	925	314.822
532365.8	5499812	L1500-950	L150	950	314.472
532592.5	5498846	L1500-951	L150	951	315.647
532592.6	5498845	L1800-0	L180	0	315.697
532598.1	5498869	L1800-25	L180	25	315.737
532603.9	5498895	L1800-50	L180	50	315.965

532609.4	5498919	L1800-75	L180	75	316.51
532614.9	5498943	L1800-100	L180	100	317.27
532619.2	5498967	L1800-125	L180	125	319.52
532626	5498992	L1800-150	L180	150	321.274
532630.5	5499017	L1800-175	L180	175	321.481
532633.7	5499052	L1800-200	L180	200	317.686
532636.5	5499076	L1800-225	L180	225	316.894
532640	5499101	L1800-250	L180	250	319.526
532640.7	5499123	L1800-275	L180	275	323.139
532639.5	5499150	L1800-300	L180	300	319.739
532638.9	5499176	L1800-325	L180	325	319.024
532638.1	5499200	L1800-350	L180	350	322.187
532629.9	5499227	L1800-375	L180	375	318.543
532632.1	5499249	L1800-400	L180	400	321.125
532628.8	5499273	L1800-425	L180	425	321.021
532628.3	5499299	L1800-450	L180	450	317.348
532628.2	5499324	L1800-475	L180	475	317.06
532630.2	5499349	L1800-500	L180	500	316.869
532633.8	5499374	L1800-525	L180	525	317.362
532636.6	5499399	L1800-550	L180	550	317.185
532639.9	5499424	L1800-575	L180	575	317.548
532646.4	5499449	L1800-600	L180	600	321.449
532649.7	5499472	L1800-625	L180	625	319.063
532652.9	5499498	L1800-650	L180	650	319.446
532658	5499521	L1800-675	L180	675	318.595
532662	5499545	L1800-700	L180	700	325.59
532663.2	5499571	L1800-725	L180	725	323.688
532663	5499596	L1800-750	L180	750	322.367
532661.9	5499619	L1800-775	L180	775	326.153
532662.1	5499646	L1800-800	L180	800	323.711
532660.9	5499670	L1800-825	L180	825	324.049
532659.9	5499696	L1800-850	L180	850	325.266
532661.3	5499721	L1800-875	L180	875	325.097
532668.1	5499745	L1800-900	L180	900	323.796
532676.4	5499767	L1800-925	L180	925	321.305
532683.2	5499790	L1800-950	L180	950	316.517
532685.9	5499814	L1800-975	L180	975	313.784
532912.7	5499014	L2100-200	L210	200	314.936
532911.3	5498992	L2100-175	L210	175	313.886
532909.9	5498970	L2100-150	L210	150	314.114
532913.4	5499039	L2100-225	L210	225	315.479

532913.6	5499064	L2100-250	L210	250	315.467
532914.3	5499090	L2100-275	L210	275	315.632
532917	5499115	L2100-300	L210	300	315.981
532918	5499140	L2100-325	L210	325	316.067
532919.3	5499166	L2100-350	L210	350	316.347
532921.5	5499216	L2100-400	L210	400	318.24
532920	5499189	L2100-375	L210	375	319.346
532925.9	5499237	L2100-425	L210	425	326.404
532926.5	5499291	L2100-475	L210	475	324.598
532929.9	5499316	L2100-500	L210	500	323.289
532930.9	5499342	L2100-525	L210	525	320.415
532933.6	5499367	L2100-550	L210	550	320.303
532940.5	5499417	L2100-600	L210	600	320.923
532936.6	5499392	L2100-575	L210	575	320.772
532937	5499438	L2100-625	L210	625	330.095
532948.9	5499466	L2100-650	L210	650	322.404
532953.3	5499491	L2100-675	L210	675	327.063
532958.2	5499516	L2100-700	L210	700	325.761
532961.8	5499540	L2100-725	L210	725	319.787
532965.5	5499565	L2100-750	L210	750	316.571
532968.4	5499589	L2100-775	L210	775	316.388
532971.5	5499615	L2100-800	L210	800	316.149
532974.2	5499640	L2100-825	L210	825	315.993
532976.5	5499665	L2100-850	L210	850	315.837
532979.5	5499690	L2100-875	L210	875	315.914
532981.6	5499715	L2100-900	L210	900	315.735
532983.8	5499740	L2100-925	L210	925	315.639
532985.6	5499765	L2100-950	L210	950	315.658
532988.9	5499791	L2100-975	L210	975	315.214
532989.9	5499815	L2100-1000	L210	1000	317.073
532992.3	5499841	L2100-1025	L210	1025	315.881
532992.7	5499866	L2100-1050	L210	1050	315.843
532994.4	5499891	L2100-1075	L210	1075	316.58
532995.8	5499916	L2100-1100	L210	1100	317.936
532997.4	5499941	L2100-1125	L210	1125	319.451
532998.8	5499966	L2100-1150	L210	1150	325.324
532999.3	5499991	L2100-1175	L210	1175	322.324
533000.9	5500017	L2100-1200	L210	1200	323.103
533002.7	5500041	L2100-1225	L210	1225	321.231
533005.9	5500067	L2100-1250	L210	1250	323.589
533007.3	5500092	L2100-1275	L210	1275	324.916

533009.7	5500117	L2100-1300	L210	1300	319.81
533011.9	5500141	L2100-1325	L210	1325	320.713
533014.8	5500168	L2100-1350	L210	1350	317.114
533017.1	5500214	L2100-1400	L210	1400	324.727
533023.2	5500244	L2100-1425	L210	1425	318.532
533026.5	5500268	L2100-1450	L210	1450	318.726
533028.8	5500292	L2100-1475	L210	1475	318.381
533032.3	5500317	L2100-1500	L210	1500	321.513
533037.9	5500343	L2100-1525	L210	1525	316.186
533040.2	5500368	L2100-1550	L210	1550	318.289
533042.9	5500393	L2100-157	L210	-157	315.64
533044.7	5500418	L2100-1600	L210	1600	315.173
533045.2	5500443	L2100-1625	L210	1625	314.903
533046.3	5500468	L2100-1650	L210	1650	314.63
533045.5	5500493	L2100-1675	L210	1675	314.683
533044	5500519	L2100-1700	L210	1700	314.427
533041.8	5500544	L2100-1725	L210	1725	314.18
533040.2	5500569	L2100-1750	L210	1750	313.71
533197.4	5498970	L2400-175	L240	175	314.133
533198.9	5498989	L2400-200	L240	200	314.12
533201	5499015	L2400-225	L240	225	314.515
533202.9	5499040	L2400-250	L240	250	314.711
533204.8	5499064	L2400-275	L240	275	314.949
533206.4	5499089	L2400-300	L240	300	315.001
533208.7	5499114	L2400-325	L240	325	315.079
533210.9	5499139	L2400-350	L240	350	315.088
533212.8	5499163	L2400-375	L240	375	315.51
533214.4	5499189	L2400-400	L240	400	315.724
533216.4	5499214	L2400-425	L240	425	316.071
533218.4	5499239	L2400-450	L240	450	316.497
533221	5499265	L2400-475	L240	475	316.881
533223	5499290	L2400-500	L240	500	317.889
533224.9	5499315	L2400-525	L240	525	318.945
533226.8	5499340	L2400-550	L240	550	318.238
533227.8	5499366	L2400-575	L240	575	322.368
533232.9	5499390	L2400-600	L240	600	323.358
533233	5499417	L2400-625	L240	625	322.648
533237.8	5499467	L2400-675	L240	675	322.482
533240.9	5499492	L2400-700	L240	700	324.238
533241.8	5499518	L2400-725	L240	725	322.765
533243.9	5499542	L2400-750	L240	750	319.059

533245.5	5499568	L2400-775	L240	775	319.267
533248.2	5499594	L2400-800	L240	800	317.906
533250.3	5499616	L2400-825	L240	825	317.243
533252.6	5499644	L2400-850	L240	850	316.844
533255	5499670	L2400-875	L240	875	316.516
533257.3	5499695	L2400-900	L240	900	316.267
533259.6	5499721	L2400-925	L240	925	316.232
533262.2	5499746	L2400-950	L240	950	316.363
533264.3	5499771	L2400-975	L240	975	316.245
533266.3	5499795	L2400-1000	L240	1000	319.343
531806.3	5500165	L900-1250	L900	1250	313.832
531808.6	5500190	L900-1275	L900	1275	314.238
531810.3	5500214	L900-1300	L900	1300	314.147
531813.2	5500240	L900-1325	L900	1325	314.434
531815.5	5500264	L900-1350	L900	1350	314.715
531817.7	5500290	L900-1375	L900	1375	314.464
531820	5500315	L900-1400	L900	1400	314.669
531822.2	5500340	L900-1425	L900	1425	314.765
531824.5	5500365	L900-1450	L900	1450	314.667
531826.9	5500389	L900-1475	L900	1475	314.638
531829.3	5500415	L900-1500	L900	1500	314.599
531831.5	5500440	L900-1525	L900	1525	314.763
531834.3	5500463	L900-1550	L900	1550	315.027
531836.1	5500490	L900-1575	L900	1575	315.34
531838.3	5500515	L900-1600	L900	1600	315.182
531840.6	5500540	L900-1625	L900	1625	315.015
531842.4	5500565	L900-1650	L900	1650	314.746
531850.3	5500647	L900-1725	L900	1725	314.768
531852.6	5500672	L900-1750	L900	1750	314.818
531854.8	5500697	L900-1775	L900	1775	314.944
531857.1	5500723	L900-1800	L900	1800	315.234
531859.3	5500748	L900-1825	L900	1825	315.457
531862	5500770	L900-1850	L900	1850	318.019
531865.1	5500823	L900-1900	L900	1900	321.827
531866.2	5500846	L900-1925	L900	1925	319.967
531870.8	5500875	L900-1950	L900	1950	318.076
531868.7	5500898	L900-1975	L900	1975	325.42
531875.5	5500925	L900-2000	L900	2000	317.771
531877.6	5500951	L900-2025	L900	2025	317.948
531880	5500977	L900-2050	L900	2050	316.655
531882	5501000	L900-2075	L900	2075	316.42

531884.4	5501025	L900-2100	L900	2100	316.062
531886.8	5501050	L900-2125	L900	2125	316.221
531889	5501075	L900-2150	L900	2150	316.116
531891.1	5501100	L900-2175	L900	2175	316.356
531893.5	5501125	L900-2200	L900	2200	316.596
531895.7	5501149	L900-2225	L900	2225	316.252
531897.8	5501175	L900-2250	L900	2250	316.488
531900.2	5501200	L900-2275	L900	2275	316.417
531902.4	5501224	L900-2300	L900	2300	316.563
531904.7	5501249	L900-2325	L900	2325	316.249
531906.8	5501274	L900-2350	L900	2350	316.737
531909.2	5501299	L900-2375	L900	2375	316.807
531911.4	5501324	L900-2400	L900	2400	316.94
531913.7	5501349	L900-2425	L900	2425	317.173
531915.7	5501373	L900-2450	L900	2450	317.604
531918.2	5501399	L900-2475	L900	2475	317.703
531920.4	5501424	L900-2500	L900	2500	317.693
532101.2	5500089	L1200-1200	L120	1200	313.362
532103.6	5500117	L1200-1225	L120	1225	313.428
532105.4	5500139	L1200-1250	L120	1250	313.621
532107.3	5500164	L1200-1275	L120	1275	313.58
532109.4	5500188	L1200-1300	L120	1300	313.687
532113.5	5500240	L1200-1350	L120	1350	314.369
532115.1	5500259	L1200-1375	L120	1375	314.614
532117	5500284	L1200-1400	L120	1400	314.603
532118.7	5500309	L1200-1425	L120	1425	315.31
532121.3	5500334	L1200-1450	L120	1450	314.533
532123.4	5500359	L1200-1475	L120	1475	314.52
532125.3	5500384	L1200-1500	L120	1500	314.766
532127.3	5500409	L1200-1525	L120	1525	314.292
532128.9	5500433	L1200-1550	L120	1550	317.105
532131.1	5500459	L1200-1575	L120	1575	314.922
532133.5	5500484	L1200-1600	L120	1600	314.944
532135.6	5500509	L1200-1625	L120	1625	315.008
532138.2	5500536	L1200-1650	L120	1650	314.66
532140.1	5500562	L1200-1675	L120	1675	317.671
532141.2	5500585	L1200-1700	L120	1700	316.159
532148.5	5500611	L1200-1725	L120	1725	318.404
532146.6	5500638	L1200-1750	L120	1750	322.861
532147.1	5500662	L1200-1775	L120	1775	322.787
532150.5	5500686	L1200-1800	L120	1800	320.371

532151.5	5500713	L1200-1825	L120	1825	322.123
532153.9	5500736	L1200-1850	L120	1850	322.859
532150.1	5500751	L1200-1875	L120	1875	334.358
532158.8	5500786	L1200-1900	L120	1900	318.6
532158	5500811	L1200-1925	L120	1925	324.903
532163.1	5500836	L1200-1950	L120	1950	319.007
532164.7	5500860	L1200-1975	L120	1975	317.502
532166.6	5500884	L1200-2000	L120	2000	317.784
532168.6	5500909	L1200-2025	L120	2025	323.971
532171.4	5500936	L1200-2050	L120	2050	324.455
532172.4	5500959	L1200-2075	L120	2075	318.786
532173.9	5500984	L1200-2100	L120	2100	317.828
532176.4	5501009	L1200-2125	L120	2125	321.637
532179	5501036	L1200-2150	L120	2150	321.385
532183.9	5501058	L1200-2175	L120	2175	327.559
532183.6	5501084	L1200-2200	L120	2200	323.025
532184.8	5501110	L1200-2225	L120	2225	320.117
532188.6	5501134	L1200-2250	L120	2250	324.702
532189	5501159	L1200-2275	L120	2275	319.369
532190.7	5501185	L1200-2300	L120	2300	320.435
532193.2	5501208	L1200-2325	L120	2325	322.464
532193.6	5501238	L1200-2350	L120	2350	329.736
532197.1	5501259	L1200-2375	L120	2375	317.988
532197.3	5501289	L1200-2400	L120	2400	327.135
532201.1	5501308	L1200-2425	L120	2425	323.791
532205	5501335	L1200-2450	L120	2450	326.108
532206.8	5501360	L1200-2475	L120	2475	324.382
532207.2	5501388	L1200-2500	L120	2500	333.204
533384.1	5500946	L2400-2175	L240	2175	314.555
533386.7	5500971	L2400-2200	L240	2200	314.393
533388.9	5500996	L2400-2225	L240	2225	314.592
533391.4	5501021	L2400-2250	L240	2250	314.953
533393.8	5501046	L2400-2275	L240	2275	315.034
533396.1	5501070	L2400-2300	L240	2300	315.242
533399	5501095	L2400-2325	L240	2325	317.235
533402.5	5501119	L2400-2350	L240	2350	318.697
533403.6	5501144	L2400-2375	L240	2375	320.188
533399.5	5501169	L2400-2400	L240	2400	309.699
533409.5	5501190	L2400-2425	L240	2425	330.598
533409.7	5501218	L2400-2450	L240	2450	320.735
533411	5501243	L2400-2475	L240	2475	323.432

533414.9	5501268	L2400-2500	L240	2500	323.575
532731.2	5500527	L1800-1700	L180	1700	313.542
532733.7	5500551	L1800-1725	L180	1725	313.733
532736	5500577	L1800-1750	L180	1750	313.7
532738.6	5500602	L1800-1775	L180	1775	314.406
532741	5500627	L1800-1800	L180	1800	314.85
532743.6	5500652	L1800-1825	L180	1825	314.879
532746	5500677	L1800-1850	L180	1850	315.014
532748.5	5500702	L1800-1875	L180	1875	315.328
532750.9	5500727	L1800-1900	L180	1900	315.214
532753.3	5500752	L1800-1925	L180	1925	315.207
532755.7	5500777	L1800-1950	L180	1950	315.361
532758.2	5500803	L1800-1975	L180	1975	315.457
532760	5500828	L1800-2000	L180	2000	315.501
532762.9	5500852	L1800-2025	L180	2025	315.677
532767.8	5500903	L1800-2075	L180	2075	315.848
532770.1	5500927	L1800-2100	L180	2100	315.733
532772.5	5500952	L1800-2125	L180	2125	315.944
532775	5500978	L1800-2150	L180	2150	316.023
532777.4	5501002	L1800-2175	L180	2175	316.206
532780	5501027	L1800-2200	L180	2200	316.155
532782.4	5501052	L1800-2225	L180	2225	316.442
532785.1	5501077	L1800-2250	L180	2250	316.492
532787.6	5501102	L1800-2275	L180	2275	316.456
532790.3	5501127	L1800-2300	L180	2300	316.622
532792.8	5501152	L1800-2325	L180	2325	316.942
532795.5	5501177	L1800-2350	L180	2350	316.826
532798.2	5501201	L1800-2375	L180	2375	317.385
532800.7	5501226	L1800-2400	L180	2400	317.454
532805.3	5501253	L1800-2425	L180	2425	313.844
532801.6	5501273	L1800-2450	L180	2450	320.249
532807.7	5501302	L1800-2475	L180	2475	321.544
532809.9	5501327	L1800-2500	L180	2500	324.333
532434	5500345	L1500-1500	L150	1500	313.905
532435.1	5500370	L1500-1525	L150	1525	314.226
532436.3	5500395	L1500-1550	L150	1550	314.174
532437.7	5500420	L1500-1575	L150	1575	314.19
532438.8	5500445	L1500-1600	L150	1600	314.913
532439.8	5500465	L1500-1625	L150	1625	317.723
532441.1	5500494	L1500-1650	L150	1650	320.462
532442.3	5500518	L1500-1675	L150	1675	322.44

532443.5	5500543	L1500-1700	L150	1700	320.702
532446	5500591	L1500-1725	L150	1725	315.461
532447.4	5500615	L1500-1750	L150	1750	315.464
532449	5500641	L1500-1775	L150	1775	315.434
532450.3	5500666	L1500-1800	L150	1800	315.509
532451.7	5500691	L1500-1825	L150	1825	315.656
532453.5	5500716	L1500-1850	L150	1850	315.635
532454.4	5500741	L1500-1875	L150	1875	318.415
532456.8	5500765	L1500-1900	L150	1900	318.095
532457.7	5500790	L1500-1925	L150	1925	318.278
532459	5500816	L1500-1950	L150	1950	315.876
532460.3	5500840	L1500-1975	L150	1975	316.048
532461.6	5500865	L1500-2000	L150	2000	316.113
532463.7	5500890	L1500-2025	L150	2025	317.87
532465	5500914	L1500-2050	L150	2050	319.831
532466.1	5500939	L1500-2075	L150	2075	316.302
532468.8	5500963	L1500-2100	L150	2100	318.519
532468.7	5500987	L1500-2125	L150	2125	320.581
532469.8	5501014	L1500-2150	L150	2150	320.659
532475.2	5501038	L1500-2175	L150	2175	319.956
532473.4	5501064	L1500-2200	L150	2200	318.532
532476.1	5501090	L1500-2225	L150	2225	321.845
532475.7	5501113	L1500-2250	L150	2250	321.486
532477.1	5501137	L1500-2275	L150	2275	320.933
532479.1	5501164	L1500-2300	L150	2300	324.225
532479.3	5501188	L1500-2325	L150	2325	321.802
532484.6	5501209	L1500-2350	L150	2350	328.694
532483.5	5501238	L1500-2375	L150	2375	322.562
532486.9	5501261	L1500-2400	L150	2400	325.392
532486.1	5501287	L1500-2425	L150	2425	322.025
532487.9	5501314	L1500-2450	L150	2450	324.203
532490.1	5501339	L1500-2475	L150	2475	322.539
532490.2	5501387	L1500-2500	L150	2500	322.014
533038.1	5500611	L2100-1800	L210	1800	313.76
533040	5500635	L2100-1825	L210	1825	314.023
533042.7	5500660	L2100-1850	L210	1850	314.142
533045.5	5500685	L2100-1875	L210	1875	314.169
533048.2	5500710	L2100-1900	L210	1900	314.605
533051	5500735	L2100-1925	L210	1925	314.598
533053.7	5500760	L2100-1950	L210	1950	314.607
533056.6	5500784	L2100-1975	L210	1975	314.784

533059.5	5500809	L2100-2000	L210	2000	314.737
533061	5500833	L2100-2025	L210	2025	315.859
533065.6	5500859	L2100-2050	L210	2050	316.36
533068	5500884	L2100-2075	L210	2075	315.548
533070.8	5500909	L2100-2100	L210	2100	315.728
533073.6	5500934	L2100-2125	L210	2125	315.686
533076.7	5500959	L2100-2150	L210	2150	315.465
533079.5	5500983	L2100-2175	L210	2175	315.462
533082.4	5501008	L2100-2200	L210	2200	315.569
533085.3	5501033	L2100-2225	L210	2225	315.579
533088	5501058	L2100-2250	L210	2250	315.565
533091	5501083	L2100-2275	L210	2275	315.665
533093.7	5501108	L2100-2300	L210	2300	315.679
533096.7	5501133	L2100-2325	L210	2325	315.908
533099.7	5501157	L2100-2350	L210	2350	315.871
533102.4	5501182	L2100-2375	L210	2375	315.922
533105.3	5501207	L2100-2400	L210	2400	315.935
533108	5501232	L2100-2425	L210	2425	316.084
533110.9	5501256	L2100-2450	L210	2450	316.481
533113.7	5501281	L2100-2475	L210	2475	316.568
533119.1	5501305	L2100-2500	L210	2500	323.859
533270.2	5499821	L2400-1025	L240	1025	317.575
533271.3	5499846	L2400-1050	L240	1050	316.545
533273.4	5499871	L2400-1075	L240	1075	316.032
533275.6	5499898	L2400-1100	L240	1100	318.069
533279	5499923	L2400-1125	L240	1125	315.525
533281.3	5499949	L2400-1150	L240	1150	315.67
533281.8	5499971	L2400-1175	L240	1175	321.114
533286.6	5499999	L2400-1200	L240	1200	315.546
533289.1	5500023	L2400-1225	L240	1225	315.637
533291.5	5500048	L2400-1250	L240	1250	315.911
533294	5500073	L2400-1275	L240	1275	316.205
533296.6	5500098	L2400-1300	L240	1300	316.336
533298.2	5500123	L2400-1325	L240	1325	320.777
533300.5	5500148	L2400-1350	L240	1350	319.696
533302.9	5500172	L2400-1375	L240	1375	317.929
533307.6	5500196	L2400-1400	L240	1400	321.281
533308.9	5500222	L2400-1425	L240	1425	320.324
533310.9	5500243	L2400-1450	L240	1450	324.242
533315.6	5500272	L2400-1475	L240	1475	317.394
533316.7	5500296	L2400-1500	L240	1500	317.462

533320	5500322	L2400-1525	L240	1525	319.33
533322.9	5500345	L2400-1550	L240	1550	319.988
533326.3	5500368	L2400-1575	L240	1575	326.329
533327.4	5500394	L2400-1600	L240	1600	320.799
533330.3	5500420	L2400-1625	L240	1625	318.959
533330.7	5500444	L2400-1650	L240	1650	320.295
533332.6	5500470	L2400-1675	L240	1675	325.439
533340.7	5500493	L2400-1700	L240	1700	323.24
533338.6	5500521	L2400-1725	L240	1725	320.795
533344	5500541	L2400-1750	L240	1750	322.618
533346.6	5500564	L2400-1775	L240	1775	323.754
533347.6	5500592	L2400-1800	L240	1800	316.18
533349.9	5500618	L2400-1825	L240	1825	316.702
533352.9	5500643	L2400-1850	L240	1850	315.096
533355.5	5500668	L2400-1875	L240	1875	314.703
533358.2	5500692	L2400-1900	L240	1900	314.622
533361.1	5500717	L2400-1925	L240	1925	314.566
533363	5500742	L2400-1950	L240	1950	314.429
533366	5500766	L2400-1975	L240	1975	314.26
533368.6	5500791	L2400-2000	L240	2000	314.149
533371	5500815	L2400-2025	L240	2025	314.058
533373.4	5500841	L2400-2050	L240	2050	313.898
533376	5500864	L2400-2075	L240	2075	313.897
533379.2	5500894	L2400-2100	L240	2100	313.517

Soil Sampling Field Notes

Site #	Date	Easting	Northing	Elev (m)	Sample Site Type	Sample #	Horizon Type	Depth (m)	Sample Colour	Sample Texture	Clast Comments
900E_09	06/29/16	531762	5499832	306	Swamp/floating bog beside lake	274592	A	0-0.50	Dark brown-black	bog material(sticks and moss with black medium-grained organic material)	No clasts
900E_08	06/29/16	531749	5499724	320	Flat area along cut line. Birch, spruce, and cedar	274593	A	0-0.15	Dark brown-black	bog material(sticks and moss with black medium-grained organic material)	No clasts
900E_07	06/29/16	531751	5499618	335	Slightly higher ground with spruce and birch	274594	A	0-0.05	Grey-beige	Sandy	5% pebbles/granules; rounded felsic and granitoid rocks
900E_08	06/29/16	531749	5499724	320	Flat area along cut line. Birch, spruce, and cedar	227109	C	0.80-1.10	Light grey-brown	Clay to silt, very hard and solidified	No visible clasts
900E_06	06/29/16	531743	5499528	335	Swampy, flat area with spruce, birch, and cedar trees	274595	A	0-0.28	Very dark brown to black	organic black material w/ moss, sticks and roots	No clasts
900E_05	06/29/16	531736	5499421	333	Flat area with spruce trees. Swampy	274596	A	0-0.71	Dark brown to black	organic black material w/ moss, sticks and roots	No clasts
900E_07	06/29/16	531751	5499618	335	Slightly higher ground with spruce and birch	227110	C	0.60-0.90	Light brown-beige	Sandy	25% clasts; <3cm in size (pebble size); rounded granitoid and angular mafic rocks

900E_04	01/07/2016	531730	5499329	331	Swampy, alder and balsam	274597	A	0-1.20	Dark brown to black	muskeg/ peat moss material with wood content	No clasts
900E_03	01/07/2016	531724	5499227	305	Swampy, spruce, alder and balsam	274598	A	0-1.20	Dark brown	Peat moss material with wood	No clasts
900E_02	01/07/2016	531718	5499119	313	Swampy, spruce, alder and balsam	274599	A	0-1.20	Dark brown to black	Woody/peat moss material	No clasts
900E_01	01/07/2016	531713	5499025	320	Swampy, spruce and alder	274600	A	0-1.20	Dark brown	Woddy peat moss/swamp material	No clasts
300E_07	03/07/2016	531153	5499671	334	Cedar swamp	274651	B	0.12-0.40	Med brown-grey	Silty coarse sand grading to clay	15% semi round 1-5mm various litho clasts
300E_06	03/07/2016	531152	5499570	330	Cedar and balsam forest	274652	A	0-0.10	Black grading to dark grey-black	Black dirt grading to silty sand/gravel	10% verious litho semi rounded pebbles
300E_06	03/07/2016	531152	5499570	330	Cedar and balsam forest	274653	B	0.10-1.06	Med light beige	Packed silty sand. Slightly more clay content with depth	5-10% 1-5mm various litho semi rounded clasts
300E_05	03/07/2016	531144	5499472	336	Cedar, spruce, alder	274654	A	0-0.12	Dark brown to black grading to med grey	Organics grading to sand	10% small pebbles. Various litho
300E_05	03/07/2016	531144	5499472	336	Cedar, spruce, alder	274655	B	0.12-0.34	Med brown-beige	Sand	5% semi round various litho clasts
00E_05	03/07/2016	530840	5499496	330	Wet ground. Poplar, balsam,	274656	A	0-0.80	Dark brown	Swamp/ peat moss material	No clasts

					birch and spruce				to black		
00E_05	03/07/2016	530840	5499496	330	Wet ground. Poplar, balsam, birch and spruce	274657	B	0.80-1.20	Med beige to grey	Packed clay	5-10% semi angular various litho clasts. 1mm to 1cm
00E_04	03/07/2016	530842	5499403	332	Mossy. Spruce, poplar and cedar	274658	A	0-0.11	Dark brown	Organics/peat moss material	No clasts
1200E_08	01/07/2016	532085	5499715	293	Dry ground, birch, poplar and balsam	227111	C	0.95-1.20	Light grey-beige	Clay	No visible clasts
00E_04	03/07/2016	530842	5499403	332	Mossy. Spruce, poplar and cedar	274659	B	0.11-0.49	Med-dark brown beige	Packed clay	No clasts
00E_09	04/07/2016	530877	5499910	345	Spruce and balsam forest	274660	A	0-0.09	Dark brown	Organics	No Clasts
1200E_07	01/07/2016	532064	5499597	324	High ground. Poplar, birch, and balsam	227112	C	0.50-0.90	Light beige	fine sand	10-15% semi round clasts. Various lithologies. 1mm to 1.5cm
00E_09	04/07/2016	530877	5499910	345	Spruce and balsam forest	274661	B	0.09-0.52	Med grey-beige	Silty sand	10% round various litho pebbles
00E_08	04/07/2016	530868	5499799	310	Spruce, balsam and alder	274662	A	0-0.05	Dark brown	Mossy organics	No clasts
1200E_06	01/07/2016	532051	5499498	330	High ground. Spruce and balsam	227113	C	0.39-1.16	Light beige grading to med brown-beige	Fine sand	1-2% semi round various litho clasts. 0.5cm

00E_08	04/07/2016	530868	5499799	310	Spruce, balsam and alder	274663	B	0.05-0.57	Med brown-beige	Hard packed clay	No clasts
00E_07	04/07/2016	530803	5499704	308	Wet area. Alder and spruce	274664	A	0-0.55	Very dark brown to black	Fine grained soil with some organics	No clasts
1200E_05	01/07/2016	532038	5499382	326	High ground. Mossy with spruce trees	227114	C	0.40-0.67	Light beige	Sand/Gravel	50% 2mm to 1cm round various litho clasts
00E_07	04/07/2016	530803	5499704	308	Wet area. Alder and spruce	274665	B	0.55-0.98	Med beige-grey	Hard packed clay	No clasts
00E_06	04/07/2016	530855	5499625	313	Wet area. Spruce and balsam	274666	A	0-0.59	Dark brown	Peat moss/ organic material	No clasts
1200E_04	01/07/2016	532031	5499295	335	High ground. Poplar, birch, and balsam	227115	C	0.50-0.98	1-2mm varves of light beige to light brown-beige	Packed clay	No clasts
00E_06	04/07/2016	530855	5499625	313	Wet area. Spruce and balsam	274667	B	0.59-1.04	Med beige	Packed clay	No clasts
00E_03	04/07/2016	530822	5499303	314	Spruce and poplar forest. Mossy ground	274668	A	0-0.35	Dark grey-black to black	Fine grained silty dirt with some organics	No clasts
1200E_03	01/07/2016	532021	5499191	323	High ground. Balsam, birch, and poplar	227116	C	0.65-1.20	Med brown orange	Fine sand	No visible clasts

00E_02	04/07/2016	530818	5499206	321	Wet area	274669	A	0-1.20	Dark brown to black	Peat moss/woody material	No clasts
00E_01	04/07/2016	530799	5499106	301	Poplar and spruce. Mossy ground	274670	A	0-0.05	Dark brown	Organics/soil	No clasts
1200E_00	02/07/2016	531980	5498902	329	Poplar, spruce and alder	227117	C	0.41-1.12	Light beige	Clay	No clasts
00E_01	04/07/2016	530799	5499106	301	Poplar and spruce. Mossy ground	274671	B	0.05-0.42	Med brown	Packed clay	No clasts
900E_08	06/29/16	531749	5499724	320	Flat area along cut line. Birch, spruce, and cedar	274766	B	0.15-0.40	Medium brown	Very fine grained clay sized. Hard, looks lithified/consolidated	No visible clasts
1200E_01	02/07/2016	531991	5498991	324	Balsam, poplar and spruce	227118	C	0.78-1.20	Light beige	Fine silty sand	No clasts
900E_07	06/29/16	531751	5499618	335	Slightly higher ground with spruce and birch	274767	B	0.10-0.40	Medium brown	Sandy	10% clasts; mixture of rounded granitoids/quartz and angular mafic rocks;<1cm in size
900E_06	06/29/16	531743	5499528	335	Swampy, flat area with spruce, birch, and cedar trees	274768	B	0.28-0.95	Light beige-brown	Clay to silt, very hard and solidified	<1% dark mafic clasts; <1mm in size; angular
1200E_02	02/07/2016	532010	5499088	323	Balsam, poplar and alder	227119	C	0.60-1.20	Light beige	Fine sand/silt w/ 50% silt content (1-2mm scale varves)	No clasts
900E_05	06/29/16	531736	5499421	333	Flat area with spruce trees. Swampy	274769	B	0.71-1.15	Beige-grey	Fine grained clay	NO visible clasts

900E_00	01/07/2016	531711	5498924	306	Swampy, spruce and alder	274770	A	0-1.20	Dark brown to black	Muddy swamp material	No clasts
1200E_08.75	01/07/2016	532080	5499767	310	Near lake, swamp/marsh	274771	A	0-1.20	Dark brown	Mossy/ swamp material	No clasts
1200E_08	01/07/2016	532085	5499715	293	Dry ground, birch, poplar and balsam	274772	A	0-0.10	Dark brown to black	Swampy peat moss material with roots and sticks	No clasts
300E_03	02/07/2016	531120	5499273	300	poplar and spruce	227120	C	0.58-1.10	Light beige	Packed clay grading to fine sand	5% round various litho clasts. 2mm to 1.5cm
1200E_08	01/07/2016	532085	5499715	293	Dry ground, birch, poplar and balsam	274773	B	0.10-0.95	Medium grey	Clay	No visible clasts
1200E_07	01/07/2016	532064	5499597	324	High ground. Poplar, birch, and balsam	274774	A	0-0.07	Dark brown	Mossy material with moss and sticks	No clasts
300E_04	02/07/2016	531128	5499368	331	Spruce, poplar and alder forest	227121	C	0.53-0.92	Light brown-beige	Silt/clay to fine sand	15% round 1mm to 1cm various litho clasts
1200E_07	01/07/2016	532064	5499597	324	High ground. Poplar, birch, and balsam	274775	B	0.07-0.37	Med brown-orange grading to med brown-beige	silty sand grading to clay	2-3% semi round granitoid clasts. 0.5-1cm
1200E_06	01/07/2016	532051	5499498	330	High ground. Spruce and balsam	274776	A	0-0.06	Black to med brown-grey grading to light grey	Silty sand/mossy with organics	No clasts

300E_09	02/07/2016	531167	5499873	328	Mossy. Spruce and balsam	227122	C	0.80-1.15	Light brown-beige	Fine silty sand	2% semi angular mafic clasts
1200E_06	01/07/2016	532051	5499498	330	High ground. Spruce and balsam	274777	B	0.06-0.39	Med brown-orange	Silty sand	5% semi round felsic clasts. 2mm to 1cm
1200E_05	01/07/2016	532038	5499382	326	High ground. Mossy with spruce trees	274778	A	0-0.10	Dark brown-grey	Sandy gravel with moss and roots	15% semi round 2mm-1cm various litho clasts.
300E_08	02/07/2016	531171	5499780	336	Spruce, alder, balsam forest	227123	C	0.36-0.54	Med to light brown-beige	Sand	25% round 1-5mm various litho clasts
1200E_05	01/07/2016	532038	5499382	326	High ground. Mossy with spruce trees	274779	B	0.10-0.40	Med brown	Gravel/sand	30% semi round various litho clasts. 2mm to 2.5cm
1200E_04	01/07/2016	532031	5499295	335	High ground. Poplar, birch, and balsam	274780	A	0-0.07	Dark brown grading to light grey	Mossy/ organics grading to silty sand	No clasts
300E_07	03/07/2016	531153	5499671	334	Cedar swamp	227124	C	0.40-1.20	Light grey-beige	Clay grading to sand	5-10% semi round verious litho clasts. 1mm to 1cm
1200E_04	01/07/2016	532031	5499295	335	High ground. Poplar, birch, and balsam	274781	B	0.07-0.50	Med brown-orange	Silty sand	No clasts
1200E_03	01/07/2016	532021	5499191	323	High ground. Balsam, birch, and poplar	274782	A	0-0.17	Dark brown grading to light	Organic layer with silty sand	No clasts

									grey		
1200E_03	01/07/2016	532021	5499191	323	High ground. Balsam, birch, and poplar	274783	B	0.17-0.58	Med brown orange	Silty sand with minor clay content	1% semi round mafic clasts. 1mm to 5mm
1200E_00	02/07/2016	531980	5498902	329	Poplar, spruce and alder	274784	A	0-0.06	Dark brown-red	Organics/peat moss	No clasts
300E_05	03/07/2016	531144	5499472	336	Cedar, spruce, alder	227125	C	0.58-1.09	Light beige	Clay grading to more silty material	5% 1mm various litho semi rounded clasts
1200E_00	02/07/2016	531980	5498902	329	Poplar, spruce and alder	274785	B	0.06-0.41	Med brown - beige	Silt/clay	No clasts
1200E_01	02/07/2016	531991	5498991	324	Balsam, poplar and spruce	274786	A	0-0.05	Dark brown grading to light brown-beige	Mossy/organics grading to clay/silt	No clasts
1200E_01	02/07/2016	531991	5498991	324	Balsam, poplar and spruce	274787	B	0.05-0.78	Med brown-beige	Hard packed clay	No clasts
1200E_02	02/07/2016	532010	5499088	323	Balsam, poplar and alder	274788	A	0-0.08	Dark brown to black	Mossy/organics	No clasts
00E_04	03/07/2016	530842	5499403	332	Mossy. Spruce, poplar and cedar	227126	C	0.49-1.20	Light beige	Packed clay	No clasts
1200E_02	02/07/2016	532010	5499088	323	Balsam, poplar and alder	274789	B	0.08-0.60	Med-light brown-beige	Packed clay/silt	No clasts

300E_01.50	02/07/2016	531113	5499124	314	Wet low land, swampy with some spruce trees	274790	A	0-1.20	Dark brown to black	Peat moss/bog material with some wood content	No clasts
00E_09	04/07/2016	530877	5499910	345	Spruce and balsam forest	227127	C	0.52-0.70	Light beige-grey	Packed silty sand. Slightly more clay content with depth	15% round various litho clasts 2mm to 2cm
300E_02	02/07/2016	531118	5499167	306	Wet mossy bush. Spruce, balsam, and alder	274791	A	0-1.20	Dark brown to black	Peat moss/ bog material with some wood content	No clasts
300E_03	02/07/2016	531120	5499273	300	poplar and spruce	274792	A	0-0.09	Dark brown to black	Mossy with organics and peat moss material	No clasts
00E_08	04/07/2016	530868	5499799	310	Spruce, balsam and alder	227128	C	0.57-1.00	Light beige	Hard packed clay	No clasts
300E_03	02/07/2016	531120	5499273	300	poplar and spruce	274793	B	0.09-0.58	Med beige-grey	Packed clay	No clasts
300E_04	02/07/2016	531128	5499368	331	Spruce, poplar and alder forest	274794	A	0-0.11	Dark brown to black	Mossy organics	No clasts
00E_07	04/07/2016	530803	5499704	308	Wet area. Alder and spruce	227129	C	0.98-1.19	Light beige	Packed clay with sandy/fine gravel lenses	5% 1-4mm semi rounded various litho clasts
300E_04	02/07/2016	531128	5499368	331	Spruce, poplar and alder forest	274795	B	0.11-0.53	Med brown-beige	Silt/clay	No clasts
300E_09	02/07/2016	531167	5499873	328	Mossy. Spruce and balsam	274796	A	0-0.18	Dark brown to black grading to dark	Organics grading to silty sand/clay	No clasts

									grey		
00E_06	04/07/2016	530855	5499625	313	Wet area. Spruce and balsam	227130	C	1.04-1.20	Light beige	Packed clay	No clasts
300E_09	02/07/2016	531167	5499873	328	Mossy. Spruce and balsam	274797	B	0.18-0.80	Med brown-orange	Silty sand	No clasts
300E_08	02/07/2016	531171	5499780	336	Spruce, alder, balsam forest	274798	A	0-0.12	Dark brown	Mossy organics	No clasts
300E_08	02/07/2016	531171	5499780	336	Spruce, alder, balsam forest	274799	B	0.12-0.36	Light brown-beige with lighter beige lenses	Silty sand	10% 1-5mm semi round various litho clasts
300E_07	03/07/2016	531153	5499671	334	Cedar swamp	274800	A	0-0.12	Dark brown	Organics with peat moss/woody material	No clasts
00E_01	04/07/2016	530799	5499106	301	Poplar and spruce. Mossy ground	227131	C	0.42-0.93	Light beige	Packed clay	No clasts

Grab Sample Descriptions

sample#	Easting	Northing	Rock Type	Comments
226501	532340	5499653	Iron Formation	boulder; dark grey, non-mg; qz>bi>amph; minor (\leq 1%) dissem py; it contains a layer of black chert that also bears dissem py
226502	531486	5499772	Sandstone w Quartz Vein	black quartz-fsp vein w/ no or trace very fine grained sulfides in bi-schist
226503	532305	5499838	Mafic Volcanic/Mudstone	alternating light grey and brown strongly silicified compositional banding; light grey bands are of qz-chl-trace very fine gr. Sulfides (py?); brown layers are of qz-bi
226504	534538	5499439	Host Rock Replacement/Arsenopyrite-silica	fine grained semi massive arsenopyrite and pyrite replacing weakly magnetic lapilli tuff; selective replacement
226505	532408	5499877	Sandstone/Schist	biotite schist; a strong foliation is defined by alternating bi- and qz-fsp-bi streaks; it seems to have contained disseminated sulfides that are now weathered out and appear as rusty spots; rusty fracture forms an outstanding ridge on the weathered surface
226507	533749	5502176	Mafic Volcanic	massive, dark greenish grey; chl>plag>amph>qz; contains a greenish stringer of qz-mg-py surrounded by few mm thick silicified halo
226508	534179	5501134	Quartz-Feldspar Porphyry	coarse QFP; plag>qz phenocrysts (avg size: 1-2 mm); trace black magnetic patches of mg-po
226509	532391	5500037	Sandstone/Iron Formation w Biotite Schist and Quartz/Sulphides	magnetic bi schist; bi>qz-plag; bi defines a strong foliation; a qz-py=po stringer is oriented 22 CW to foliation; 2-3% disseminated py in the schist; py grains are elongated parallel to foliation;
226510	531457	5499543	Mafic Volcanic w Quartz Vein & Sulphides	yellow-orange-red-grey laminated qz vein w/ submm black ribbons of the host rock; trace py appears predominantly in the grey qz and very rarely in the red/orange qz
226511	530878	5500016	Mafic Volcanic/Siltstone	represents compositional banding defined by alternating qz-fsp>>bi and bi-qz>plag-bearing layers (2-3 cm thickness); contains elongated rusty spots (weathered out sulfides?) in the bi schist
226512	531498	5499872	Mafic Intrusive	coarse grained phenocrystic plag-qz-chl \pm bi bearing rock; phenocrysts have an avg grain size of 1-2 mm; Chl \pm bi replaces amphiboles/px?

226513	530878	5500016	Mafic Volcanic/Siltstone w Quartz Vein	black and lesser white qz vein w/ late fractures filled w/ plag; open-space filling w/ rusty bi
226514	531937	5499776	Mafic Volcanic w Quart Vein/Sulphides	silicified ridge composed of 70 % qz and 30% apmhibole-chl±bi in the host rock surrounding ca. 2 mm thick qz veinlet; very rare apy specks both in the vein and in the silicified ridge
226516	532129	5500008	Iron Formation w Quartz/Sulphides	white, rarely black and locally rusty red qz± trace sulfide vein hosted by banded iron fm and surrounded by chl±bi alt halo
226517	531192	5500095	Sandstone w Quartz Vein	boudinaged locally rusty white-grey-black qz vein hosted by qz-amphibole±chlorite-bearing metavolcanic?
226518	531499	5499803	Sandstone w Quartz Vein	black qz vein reactivated by rusty feldspar vein (±sulfide/Fe-crb?) surrounded by bi alteration halo
226519	531767	5499580	Mafic Intrusive w Quartz Vein	laminated grey to white qz-feldspar vein w/ no visible sulfides but local rusty coloration
226520	532129	5500008	Iron Formation w Quartz Vein	laminated quartz-fsp-crb vein w/ trace rusty patches surrounded by chl±bi alteration halo in BIF
226521	532561	5500462	Mafic Volcanic w Quartz Vein	dark green, qz-chlorite-bearing very fine grained rock w/ 1% disseminated very fine grained py and rare spots of kfs; contains irregular sharp walled veins of qz-fsp-py
226523	531479	5499628	Mafic Intrusive w Quartz Vein	ca. 2 cm thick grey qz-fsp±bi? Vein w/ rusty spots (possibly sulfides?)
226524	530925	5500677	Feldspar Porphyry	QFP with plag, qz, bi, grt, trace disseminated apy; rusty streaks appear parallel to lineation along foliation plane
226525	532495	5500492	Mafic Volcanic	weakly mg, strongly silicified, Fe-crb and/or kfs altered, very fine grained dark green mafic metavolcanic? rock with rusty weathering
226526	533886	5499907	Mafic Volcanic Tuff w Quartz-carbonate/sulphides	white to red qz-crb±trace py vein in bi±chl? Schist; metavolc? Qz vein with ca. 0.5 cm thick chlorite halo is surrounded by trace disseminated pyrite both in and outside of the alteration halo
226527	531479	5499628	Mafic Intrusive w Quartz Vein	grey to pink qz-kfs? Veins in amphibole-qz ± plag ± chl ± minor bi ± trace disseminated sulfides? Trace patches of pinkish kfs alteration, completely rusted Fe-crb? Vein
226528	531187	5500116	Sandstone/Conglomerate	quartz>>bi-amph>grt-bearing matrix material of polymictic conglomerate w plenty of weathered rusty spots

226529	532422	5500602	Mafic Volcanic	very strongly lineated, chl-kfs-qz-ep bearing whose lin is def by elongated kfs and ep; contains <1 mm thick mg veinlet
226531	532408	5499877	Quartz-Sericite-Biotite Schist	"silicification front"; pervasively bi altered metasedimentary? Rock ls overprinted by light green strong siliceous alteration w/ minor (<1%) py&cpy forming a well defined front; No actual vein or fracture is present; the front is oriented 60-240°
226532	531479	5499628	Mafic Intrusive w Quartz-carbonate Vein	grey-black rusty quartz-feldspar-Fe-crb vein
226533	531499	5499803	Sandstone w Quartz Vein	rusty feldspar-quartz vein w/ Fe-crb
226534	530878	5500016	Mafic Volcanic/Siltstone	very fine grained bi-qz-bearing alteration halo surrounding a thick (few cm to a meter thick) qz vein; the alteration halo contains weathered sulfide grains, presumably py
226535	531193	5500040	Greywacke	non-magnetic, garnetiferous compositional banding is defined by alternating bands of qz>>bi-grt-trace sulfide and coarse amph-plag-qz-grt
226536	531479	5499628	Mafic Intrusive w Quartz-carbonate Vein/sulphides	grey-black quartz-crb vein w/ ±amph?-trace very fine grained disseminated sulfides
226537	532447	5500521	Mafic Volcanic	qz-chl/amph-kfs-bearing metavolc. w/ narrow epidote and 5 mm thick qz veins w/ very fine grained disseminated sulfides
226538	531457	5499543	Mafic Volcanic w Quartz-carbonate Vein/Sulphides	orange-grey qz-crb-sulfide vein in which the sulfides (submm py,cpy) are rather associated w/ the grey qz-bi±amph? Vein phase; the qz vein is postdated by a narrow crb vein; the vein is surrounded by a narrow pervasive bi-altered selvage
226540	531937	5499776	Mafic Volcanic w Quart Vein/Sulphides	sample of "silicification front"; contains a white-black qz vein; the white-orange qz veins phase and the wallrock contain fine-grained (<1mm) disseminated pyrite; the grey quartz vein phae does not contain visible sulfides; vein oriented: 63°/76°
226541	531192	5500095	Sandstone	coarse grained, very weakly mg, amphibole phenocrysts (up to over 1 cm in size) in microcrystalline qz-kfs-minor py-apy; a compositional banding is characterized by alternating coarse-gr. Amph-kfs and quartz-rich, kfs-void laminae
226542	534110	5501169	Fragmental tuff/tuff breccia	moderately magnetic, qz-plag-amph-mg-bearing metavolc. With a "silicification front" defined by light green non-magnetic qz-ep-py±cpy alteration selvage surrounding a submm thick black qz/amph? Stringer

226543	531388	5499557	Mafic Intrusive	dark green, coarse grained, pervasively chlorite altered non-mg, chl>qz>amph±ser? bearing mafic intrusive? Rock; the coarse gr. Chl replaces amph. Often exceeding 1 cm in size; it contains a white-grey-orange qz vein w/ no visible sulfides
226544	531729	5499681	Sandstone	mm- to cm-scale qz±fsp>amph and/or bi-bearing bands w/ trace disseminated py alternating w/ submm to few mm-thick bi-dominated laminae; contains rare grt and small, irregular fractures filled w/qz-crb
226545	534198	5501217	Fragmental tuff/tuff breccia	irregularly oriented amphiboles w/ interstitial white qz>plag with local patches of coarser amph<plag±qz; it contains white qz-crb shear vein w/ chlorite-amphibole-rich slivers of the wall rock and is surrounded by an alteration selvage of the same composition, no sulfides; a sharp-walled white qz veins has local rusty coloration and local alteration selvage of coarse bi-chl
226546	531152	5499789	Mafic Volcanic/Siltstone w Quartz Vein	white to dark grey fsp-crb vein w/ patchy or fracture-controlled? Rusty weathering; no visible sulfides
226547	531729	5499681	Sandstone w Quartz Vein	black quartz-fsp and/ or crb vein w/ rusty fractures that are weathered out (Fe-crb or sulfide?) in qz-dominated metased? host rock that contains trace very fine grained disseminated py and po
226548	531499	5499803	Sandstone w Quartz Vein	medium to dark grey quartz vein w/ local reactivated veins/irregular fractures filled w/ fsp; no visible sulfides
245951	533886	5499912	Mafic Tuff w Quartz Vein	white, locally rusty qz-fsp vein in dark green chl-qz-trace py-bearing rock
245952	533882	5499481	Mafic Volcanic	medium grey, brecciated massive mafic volc or lapilli tuff whose fractures are filled with milky white qz-ep?-± Fe-crb or chlorite-very fine gr. Py
245953	534022	5499206	Schist w Quartz-carbonate/sulphides	rusty qz-crb?-bi-trace sulph vein in very fine grained bi-schist
245954	532563	5500463	Mafic Volcanic	kfs streaks in dark grey/dark green amph±chl±bi-qz w/ trace disseminated py

Appendix D: IP Survey



ABITIBI
GEOPHYSICS

GREENSTONE GOLD MINES

INDUCED POLARIZATION SURVEY

VIPER PROJECT

MCBEAN LAKE AREA,
LONGLAC, ONTARIO, CANADA

LOGISTICS AND INTERPRETATION REPORT

16N037 AUGUST 2016



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Table 1. Maps produced

Map Number	Description	Scale
Induced Polarization Survey		
L 0+00E – L 24+00E (9 plates)	Dipole-Dipole Colour Apparent Resistivity & Chargeability Pseudosections and <i>Image2D™</i> True-depth Sections	1:5000
8.2_75	<i>Image2D™</i> Resistivity at a Depth of 75 m (ohm-m)	1:5000
8.2_150	<i>Image2D™</i> Resistivity at a Depth of 150 m (ohm-m)	1:5000
8.2_n1	Apparent Resistivity Contours (n=1) (ohm -m)	1:5000
8.2_n2	Apparent Resistivity Contours (n=2) (ohm-m)	1:5000
8.3_75	<i>Image2D™</i> Chargeability at a Depth of 75 m (mV/V)	1:5000
8.3_150	<i>Image2D™</i> Chargeability at a Depth of 150 m (mV/V)	1:5000
8.3_150	Apparent Chargeability Contours (n=1) (mV/V)	1:5000
8.3_150	Apparent Chargeability Contours (n=2) (mV/V)	1:5000
10.0	Geophysical Interpretation	1:5000

Pseudosection plates and colour maps are bound or inserted in pouches at the end of this report. Our Quality Control System requires every final map to be inspected by at least two qualified persons before being approved and included within a final report.

1. RESULTS AND RECOMMENDATIONS

☐ *NOTE – PREVIOUS SURVEY*

The location of the current IP survey partially covers a MAG-GPS grid completed by Abitibi Geophysics in 2015. The survey area overlap is shown in figure 2 below. The local geology of the survey area is shown in figure 1 below (left) with the MAG high trends and the strong conductive trends (right). The observed MAG highs are mostly correlated to known dykes and iron formations in the area. The strong conductive trend observed in the southern portion of the survey grid does not appear to be associated with these features.

In addition to the prior MAG survey there was an IP survey done in the same region in 1997 by Val-d'Or SAGAX. This survey was completed using the Pole-Dipole array with a 25 m station spacing and $N = 1 - 4$, meaning that this was a shallow survey having a depth of investigation of less than half of the current IP survey. The line spacing varies from 400 m to 800 m. As a result, 2D inversions were conducted on individual lines and the resulting vertical sections were plotted along the lines in plan view (figure 3). The 2D vertical sections are not comparable when plotted against the plan maps from the current survey.

The interpreted chargeable trends from the current and old IP surveys in the overlapping area are shown in figure 4. The surveys correlate well with each other, the resistivity low to the south, depicted in the red shaded region and labelled with (L) from the old IP correlates with the resistivity low corresponding to chargeable source **VP-10** in the current survey. One notable difference is that the smaller 25 m station spacing of the old survey, as opposed to the 50 m station spacing in the current survey, seems to have resolved the strong chargeable response correlating with **VP-10** into two separate chargeable sources.

Chargeable source **VP-08** also looks to continue west outside of the bounds of the current survey into the old IP.

☐ *RESISTIVITY*

The most interesting resistivity response observed is the low associated with chargeable source **VP-10**. This resistivity response is very strong and completely associated to the very strong chargeable response. This response is comparable to that of a graphitic or massive sulphide zone.

You can see that the northeast corner of the survey grid, is dominated by a blanket of low resistivity values, indicating a thick overburden cover ranging from -50 m towards the western extent and deepening to the east stretching to the entire depth of the sections (-150 m) in places. This is verified when looking at the chargeability map in figure 5 and is very noticeable in the northern portion of the pseudosections, beginning on L 9+00E. There is little to no penetration throughout this area. This resistivity low may be masking the response from any anomalous chargeability zones and causing observed anomalies to appear weak.

□ CHARGEABILITY

Following a detailed interpretation of the pseudosections and with the help of the recovered Image2D vertical sections, a total of **11 chargeability sources** were interpreted. These sources are illustrated on the *interpretation map 10.0*. Many of these anomalies (**VP-01**, **VP-03**, **VP-04**, **VP-05**, **VP-06**, **VP-08** and **VP-11**) are associated with areas where resistivity values are slightly elevated, indicating a silicified host rock or environment. One of the sources, **VP-09**, is associated discretely with a high resistivity response within a low resistivity region, indicating a small resistive feature within the more conductive surroundings.

There are two chargeable sources within the survey grid that have a low resistivity association, **VP-02** and **VP-10**. **VP-02** is a shallow and weak response that is possibly being masked within a large conductive region, whereas **VP-10** is a strong chargeable source that is directly associated with a low resistivity trend or strong conductive trend.

The chargeability sources observed are trending between 90° and 110°.

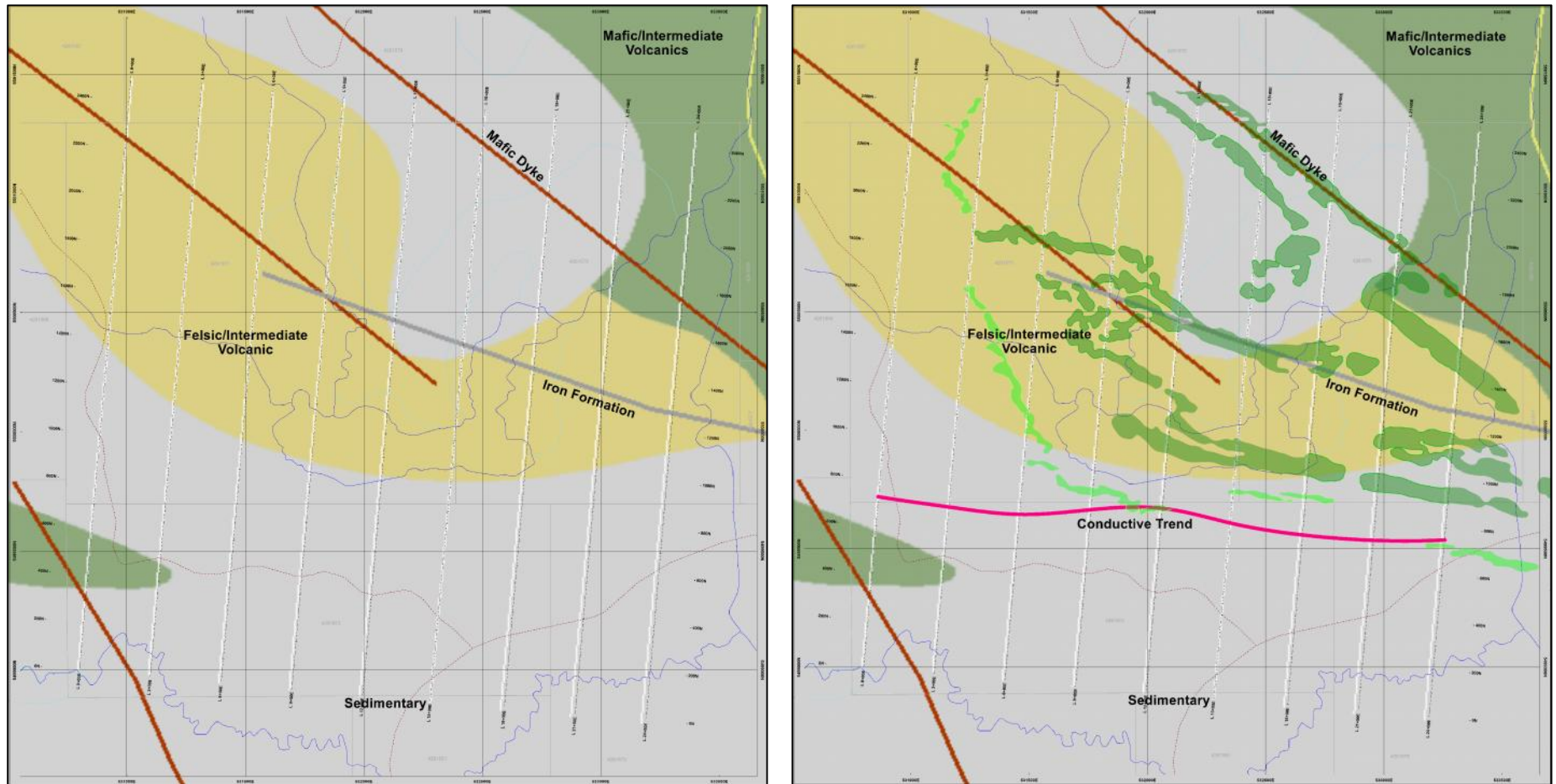


Figure 1. Local Geology (left) and local geology with MAG high trends in green and conductive trend in pink (right)

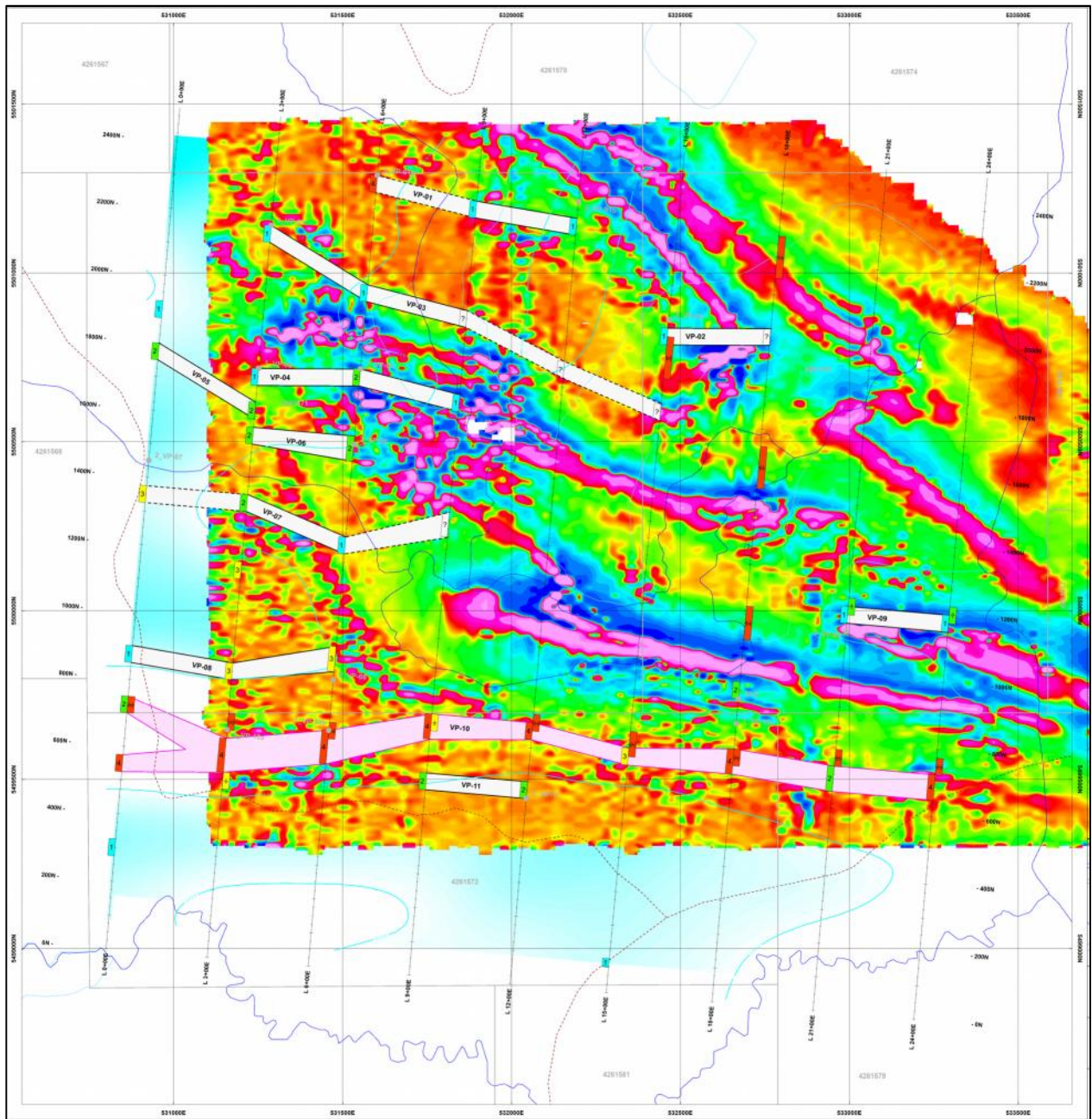


Figure 2. Vertical Derivative grid from 2015 MAG-GPS survey with chargeability trends (VP-01 – VP-11) from 2016 IP survey



Figure 3. 2D IP inversion sections from 1997 survey plotted in plan view with overlap from current survey outlined (red box)

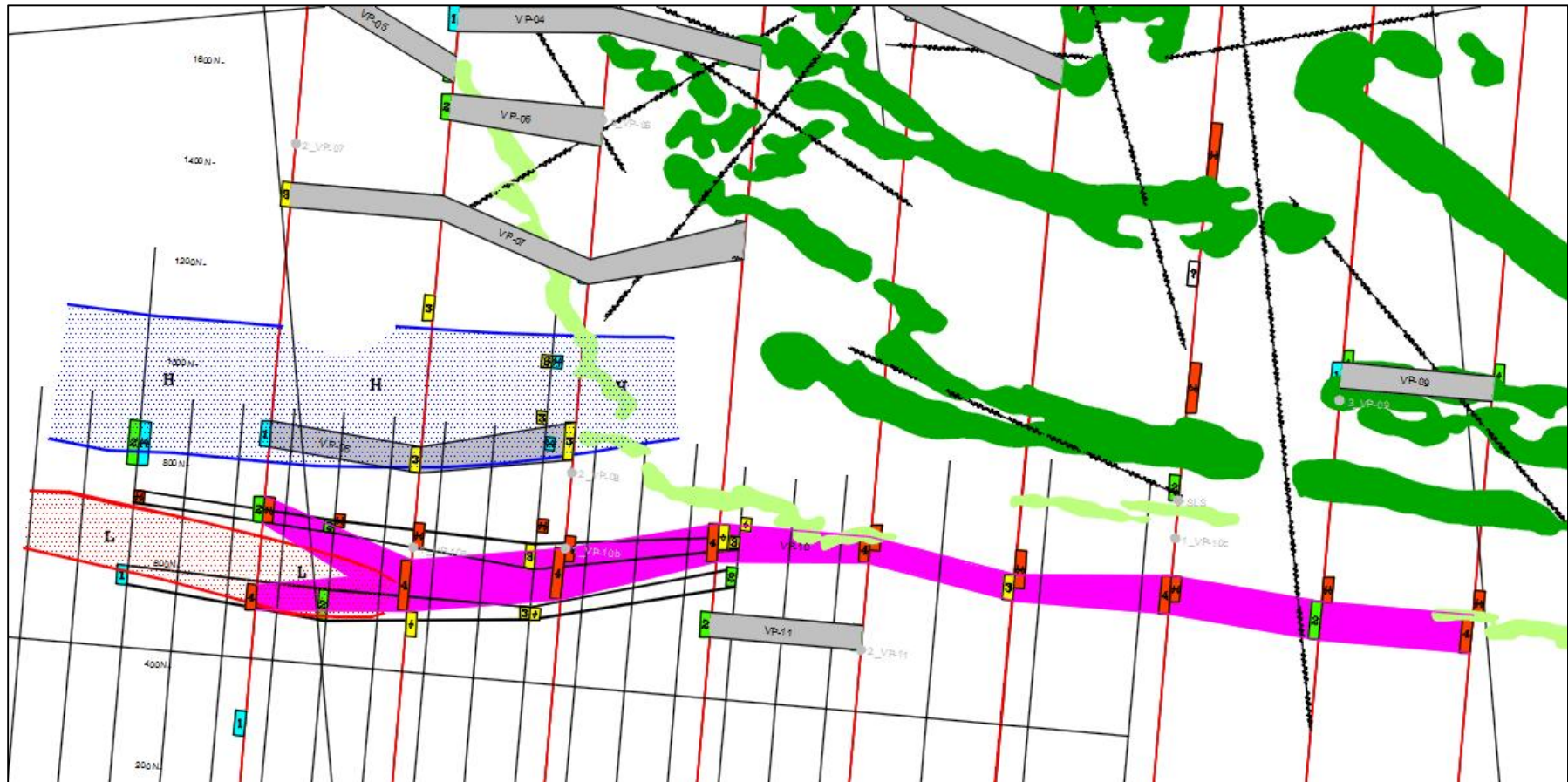


Figure 4. IP trends from current survey (red survey lines-grey shading) with IP trends from previous IP survey (black survey lines-no shading) with MAG trends (green)

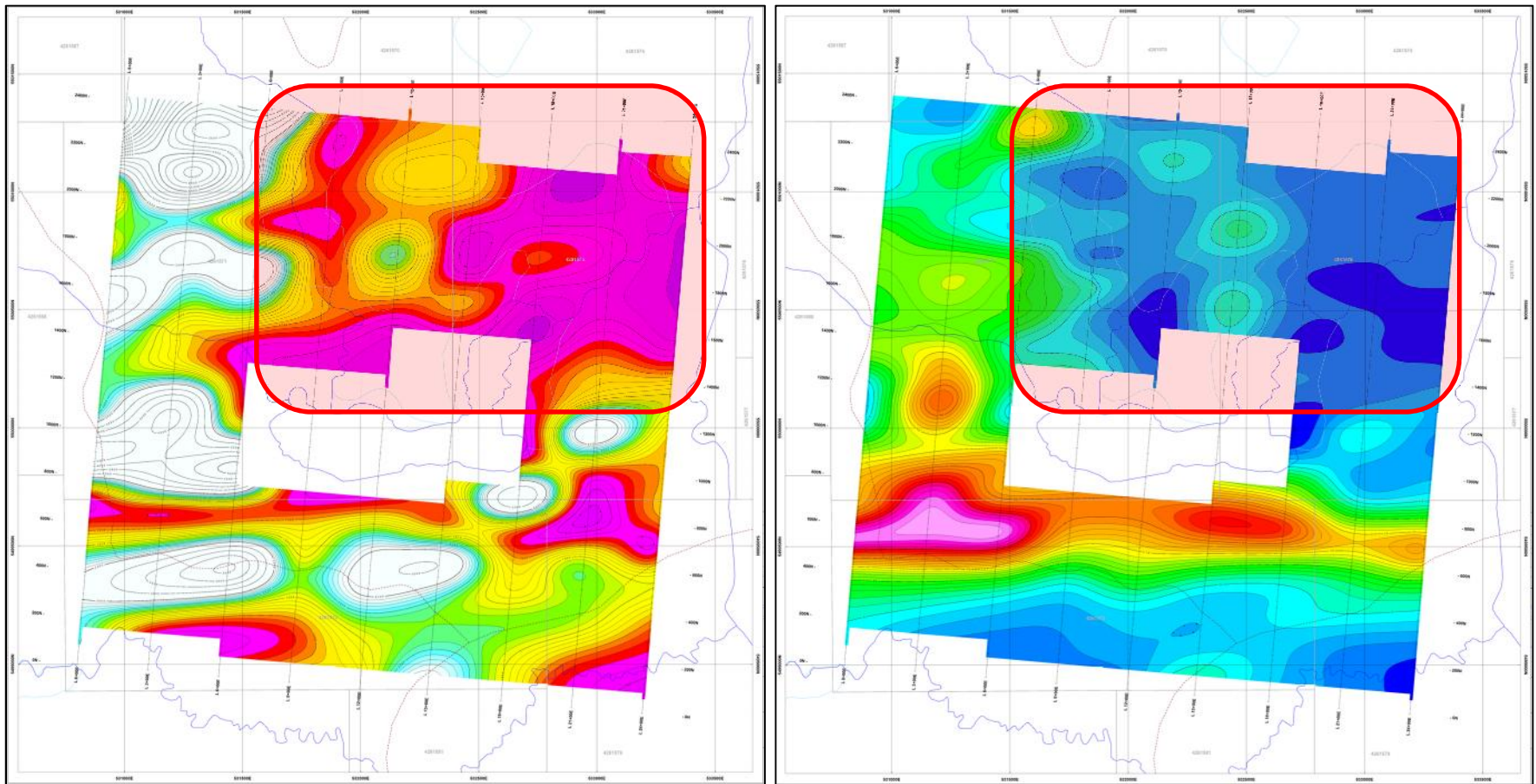


Figure 5. Inverted resistivity at -75 m (left) and inverted chargeability at -75 m (right) with area of conductive overburden and little penetration shown in red rectangle

□ FOLLOW UP

○ PROSPECTING / TRENCHING

Being that much of the grid seems to be dominated by low resistivity values and a potentially thick overburden, particularly in the northeast section of the grid, there are few chargeable responses that seem to be outcropping or near surface throughout the grid.

Table 2. Prospecting/Trenching Targets on Viper Project

Source (Priority_Source)	Location of the Target			Prospecting/Trenching Stations
	Line	Station	Depth (max to top of source)	
1_VP-10 1_VP-10 1_VP-10	6+00E 15+00E 21+00E	6+50N 7+00N 6+88N	-50 m -25 m -25 m	4+00N – 7+00N 5+50N – 7+00N 6+00N – 7+25N
2_VP-04 2_VP-04 2_VP-07 2_VP-08 2_VP-08 2_VP-08	3+00E 6+00E 3+00E 0+00E 3+00E 6+00E	17+25N 17+50N 13+50N 8+75N 8+50N 9+12N	-25 m -25 m -25 m -25 m -25 m -50 m	17+25N – 18+00N 17+00N – 18+00N 13+00N – 13+75N 8+50N – 9+50N 8+00N – 9+00N 8+00N – 10+00N
3_VP-01 3_VP-03 3_VP-03 3_VP-06 3_VP-09	6+00E 3+00E 12+00E 3+00E 21+00E	23+25N 21+50N 18+25N 15+50N 11+75N	-25 m -25 m -25 m -25 m -25 m	22+50N – 23+75N 18+00N – 19+00N 21+00N – 22+25N 15+25N – 16+00N 11+25N – 12+25N
4_Single Line Source 4_Single Line Source 4_Single Line Source	3+00E 15+00E 18+00E	11+50N 0+50N 9+25N	-25 m -25 m -25 m	10+50N – 12+00N 0+00N – 1+00N 8+50N – 9+75N

- *SURVEY EXTENSION*

This survey has identified interesting sources that are not fully resolved within the survey grid. It is recommended that additional survey lines be added with highest priority to the east and west of the survey grid to fully delineate the extent of the chargeable responses. Successful DDH results for high priority targets increases the potential benefit of survey extension.

Completing the current survey grid with a deep IP system such as Abitibi's OreVision IP™ is also suggested to cut through the conductive cover and properly delineate the weak chargeable trends found particularly in the northeast region of the survey grid (figure 5), and to possibly bring out things that are not able to be seen with the current survey configuration.

- *DRILLING*

A drilling program has been recommended to test the chargeable targets outlined in this report. Table 2 below lists DDH coordinates, target locations and anomaly descriptions. The pages following this table are 2D, along line, images of the selected drill targets.

- *NOTE: SURVEY RESOLUTION*

With a line spacing of 300 m there has to be a certain amount of interpolation in between the lines. This means for the plan maps the most reliable areas will be near the survey lines.

This also affects the interpretation map and the linking of chargeable sources from line to line. Caution should be taken when viewing the chargeable trends on the *interpretation map 10.0*, additional information at 100 m line spacing may extend or decrease the length of the chargeable trends observed.

The larger line spacing has also affected DDH targeting choices. Normally DDH selections would not be made near the edge of the survey grid or near the outside of a chargeable trend (last line showing the source). In this case many of the responses are only observed spanning 2 lines; available DDH choices may have changed slightly with added survey line density.

Table 3. Drilling Targets on Viper Property

DRILL HOLE (Priority_ Anomaly)	Type / Target Interest	Location of the Target			Proposed DDH					Figure	Page
		Line	Station	Depth	Line	Station	Az.	Dip	Length		
1_VP-05	Short trend of only 300 m, with a NE/SW trend, and moderate chargeability. Target is deep and not fully resolved with this survey, and sitting at the 150 m depth. No direct resistivity correlation but sitting in a fairly resistive environment.	3+00E	16+50N	-150 m	3+00E	17+50N	180°	63°	225 m	6	13
1_VP-10a	Very strong chargeability / low resistivity (conductive) source. It is a deep source, ranging from 125 – 150 m depth. There doesn't seem to be an associated MAG high relating this source to the iron formations in the area. This source spans the entire survey grid. This source has a signature similar to a massive sulphide mineralization or a graphitic zone.	3+00E	6+00N	-150 m	3+00E	6+75N	180°	58°	225 m	7	14
1_VP-10b	This DDH is testing the same source as above but further east along it's trend.	6+00E	6+50N	-150 m	6+00E	7+00N	180°	62°	225 m	8	14
1_VP-10c	This DDH is testing the same source as above but further east along it's trend.	18+00E	7+12N	-150 m	18+00E	8+25N	180°	63°	225 m	9	15
2_VP-04	Moderate to weakly chargeability source / sometimes associated with a slight rise in resistivity with a EW trend. It is quite shallow, ranging from 50 – 75 m depth and fully resolved with ~600 m strike length. This anomalous zone has potential for disseminated sulphide mineralization within a silicified zone.	6+00E	17+50N	-75 m	6+00E	17+75N	180°	65°	125 m	10	15
2_VP-07	Weak to strongly chargeability source, ~900 m in length, with a EW trend. Depth of source ranging from 50 – 150 m below surface. DDH targets the source from the edge of the survey grid since this is where the target appears deepest, strongest and most fully resolved.	0+00E	13+50N	-150 m	0+00E	14+50N	180°	60°	225 m	11	16

Table 3. Drilling Targets on Viper Property (con't)

DRILL HOLE (Priority_ Anomaly)	Type / Target Interest	Location of the Target			Proposed DDH					Figure	Page
		Line	Station	Depth	Line	Station	Az.	Dip	Length		
2_VP-08	Strong to weakly chargeability source / associated with a slight rise in resistivity with a EW trend. It is quite shallow, ranging from 50 – 75 m depth. This source is ~600 m in length and not fully resolved within the survey. This trend has potential for disseminated sulphide mineralization within a silicified zone.	6+00E	9+12N	-75 m	6+00E	8+50N	0°	52°	200 m	12	16
2_VP-11	Moderate chargeability source / sitting just south of the very strong conductor that spans the grid in the south, with a NE trend. Ranging from 100 – 125 m depth and sitting just on the southern flank of the strongest chargeable response seen from VP-10 .	12+00E	26+25N	-100 m	12+00E	5+50N	0°	57°	225 m	13	17
3_VP-01a	Strong to weakly chargeability source, with an EW trend. Depth ranges from 75 (west) – 150 m (east). It is a short trend of only ~600 m that is fully resolved within the survey grid. The change in depth and strength from the eastern to western extend suggests possibly two separate sources. This DDH tests the stronger and shallower portion in the west.	6+00E	23+25N	-75 m	6+00E	23+50N	180°	61°	150 m	14	17
3_VP-01b	This DDH tests the same source as above but in the weaker and deeper portion to the east.	12+00E	22+50N	-150 m	12+00E	23+25N	180°	62°	225 m	15	18
3_VP-02	Weak to questionable chargeability source, with a EW trend. Ranging in depth from 100 – 150 m. A short trend at ~300 m strike length. Positioned directly inside the region of thick conductive cover that may be inhibiting the response from this source.	15+00E	19+50N	-100 m	15+00E	20+00N	180°	63°	150 m	16	18
3_VP-03	Weak to questionable chargeability source, with a NE/SW trend. It is quite shallow, ranging from 50 – 75 m depth. A long trend (~1200 m) with a questionable continuity.	3+00E	21+50N	-50 m	3+00E	21+75N	180°	51°	250 m	17	19

Table 3. Drilling Targets on Viper Property (con't)

DRILL HOLE (Priority_ Anomaly)	Type / Target Interest	Location of the Target			Proposed DDH					Figure	Page
		Line	Station	Depth	Line	Station	Az.	Dip	Length		
3_VP-06	Moderate chargeability source / sometimes associated with a slight rise in resistivity with a EW trend. It is quite shallow, ranging from 25 – 50 m depth. This trend is short (~300 m) and narrow. This source has potential for disseminated sulphide mineralization within a silicified zone.	6+00E	15+37N	-50 m	6+00E	15+50N	180°	67°	100 m	18	19
3_VP-09	Weak chargeability response / directly associated with a significant rise in resistivity, within an otherwise conductive area. It is quite shallow, sitting at 50 - 75 m depth. This source is short ~ 300 m and is not fully resolved within this survey. This anomalous zone has potential for disseminated sulphide mineralization within a silicified zone.	21+00E	11+75N	-50 m	21+00E	11+25N	0°	50°	150 m	19	20
Single Line Source (SLS)	Moderate chargeability response / directly associated with a significant rise in resistivity, within an otherwise conductive area. It is quite shallow, sitting at 50 m depth. This source only shows up on one line but because of the large spacing it does have the potential to continue. This anomalous zone has potential for disseminated sulphide mineralization within a silicified zone.	18+00E	9+25N	-50 m	18+00E	9+00N	0°	60°	125 m	20	20

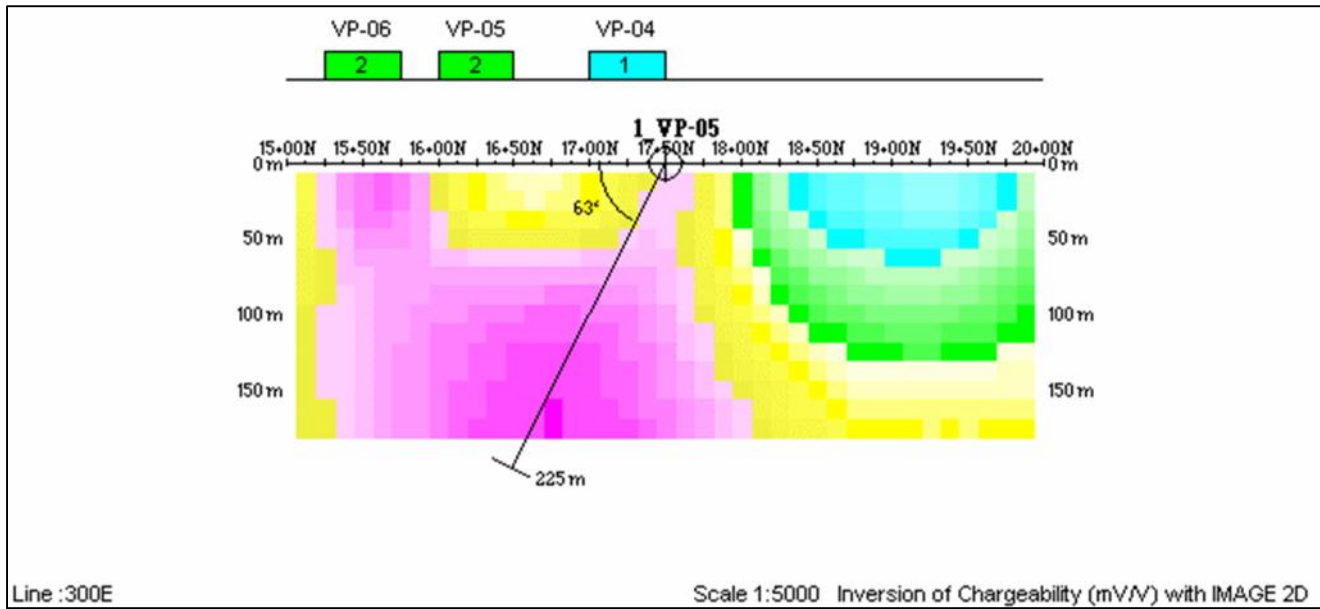


Figure 6. Proposed DDH 1_VP-05 on L 3+00E

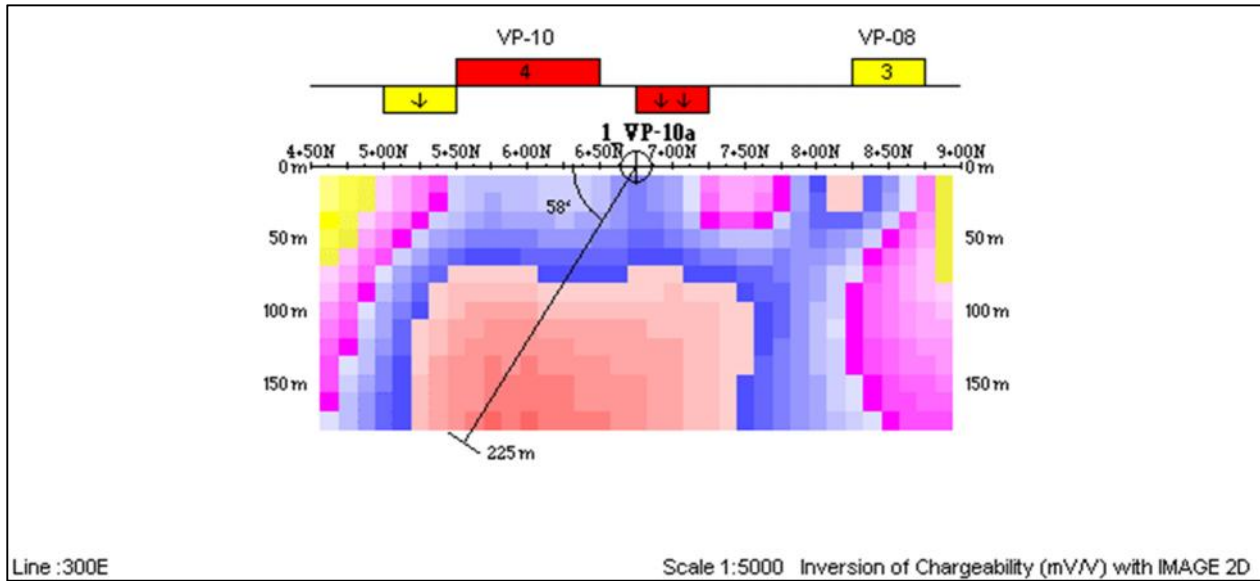


Figure 7. Proposed DDH 1_VP-10a on L 3+00E

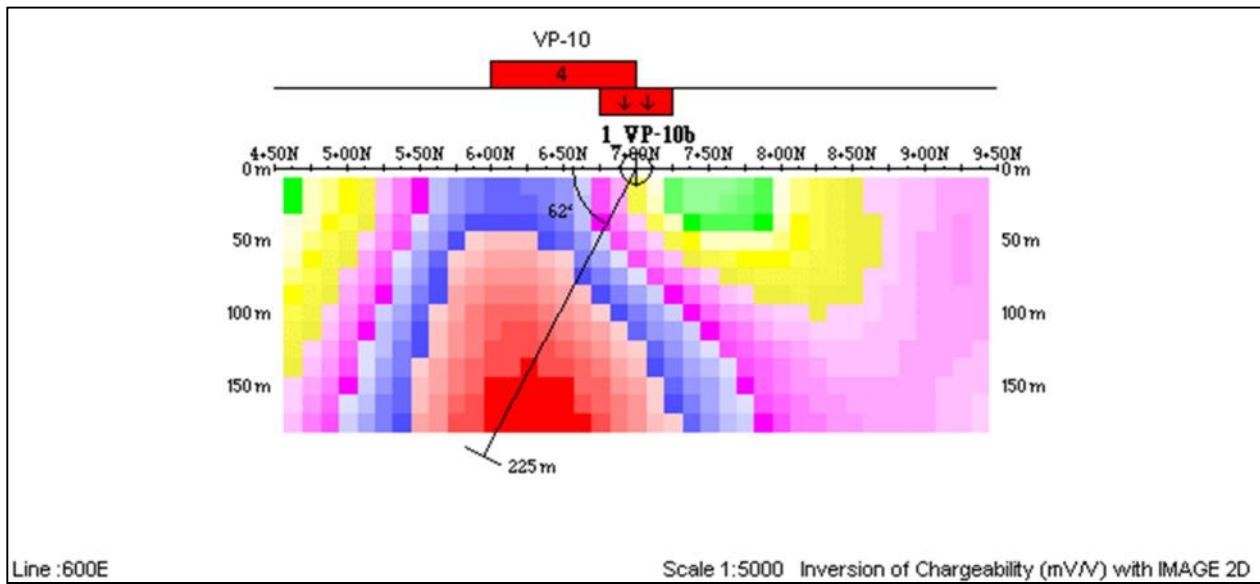


Figure 8. Proposed DDH 1_VP-10b on L 6+00E

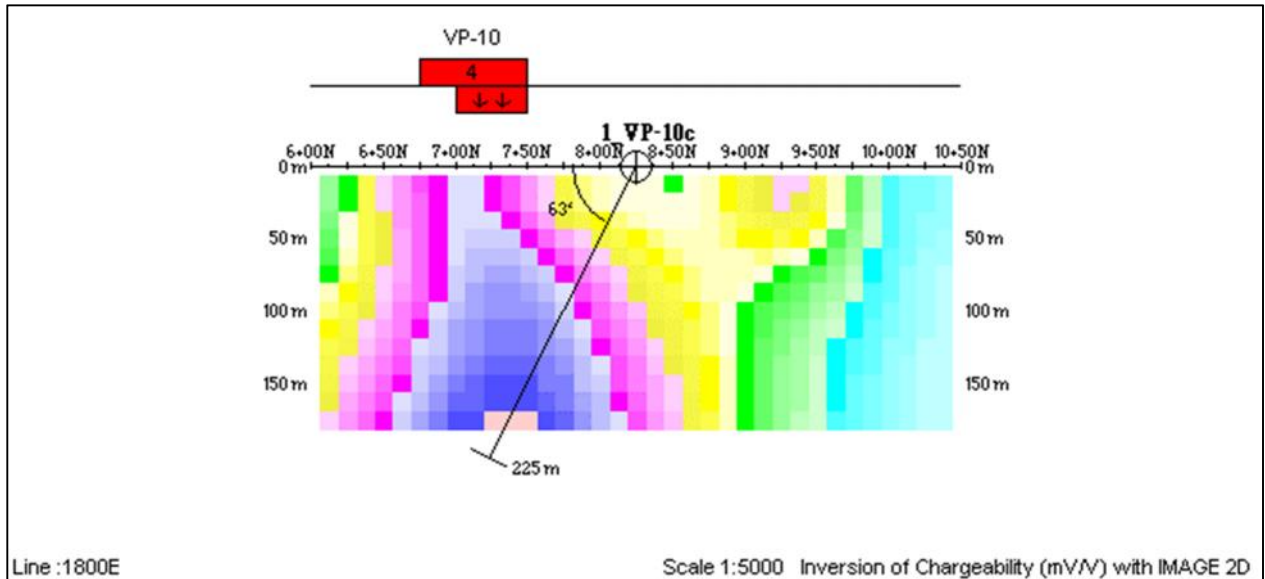


Figure 9. Proposed DDH 1_VP-10c on L 18+00E

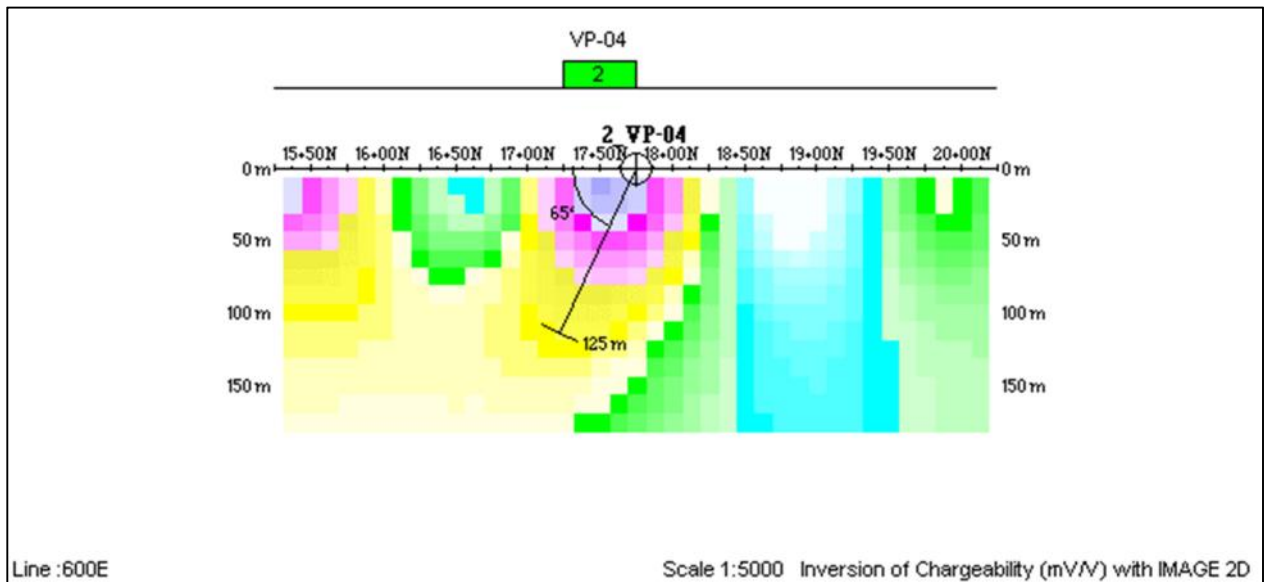


Figure 10. Proposed DDH 2_VP-04 on L 6+00E

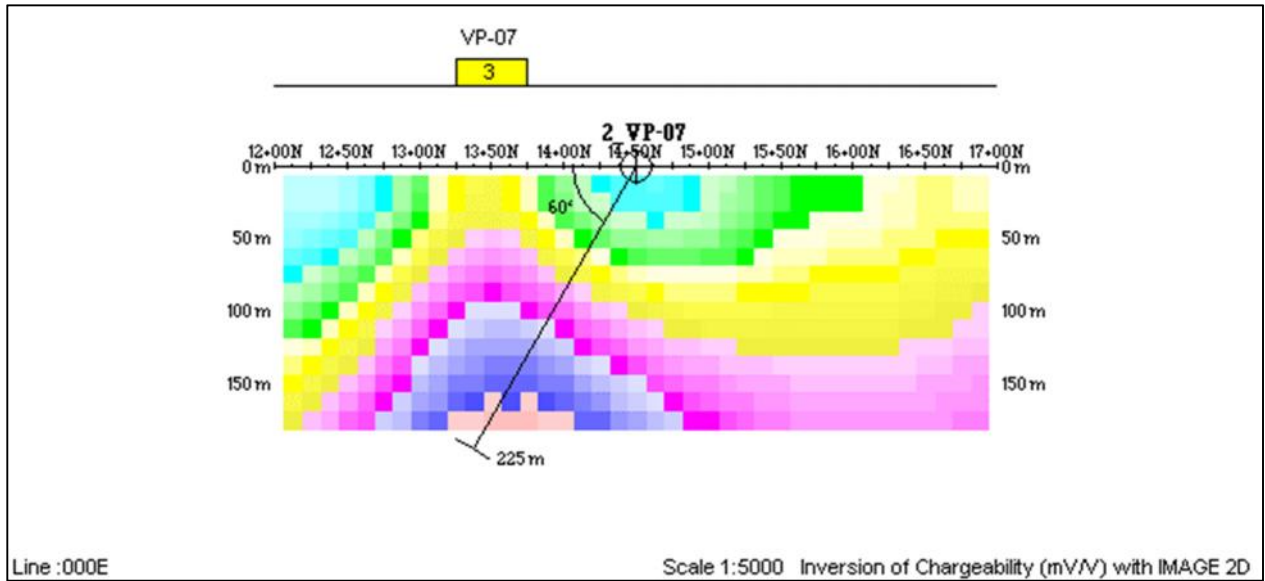


Figure 11. Proposed DDH 2_VP-07 on L 0+00E

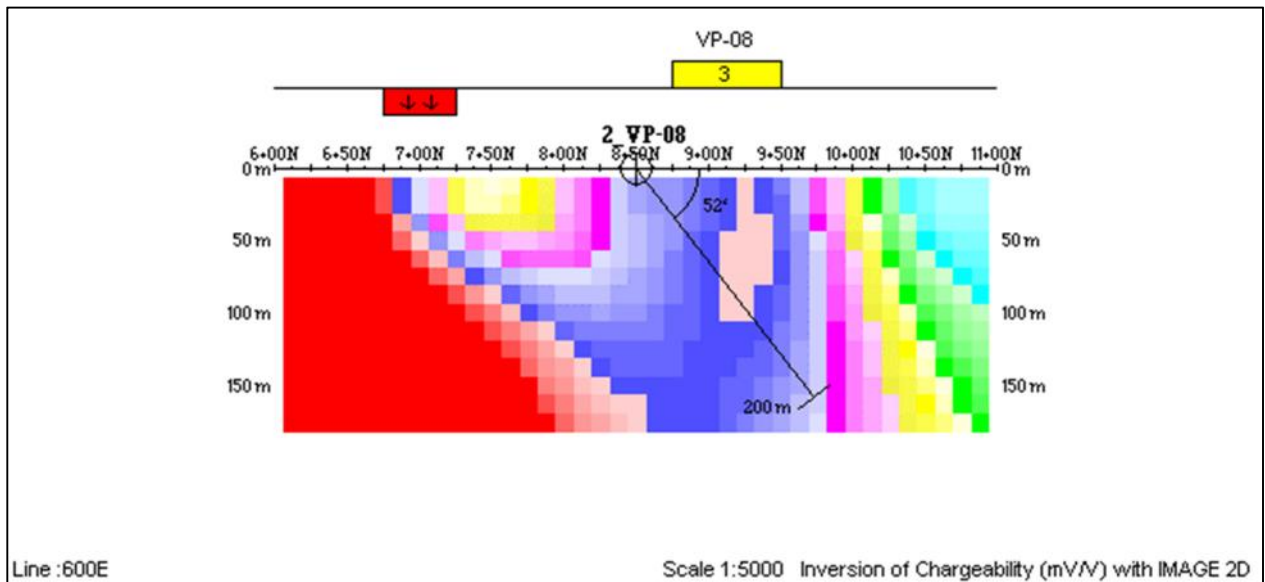


Figure 12. Proposed DDH 2_VP-08 on L 6+00E

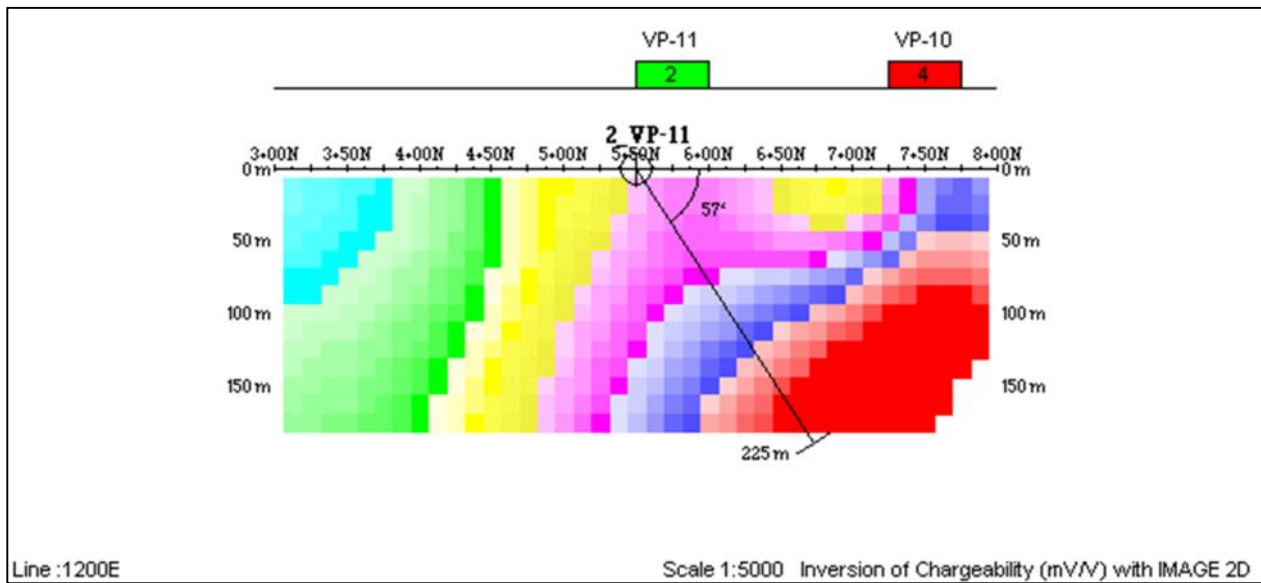


Figure 13. Proposed DDH 2_VP-11 on L 12+00E

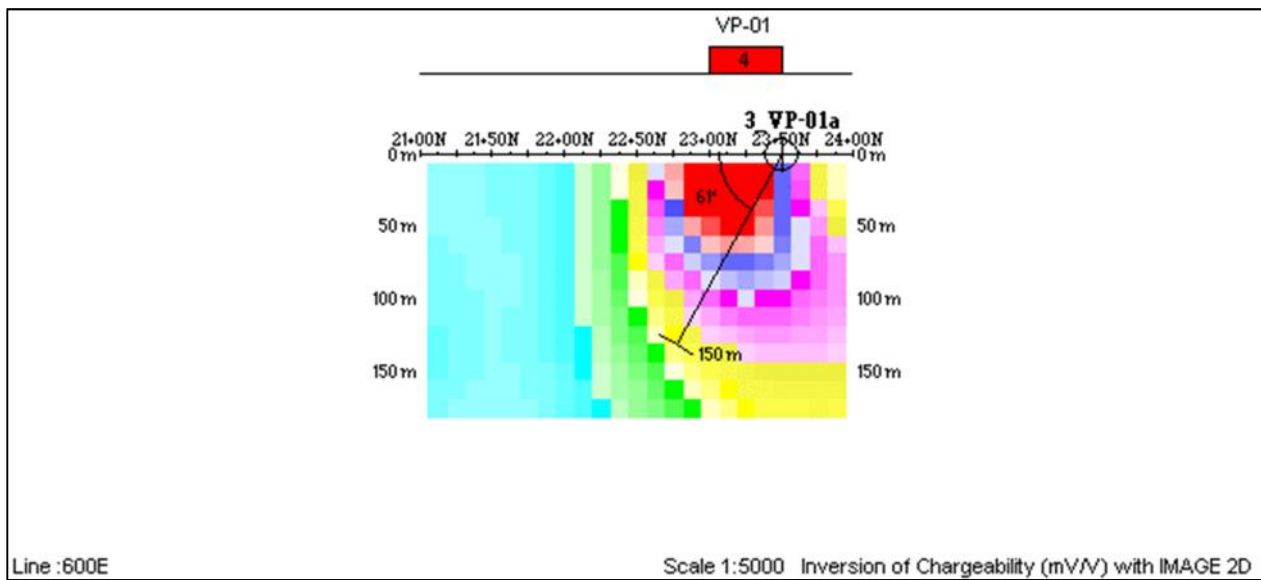


Figure 14. Proposed DDH 3_VP-01a on L 6+00E

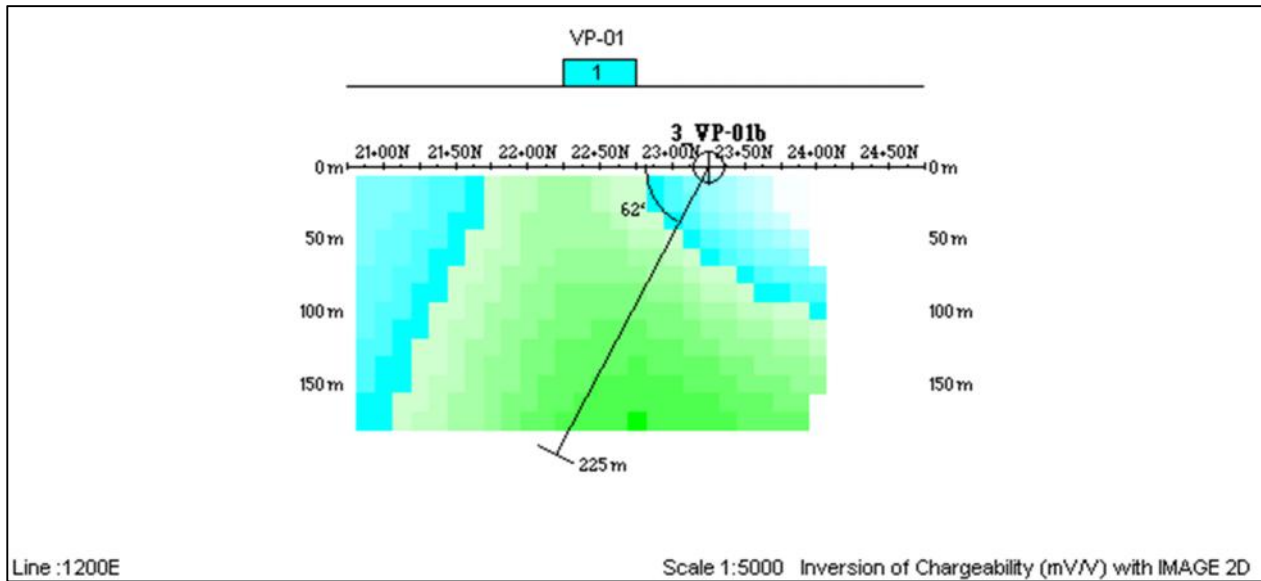


Figure 15. Proposed DDH 3_VP-01b on L 12+00E

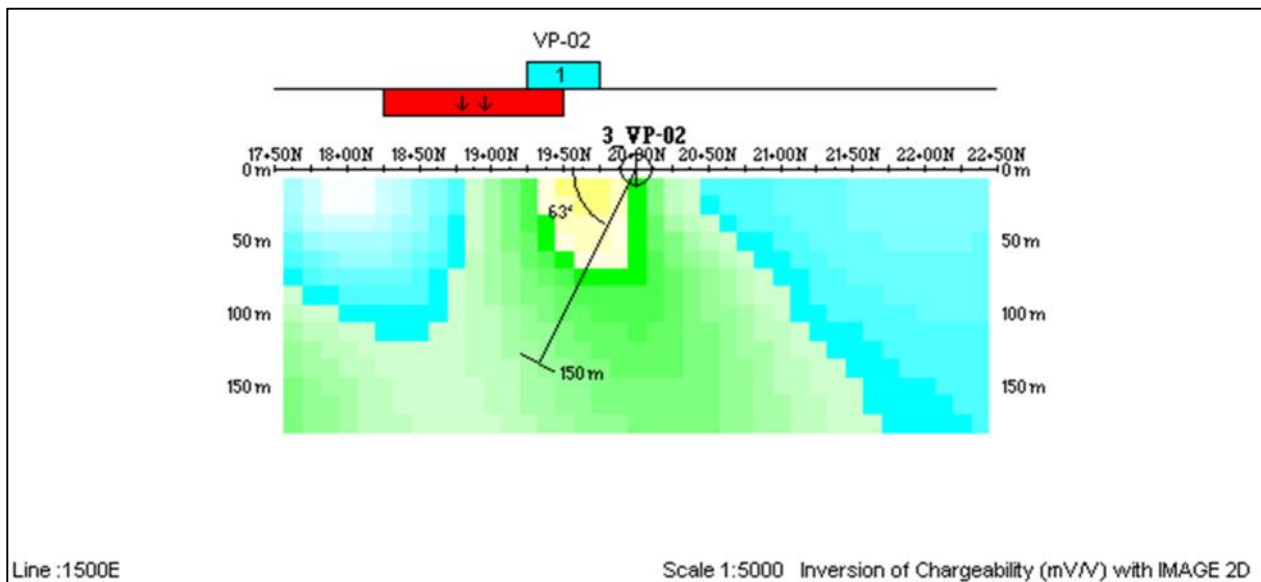


Figure 16. Proposed DDH 3_VP-02 on L 15+00E

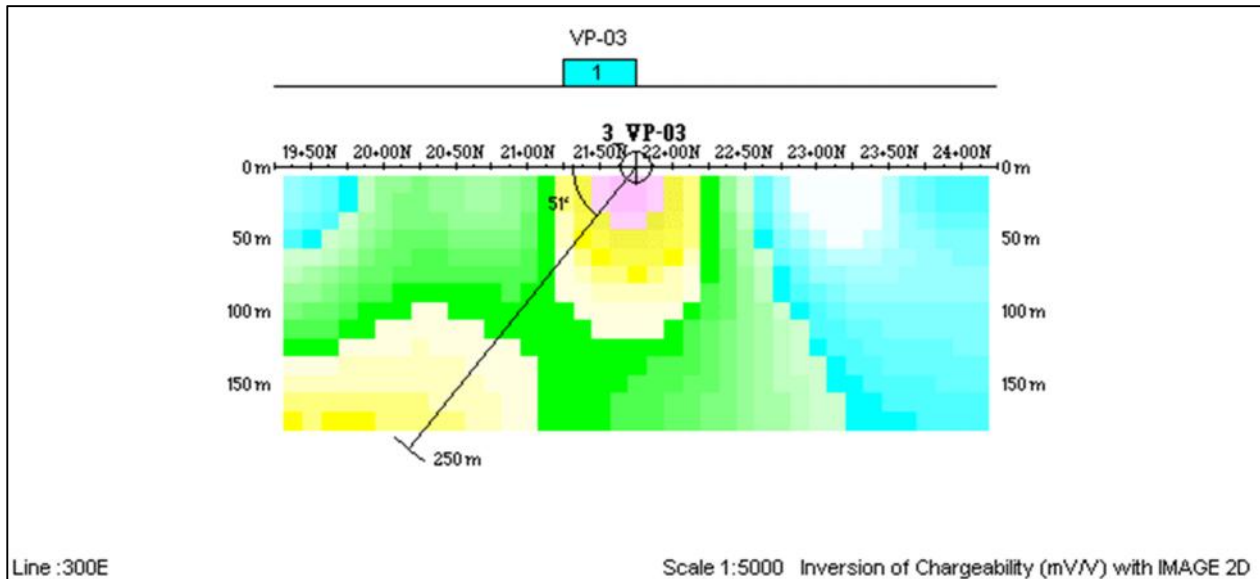


Figure 17. Proposed DDH 3_VP-03 on L 3+00E

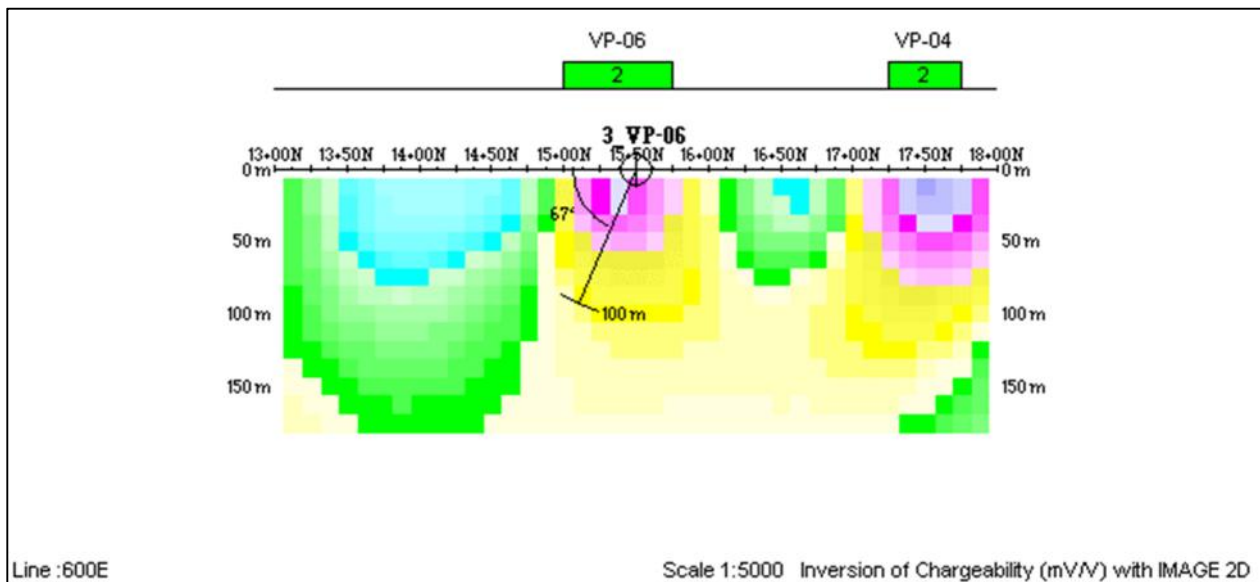


Figure 18. Proposed DDH 3_VP-06 on L 6+00E

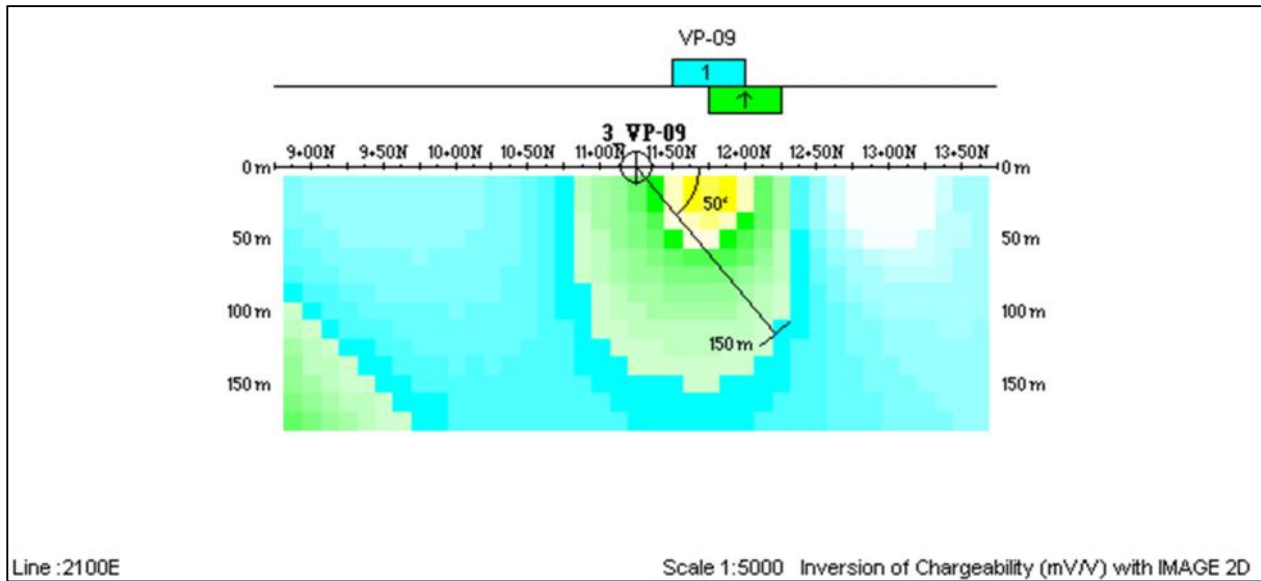


Figure 19. Proposed DDH 3_VP-09 on L 21+00E

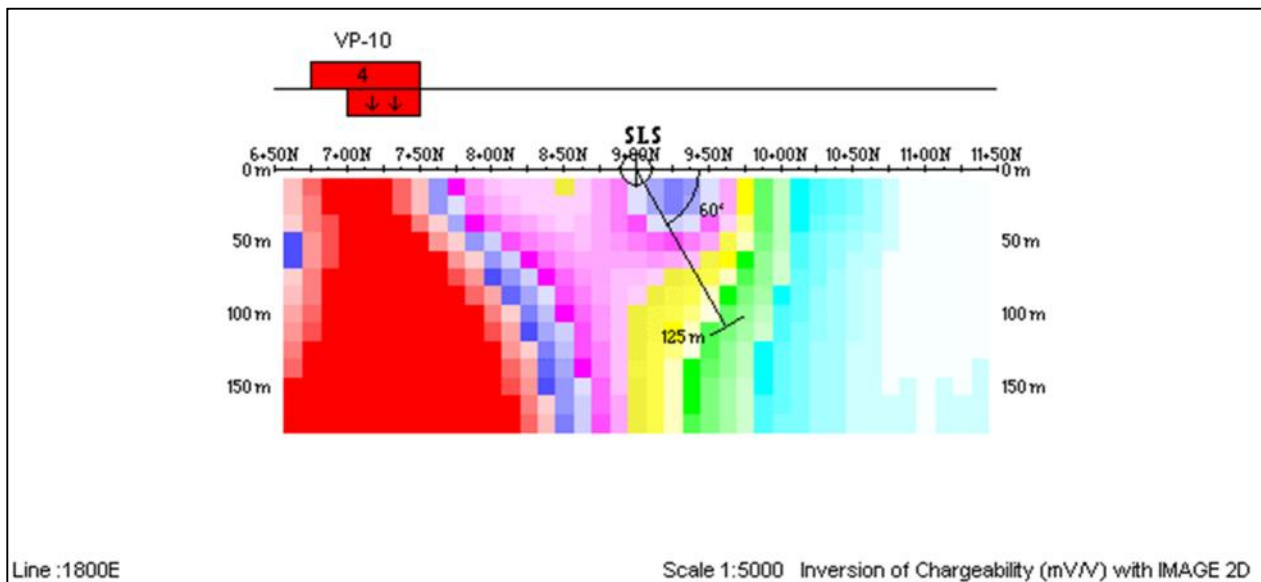


Figure 20. Proposed DDH Single Line Source (SLS) on L 18+00E

The interpretation of the geophysical data embodied in this report is essentially a geophysical appraisal of the Viper Project. As such, it incorporates only as much geoscientific information as the author had on hand at the time. Geologists thoroughly familiar with the area may be in a better position to evaluate the geological significance of the various geophysical signatures. Moreover, as time passes and data provided by follow-up programs are compiled, the priority and significance of exploration targets reported in this study may be downgraded or upgraded.

Respectfully submitted,
Abitibi Geophysics Inc.



Pam Coles, P.Ge.,
Project Geophysicist
APGO # 2612

PC/sl

2. MANDATE

- | | |
|---------------------------------|--|
| ❑ <i>PROJECT ID</i> | Viper Project
(Our reference: 16N037) |
| ❑ <i>GENERAL LOCATION</i> | South Longlac, Ontario, Canada |
| ❑ <i>CUSTOMER</i> | Greenstone Gold Mines
135 Hardrock Road, PO Box 69
Geraldton, ON P0T 1M0
Telephone: (807) 854-0995 |
| ❑ <i>REPRESENTATIVES</i> | Mr. Ben Cleland, Eng.,
Manager of Geology
Ben.Cleland@ggmines.com |
| ❑ <i>SURVEY TYPE</i> | <ul style="list-style-type: none"> • Induced polarization • Dipole-Dipole configuration |
| ❑ <i>GEOPHYSICAL OBJECTIVES</i> | <ul style="list-style-type: none"> • Identify zones amenable to gold mineralization • Identify targets for further exploration |



Figure 21. General location of the Viper Project

3. VIPER PROJECT

- LOCATION**

McBean Lake Area, Longlac, Ontario, Canada
 Centred on, N49° 39' 10" and W86° 33' 18"
 NAD83 / UTM zone 16N: 532 000 mE, 5 500 000 mN
 NTS sheet: **42E/10**
- NEAREST SETTLEMENT**

Longlac: 15 km north
- ACCESS**

The crew accessed the grid by driving south of Longlac on Catlonite Road for about 16.5 km.
- GEOMORPHOLOGY**

Topography on the claim block area consist of modest to minor topographic relief. Average elevation of the grid range from 310 to 350 m above sea level. Hydrographically, Milbean Lake is found in the central part of the grid and the grid contains many swamp areas.
- CULTURAL FEATURES**

There were no cultural features observed on the grid.
- MINING LAND TENURE**

The location of the Viper project is illustrated on the following page. The claims encompassed in the present project are wholly (100%) owned by Greenstone Gold Mines.
- SURVEY GRID**

The survey grid consists of 9 lines, 2.5 km in length and spaced at 300 m intervals.
- ENVIRONMENTAL HEALTH AND SAFETY**

As part of the Abitibi Geophysics EHS program crew members received first aid training and are provided with safety equipment and specialized training for the induced polarization technique. In addition, the crew was provided with a satellite telephone for emergency communication.

No incident was reported during this project.
- COORDINATE SYSTEM**

Projection: Universal Transverse Mercator, zone 16N
Datum: NAD83

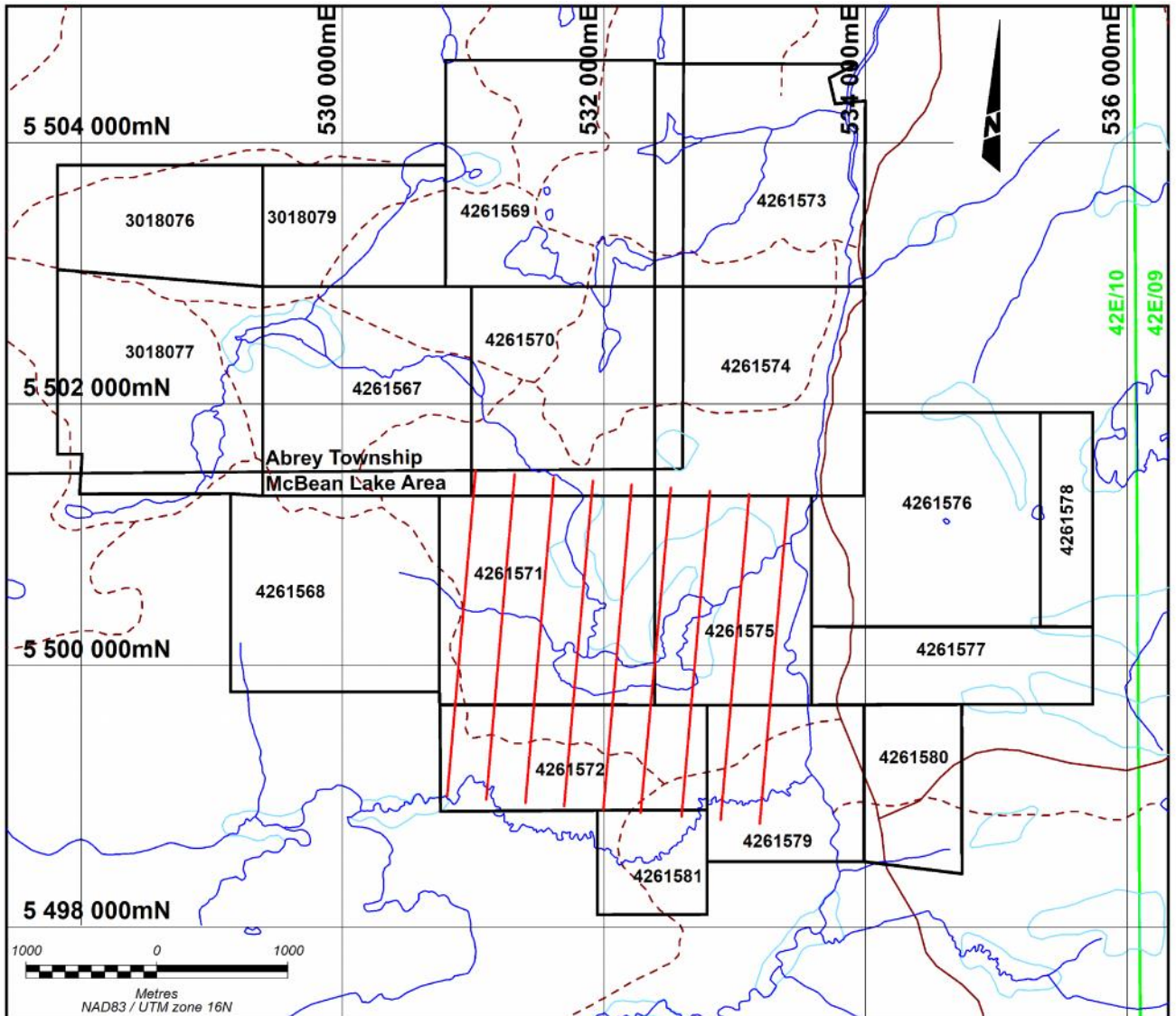


Figure 22. Index of claims covering the Viper project

4. INDUCED POLARIZATION SURVEY

TYPE OF SURVEY CONFIGURATION

Time domain resistivity / induced polarization

Dipole-dipole array:

"a" = 50 m, "n" = 1 to 8

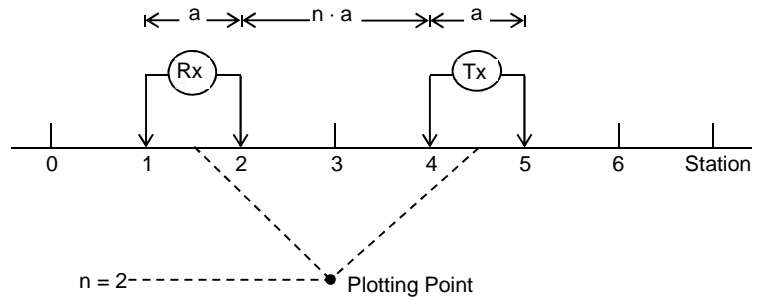


Figure 23. The dipole-dipole array

PERSONNEL

Cédrick Brunelle,	Crew Chief, Operator
Francis Charbonneau,	Assistant
Ludovick Falardeau,	Assistant
Michael Boutin,	Assistant
David Paquin,	Assistant
Carole Picard, Tech.,	Production of maps
Pam Coles, P.Geo.,	Quality Control, processing, and report
Pierre Bérubé, Eng.,	Final verification of product conformity

SURVEY COVERAGE

18.5 km

DATA ACQUISITION

June 22 to July 03, 2016

IP TRANSMITTERS (TX)

IRIS Instruments TIPIX, s/n 9 & 2

Power supply: Honda 2000 kVA
 Maximum output: up to 2.0 kW or 15 A or 2400 V
 Electrodes: shape memory alloy
 Resolution: 1 mA on output current display
 Waveform: bipolar square wave with 50% duty cycle
 Pulse duration: 1 second

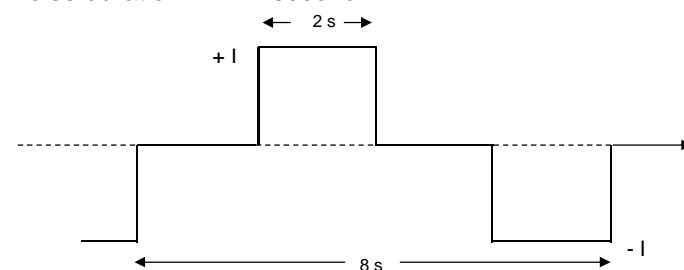


Figure 24. Transmitted signal across C₁ – C₂

❑ *IP RECEIVER (Rx)*

IRIS Elrec-PRO, s/n 184 & 187 with 10 input channels
 Electrodes: shape memory alloy

V_P Primary voltage measurement:

- Input impedance: 100 MΩ
- Resolution: 1 μV
- Typical accuracy: **0.2%**

M_a Apparent chargeability measurement:

- Resolution: 0.01 mV/V
- Typical accuracy: **0.4%**
- Linear sampling mode, 20 time slices (M₁ to M₂₀).
- All windows are normalized with respect to a standard decay curve for QC in the field.

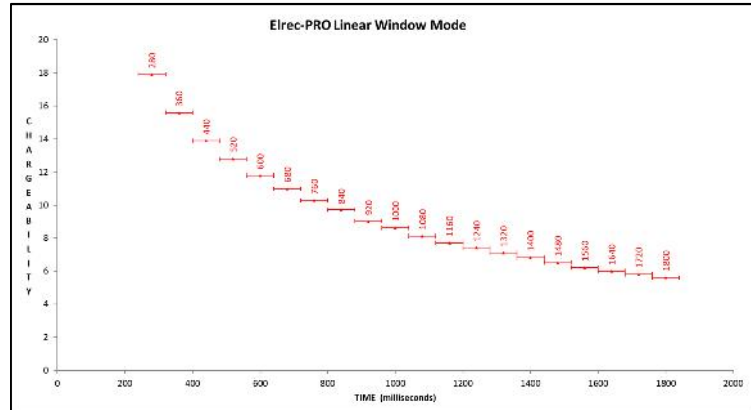


Figure 25. Linear windows (2 sec pulse)

❑ *APPARENT RESISTIVITY CALCULATION*

Dipole-dipole array:

$$\rho_a = f \cdot n \cdot (n + 1) \cdot (n + 2) \cdot a \cdot \frac{V_p}{I} \quad (\Omega \cdot m)$$

Cumulative error: 5% max, mainly due to chaining accuracy.

☐ **QUALITY CONTROLS**
 (RECORDS AVAILABLE UPON
 REQUEST)

Before the survey:

- ✓ Transmitter & motor generator were checked for maximum output using calibrated loads.
- ✓ Receiver was checked using the Abitibi Geophysics SIMP™ certified and calibrated V_P & M signal simulator.

During data acquisition:

- ✓ Rx & Tx cable insulation was verified every morning.
- ✓ Proprietary Software Refusilo® allowed a daily thorough monitoring of data quality and survey efficiency.
- ✓ Enough pulses were stacked: 6 pulses for every reading.

At the base of operations:

- ✓ Field QCs were inspected & validated.
- ✓ Each IP decay curve was analyzed with Refusilo®. The few windows that were rejected were not included in the calculation of the plotted M_a.

☐ **QUALITY STATISTICS**

Table 4. Quality Statistics – Dipole-Dipole

Viper Project		
Dipole-Dipole array: a = 50 m, n = 1 to 8		
Average contact resistance at the R _x	2.77 k	
Average output current across C ₁ -C ₂	1429 mA	
Average measured voltage V _p across P ₁ -P ₂	n = 1	1902 mV
	n = 8	38 mV
Observed windows found to fit a pure electrode polarization relaxation curve	81 %	
Average deviation of the validated normalized windows with respect to the plotted mean chargeabilities	n = 1	0.10 mV/V
	n = 8	0.58 mV/V

5. DATA PROCESSING AND DELIVERABLES

□ TRUE-DEPTH IP SECTIONS DIPOLE-DIPOLE

The dipole-dipole, apparent resistivity and chargeability pseudosections were inverted using our proprietary *image2D™* package. The process is fully automated as there is no need to guess a starting model or to filter the pseudosection to generate one. The ground is divided in cells of $a/4$ side and a back-projection of the raw data is performed.

The result is a smooth earth model showing all conductive, resistive and polarizable sources. The resulting true-depth sections integrate all possible solutions, highlighting the most probable ones.

A synthetic example showing the ability of *image2D™* to resolve sources and to facilitate the location of DDH is presented in figure 26 below.

□ ACCURACY CONCERNING *IMAGE2D™*

Imaging cannot create information that is not in the raw data set (pseudosections), i.e., the limitations of the technique and array that was used will still prevail. With pole-dipole, for instance, resolution is asymmetrical and vertical sources may show a false dip. However, noise is efficiently rejected, near-surface effects are easily identified and complex responses, such as two adjoining sources, a wide body or a dipping geological contact, are well resolved.

This imaging process will not recover intrinsic resistivities unless the source is very wide. However, as opposed to pseudosections, geological data from drill holes may be superimposed on *image2D™* true-depth sections.

□ DIGITAL DATA

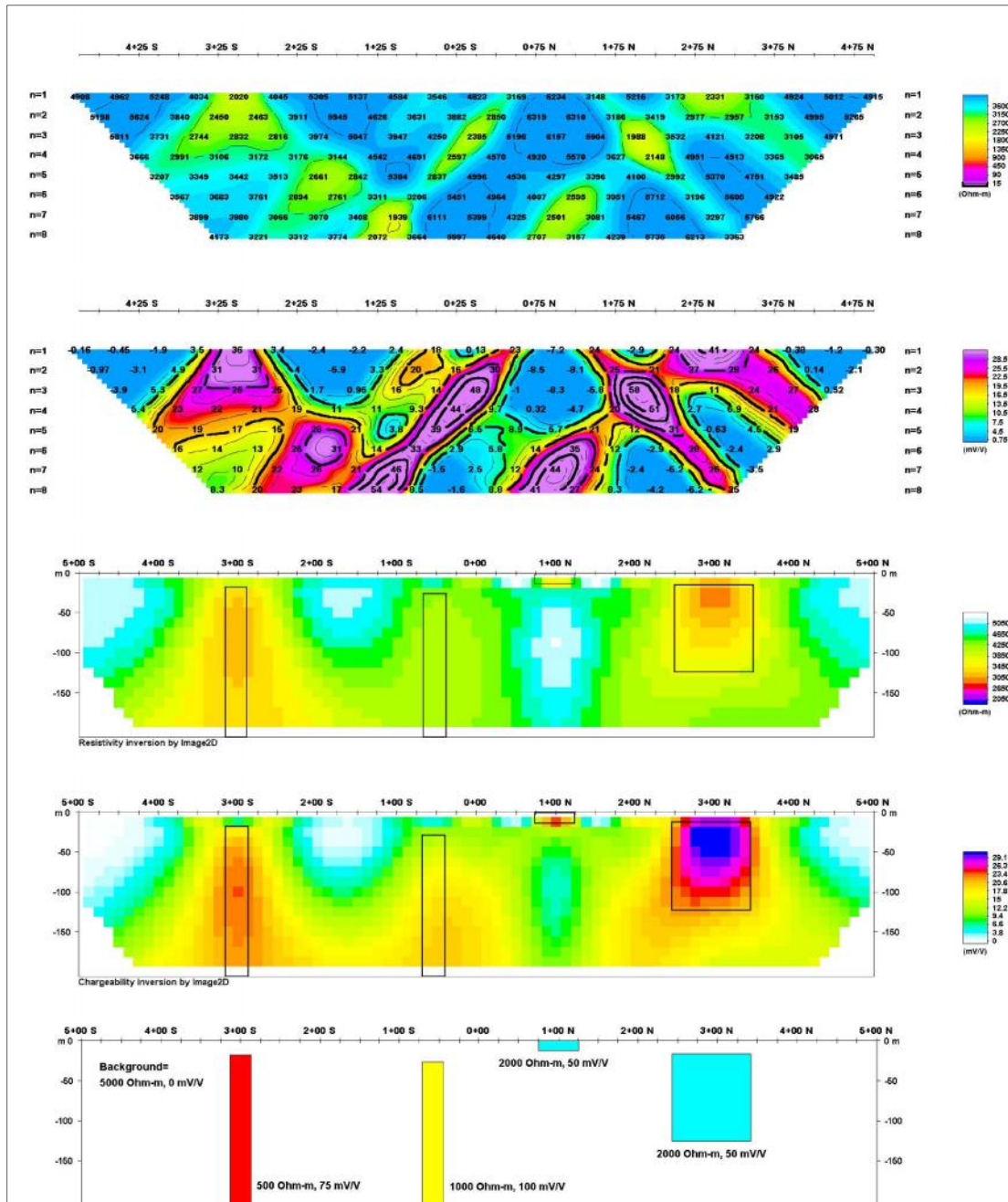
The maps are delivered in the Oasis Montaj map file format on DVD-Rom.

A copy of all survey acquisition data (ASCII text format) and processed data (Geosoft Montaj databases) are also delivered on DVD-Rom.

Top half of figure: classic apparent resistivity and chargeability pseudosections.

Centre of plate: the reconstructed resistivity and chargeability true-depth sections after inversion of the pseudosections using *image2D™*.

The model is superimposed on these sections.



Bottom half of figure: the synthetic model that generates these pseudosections.

Figure 26. *Image2D™* demo on synthetic datasets

APPENDIX A

**COLOUR APPARENT RESISTIVITY &
CHARGEABILITY IMAGE2D TRUE-DEPTH
SECTIONS WITH INTERPRETATION**

Appendix E: Drill Logs

2016 Drill Logs

Drill Hole Log



Hole ID: SK97-01

Property: Viper

Hole Status	RELOGGED	Logged By	D. Grabiec	Drill Contractor	Norex Drilling	Grid ID	NAD83_16N	Dip	-45
Drill Date Started	3/11/1997	Log Started	7/1/2016	Core Storage	Magnet	North (m)	5,501,960.90	Azimuth	355
Drill Date Completed	3/13/1997	Log Completed	7/31/2016	Core Size	BQ	East (m)	530,742.40	Survey Type	Header
Claim Number	4261570			Casing	Pulled	Elevation (masl)	347	Max Depth (m)	182

Comments: Comments: Hole drilled by Cyprus Canada Inc. in 1997, relogged and resampled in July 2016 primarily by Dan Grabiec. For additional drillhole information see original log.

Lithology			Minerals				Veining			Alteration				Samples								
From	To	Code	From	To	Code	%	From	To	Code	From	To	Code	Int	From	To	SampleID	Au_ppb	Sampled By	Lab	Batch	Date	
0	4.13	OB																				
4.13	65.02	I3S	4.13	20	PY	0.5	4.13	65.02	V1	4.13	65.02	BIO	2	4.13	5	262137	2.5	D. Grabiec	Actlabs	A16-07199	8/18/2016	
														5	6.5	262138	2.5	D. Grabiec	Actlabs	A16-07199	8/18/2016	
														6.5	8	262139	2.5	D. Grabiec	Actlabs	A16-07199	8/18/2016	
														8	9.5	262140	2.5	D. Grabiec	Actlabs	A16-07199	8/18/2016	
														9.5	11	262142	2.5	D. Grabiec	Actlabs	A16-07199	8/18/2016	
														11	12.5	262143	2.5	D. Grabiec	Actlabs	A16-07199	8/18/2016	
														12.5	13.5	262144	2.5	D. Grabiec	Actlabs	A16-07199	8/18/2016	
														13.5	15	656189	2.5	A. Tims	Historic	C97-60624.0	3/27/1997	
														15	16.5	262145	2.5	D. Grabiec	Actlabs	A16-07199	8/18/2016	
														16.5	18	262146	2.5	D. Grabiec	Actlabs	A16-07199	8/18/2016	
														18	19	262147	2.5	D. Grabiec	Actlabs	A16-07199	8/18/2016	
														19	20	262148	2.5	D. Grabiec	Actlabs	A16-07199	8/18/2016	
			20	80.96	py	0.1								20	21.5	262149	2.5	D. Grabiec	Actlabs	A16-07199	8/18/2016	
														21.5	23	262150	2.5	D. Grabiec	Actlabs	A16-07199	8/18/2016	
														23	24.5	262152	2.5	D. Grabiec	Actlabs	A16-07199	8/18/2016	
														24.5	26	262153	2.5	D. Grabiec	Actlabs	A16-07199	8/18/2016	
														26	27.5	262154	2.5	D. Grabiec	Actlabs	A16-07199	8/18/2016	
														27.5	29	262155	2.5	D. Grabiec	Actlabs	A16-07199	8/18/2016	
														29	30.5	262156	2.5	D. Grabiec	Actlabs	A16-07199	8/18/2016	
														30.5	32	262157	2.5	D. Grabiec	Actlabs	A16-07199	8/18/2016	
														32	33.5	262158	2.5	D. Grabiec	Actlabs	A16-07199	8/18/2016	
														33.5	35	262159	2.5	D. Grabiec	Actlabs	A16-07199	8/18/2016	
														35	36.5	262160	2.5	D. Grabiec	Actlabs	A16-07199	8/18/2016	
														36.5	38	262162	2.5	D. Grabiec	Actlabs	A16-07199	8/18/2016	
														38	39.5	262163	2.5	D. Grabiec	Actlabs	A16-07199	8/18/2016	
														39.5	41	262164	2.5	D. Grabiec	Actlabs	A16-07199	8/18/2016	
														41	42.5	262165	2.5	D. Grabiec	Actlabs	A16-07199	8/18/2016	
														42.5	44	262166	2.5	D. Grabiec	Actlabs	A16-07199	8/18/2016	
														44	45.5	262167	2.5	D. Grabiec	Actlabs	A16-07199	8/18/2016	
														45.5	47	262168	2.5	D. Grabiec	Actlabs	A16-07199	8/18/2016	
														47	48.5	262169	2.5	D. Grabiec	Actlabs	A16-07199	8/18/2016	
														48.5	50	262170	2.5	D. Grabiec	Actlabs	A16-07199	8/18/2016	
														50	51.5	262172	2.5	D. Grabiec	Actlabs	A16-07598	8/22/2016	
														51.5	53	262173	2.5	D. Grabiec	Actlabs	A16-07598	8/22/2016	
														53	54.5	262174	2.5	D. Grabiec	Actlabs	A16-07598	8/22/2016	
														54.5	56	262175	2.5	D. Grabiec	Actlabs	A16-07598	8/22/2016	
														56	57.5	262176	2.5	D. Grabiec	Actlabs	A16-07598	8/22/2016	
														57.5	59	262177	2.5	D. Grabiec	Actlabs	A16-07598	8/22/2016	
														59	60.5	262178	2.5	D. Grabiec	Actlabs	A16-07598	8/22/2016	
														60.5	62	262179	2.5	D. Grabiec	Actlabs	A16-07598	8/22/2016	
														62	63.5	262180	2.5	D. Grabiec	Actlabs	A16-07598	8/22/2016	
														63.5	65.02	656190	2.5	A. Tims	Historic	C97-60624.0	3/27/1997	
65.02	67.6	E1T4					65.02	67.6	V1	65.02	67.6	BIO	2	65.02	66.45	656191	2.5	A. Tims	Historic	C97-60624.0	3/27/1997	
														66.45	67.6	656192	2.5	A. Tims	Historic	C97-60624.0	3/27/1997	

Drill Hole Log



Hole ID: SK97-01

Property: Viper

Hole Status	RELOGGED	Logged By	D. Grabiec	Drill Contractor	Norex Drilling	Grid ID	NAD83_16N	Dip	-45
Drill Date Started	3/11/1997	Log Started	7/1/2016	Core Storage	Magnet	North (m)	5,501,960.90	Azimuth	355
Drill Date Completed	3/13/1997	Log Completed	7/31/2016	Core Size	BQ	East (m)	530,742.40	Survey Type	Header
Claim Number	4261570			Casing	Pulled	Elevation (masl)	347	Max Depth (m)	182

Comments: Comments: Hole drilled by Cyprus Canada Inc. in 1997, relogged and resampled in July 2016 primarily by Dan Grabiec. For additional drillhole information see original log.

Lithology			Minerals				Veining			Alteration				Samples							
From	To	Code	From	To	Code	%	From	To	Code	From	To	Code	Int	From	To	SampleID	Au_ppb	Sampled By	Lab	Batch	Date
67.6	80.96	I3S					67.6	80.96	V1	67.6	80.96	BIO	2	67.6	69.5	656193	2.5	A. Tims	Historic	C97-60624.0	3/27/1997
														69.5	71	656194	6	A. Tims	Historic	C97-60624.0	3/27/1997
														71	72.5	656195	2.5	A. Tims	Historic	C97-60624.0	3/27/1997
														72.5	74.5	656196	12	A. Tims	Historic	C97-60624.0	3/27/1997
														74.5	75.5	656197	7	A. Tims	Historic	C97-60624.0	3/27/1997
														75.5	77	656198	2.5	A. Tims	Historic	C97-60624.0	3/27/1997
														77	78.5	656199	2.5	A. Tims	Historic	C97-60624.0	3/27/1997
														78.5	80	656200	2.5	A. Tims	Historic	C97-60624.0	3/27/1997
														80	81.5	656201	2.5	A. Tims	Historic	C97-60624.0	3/27/1997
80.96	93.23	E1T4					80.96	93.23	V1	80.96	93.23	bio	2	80.96	81.5	656202	2.5	A. Tims	Historic	C97-60624.0	3/27/1997
														81.5	83	656202	2.5	A. Tims	Historic	C97-60624.0	3/27/1997
														83	84.5	262182	2.5	D. Grabiec	Actlabs	A16-07598	8/22/2016
														84.5	86	262183	2.5	D. Grabiec	Actlabs	A16-07598	8/22/2016
														86	87.5	262184	12	D. Grabiec	Actlabs	A16-07598	8/22/2016
														87.5	89	262185	2.5	D. Grabiec	Actlabs	A16-07598	8/22/2016
														89	90.5	262186	2.5	D. Grabiec	Actlabs	A16-07598	8/22/2016
														90.5	92	262187	2.5	D. Grabiec	Actlabs	A16-07598	8/22/2016
														92	93.23	262188	2.5	D. Grabiec	Actlabs	A16-07598	8/22/2016
93.23	100.73	I3S	93.23	100.73	PY	0.5	93.23	100.73	v1	93.23	100.73	BIO	2	93.23	93.9	262189	2.5	D. Grabiec	Actlabs	A16-07598	8/22/2016
														93.9	95.4	656375	2.5	A. Tims	Historic	C97-60747.0	4/9/1997
														95.4	96.5	262190	2.5	D. Grabiec	Actlabs	A16-07598	8/22/2016
														96.5	98	656203	2.5	A. Tims	Historic	C97-60624.0	3/27/1997
														98	99.5	656204	2.5	A. Tims	Historic	C97-60624.0	3/27/1997
														99.5	100.73	656205	2.5	A. Tims	Historic	C97-60624.0	3/27/1997
100.73	121.25	E2T					100.73	121.25	V1	100.73	121.25	CHL	3	100.73	101.3	656206	2.5	A. Tims	Historic	C97-60624.0	3/27/1997
														102.3	103.5	262192	2.5	D. Grabiec	Actlabs	A16-07598	8/22/2016
														103.5	105	262193	2.5	D. Grabiec	Actlabs	A16-07598	8/22/2016
														105	106.5	262194	2.5	D. Grabiec	Actlabs	A16-07598	8/22/2016
														106.5	108	262195	2.5	D. Grabiec	Actlabs	A16-07598	8/22/2016
														108	109.5	262196	5	D. Grabiec	Actlabs	A16-07598	8/22/2016
														109.5	111	262197	5	D. Grabiec	Actlabs	A16-07598	8/22/2016
														111	112.5	262198	2.5	D. Grabiec	Actlabs	A16-07598	8/22/2016
														112.5	114	262199	2.5	D. Grabiec	Actlabs	A16-07598	8/22/2016
														114	115.5	262200	2.5	D. Grabiec	Actlabs	A16-07598	8/22/2016
														115.5	117	262202	6	D. Grabiec	Actlabs	A16-07598	8/22/2016
														117	118.5	262203	2.5	D. Grabiec	Actlabs	A16-07598	8/22/2016
														118.5	120	262204	2.5	D. Grabiec	Actlabs	A16-07598	8/22/2016
														120	121.25	262205	6	D. Grabiec	Actlabs	A16-07598	8/22/2016
121.25	134.59	I3S	121.25	134.59	py	0.1	121.25	134.59	V1	121.25	134.59	BIO	2	121.25	122	262206	2.5	D. Grabiec	Actlabs	A16-07603	8/31/2016
														122	123	262207	2.5	D. Grabiec	Actlabs	A16-07603	8/31/2016
														123	124	262208	2.5	D. Grabiec	Actlabs	A16-07603	8/31/2016
														124	125	262209	2.5	D. Grabiec	Actlabs	A16-07603	8/31/2016
														125	126	262210	2.5	D. Grabiec	Actlabs	A16-07603	8/31/2016
														126	127.5	262212	2.5	D. Grabiec	Actlabs	A16-07603	8/31/2016
														127.5	129	262213	2.5	D. Grabiec	Actlabs	A16-07603	8/31/2016

Drill Hole Log



Hole ID: SK97-01

Property: Viper

Hole Status	RELOGGED	Logged By	D. Grabiec	Drill Contractor	Norex Drilling	Grid ID	NAD83_16N	Dip	-45
Drill Date Started	3/11/1997	Log Started	7/1/2016	Core Storage	Magnet	North (m)	5,501,960.90	Azimuth	355
Drill Date Completed	3/13/1997	Log Completed	7/31/2016	Core Size	BQ	East (m)	530,742.40	Survey Type	Header
Claim Number	4261570			Casing	Pulled	Elevation (masl)	347	Max Depth (m)	182

Comments: Comments: Hole drilled by Cyprus Canada Inc. in 1997, relogged and resampled in July 2016 primarily by Dan Grabiec. For additional drillhole information see original log.

Lithology			Minerals				Veining			Alteration				Samples							
From	To	Code	From	To	Code	%	From	To	Code	From	To	Code	Int	From	To	SampleID	Au_ppb	Sampled By	Lab	Batch	Date
														129	130.5	262214	2.5	D. Grabiec	Actlabs	A16-07603	8/31/2016
														130.5	132	262215	2.5	D. Grabiec	Actlabs	A16-07603	8/31/2016
														132	133.5	262216	2.5	D. Grabiec	Actlabs	A16-07603	8/31/2016
														133.5	134.59	262217	2.5	D. Grabiec	Actlabs	A16-07603	8/31/2016
134.59	182	E2T					134.59	182	V1	134.59	182	CHL	3	134.59	136	262218	2.5	D. Grabiec	Actlabs	A16-07603	8/31/2016
														136	137.5	262219	8	D. Grabiec	Actlabs	A16-07603	8/31/2016
														137.5	138.5	262220	2.5	D. Grabiec	Actlabs	A16-07603	8/31/2016
														138.5	140	262222	2.5	D. Grabiec	Actlabs	A16-07603	8/31/2016
														140	141.5	262223	2.5	D. Grabiec	Actlabs	A16-07603	8/31/2016
														141.5	143	262224	2.5	D. Grabiec	Actlabs	A16-07603	8/31/2016
														143	144.5	262225	2.5	D. Grabiec	Actlabs	A16-07603	8/31/2016
														144.5	146	262226	2.5	D. Grabiec	Actlabs	A16-07603	8/31/2016
														146	147.5	262227	2.5	D. Grabiec	Actlabs	A16-07603	8/31/2016
														147.5	149	262228	2.5	D. Grabiec	Actlabs	A16-07603	8/31/2016
														149	150.5	262229	2.5	D. Grabiec	Actlabs	A16-07603	8/31/2016
														150.5	152	262230	2.5	D. Grabiec	Actlabs	A16-07603	8/31/2016
														152	153.5	262232	2.5	D. Grabiec	Actlabs	A16-07603	8/31/2016
														153.5	155	262233	2.5	D. Grabiec	Actlabs	A16-07603	8/31/2016
														155	156.5	262234	2.5	D. Grabiec	Actlabs	A16-07603	8/31/2016
														156.5	158	262235	2.5	D. Grabiec	Actlabs	A16-07603	8/31/2016
														158	159.5	262236	2.5	D. Grabiec	Actlabs	A16-07603	8/31/2016
														159.5	160.5	262237	2.5	D. Grabiec	Actlabs	A16-07603	8/31/2016
														160.5	162	262238	5	D. Grabiec	Actlabs	A16-07603	8/31/2016
														162	163.5	262239	2.5	D. Grabiec	Actlabs	A16-07603	8/31/2016
														163.5	165	262240	2.5	D. Grabiec	Actlabs	A16-07607	8/31/2016
														165	166.5	262242	2.5	D. Grabiec	Actlabs	A16-07607	8/31/2016
														166.5	168	262243	2.5	D. Grabiec	Actlabs	A16-07607	8/31/2016
														168	169	262244	2.5	D. Grabiec	Actlabs	A16-07607	8/31/2016
														169	170	262245	2.5	D. Grabiec	Actlabs	A16-07607	8/31/2016
														170	171	262246	2.5	D. Grabiec	Actlabs	A16-07607	8/31/2016
														171	172.5	262247	2.5	D. Grabiec	Actlabs	A16-07607	8/31/2016
														172.5	174	262248	2.5	D. Grabiec	Actlabs	A16-07607	8/31/2016
														174	175	262249	2.5	D. Grabiec	Actlabs	A16-07607	8/31/2016
														175	176.5	656376	2.5	A. Tims	Historic	C97-60747.0	4/9/1997
														176.5	178	656377	2.5	A. Tims	Historic	C97-60747.0	4/9/1997
														178	179	262250	2.5	D. Grabiec	Actlabs	A16-07607	8/31/2016
														179	180.5	262252	2.5	D. Grabiec	Actlabs	A16-07607	8/31/2016
														180.5	182	262253	2.5	D. Grabiec	Actlabs	A16-07607	8/31/2016

Drill Hole Log



Hole ID: SK97-02

Property: Viper

Hole Status	RELOGGED	Logged By	D. Grabiec	Drill Contractor	Norex Drilling	Grid ID	NAD83_16N	Dip	-45
Drill Date Started	3/13/1997	Log Started	7/1/2016	Core Storage	Magnet	North (m)	5,501,372.80	Azimuth	355
Drill Date Completed	3/15/1997	Log Completed	7/31/2016	Core Size	BQ	East (m)	530,787.40	Survey Type	Header
Claim Number	4261570			Casing	Pulled	Elevation (masl)	361	Max Depth (m)	157

Comments: Comments: Hole drilled by Cyprus Canada Inc. in 1997, relogged and resampled in July 2016 primarily by Dan Grabiec. For additional drillhole information see original log.

Lithology			Minerals				Veining			Alteration				Samples							
From	To	Code	From	To	Code	%	From	To	Code	From	To	Code	Int	From	To	SampleID	Au_ppb	Sampled By	Lab	Batch	Date
0	108.21	LC												11	12.5	656378	2.5	A. Tims	Historic	C97-60747.0	4/9/1997
														23	24.5	656379	2.5	A. Tims	Historic	C97-60747.0	4/9/1997
														24.5	26	656380	15	A. Tims	Historic	HistoricSK	1/2/1900
														41	42.5	656381	3	A. Tims	Historic	HistoricSK	1/2/1900
														42.5	43.8	656382	3	A. Tims	Historic	HistoricSK	1/2/1900
														108.21	109.5	262585	2.5	D. Grabiec	Actlabs	A16-07609	8/31/2016
108.21	120.54	E1T4					108.21	120.54	V2	108.21	120.54	BIO	1	109.5	111	262586	2.5	D. Grabiec	Actlabs	A16-07609	8/31/2016
														111	112.5	262587	2.5	D. Grabiec	Actlabs	A16-07609	8/31/2016
			111	112.5	PY	0.1								112.5	114	262588	5	D. Grabiec	Actlabs	A16-07609	8/31/2016
														114	115	262589	2.5	D. Grabiec	Actlabs	A16-07609	8/31/2016
														115	116	262590	2.5	D. Grabiec	Actlabs	A16-07609	8/31/2016
														116	117.5	656207	2.5	A. Tims	Historic	C97-60624.0	3/27/1997
														117.5	119	656208	2.5	A. Tims	Historic	C97-60624.0	3/27/1997
														119	120.54	656209	2.5	A. Tims	Historic	C97-60624.0	3/27/1997
														120.54	122	656210	2.5	A. Tims	Historic	C97-60624.0	3/27/1997
120.54	124.55	I3R					120.54	134.02	V2	120.54	127.64	BIO	3	122	123.5	262592	2.5	D. Grabiec	Actlabs	A16-07609	8/31/2016
			122	123.5	PY	0.1								123.5	124.55	262593	2.5	D. Grabiec	Actlabs	A16-07609	8/31/2016
														124.55	125.8	262594	2.5	D. Grabiec	Actlabs	A16-07609	8/31/2016
124.55	127.64	I3R	124.55	127.3	PY	0.1								125.8	127.3	656383	3	A. Tims	Historic	HistoricSK	1/2/1900
														127.3	128.5	262595	2.5	D. Grabiec	Actlabs	A16-07609	8/31/2016
127.64	134.02	E1T4								127.64	134.02	BIO	1	128.5	130	262596	2.5	D. Grabiec	Actlabs	A16-07609	8/31/2016
														130	131	262597	2.5	D. Grabiec	Actlabs	A16-07609	8/31/2016
														131	132.02	262598	2.5	D. Grabiec	Actlabs	A16-07609	8/31/2016
			131	132.02	PY	0.1								132.02	133	262599	2.5	D. Grabiec	Actlabs	A16-07609	8/31/2016
														133	133.5	656384	3	A. Tims	Historic	HistoricSK	1/2/1900
134.02	135.6	I3R					134.02	137	V2	134.02	135.6	HEM	2	134.5	135.6	262600	2.5	D. Grabiec	Actlabs	A16-07609	8/31/2016
			134.5	137	PY	0.1								135.6	137	262602	2.5	D. Grabiec	Actlabs	A16-07609	8/31/2016
135.6	137	E1T4								135.6	137	gm	1								
137	147.87	LC												141.5	143	656385	3	A. Tims	Historic	HistoricSK	1/2/1900
														143	144.5	656386	3	A. Tims	Historic	HistoricSK	1/2/1900
														144.5	145.5	656387	3	A. Tims	Historic	HistoricSK	1/2/1900
														147.87	149.26	262603	2.5	D. Grabiec	Actlabs	A16-07609	8/31/2016
147.87	148.1	I3R					147.87	156.57	V3	147.87	149.26	CHL	1								
148.1	149.26	E1T4												149.26	150.5	262604	2.5	D. Grabiec	Actlabs	A16-07609	8/31/2016
149.26	152.21	I3R								149.26	152.21	SIL	1	150.5	152	262605	2.5	D. Grabiec	Actlabs	A16-07609	8/31/2016
														152	153.5	262606	2.5	D. Grabiec	Actlabs	A16-07609	8/31/2016
152.21	156.57	E1T4								152.21	156.38	BIO	1	153.5	155	262607	2.5	D. Grabiec	Actlabs	A16-07609	8/31/2016
														155	156.57	262608	2.5	D. Grabiec	Actlabs	A16-07609	8/31/2016
			155	156.57	PY	0.3															
										156.38	156.57	gm	3								
156.57	157	LC																			

Drill Hole Log



Hole ID: SK97-03

Property: Viper

Hole Status	RELOGGED	Logged By	D. Grabiec	Drill Contractor	Norex Drilling	Grid ID	NAD83_16N	Dip	-45
Drill Date Started	3/17/1997	Log Started	7/1/2016	Core Storage	Magnet	North (m)	5500597.7	Azimuth	355
Drill Date Completed	3/19/1997	Log Completed	7/31/2016	Core Size	BQ	East (m)	530840.4	Survey Type	Header
Claim Number	4261571			Casing	Capped	Elevation (masl)	332	Max Depth (m)	158

Comments: Comments: Hole drilled by Cyprus Canada Inc. in 1997, relogged and resampled in July 2016 primarily by Dan Grabiec. For additional drillhole information see original log.

Lithology			Minerals				Veining			Alteration				Samples							
From	To	Code	From	To	Code	%	From	To	Code	From	To	Code	Int	From	To	SampleID	Au_ppb	Sampled By	Lab	Batch	Date
0	3.4	OB												3.4	5	262507	2.5	D. Grabiec	Actlabs	A16-06946	8/5/2016
3.4	82.75	M3L					3.4	18.66	V2	3.4	31.5	SER	2	5	6.5	262508	2.5	D. Grabiec	Actlabs	A16-06946	8/5/2016
														6.5	8	262509	2.5	D. Grabiec	Actlabs	A16-06946	42587
														8	9.5	262510	5	D. Grabiec	Actlabs	A16-06946	42587
			8	9	PY	0.5															
														9.5	11	262512	2.5	D. Grabiec	Actlabs	A16-06946	42587
														11	12.5	262513	2.5	D. Grabiec	Actlabs	A16-06946	42587
														12.5	14	262514	5	D. Grabiec	Actlabs	A16-06946	42587
														14	15.5	262515	2.5	D. Grabiec	Actlabs	A16-06946	42587
														15.5	17.1	262516	2.5	D. Grabiec	Actlabs	A16-06946	42587
														17.1	18.66	262517	6	D. Grabiec	Actlabs	A16-06946	42587
														18.66	20.1	656211	2.5	A. Tims	Historic	C97-60624.0	35516
							18.66	20.14	V3					20.1	21.66	656212	31	A. Tims	Historic	C97-60624.0	35516
														20.14	82.75	V2					
														21.66	23	262518	5	D. Grabiec	Actlabs	A16-06946	42587
														23	24.5	262519	2.5	D. Grabiec	Actlabs	A16-06946	42587
														24.5	26	262520	2.5	D. Grabiec	Actlabs	A16-06946	42587
														26	27.5	262522	2.5	D. Grabiec	Actlabs	A16-06946	42587
														27.5	29	262523	8	D. Grabiec	Actlabs	A16-06946	42587
														29	30.5	262524	2.5	D. Grabiec	Actlabs	A16-06946	42587
														30.5	32	262525	2.5	D. Grabiec	Actlabs	A16-06946	42587
														31.5	40.6	grn	1				
														32	33.5	262526	2.5	D. Grabiec	Actlabs	A16-06946	42587
														33.5	35	262527	2.5	D. Grabiec	Actlabs	A16-06947	42587
														35	36.5	262528	2.5	D. Grabiec	Actlabs	A16-06947	42587
														36.5	38	262529	2.5	D. Grabiec	Actlabs	A16-06947	42587
														38	39.5	262530	2.5	D. Grabiec	Actlabs	A16-06947	42587
														39.5	41	262532	2.5	D. Grabiec	Actlabs	A16-06947	42587
														40.6	45.5	SIL	1				
			41	78.5	PY	0.2								41	42.5	262533	2.5	D. Grabiec	Actlabs	A16-06947	42587
														42.5	44	262534	2.5	D. Grabiec	Actlabs	A16-06947	42587
														44	45.5	262535	2.5	D. Grabiec	Actlabs	A16-06947	42587
														45.5	47	262536	2.5	D. Grabiec	Actlabs	A16-06947	42587
														45.5	66	grn	1				
														47	48.5	262537	2.5	D. Grabiec	Actlabs	A16-06947	42587
														48.5	50	262538	2.5	D. Grabiec	Actlabs	A16-06947	42587
														50	51.5	262539	2.5	D. Grabiec	Actlabs	A16-06947	42587
														51.5	53	262540	2.5	D. Grabiec	Actlabs	A16-06947	42587
														53	54.5	262542	2.5	D. Grabiec	Actlabs	A16-06947	42587
														54.5	56	262543	2.5	D. Grabiec	Actlabs	A16-06947	42587
														56	57.5	262544	2.5	D. Grabiec	Actlabs	A16-06947	42587
														57.5	59	262545	2.5	D. Grabiec	Actlabs	A16-06947	42587
														59	60.5	262546	2.5	D. Grabiec	Actlabs	A16-06947	42587
														60.5	62	262547	2.5	D. Grabiec	Actlabs	A16-06947	42587
														62	63.5	262548	2.5	D. Grabiec	Actlabs	A16-06947	42587

Drill Hole Log



Hole ID: SK97-03

Property: Viper

Hole Status	RELOGGED	Logged By	D. Grabiec	Drill Contractor	Norex Drilling	Grid ID	NAD83_16N	Dip	-45
Drill Date Started	3/17/1997	Log Started	7/1/2016	Core Storage	Magnet	North (m)	5500597.7	Azimuth	355
Drill Date Completed	3/19/1997	Log Completed	7/31/2016	Core Size	BQ	East (m)	530840.4	Survey Type	Header
Claim Number	4261571			Casing	Capped	Elevation (masl)	332	Max Depth (m)	158

Comments: Comments: Hole drilled by Cyprus Canada Inc. in 1997, relogged and resampled in July 2016 primarily by Dan Grabiec. For additional drillhole information see original log.

Lithology			Minerals				Veining			Alteration				Samples									
From	To	Code	From	To	Code	%	From	To	Code	From	To	Code	Int	From	To	SampleID	Au_ppb	Sampled By	Lab	Batch	Date		
																63.5	65	262549	2.5	D. Grabiec	Actlabs	A16-06947	42587
																65	66.5	262550	2.5	D. Grabiec	Actlabs	A16-06947	42587
											66	73	SIL	1									
																66.5	68	262552	2.5	D. Grabiec	Actlabs	A16-06947	42587
																68	69.5	262553	2.5	D. Grabiec	Actlabs	A16-06947	42587
																69.5	71	262554	2.5	D. Grabiec	Actlabs	A16-06947	42587
																71	72.5	262555	2.5	D. Grabiec	Actlabs	A16-06947	42587
																72.5	74	262556	2.5	D. Grabiec	Actlabs	A16-06947	42587
											73	79.5	gm	1									
																74	75.5	262557	2.5	D. Grabiec	Actlabs	A16-06947	42587
																75.5	77	262558	2.5	D. Grabiec	Actlabs	A16-06947	42587
																77	78.5	262559	2.5	D. Grabiec	Actlabs	A16-06947	42587
																78.5	79.5	262560	2.5	D. Grabiec	Actlabs	A16-06947	42587
				78.5	87	PO	0.3									79.5	81	656213	2.5	A. Tims	Historic	C97-60624.0	35516
											79.5	88	SIL	1									
																81	82.5	656214	2.5	A. Tims	Historic	C97-60624.0	35516
																82.5	84	656215	2.5	A. Tims	Historic	C97-60624.0	35516
82.75	84.12	M3L								82.75	84.12	V2				84	85.5	656216	2.5	A. Tims	Historic	C97-60624.0	35516
84.12	115.6	M3L								84.12	115.6	V2				85.5	87	656217	2.5	A. Tims	Historic	C97-60624.0	35516
																87	88.5	656218	2.5	A. Tims	Historic	C97-60624.0	35516
				87	108	PY	0.1																
																88	89.5	656219	2.5	A. Tims	Historic	C97-60624.0	35516
																89.5	106.7	656220	2.5	A. Tims	Historic	C97-60624.0	35516
																91.5	93	656221	2.5	A. Tims	Historic	C97-60624.0	35516
																93	94.5	656222	2.5	A. Tims	Historic	C97-60624.0	35516
																94.5	96	656223	2.5	A. Tims	Historic	C97-60624.0	35516
																96	97.5	656224	2.5	A. Tims	Historic	C97-60624.0	35516
																97.5	99	656225	2.5	A. Tims	Historic	C97-60624.0	35516
																99	100.5	656226	2.5	A. Tims	Historic	C97-60624.0	35516
																100.5	102	656227	2.5	A. Tims	Historic	C97-60624.0	35516
																102	103.5	656228	2.5	A. Tims	Historic	C97-60624.0	35516
																103.5	105	656229	2.5	A. Tims	Historic	C97-60624.0	35516
																105	106.5	656230	2.5	A. Tims	Historic	C97-60624.0	35516
																106.5	108	262562	2.5	D. Grabiec	Actlabs	A16-06948	42587
											106.7	115.6	SIL	1									
																108	109.5	262563	2.5	D. Grabiec	Actlabs	A16-06948	42587
																109.5	111	262564	2.5	D. Grabiec	Actlabs	A16-06948	42587
																111	112.5	262565	2.5	D. Grabiec	Actlabs	A16-06948	42587
																112.5	114	262566	2.5	D. Grabiec	Actlabs	A16-06948	42587
																114	115.6	262567	2.5	D. Grabiec	Actlabs	A16-06948	42587
115.6	115.87	LC														115.87	117.5	262568	2.5	D. Grabiec	Actlabs	A16-06948	42587

Drill Hole Log



Hole ID: SK97-03

Property: Viper

Hole Status	RELOGGED	Logged By	D. Grabiec	Drill Contractor	Norex Drilling	Grid ID	NAD83_16N	Dip	-45
Drill Date Started	3/17/1997	Log Started	7/1/2016	Core Storage	Magnet	North (m)	5500597.7	Azimuth	355
Drill Date Completed	3/19/1997	Log Completed	7/31/2016	Core Size	BQ	East (m)	530840.4	Survey Type	Header
Claim Number	4261571			Casing	Capped	Elevation (masl)	332	Max Depth (m)	158

Comments: Comments: Hole drilled by Cyprus Canada Inc. in 1997, relogged and resampled in July 2016 primarily by Dan Grabiec. For additional drillhole information see original log.

Lithology			Minerals				Veining			Alteration				Samples							
From	To	Code	From	To	Code	%	From	To	Code	From	To	Code	Int	From	To	SampleID	Au_ppb	Sampled By	Lab	Batch	Date
115.87	125.59	M3L					115.87	146.78	V2	115.87	122.7	SIL	1	117.5	119	262569	2.5	D. Grabiec	Actlabs	A16-06948	42587
														119	120.5	262570	2.5	D. Grabiec	Actlabs	A16-06948	42587
														120.5	122	262572	2.5	D. Grabiec	Actlabs	A16-06948	42587
														122	122.5	262573	2.5	D. Grabiec	Actlabs	A16-06948	42587
														122.5	125	656388	3	A. Tims	Historic	HistoricSK	35516
										122.7	123.5	CRB	1								
										123.5	140	SIL	1	125	126	262574	5	D. Grabiec	Actlabs	A16-06948	42587
125.9	127.1	M3L												126	127.1	262575	2.5	D. Grabiec	Actlabs	A16-06948	42587
														127.1	128.5	262576	6	D. Grabiec	Actlabs	A16-06948	42587
127.1	146.78	M3L												128.5	130	262577	2.5	D. Grabiec	Actlabs	A16-06948	42587
														130	131.5	656231	2.5	A. Tims	Historic	C97-60624.0	35516
														131.5	133	262578	2.5	D. Grabiec	Actlabs	A16-06948	42587
														133	134.5	262579	2.5	D. Grabiec	Actlabs	A16-06948	42587
														134.5	136	262580	2.5	D. Grabiec	Actlabs	A16-06948	42587
														136	137.5	262582	5	D. Grabiec	Actlabs	A16-06948	42587
														137.5	139	262583	2.5	D. Grabiec	Actlabs	A16-06948	42587
														139	140	262584	2.5	D. Grabiec	Actlabs	A16-06948	42587
														140	141.5	656232	2.5	A. Tims	Historic	C97-60624.0	35516
										140	146.78	SIL	2	141.5	143	656233	2.5	A. Tims	Historic	C97-60624.0	35516
														143	144.5	656234	2.5	A. Tims	Historic	C97-60624.0	35516
														144.5	146	656235	2.5	A. Tims	Historic	C97-60624.0	35516
														146	147.5	656236	2.5	A. Tims	Historic	C97-60624.0	35516
146.78	149.65	I3R					146.78	149.65	V2	146.78	149.65	SIL	2	147.5	149	656237	2.5	A. Tims	Historic	C97-60624.0	35516
														149	150.5	656238	2.5	A. Tims	Historic	C97-60624.0	35516
149.65	158	M3L					149.65	158	V2	149.65	158	CHL	1	150.5	152	656239	2.5	A. Tims	Historic	C97-60624.0	35516
														152	153.5	656240	2.5	A. Tims	Historic	C97-60624.0	35516
														153.5	155	656241	2.5	A. Tims	Historic	C97-60624.0	35516
														155	156.5	656242	8	A. Tims	Historic	C97-60624.0	35516
														156.5	158	656243	2.5	A. Tims	Historic	C97-60624.0	35516

Drill Hole Log



Hole ID: SK97-04

Property: Viper

Hole Status	RELOGGED	Logged By	D. Grabiec	Drill Contractor	Norex Drilling	Grid ID	NAD83_16N	Dip	-45
Drill Date Started	3/21/1997	Log Started	7/1/2016	Core Storage	Magnet	North (m)	5499365.3	Azimuth	355
Drill Date Completed	3/23/1997	Log Completed	7/31/2016	Core Size	BQ	East (m)	530967.7	Survey Type	Header
Claim Number	4261572			Casing	Pulled	Elevation (masl)	322	Max Depth (m)	173

Comments: Comments: Hole drilled by Cyprus Canada Inc. in 1997, relogged and resampled in July 2016 primarily by Dan Grabiec. For additional drillhole information see original log.

Lithology			Minerals				Veining			Alteration				Samples								
From	To	Code	From	To	Code	%	From	To	Code	From	To	Code	Int	From	To	SampleID	Au_ppb	Sampled By	Lab	Batch	Date	
0	5	OB																				
5	51.73	M3H	5	51.73	py	0.3	5	124.67	V3	5	46.59	Bio	1	5	6.5	262088	6	D. Grabiec	Actlabs	A16-07013	7/29/2016	
														6.5	8	262089	6	D. Grabiec	Actlabs	A16-07013	7/29/2016	
														8	9.5	262090	6	D. Grabiec	Actlabs	A16-07013	7/29/2016	
														9.5	11	262092	7	D. Grabiec	Actlabs	A16-07013	7/29/2016	
														11	12.5	262093	19	D. Grabiec	Actlabs	A16-07013	7/29/2016	
														12.5	14.15	262094	107	D. Grabiec	Actlabs	A16-07013	7/29/2016	
														14.15	15.66	656418	2.5	A. Tims	Historic	C97-60813.0	4/17/1997	
														15.66	17	262095	5	D. Grabiec	Actlabs	A16-07013	7/29/2016	
														17	18.5	262096	6	D. Grabiec	Actlabs	A16-07013	7/29/2016	
														18.5	20	262097	7	D. Grabiec	Actlabs	A16-07013	7/29/2016	
														20	21.5	262098	6	D. Grabiec	Actlabs	A16-07013	7/29/2016	
														21.5	22.65	262099	6	D. Grabiec	Actlabs	A16-07013	7/29/2016	
														22.65	24.1	656419	2.5	A. Tims	Historic	C97-60813.0	4/17/1997	
														24.1	25.5	262100	2.5	D. Grabiec	Actlabs	A16-07013	7/29/2016	
														25.5	27	262102	2.5	D. Grabiec	Actlabs	A16-07013	7/29/2016	
														27	28.5	262103	2.5	D. Grabiec	Actlabs	A16-07013	7/29/2016	
														28.5	29.8	262104	12	D. Grabiec	Actlabs	A16-07013	7/29/2016	
														29.8	31.28	656420	15	A. Tims	Historic	C97-60813.0	4/17/1997	
														31.28	32.7	262105	13	D. Grabiec	Actlabs	A16-07013	7/29/2016	
														32.7	33.7	262106	11	D. Grabiec	Actlabs	A16-07013	7/29/2016	
														33.7	35	262107	7	D. Grabiec	Actlabs	A16-07013	7/29/2016	
														35	36.5	262108	8	D. Grabiec	Actlabs	A16-07013	7/29/2016	
														36.5	37.63	262109	8	D. Grabiec	Actlabs	A16-07013	7/29/2016	
														37.63	39.35	656421	2.5	A. Tims	Historic	C97-60813.0	4/17/1997	
														39.35	40.5	262110	11	D. Grabiec	Actlabs	A16-07013	7/29/2016	
														40.5	42	262112	9	D. Grabiec	Actlabs	A16-07013	7/29/2016	
														42	43	262113	8	D. Grabiec	Actlabs	A16-07013	7/29/2016	
														43	44	262114	8	D. Grabiec	Actlabs	A16-07013	7/29/2016	
														44	45.5	262115	8	D. Grabiec	Actlabs	A16-07013	7/29/2016	
														45.5	46.59	262116	5	D. Grabiec	Actlabs	A16-07013	7/29/2016	
											46.59	47.41	bio	3	46.59	47.41	262117	6	D. Grabiec	Actlabs	A16-07013	7/29/2016
											47.41	51.73	Bio	1	47.41	49	262118	8	D. Grabiec	Actlabs	A16-07013	7/29/2016
														49	50	262119	16	D. Grabiec	Actlabs	A16-07013	7/29/2016	
														50	50.23	262120	13	D. Grabiec	Actlabs	A16-07013	7/29/2016	
														50.23	51.73	656422	15	A. Tims	Historic	C97-60813.0	4/17/1997	
51.73	124.67	M3I	51.73	124.67	PY	0.3				51.73	124.67	Bio	1	51.73	53.15	656423	71	A. Tims	Historic	C97-60813.0	4/17/1997	
														53.15	54.45	656424	109	A. Tims	Historic	C97-60813.0	4/17/1997	
														54.45	56	656425	83	A. Tims	Historic	C97-60813.0	4/17/1997	
														56	57.5	656244	172	A. Tims	Historic	C97-60707.0	4/9/1997	
														57.5	59	656245	46	A. Tims	Historic	C97-60707.0	4/9/1997	
														59	60.5	656246	36	A. Tims	Historic	C97-60707.0	4/9/1997	
														60.5	62	656247	21	A. Tims	Historic	C97-60707.0	4/9/1997	
														62	63.5	656248	1610	A. Tims	Historic	C97-60707.0	4/9/1997	
														63.5	65	656249	20	A. Tims	Historic	C97-60707.0	4/9/1997	

Drill Hole Log



Hole ID: SK97-04

Property: Viper

Hole Status	RELOGGED	Logged By	D. Grabiec	Drill Contractor	Norex Drilling	Grid ID	NAD83_16N	Dip	-45
Drill Date Started	3/21/1997	Log Started	7/1/2016	Core Storage	Magnet	North (m)	5499365.3	Azimuth	355
Drill Date Completed	3/23/1997	Log Completed	7/31/2016	Core Size	BQ	East (m)	530967.7	Survey Type	Header
Claim Number	4261572			Casing	Pulled	Elevation (masl)	322	Max Depth (m)	173

Comments: Comments: Hole drilled by Cyprus Canada Inc. in 1997, relogged and resampled in July 2016 primarily by Dan Grabiec. For additional drillhole information see original log.

Lithology			Minerals				Veining			Alteration				Samples								
From	To	Code	From	To	Code	%	From	To	Code	From	To	Code	Int	From	To	SampleID	Au_ppb	Sampled By	Lab	Batch	Date	
														65	66.5	656250	19	A. Tims	Historic	C97-60707.0	4/9/1997	
														66.5	68	656251	47	A. Tims	Historic	C97-60707.0	4/9/1997	
														68	69.2	656426	85	A. Tims	Historic	C97-60813.0	4/17/1997	
														69.2	70.39	656427	24	A. Tims	Historic	C97-60813.0	4/17/1997	
														70.39	71	656428	50	A. Tims	Historic	C97-60813.0	4/17/1997	
														71	72.5	656252	34	A. Tims	Historic	C97-60707.0	4/9/1997	
														72.5	74	656253	18	A. Tims	Historic	C97-60707.0	4/9/1997	
														74	75.5	656254	55	A. Tims	Historic	C97-60707.0	4/9/1997	
														75.5	77	656255	37	A. Tims	Historic	C97-60707.0	4/9/1997	
														77	78.5	656429	21	A. Tims	Historic	C97-60813.0	4/17/1997	
														78.5	80.1	656430	23	A. Tims	Historic	C97-60813.0	4/17/1997	
														80.1	80.7	656431	19	A. Tims	Historic	C97-60813.0	4/17/1997	
														80.7	81.04	656432	9	A. Tims	Historic	C97-60813.0	4/17/1997	
														81.04	83	656433	6	A. Tims	Historic	C97-60813.0	4/17/1997	
														83	85	656434	123	A. Tims	Historic	C97-60813.0	4/17/1997	
														85	86.8	656435	141	A. Tims	Historic	C97-60813.0	4/17/1997	
														86.8	88.8	656436	44	A. Tims	Historic	C97-60813.0	4/17/1997	
														88.8	90.4	656437	8	A. Tims	Historic	C97-60813.0	4/17/1997	
														90.4	91.9	656438	2.5	A. Tims	Historic	C97-60813.0	4/17/1997	
														91.9	93.5	656439	2.5	A. Tims	Historic	C97-60813.0	4/17/1997	
														93.5	95	656256	25	A. Tims	Historic	C97-60707.0	4/9/1997	
														95	96.5	656440	2.5	A. Tims	Historic	C97-60813.0	4/17/1997	
														96.5	98	656441	7	A. Tims	Historic	C97-60813.0	4/17/1997	
														98	99.5	656442	5	A. Tims	Historic	C97-60813.0	4/17/1997	
														99.5	101	656443	14	A. Tims	Historic	C97-60813.0	4/17/1997	
														101	102.5	656444	2.5	A. Tims	Historic	C97-60813.0	4/17/1997	
														102.5	104	656445	10	A. Tims	Historic	C97-60813.0	4/17/1997	
														104	105.5	656446	12	A. Tims	Historic	C97-60813.0	4/17/1997	
														105.5	107	656447	13	A. Tims	Historic	C97-60813.0	4/17/1997	
														107	108.5	656448	6	A. Tims	Historic	C97-60813.0	4/17/1997	
														108.5	110	656449	2.5	A. Tims	Historic	C97-60813.0	4/17/1997	
														110	111.85	656450	2.5	A. Tims	Historic	C97-60813.0	4/17/1997	
														111.85	113.35	656451	6	A. Tims	Historic	C97-60813.0	4/17/1997	
														113.35	114.5	656452	2.5	A. Tims	Historic	C97-60813.0	4/17/1997	
														114.5	116	656257	16	A. Tims	Historic	C97-60707.0	4/9/1997	
														116	117.5	656258	42	A. Tims	Historic	C97-60707.0	4/9/1997	
														117.5	119	656259	40	A. Tims	Historic	C97-60707.0	4/9/1997	
														119	120.5	656260	38	A. Tims	Historic	C97-60707.0	4/9/1997	
														120.5	122	656261	34	A. Tims	Historic	C97-60707.0	4/9/1997	
														122	123.5	656262	14	A. Tims	Historic	C97-60707.0	4/9/1997	
														123.5	124.7	656263	49	A. Tims	Historic	C97-60706.0	4/4/1997	
124.67	133.29	M3D	124.67	126	po	5	124.67	129	V3	124.67	129	bio	4									
														124.7	126	656264	2570	A. Tims	Historic	C97-60706.0	4/4/1997	
														126	127.5	656265	2850	A. Tims	Historic	C97-60706.0	4/4/1997	
														127.5	129	656266	2330	A. Tims	Historic	C97-60706.0	4/4/1997	

Drill Hole Log



Hole ID: SK97-04

Property: Viper

Hole Status	RELOGGED	Logged By	D. Grabiec	Drill Contractor	Norex Drilling	Grid ID	NAD83_16N	Dip	-45
Drill Date Started	3/21/1997	Log Started	7/1/2016	Core Storage	Magnet	North (m)	5499365.3	Azimuth	355
Drill Date Completed	3/23/1997	Log Completed	7/31/2016	Core Size	BQ	East (m)	530967.7	Survey Type	Header
Claim Number	4261572			Casing	Pulled	Elevation (masl)	322	Max Depth (m)	173

Comments: Comments: Hole drilled by Cyprus Canada Inc. in 1997, relogged and resampled in July 2016 primarily by Dan Grabiec. For additional drillhole information see original log.

Lithology			Minerals				Veining			Alteration				Samples								
From	To	Code	From	To	Code	%	From	To	Code	From	To	Code	Int	From	To	SampleID	Au_ppb	Sampled By	Lab	Batch	Date	
			129	130.5	po	3	129	162.19	V1	129	133.29	bio	2	129	130.5	656267	4390	A. Tims	Historic	C97-60706.0	4/4/1997	
			130.5	132	po	0.5								130.5	132	656268	784	A. Tims	Historic	C97-60706.0	4/4/1997	
			132	133.29	po	0.5								132	133.3	656269	139	A. Tims	Historic	C97-60706.0	4/4/1997	
133.29	164.19	E2T	133.29	162.19	py	0.1				133.29	164.19	CHL	2									
														133.3	135.3	656453	37	A. Tims	Historic	C97-60813.0	4/17/1997	
														135.3	137.3	656454	2.5	A. Tims	Historic	C97-60813.0	4/17/1997	
														137.3	138.5	262122	2.5	D. Grabiec	Actlabs	A16-07016	7/29/2016	
														138.5	140	262123	2.5	D. Grabiec	Actlabs	A16-07016	7/29/2016	
														140	141.5	262124	2.5	D. Grabiec	Actlabs	A16-07016	7/29/2016	
														141.5	143	262125	7	D. Grabiec	Actlabs	A16-07016	7/29/2016	
														143	145	656455	2.5	A. Tims	Historic	C97-60813.0	4/17/1997	
														145	146.5	262126	7	D. Grabiec	Actlabs	A16-07016	7/29/2016	
														146.5	148	262127	8	D. Grabiec	Actlabs	A16-07016	7/29/2016	
														148	149.5	262128	6	D. Grabiec	Actlabs	A16-07016	7/29/2016	
														149.5	151	262129	7	D. Grabiec	Actlabs	A16-07016	7/29/2016	
														151	152.6	262130	10	D. Grabiec	Actlabs	A16-07016	7/29/2016	
														152.6	154.6	656456	2.5	A. Tims	Historic	C97-60813.0	4/17/1997	
														154.6	156	262132	8	D. Grabiec	Actlabs	A16-07016	7/29/2016	
														156	157.5	262133	9	D. Grabiec	Actlabs	A16-07016	7/29/2016	
														157.5	159	262134	8	D. Grabiec	Actlabs	A16-07016	7/29/2016	
														159	160.6	262135	7	D. Grabiec	Actlabs	A16-07016	7/29/2016	
														160.6	162.19	262136	40	D. Grabiec	Actlabs	A16-07016	7/29/2016	
							162.19	173	V1													
														162.2	164.2	656457	2.5	A. Tims	Historic	C97-60813.0	4/17/1997	
164.19	173	E2T								164.19	173	chl	3									
														164.2	165.7	656458	61	A. Tims	Historic	C97-60813.0	4/17/1997	
														165.7	167.2	656459	2.5	A. Tims	Historic	C97-60813.0	4/17/1997	
														167.2	168.7	656460	2.5	A. Tims	Historic	C97-60813.0	4/17/1997	
														168.7	169.5	656461	2.5	A. Tims	Historic	C97-60813.0	4/17/1997	
														169.5	171	656270	11	A. Tims	Historic	C97-60707.0	4/9/1997	
														171	172.5	656271	28	A. Tims	Historic	C97-60707.0	4/9/1997	
														172.5	173	656462	2.5	A. Tims	Historic	C97-60813.0	4/17/1997	

Drill Hole Log



Hole ID: SK97-05

Property: Viper

Hole Status	RELOGGED	Logged By	D. Grabiec	Drill Contractor	Norex Drilling	Grid ID	NAD83_16N	Dip	-45
Drill Date Started	3/24/1997	Log Started	7/1/2016	Core Storage	Magnet	North (m)	5,501,848.20	Azimuth	355
Drill Date Completed	3/26/1997	Log Completed	7/31/2016	Core Size	BQ	East (m)	529,270.30	Survey Type	Header
Claim Number	4261567			Casing	Pulled	Elevation (masl)	357	Max Depth (m)	182

Comments: Hole drilled by Cyprus Canada Inc. in 1997, relogged and resampled in July 2016 primarily by Dan Grabiec. For additional drillhole information see original log.

Lithology			Minerals				Veining			Alteration				Samples								
From	To	Code	From	To	Code	%	From	To	Code	From	To	Code	Int	From	To	SampleID	Au_ppb	Sampled By	Lab	Batch	Date	
0	3.38	OB																				
							3.3	9.3	V3													
3.38	33.55	E2T								3.38	15.6	chl	2	3.38	5	262352	2.5	D. Grabiec	Actlabs	A16-07884	8/31/2016	
														5	6.5	262353	2.5	D. Grabiec	Actlabs	A16-07884	8/31/2016	
														6.5	8	262354	2.5	D. Grabiec	Actlabs	A16-07884	8/31/2016	
														8	9.5	262355	2.5	D. Grabiec	Actlabs	A16-07884	8/31/2016	
							9.3	9.5	V3													
							9.5	17.33	V3					9.5	11	262356	2.5	D. Grabiec	Actlabs	A16-07884	8/31/2016	
														11	12.5	262357	2.5	D. Grabiec	Actlabs	A16-07884	8/31/2016	
														12.5	14	262358	2.5	D. Grabiec	Actlabs	A16-07884	8/31/2016	
														14	15.5	262359	2.5	D. Grabiec	Actlabs	A16-07884	8/31/2016	
														15.5	17	262360	2.5	D. Grabiec	Actlabs	A16-07884	8/31/2016	
										15.6	19.2	chl	1									
			16.5	16.7	py	0.2																
														17	18.5	262362	2.5	D. Grabiec	Actlabs	A16-07884	8/31/2016	
							17.33	17.44	V3													
							17.44	36.5	V3													
														18.5	20	262363	2.5	D. Grabiec	Actlabs	A16-07884	8/31/2016	
														19.2	33.55	chl	2					
														20	21.5	262364	5	D. Grabiec	Actlabs	A16-07885	8/29/2016	
														21.5	23	262365	2.5	D. Grabiec	Actlabs	A16-07885	8/29/2016	
														23	24.5	262366	2.5	D. Grabiec	Actlabs	A16-07885	8/29/2016	
														24.5	26	262367	2.5	D. Grabiec	Actlabs	A16-07885	8/29/2016	
														26	27.5	262368	2.5	D. Grabiec	Actlabs	A16-07885	8/29/2016	
														27.5	29	262369	2.5	D. Grabiec	Actlabs	A16-07885	8/29/2016	
			29	35	py	0.2								29	30.5	262370	5	D. Grabiec	Actlabs	A16-07885	8/29/2016	
														30.5	32	262372	5	D. Grabiec	Actlabs	A16-07885	8/29/2016	
														32	33.55	262373	5	D. Grabiec	Actlabs	A16-07885	8/29/2016	
33.55	34	LC																				
34	35.85	E2T								34	35.85	chl	2	34	35	262374	5	D. Grabiec	Actlabs	A16-07885	8/29/2016	
														35	36.5	262375	5	D. Grabiec	Actlabs	A16-07885	8/29/2016	
			35.2	35.5	py	1																
35.85	49.41	E2T								35.85	49.41	chl	1									
			36.5	48.5	py	0.5	36.5	37.1	V3					36.5	38	656272	2.5	A. Tims	Historic	C97-60707.0	4/9/1997	
							37.1	56.72	V3													
														38	39.5	656273	2.5	A. Tims	Historic	C97-60707.0	4/9/1997	
														39.5	41	656274	2.5	A. Tims	Historic	C97-60707.0	4/9/1997	
														41	42.5	656275	2.5	A. Tims	Historic	C97-60707.0	4/9/1997	
														42.5	44	656276	6	A. Tims	Historic	C97-60707.0	4/9/1997	
														44	45.5	656277	2.5	A. Tims	Historic	C97-60707.0	4/9/1997	
														45.5	46.9	656278	2.5	A. Tims	Historic	C97-60707.0	4/9/1997	
														46.9	48.5	656279	7	A. Tims	Historic	C97-60707.0	4/9/1997	
														48.5	49.41	262376	2.5	D. Grabiec	Actlabs	A16-07885	8/29/2016	
49.41	52.19	I3R	49.41	52.2	py	0.3				49.41	52.19	chl	1	49.41	50.5	262377	2.5	D. Grabiec	Actlabs	A16-07885	8/29/2016	
														50.5	52.2	656280	2.5	A. Tims	Historic	C97-60707.0	4/9/1997	
52.19	56.72	E2T								52.19	56.72	chl	1									

Drill Hole Log



Hole ID: SK97-05

Property: Viper

Hole Status	RELOGGED	Logged By	D. Grabiec	Drill Contractor	Norex Drilling	Grid ID	NAD83_16N	Dip	-45
Drill Date Started	3/24/1997	Log Started	7/1/2016	Core Storage	Magnet	North (m)	5,501,848.20	Azimuth	355
Drill Date Completed	3/26/1997	Log Completed	7/31/2016	Core Size	BQ	East (m)	529,270.30	Survey Type	Header
Claim Number	4261567	Casing	Pulled	Elevation (masl)	357	Max Depth (m)	182		

Comments: Hole drilled by Cyprus Canada Inc. in 1997, relogged and resampled in July 2016 primarily by Dan Grabiec. For additional drillhole information see original log.

Lithology			Minerals				Veining			Alteration				Samples								
From	To	Code	From	To	Code	%	From	To	Code	From	To	Code	Int	From	To	SampleID	Au_ppb	Sampled By	Lab	Batch	Date	
														52.2	53.5	656281	2.5	A. Tims	Historic	C97-60707.0	4/9/1997	
														53.5	55	656282	2.5	A. Tims	Historic	C97-60707.0	4/9/1997	
														55.5	56.7	656283	2.5	A. Tims	Historic	C97-60707.0	4/9/1997	
														56.7	58	656284	2.5	A. Tims	Historic	C97-60707.0	4/9/1997	
56.72	59.78	I0E					56.72	59.78	V2	56.72	59.78	chl	3									
														58	59.5	656285	2.5	A. Tims	Historic	C97-60707.0	4/9/1997	
														59.5	61	656286	2.5	A. Tims	Historic	C97-60707.0	4/9/1997	
59.78	64.16	E2T					59.78	64	V2	59.78	64.16	chl	1									
														61	62.5	656287	2.5	A. Tims	Historic	C97-60707.0	4/9/1997	
														62.5	64	656288	2.5	A. Tims	Historic	C97-60707.0	4/9/1997	
							64	71.11	V2					64	65.5	262378	5	D. Grabiec	Actlabs	A16-07885		
64.16	71.11	I0E								64.16	71.11	chl	3									
														65.5	67	262379	5	D. Grabiec	Actlabs	A16-07885	8/29/2016	
														67	68.5	262380	5	D. Grabiec	Actlabs	A16-07885	8/29/2016	
														68.5	70	262382	6	D. Grabiec	Actlabs	A16-07885	8/29/2016	
														70	71.1	262383	2.5	D. Grabiec	Actlabs	A16-07885	8/29/2016	
														71.1	72.5	656289	2.5	A. Tims	Historic	C97-60707.0	4/9/1997	
71.11	74.3	E2T					71.11	98	V2	71.11	74.3	chl	1									
														72.5	74	656290	2.5	A. Tims	Historic	C97-60707.0	4/9/1997	
														74	75.5	656291	2.5	A. Tims	Historic	C97-60707.0	4/9/1997	
74.3	75.2	I0E								74.3	75.2	chl	3									
75.2	86.88	E2T								75.2	86.88	sil	3									
														75.5	77	656292	2.5	A. Tims	Historic	C97-60707.0	4/9/1997	
														77	78.5	656293	2.5	A. Tims	Historic	C97-60707.0	4/9/1997	
														78.5	80	656294	2.5	A. Tims	Historic	C97-60708.0	4/9/1997	
														80	81.5	656295	2.5	A. Tims	Historic	C97-60708.0	4/9/1997	
														81.5	83	656296	2.5	A. Tims	Historic	C97-60708.0	4/9/1997	
														83	85.5	656297	2.5	A. Tims	Historic	C97-60708.0	4/9/1997	
														85.5	87	656298	2.5	A. Tims	Historic	C97-60708.0	4/9/1997	
			86	86.88	py	0.3																
86.88	89	I0E								86.88	89	chl	3									
														87	87.5	262384	6	D. Grabiec	Actlabs	A16-07885	8/29/2016	
														87.5	88	262385	5	D. Grabiec	Actlabs	A16-07885	8/29/2016	
														88	89	262386	6	D. Grabiec	Actlabs	A16-07885	8/29/2016	
89	95.44	E2T								89	95.44	sil	3									
														89	90.5	262387	2.5	D. Grabiec	Actlabs	A16-07885	8/29/2016	
														90.5	92	656299	2.5	A. Tims	Historic	C97-60708.0	4/9/1997	
														92	93.5	656300	2.5	A. Tims	Historic	C97-60708.0	4/9/1997	
														93.5	95	656301	2.5	A. Tims	Historic	C97-60708.0	4/9/1997	
														95	96.5	656302	2.5	A. Tims	Historic	C97-60708.0	4/9/1997	
95.44	98.25	E2T								95.44	98.25	chl	1									
														96.5	98	656303	2.5	A. Tims	Historic	C97-60708.0	4/9/1997	
			98	98.3	py	0.5	98	107.42	V2					98	99.5	656304	2.5	A. Tims	Historic	C97-60708.0	4/9/1997	
98.25	100.86	I0E								98.25	100.86	chl	3									
														99.5	101	656305	2.5	A. Tims	Historic	C97-60708.0	4/9/1997	
100.86	101.95	E2T								100.86	101.95	chl	1									
														101	102.5	656306	2.5	A. Tims	Historic	C97-60708.0	4/9/1997	

Drill Hole Log



Hole ID: SK97-05

Property: Viper

Hole Status	RELOGGED	Logged By	D. Grabiec	Drill Contractor	Norex Drilling	Grid ID	NAD83_16N	Dip	-45
Drill Date Started	3/24/1997	Log Started	7/1/2016	Core Storage	Magnet	North (m)	5,501,848.20	Azimuth	355
Drill Date Completed	3/26/1997	Log Completed	7/31/2016	Core Size	BQ	East (m)	529,270.30	Survey Type	Header
Claim Number	4261567	Casing	Pulled	Elevation (masl)	357	Max Depth (m)	182		

Comments: Hole drilled by Cyprus Canada Inc. in 1997, relogged and resampled in July 2016 primarily by Dan Grabiec. For additional drillhole information see original log.

Lithology			Minerals				Veining			Alteration				Samples								
From	To	Code	From	To	Code	%	From	To	Code	From	To	Code	Int	From	To	SampleID	Au_ppb	Sampled By	Lab	Batch	Date	
101.95	107.42	IOE	101.95	107.42	py	0.3				101.95	107.42	chl	3									
														102.5	104	262388	2.5	D. Grabiec	Actlabs	A16-07885	8/29/2016	
														104	105.5	262389	5	D. Grabiec	Actlabs	A16-07885	8/29/2016	
														105.5	106.5	262390	5	D. Grabiec	Actlabs	A16-07885	8/29/2016	
														106.5	107.4	262392	2.5	D. Grabiec	Actlabs	A16-07885	8/29/2016	
														107.4	108.5	656307	2.5	A. Tims		C97-60708.0	4/9/1997	
107.42	118.93	E2T	107.42	113	py	0.3	107.42	132	V2	107.42	118.93	chl	1									
														108.5	110	656308	2.5	A. Tims	Historic	C97-60708.0	4/9/1997	
														110	111.5	656309	2.5	A. Tims	Historic	C97-60708.0	4/9/1997	
														111.5	113	656310	2.5	A. Tims	Historic	C97-60708.0	4/9/1997	
			113	123.05	py	1											2.5					
														113	114.5	656311	2.5	A. Tims	Historic	C97-60708.0	4/9/1997	
														114.5	116	656312	2.5	A. Tims	Historic	C97-60708.0	4/9/1997	
														116	117.5	656313	2.5	A. Tims	Historic	C97-60708.0	4/9/1997	
118.93	123.05	I3R								118.93	123.05	sil	3	117.5	119	656314		A. Tims	Historic	C97-60708.0	4/9/1997	
														119	120.5	656315	2.5	A. Tims	Historic	C97-60708.0	4/9/1997	
														120.5	122	656316	2.5	A. Tims	Historic	C97-60708.0	4/9/1997	
														122	123.1	656317	2.5	A. Tims	Historic	C97-60708.0	4/9/1997	
123.05	141.8	IOE	123.05	141.8	py	0.2				123.05	141.8	chl	3									
														123.1	124.5	656318	2.5	A. Tims	Historic	C97-60708.0	4/9/1997	
														124.5	126	656319	2.5	A. Tims	Historic	C97-60708.0	4/9/1997	
														126	127.5	656320	2.5	A. Tims	Historic	C97-60708.0	4/9/1997	
														127.5	129	656321	2.5	A. Tims	Historic	C97-60708.0	4/9/1997	
														129	130.5	656322	2.5	A. Tims	Historic	C97-60708.0	4/9/1997	
														130.5	132	262393	2.5	D. Grabiec	Actlabs	A16-07885	8/29/2016	
							132	141.8	V2					132	133.5	262394	2.5	D. Grabiec	Actlabs	A16-07885	8/29/2016	
														133.5	135	262395	2.5	D. Grabiec	Actlabs	A16-07885	8/29/2016	
														135	136.5	262396	2.5	D. Grabiec	Actlabs	A16-07885	8/29/2016	
														136.5	138	262397	2.5	D. Grabiec	Actlabs	A16-07885	8/29/2016	
														138	139.5	262398	8	D. Grabiec	Actlabs	A16-07883	8/29/2016	
														139.5	140.5	262399	2.5	D. Grabiec	Actlabs	A16-07883	8/29/2016	
														140.5	141.8	262400	2.5	D. Grabiec	Actlabs	A16-07883	8/29/2016	
141.8	147.54	E2T	141.8	160.3	py	0.1	141.8	147.54	V2	141.8	147.54	sil	2	141.8	143	262402	5	D. Grabiec	Actlabs	A16-07883	8/29/2016	
														143	144.5	262403	5	D. Grabiec	Actlabs	A16-07883	8/29/2016	
														144.5	146	262404	2.5	D. Grabiec	Actlabs	A16-07883	8/29/2016	
														146	147.54	262405	2.5	D. Grabiec	Actlabs	A16-07883	8/29/2016	
147.54	153.53	IOE					147.54	160.63	V2	147.54	153.53	chl	3	147.54	149	262406	5	D. Grabiec	Actlabs	A16-07883	8/29/2016	
														149	150.5	262407	2.5	D. Grabiec	Actlabs	A16-07883	8/29/2016	
														150.5	152	262408	2.5	D. Grabiec	Actlabs	A16-07883	8/29/2016	
														152	153.5	262409	2.5	D. Grabiec	Actlabs	A16-07883	8/29/2016	
														153.5	155	656323	2.5	A. Tims	Historic	C97-60708.0	4/9/1997	
153.53	160.1	E2T								153.53	160.1	sil	1									
														155	156.5	656324	2.5	A. Tims	Historic	C97-60708.0	4/9/1997	
														156.5	158	656325	2.5	A. Tims	Historic	C97-60708.0	4/9/1997	
														158	159.5	656326	2.5	A. Tims	Historic	C97-60708.0	4/9/1997	
														159.5	161	656327	2.5	A. Tims	Historic	C97-60708.0	4/9/1997	

Drill Hole Log



Hole ID: SK97-05

Property: Viper

Hole Status	RELOGGED	Logged By	D. Grabiec	Drill Contractor	Norex Drilling	Grid ID	NAD83_16N	Dip	-45
Drill Date Started	3/24/1997	Log Started	7/1/2016	Core Storage	Magnet	North (m)	5,501,848.20	Azimuth	355
Drill Date Completed	3/26/1997	Log Completed	7/31/2016	Core Size	BQ	East (m)	529,270.30	Survey Type	Header
Claim Number	4261567			Casing	Pulled	Elevation (masl)	357	Max Depth (m)	182

Comments: Hole drilled by Cyprus Canada Inc. in 1997, relogged and resampled in July 2016 primarily by Dan Grabiec. For additional drillhole information see original log.

Lithology			Minerals				Veining			Alteration				Samples								
From	To	Code	From	To	Code	%	From	To	Code	From	To	Code	Int	From	To	SampleID	Au_ppb	Sampled By	Lab	Batch	Date	
160.1	160.63	IOE								160.1	160.63	sil	1									
			160.3	161	py	0.5																
160.63	182	E2T					160.63	165.5	V2	160.63	182	chl	2									
			161	162.5	py	3								161	162.5	656328	2.5	A. Tims	Historic	C97-60708.0	4/9/1997	
														162.5	164	656329	2.5	A. Tims	Historic	C97-60708.0	4/9/1997	
														164	165.5	656330	2.5	A. Tims	Historic	C97-60708.0	4/9/1997	
							165.5	166.2	V2					165.5	167	656331	2.5	A. Tims	Historic	C97-60708.0	4/9/1997	
							166.2	182	V2													
														167	168.5	656332	2.5	A. Tims	Historic	C97-60708.0	4/9/1997	
														168.5	170	656333	2.5	A. Tims	Historic	C97-60708.0	4/9/1997	
														170	171.5	656334	2.5	A. Tims	Historic	C97-60708.0	4/9/1997	
														171.5	173	656335	2.5	A. Tims	Historic	C97-60708.0	4/9/1997	
														173	174.5	656336	2.5	A. Tims	Historic	C97-60708.0	4/9/1997	
														174.5	176	656337	2.5	A. Tims	Historic	C97-60708.0	4/9/1997	
														176	177.5	656338	2.5	A. Tims	Historic	C97-60708.0	4/9/1997	
														177.5	179	656339	2.5	A. Tims	Historic	C97-60708.0	4/9/1997	
														179	180.5	262410	5	D. Grabiec	Actlabs	A16-07883	8/29/2016	
														180.5	182	262412	2.5	D. Grabiec	Actlabs	A16-07883	8/29/2016	

Drill Hole Log



Hole ID: SK97-06

Property: Viper

Hole Status	RELOGGED	Logged By	D. Grabiec	Drill Contractor	Norex Drilling	Grid ID	NAD83_16N	Dip	-45
Drill Date Started	3/27/1997	Log Started	7/1/2016	Core Storage	Magnet	North (m)	5,500,628.60	Azimuth	355
Drill Date Completed	3/29/1997	Log Completed	7/31/2016	Core Size	BQ	East (m)	532,031.10	Survey Type	Header
Claim Number	4261571			Casing	Pulled	Elevation (masl)	321.00	Max Depth (m)	170

Comments: Hole drilled by Cyprus Canada Inc. in 1997, relogged and resampled in July 2016 primarily by Dan Grabiec. For additional drillhole information see original log.

Lithology			Minerals				Veining			Alteration				Samples									
From	To	Code	From	To	Code	%	From	To	Code	From	To	Code	Int	From	To	SampleID	Au_ppb	Sampled By	Lab	Batch	Date		
0	7.3	OB																					
7.3	12.63	E2T	7.3	15.94	PY	3	7.3	10	V2	7.3	9	BIO	2										
														7.5	9	656389	7	A. Tims	Historic	HistoricSK	4/9/1997		
											9	12.63	BIO	1	9	10.5	262609	2.5	D. Grabiec	Actlabs	A16-07609	8/31/2016	
								10	12.94	V3													
														10.5	12	262610	2.5	D. Grabiec	Actlabs	A16-07609	8/31/2016		
														12	12.94	262612	2.5	D. Grabiec	Actlabs	A16-07609	8/31/2016		
12.63	45.88	E2T								12.63	18	CHL	1										
								12.94	15.94	V3				12.94	14.44	656390	11	A. Tims	Historic	HistoricSK	4/9/1997		
														14.44	15.94	656391	21	A. Tims	Historic	HistoricSK	4/9/1997		
			15.94	23.5	BA		15.94	47	V3					15.94	17.5	262613	5	D. Grabiec	Actlabs	A16-07609	8/31/2016		
														17.5	19	262614	2.5	D. Grabiec	Actlabs	A16-07609	8/31/2016		
											18	26	gm	1									
														19	20.5	262615	2.5	D. Grabiec	Actlabs	A16-07609	8/31/2016		
														20.5	22	262616	2.5	D. Grabiec	Actlabs	A16-07609	8/31/2016		
														22	23.5	262617	2.5	D. Grabiec	Actlabs	A16-07609	8/31/2016		
			23.5	26.5	PY	0.2								23.5	25	262618	5	D. Grabiec	Actlabs	A16-07609	8/31/2016		
														25	26.5	262619	2.5	D. Grabiec	Actlabs	A16-07641	8/31/2016		
											26	30.5	CHL	1									
			26.5	67.4	BA									26.5	28	262620	2.5	D. Grabiec	Actlabs	A16-07641	8/31/2016		
														28	29.5	262622	2.5	D. Grabiec	Actlabs	A16-07641	8/31/2016		
														29.5	31	262623	2.5	D. Grabiec	Actlabs	A16-07641	8/31/2016		
											30.5	45.88	gm	1									
														31	32.5	262624	2.5	D. Grabiec	Actlabs	A16-07641	8/31/2016		
														32.5	34	262625	2.5	D. Grabiec	Actlabs	A16-07641	8/31/2016		
														34	35.5	262626	2.5	D. Grabiec	Actlabs	A16-07641	8/31/2016		
														35.5	37	262627	6	D. Grabiec	Actlabs	A16-07641	8/31/2016		
														37	38.5	262628	2.5	D. Grabiec	Actlabs	A16-07641	8/31/2016		
														38.5	40	262629	2.5	D. Grabiec	Actlabs	A16-07641	8/31/2016		
														40	41.5	262630	2.5	D. Grabiec	Actlabs	A16-07641	8/31/2016		
														41.5	43	262632	2.5	D. Grabiec	Actlabs	A16-07641	8/31/2016		
														43	44.5	262633	2.5	D. Grabiec	Actlabs	A16-07641	8/31/2016		
														44.5	45.5	262634		D. Grabiec	Actlabs	A16-07641	8/31/2016		
														45.5	47	656392	3	A. Tims	Historic	HistoricSK	4/9/1997		
45.88	108.1	E2T								45.88	48.5	KFP	1										
								47	48.5	V3				47	48.5	656393	3	A. Tims	Historic	HistoricSK	4/9/1997		
								48.5	57	V2				48.5	50	262635	2.5	D. Grabiec	Actlabs	A16-07641	8/31/2016		
														50	51.5	262636	2.5	D. Grabiec	Actlabs	A16-07641	8/31/2016		
														51.5	52.75	262637	2.5	D. Grabiec	Actlabs	A16-07641	8/31/2016		
											52.75	56.5	ANK	2	52.75	54.5	656340	2.5	A. Tims	Historic	C97-60747.0	4/9/1997	
														54.5	56	656341	2.5	A. Tims	Historic	C97-60747.0	4/9/1997		
														56	57.5	656342	2.5	A. Tims	Historic	C97-60747.0	4/9/1997		
											56.5	67.2	KFP	1									
								57	101	V2													
														57.5	59	656343	2.5	A. Tims	Historic	C97-60747.0	4/9/1997		

Drill Hole Log



Hole ID: SK97-06

Property: Viper

Hole Status	RELOGGED	Logged By	D. Grabiec	Drill Contractor	Norex Drilling	Grid ID	NAD83_16N	Dip	-45
Drill Date Started	3/27/1997	Log Started	7/1/2016	Core Storage	Magnet	North (m)	5,500,628.60	Azimuth	355
Drill Date Completed	3/29/1997	Log Completed	7/31/2016	Core Size	BQ	East (m)	532,031.10	Survey Type	Header
Claim Number	4261571			Casing	Pulled	Elevation (masl)	321.00	Max Depth (m)	170

Comments: Hole drilled by Cyprus Canada Inc. in 1997, relogged and resampled in July 2016 primarily by Dan Grabiec. For additional drillhole information see original log.

Lithology			Minerals				Veining			Alteration				Samples							
From	To	Code	From	To	Code	%	From	To	Code	From	To	Code	Int	From	To	SampleID	Au_ppb	Sampled By	Lab	Batch	Date
														59	60.5	656344	2.5	A. Tims	Historic	C97-60747.0	4/9/1997
														60.5	62	656345	2.5	A. Tims	Historic	C97-60747.0	4/9/1997
														62	63.5	656346	2.5	A. Tims	Historic	C97-60747.0	4/9/1997
														63.5	65	656347	2.5	A. Tims	Historic	C97-60747.0	4/9/1997
														65	66.5	656348	2.5	A. Tims	Historic	C97-60747.0	4/9/1997
														66.5	68	656349	2.5	A. Tims	Historic	C97-60747.0	4/9/1997
										67.2	71.7	ANK	3								
			67.4	71.5																	
														68	69.5	656350	20	A. Tims	Historic	C97-60747.0	4/9/1997
														69.5	70.6	656351	14	A. Tims	Historic	C97-60747.0	4/9/1997
														70.6	71.75	656352	2.5	A. Tims	Historic	C97-60747.0	4/9/1997
			71.5	84.5																	
										71.7	74.5	CHL	1								
														71.75	72.85	656353	2.5	A. Tims	Historic	C97-60747.0	4/9/1997
														72.85	74	656354	12	A. Tims	Historic	C97-60747.0	4/9/1997
														74	75.5	656355	49	A. Tims	Historic	C97-60747.0	4/9/1997
										74.5	78.5	ANK	3								
														75.5	77	656356	7	A. Tims	Historic	C97-60747.0	4/9/1997
														77	78.5	656357	2.5	A. Tims	Historic	C97-60747.0	4/9/1997
										78.5	85.4	CHL	2	78.5	80	262638	2.5	D. Grabiec	Actlabs	A16-07641	8/31/2016
														80	81.5	262639	2.5	D. Grabiec	Actlabs	A16-07641	8/31/2016
														81.5	83	262640	2.5	D. Grabiec	Actlabs	A16-07641	8/31/2016
														83	84.5	262642	2.5	D. Grabiec	Actlabs	A16-07641	8/31/2016
			84.5	92	PY	1.5								84.5	86	262643	2.5	D. Grabiec	Actlabs	A16-07641	8/31/2016
										85.4	89.2	ANK	3								
														86	87.5	656358	7	A. Tims	Historic	C97-60747.0	4/9/1997
														87.5	89	656359	2.5	A. Tims	Historic	C97-60747.0	4/9/1997
														89	90.5	656360	2.5	A. Tims	Historic	C97-60747.0	4/9/1997
										89.2	91	CHL	1								
														90.5	92	656361	2.5	A. Tims	Historic	C97-60747.0	4/9/1997
										91	96.5	ANK	3								
			92	108.1	BA									92	93.5	656362	2.5	A. Tims	Historic	C97-60747.0	4/9/1997
														93.5	95	656363	2.5	A. Tims	Historic	C97-60747.0	4/9/1997
														95	96.5	656364	2.5	A. Tims	Historic	C97-60747.0	4/9/1997
										96.5	106.5	KFP	1	96.5	98	656365	5	A. Tims	Historic	C97-60747.0	4/9/1997
														98	99.5	656366	2.5	A. Tims	Historic	C97-60747.0	4/9/1997
														99.5	101	656367	2.5	A. Tims	Historic	C97-60747.0	4/9/1997
										101	118.5	V3		101	101.96	656368	2.5	A. Tims	Historic	C97-60747.0	4/9/1997
														101.96	104	656369	2.5	A. Tims	Historic	C97-60747.0	4/9/1997
														104	105.5	656370	2.5	A. Tims	Historic	C97-60747.0	4/9/1997
														105.5	107	656371	2.5	A. Tims	Historic	C97-60747.0	4/9/1997
										106.5	108.1	SIL	1								
														107	108.5	656372	2.5	A. Tims	Historic	C97-60747.0	4/9/1997
108.1	134.84	E2T	108.1	114.5	PY	5				108.1	117	gm	1								
														108.5	110	656373	36	A. Tims	Historic	C97-60747.0	4/9/1997

Drill Hole Log



Hole ID: SK97-06

Property: Viper

Hole Status	RELOGGED	Logged By	D. Grabiec	Drill Contractor	Norex Drilling	Grid ID	NAD83_16N	Dip	-45
Drill Date Started	3/27/1997	Log Started	7/1/2016	Core Storage	Magnet	North (m)	5,500,628.60	Azimuth	355
Drill Date Completed	3/29/1997	Log Completed	7/31/2016	Core Size	BQ	East (m)	532,031.10	Survey Type	Header
Claim Number	4261571			Casing	Pulled	Elevation (masl)	321.00	Max Depth (m)	170

Comments: Hole drilled by Cyprus Canada Inc. in 1997, relogged and resampled in July 2016 primarily by Dan Grabiec. For additional drillhole information see original log.

Lithology			Minerals				Veining			Alteration				Samples							
From	To	Code	From	To	Code	%	From	To	Code	From	To	Code	Int	From	To	SampleID	Au_ppb	Sampled By	Lab	Batch	Date
														110	111.5	656374	2.5	A. Tims	Historic	C97-60747.0	4/9/1997
														111.5	113	262644	2.5	D. Grabiec	Actlabs	A16-07641	8/31/2016
														113	114.5	262645	28	D. Grabiec	Actlabs	A16-07641	8/31/2016
			114.5	116	BA									114.5	116	262646	2.5	D. Grabiec	Actlabs	A16-07641	8/31/2016
			116	123.5	PY	2								116	117.5	262647	52	D. Grabiec	Actlabs	A16-07641	8/31/2016
										117	144	ANK	2								
														117.5	119	262648	2.5	D. Grabiec	Actlabs	A16-07641	8/31/2016
							118.5	170	V3												
														119	120.5	262649	2.5	D. Grabiec	Actlabs	A16-07641	8/31/2016
														120.5	122	262650	2.5	D. Grabiec	Actlabs	A16-07641	8/31/2016
														122	123.5	262652	2.5	D. Grabiec	Actlabs	A16-07641	8/31/2016
			123.5	131	BA									123.5	125	262653	2.5	D. Grabiec	Actlabs	A16-07642	8/31/2016
														125	126.5	262654	2.5	D. Grabiec	Actlabs	A16-07642	8/31/2016
														126.5	128	262655	2.5	D. Grabiec	Actlabs	A16-07642	8/31/2016
														128	129.5	262656	2.5	D. Grabiec	Actlabs	A16-07642	8/31/2016
														129.5	131	262657	2.5	D. Grabiec	Actlabs	A16-07642	8/31/2016
			131	133.5	PY	0.3								131	132.5	262658	2.5	D. Grabiec	Actlabs	A16-07642	8/31/2016
														132.5	133.5	262659	2.5	D. Grabiec	Actlabs	A16-07642	8/31/2016
			133.5	170	BA									133.5	134.84	262660	2.5	D. Grabiec	Actlabs	A16-07642	8/31/2016
134.84	157.78	E2T												134.84	136	262662	2.5	D. Grabiec	Actlabs	A16-07642	8/31/2016
														136	137.5	262663	2.5	D. Grabiec	Actlabs	A16-07642	8/31/2016
														137.5	139	262664	2.5	D. Grabiec	Actlabs	A16-07642	8/31/2016
														139	140.5	262665	2.5	D. Grabiec	Actlabs	A16-07642	8/31/2016
														140.5	142	262666	2.5	D. Grabiec	Actlabs	A16-07642	8/31/2016
														142	143.5	262667	2.5	D. Grabiec	Actlabs	A16-07642	8/31/2016
														143.5	145	262668	2.5	D. Grabiec	Actlabs	A16-07642	8/31/2016
										144	153.5	ANK	1								
														145	146.5	262669	2.5	D. Grabiec	Actlabs	A16-07642	8/31/2016
														146.5	148	262670	2.5	D. Grabiec	Actlabs	A16-07642	8/31/2016
														148	149.5	262672	2.5	D. Grabiec	Actlabs	A16-07642	8/31/2016
														149.5	151	262673	2.5	D. Grabiec	Actlabs	A16-07642	8/31/2016
														151	152.5	262674	2.5	D. Grabiec	Actlabs	A16-07773	8/31/2016
														152.5	154	262675	2.5	D. Grabiec	Actlabs	A16-07773	8/31/2016
										153.5	157.78	gm	1								
														154	155.5	262676	2.5	D. Grabiec	Actlabs	A16-07773	8/31/2016
														155.5	156.5	262677	2.5	D. Grabiec	Actlabs	A16-07773	8/31/2016
														156.5	157.78	262678	2.5	D. Grabiec	Actlabs	A16-07773	8/31/2016
157.78	167.26	E2T								157.78	167.26	BIO	1	157.78	159	262679	2.5	D. Grabiec	Actlabs	A16-07773	8/31/2016
														159	160.5	262680	2.5	D. Grabiec	Actlabs	A16-07773	8/31/2016
														160.5	162	262682	2.5	D. Grabiec	Actlabs	A16-07773	8/31/2016
														162	163.5	262683	2.5	D. Grabiec	Actlabs	A16-07773	8/31/2016
														163.5	165	262684	22	D. Grabiec	Actlabs	A16-07773	8/31/2016
														165	166	262685	2.5	D. Grabiec	Actlabs	A16-07773	8/31/2016
														166	167.26	262686	2.5	D. Grabiec	Actlabs	A16-07773	8/31/2016
167.26	170	E2T								167.26	170	gm	2	167.26	168.5	262687	2.5	D. Grabiec	Actlabs	A16-07773	8/31/2016

Drill Hole Log



Hole ID: SK97-06

Property: Viper

Hole Status	RELOGGED	Logged By	D. Grabiec	Drill Contractor	Norex Drilling	Grid ID	NAD83_16N	Dip	-45
Drill Date Started	3/27/1997	Log Started	7/1/2016	Core Storage	Magnet	North (m)	5,500,628.60	Azimuth	355
Drill Date Completed	3/29/1997	Log Completed	7/31/2016	Core Size	BQ	East (m)	532,031.10	Survey Type	Header
Claim Number	4261571			Casing	Pulled	Elevation (masl)	321.00	Max Depth (m)	170

Comments: Hole drilled by Cyprus Canada Inc. in 1997, relogged and resampled in July 2016 primarily by Dan Grabiec. For additional drillhole information see original log.

Lithology			Minerals				Veining			Alteration				Samples							
From	To	Code	From	To	Code	%	From	To	Code	From	To	Code	Int	From	To	SampleID	Au_ppb	Sampled By	Lab	Batch	Date
														168.5	170	262688	2.5	D. Grabiec	Actlabs	A16-07773	8/31/2016

Drill Hole Log



Hole ID: SK97-07

Property: Viper

Hole Status	RELOGGED	Logged By	D. Grabiec	Drill Contractor	Norex Drilling	Grid ID	NAD83_16N	Dip	-45
Drill Date Started	3/30/1997	Log Started	7/1/2016	Core Storage	Magnet	North (m)	5,500,815.80	Azimuth	355
Drill Date Completed	3/31/1997	Log Completed	7/31/2016	Core Size	BQ	East (m)	534,689.50	Survey Type	Header
Claim Number	4261576			Casing	Capped	Elevation (masl)	339	Max Depth (m)	155

Comments: Hole drilled by Cyprus Canada Inc. in 1997, relogged and resampled in July 2016 primarily by Dan Grabiec. For additional drillhole information see original log.

Lithology			Minerals				Veining			Alteration				Samples								
From	To	Code	From	To	Code	%	From	To	Code	From	To	Code	Int	From	To	SampleID	Au_ppb	Sampled By	Lab	Batch	Date	
0	3	OB																				
3	9.9	E2T					3	9.9	V2	3	7	BIO	1	3	4.5	262420	6	D. Grabiec	Actlabs	A16-07200	8/10/2016	
														4.5	6	262422	5	D. Grabiec	Actlabs	A16-07200	8/10/2016	
														6	7.5	262423	2.5	D. Grabiec	Actlabs	A16-07200	8/10/2016	
										7	9.9	grn	1									
														7.5	9	262424	2.5	D. Grabiec	Actlabs	A16-07200	8/10/2016	
														9	9.9	262425	6	D. Grabiec	Actlabs	A16-07200	8/10/2016	
9.9	13.47	IOE					9.9	13.47	V2	9.9	13.47	BIO	3	9.9	10.7	262426	8	D. Grabiec	Actlabs	A16-07200	8/10/2016	
			10	15.05	PY	0.1																
														10.7	12.2	656394	7	D. Stevenson	Historic	HistoricSK	1/1/1997	
														12.2	13.47	262427	6	D. Grabiec	Actlabs	A16-07200	8/10/2016	
13.47	15.05	E1T4					13.47	15.05	V2	13.47	15.05	BIO	1	13.47	15.05	262428	97	D. Grabiec	Actlabs	A16-07200	8/10/2016	
15.05	27.58	LC																				
														22.3	23.75	656395	27	D. Stevenson	Historic	HistoricSK	1/1/1997	
27.58	31.75	E1T4					27.58	31.75	V3	27.58	29.5	grn	1	27.58	29	262429	8	D. Grabiec	Actlabs	A16-07200	8/10/2016	
			29	29.5	PY	0.1								29	30	262430	6	D. Grabiec	Actlabs	A16-07200	8/10/2016	
										29.5	31.75	BIO	2									
														30	31.05	262432	7	D. Grabiec	Actlabs	A16-07200	8/10/2016	
														31.05	32.5	656396	3	D. Stevenson	Historic	HistoricSK	1/1/1997	
31.75	35.43	I3R					31.75	33.7	V2	31.75	35.43	BIO	2									
														32.5	34	656397	3	D. Stevenson	Historic	HistoricSK	1/1/1997	
										33.7	35.43	V2										
														34	35.43	262433	8	D. Grabiec	Actlabs	A16-07200	8/10/2016	
35.43	36.22	LC																				
36.22	37.35	I3R	36.22	37.35	PY	0.1	36.22	37.35	V2	36.22	37.35	CHL	1	36.22	37.35	656398	3	D. Stevenson	Historic	HistoricSK	1/1/1997	
37.35	39.89	I3R					37.35	39.89	V2	37.35	39.89	BIO	2	37.35	38.5	262434	7	D. Grabiec	Actlabs	A16-07200	8/10/2016	
														38.5	39.89	262435	10	D. Grabiec	Actlabs	A16-07200	8/10/2016	
39.89	46.7	E1T4					39.89	46.7	V3	39.89	46.7	grn	2	39.89	41.5	262436	2.5	D. Grabiec	Actlabs	A16-07200	8/10/2016	
														41.5	43	262437	667	D. Grabiec	Actlabs	A16-07200	8/10/2016	
														43	44.5	262438	2.5	D. Grabiec	Actlabs	A16-07200	8/10/2016	
			43.7	46.7	PY	0.1																
														44.5	45.65	262439	7	D. Grabiec	Actlabs	A16-07200	8/10/2016	
														45.65	47.1	656399	23	D. Stevenson	Historic	HistoricSK	1/1/1997	
46.7	49.55	E1T4					46.7	49.55	V2	46.7	49.55	KFP	1									
														47.1	48.55	262440	9	D. Grabiec	Actlabs	A16-07200	8/10/2016	
														48.55	50	656400	3	D. Stevenson	Historic	HistoricSK	1/1/1997	
49.55	57.05	E1T4	49.55	50	PY	1	49.55	51.4	V2	49.55	51.7	CHL	1									
														50	51.5	262442	5	D. Grabiec	Actlabs	A16-07200	8/10/2016	
														51.4	51.8							
														51.7	55							
														51.8	56							
														53	54.5	262444	2.5	D. Grabiec	Actlabs	A16-07200	8/10/2016	
														54.5	56	262445	9	D. Grabiec	Actlabs	A16-07200	8/10/2016	
										55	57.05	BIO	1									
														56	57.05	262446	7	D. Grabiec	Actlabs	A16-07200	8/10/2016	

Drill Hole Log



Hole ID: SK97-07

Property: Viper

Hole Status	RELOGGED	Logged By	D. Grabiec	Drill Contractor	Norex Drilling	Grid ID	NAD83_16N	Dip	-45
Drill Date Started	3/30/1997	Log Started	7/1/2016	Core Storage	Magnet	North (m)	5,500,815.80	Azimuth	355
Drill Date Completed	3/31/1997	Log Completed	7/31/2016	Core Size	BQ	East (m)	534,689.50	Survey Type	Header
Claim Number	4261576	Casing	Capped	Elevation (masl)	339	Max Depth (m)	155		
Comments: Hole drilled by Cyprus Canada Inc. in 1997, relogged and resampled in July 2016 primarily by Dan Grabiec. For additional drillhole information see original log.									

Lithology			Minerals				Veining			Alteration				Samples								
From	To	Code	From	To	Code	%	From	To	Code	From	To	Code	Int	From	To	SampleID	Au_ppb	Sampled By	Lab	Batch	Date	
			56.5	57	PY	0.3																
57.05	57.25	LC																				
57.25	63.15	E1T4								57.25	57.87	V2	2	57.25	58.7	656401	15	D. Stevenson	Historic	HistoricSK	1/1/1997	
														58.7	59.87	262447	7	D. Grabiec	Actlabs	A16-07200	8/10/2016	
										60.3	61.7	V2		60.3	61.7	262448	7	D. Grabiec	Actlabs	A16-07200	8/10/2016	
			61	61.7	PY	0.5																
			61.7	62	PY	0.1				61.7	63.5	V2		61.7	63.15	656402	8	D. Stevenson	Historic	HistoricSK	1/1/1997	
63.15	80.4	E1T4								63.15	69	HEM	1	63.15	64.5	262449	2.5	D. Grabiec	Actlabs	A16-07200	8/10/2016	
										63.5	64	V3										
										64	74	V3										
														64.5	66	262450	2.5	D. Grabiec	Actlabs	A16-07200	8/10/2016	
														66	67.5	262452	5	D. Grabiec	Actlabs	A16-07200	8/10/2016	
														67.5	69	262453	5	D. Grabiec	Actlabs	A16-07200	8/10/2016	
														69	70.45	262454	8	D. Grabiec	Actlabs	A16-07200	8/10/2016	
														70.45	71.85	656403	3	D. Stevenson	Historic	HistoricSK	1/1/1997	
			71	73	PY	0.1																
														71.85	73.4	262455	2.5	D. Grabiec	Actlabs	A16-07642	8/31/2016	
										72	80.4	gm	1									
														73.4	75	262456	2.5	D. Grabiec	Actlabs	A16-07642	8/31/2016	
										74	103.25	V3										
														75	76.5	262457	2.5	D. Grabiec	Actlabs	A16-07642	8/31/2016	
														76.5	77.7	262458	2.5	D. Grabiec	Actlabs	A16-07642	8/31/2016	
														77.7	79.25	656404	3	D. Stevenson	Historic	HistoricSK	1/1/1997	
														79.25	80.4	262459	2.5	D. Grabiec	Actlabs	A16-07642	8/31/2016	
80.4	80.73	LC																				
80.73	93.5	E1T4								80.73	84.3	HEM	1	80.73	82.1	262460	2.5	D. Grabiec	Actlabs	A16-07642	8/31/2016	
														82.1	83.5	656405	3	D. Stevenson	Historic	HistoricSK	1/1/1997	
														83.5	85	262462	2.5	D. Grabiec	Actlabs	A16-07642	8/31/2016	
										84.3	87.5	gm	1									
														85	86.5	262463	2.5	D. Grabiec	Actlabs	A16-07642	8/31/2016	
			86	87	PY	0.1								86.5	88	262464	2.5	D. Grabiec	Actlabs	A16-07642	8/31/2016	
														87.5	91	gm	2					
														88	89.5	262465	2.5	D. Grabiec	Actlabs	A16-07642	8/31/2016	
														89.5	91	262466	2.5	D. Grabiec	Actlabs	A16-07642	8/31/2016	
			90	100	PY	0.1																
										91	93.5	HEM	3	91	92.5	262467	2.5	D. Grabiec	Actlabs	A16-07642	8/31/2016	
														92.5	93.5	262468	2.5	D. Grabiec	Actlabs	A16-07773	8/31/2016	
93.5	93.75	LC																				
93.75	96	E1T4								93.75	96	HEM	3	93.75	95.25	656406	7	D. Stevenson	Historic	HistoricSK	1/1/1997	
														95.25	96	262469	2.5	D. Grabiec	Actlabs	A16-07773	8/31/2016	
96	96.3	LC																				
96.3	103.25	E1T4								96.3	100	gm	1	96.3	97.5	262470	2.5	D. Grabiec	Actlabs	A16-07773	8/31/2016	
														97.5	99	262472	2.5	D. Grabiec	Actlabs	A16-07773	8/31/2016	
														99	100	262473	2.5	D. Grabiec	Actlabs	A16-07773	8/31/2016	
			100	101.75	PY	0.3				100	103.25	KFP	1	100	101	262474	28	D. Grabiec	Actlabs	A16-07773	8/31/2016	

Drill Hole Log



Hole ID: SK97-07

Property: Viper

Hole Status	RELOGGED	Logged By	D. Grabiec	Drill Contractor	Norex Drilling	Grid ID	NAD83_16N	Dip	-45
Drill Date Started	3/30/1997	Log Started	7/1/2016	Core Storage	Magnet	North (m)	5,500,815.80	Azimuth	355
Drill Date Completed	3/31/1997	Log Completed	7/31/2016	Core Size	BQ	East (m)	534,689.50	Survey Type	Header
Claim Number	4261576	Casing	Capped	Elevation (masl)	339	Max Depth (m)	155		

Comments: Hole drilled by Cyprus Canada Inc. in 1997, relogged and resampled in July 2016 primarily by Dan Grabiec. For additional drillhole information see original log.

Lithology			Minerals				Veining			Alteration				Samples								
From	To	Code	From	To	Code	%	From	To	Code	From	To	Code	Int	From	To	SampleID	Au_ppb	Sampled By	Lab	Batch	Date	
														101	101.75	262475	13	D. Grabiec	Actlabs	A16-07883	8/29/2016	
														101.75	103.25	656407	67	D. Stevenson	Historic	HistoricSK	1/1/1997	
103.25	107.68	I3R					103.25	107.68	V3	103.25	107.68	SIL	2	103.25	104.75	656408	9	D. Stevenson	Historic	HistoricSK	1/1/1997	
														104.75	106.25	656409	9	D. Stevenson	Historic	HistoricSK	1/1/1997	
														106.25	107.68	656410	18	D. Stevenson	Historic	HistoricSK	1/1/1997	
			107	107.68	PY	0.1																
107.68	132.67	E1T4					107.68	119.1	V2	107.68	114.8	gm	1	107.68	109.2	656411	7	D. Stevenson	Historic	HistoricSK	1/1/1997	
			109	117	PY	0.1																
														109.2	110.5	262476	2.5	D. Grabiec	Actlabs	A16-07883	8/29/2016	
														110.5	112	262477	2.5	D. Grabiec	Actlabs	A16-07883	8/29/2016	
														112	113.5	262478	2.5	D. Grabiec	Actlabs	A16-07883	8/29/2016	
														113.5	115	262479	2.5	D. Grabiec	Actlabs	A16-07883	8/29/2016	
										114.8	132.67	SIL	1									
														115	116.5	262480	2.5	D. Grabiec	Actlabs	A16-07883	8/29/2016	
														116.5	118	262482	2.5	D. Grabiec	Actlabs	A16-07883	8/29/2016	
														118	119	262483	2.5	D. Grabiec	Actlabs	A16-07883	8/29/2016	
														119	120	262484	2.5	D. Grabiec	Actlabs	A16-07883	8/29/2016	
							119.1	132.67	V2													
														120	121.35	262485	2.5	D. Grabiec	Actlabs	A16-07883	8/29/2016	
														121.35	122.8	656412	3	D. Stevenson	Historic	HistoricSK	1/1/1997	
														122.8	124	262486	2.5	D. Grabiec	Actlabs	A16-07883	8/29/2016	
														124	125.5	262487	2.5	D. Grabiec	Actlabs	A16-07883	8/29/2016	
														125.5	127	262488	2.5	D. Grabiec	Actlabs	A16-07883	8/29/2016	
														127	128.5	262489	2.5	D. Grabiec	Actlabs	A16-07883	8/29/2016	
														128.5	130	262490	2.5	D. Grabiec	Actlabs	A16-07883	8/29/2016	
			129	135.8	PY	0.1																
														130	131.5	262492	2.5	D. Grabiec	Actlabs	A16-07883	8/29/2016	
														131.5	132.67	262493	2.5	D. Grabiec	Actlabs	A16-07883	8/29/2016	
132.67	152.3	E1T4					132.67	145	V3	132.67	152.3	CRB	2	132.67	133.5	262494	9	D. Grabiec	Actlabs	A16-07881	8/29/2016	
														133.5	134.35	262495	6	D. Grabiec	Actlabs	A16-07881	8/29/2016	
														134.35	135.8	656413	3	D. Stevenson	Historic	HistoricSK	1/1/1997	
														135.8	137	262496	7	D. Grabiec	Actlabs	A16-07881	8/29/2016	
														137	138.5	262497	8	D. Grabiec	Actlabs	A16-07881	8/29/2016	
														138.5	140	262498	9	D. Grabiec	Actlabs	A16-07881	8/29/2016	
														140	141.5	262499	9	D. Grabiec	Actlabs	A16-07881	8/29/2016	

Drill Hole Log



Hole ID: SK97-08

Property: Viper

Hole Status	RELOGGED	Logged By	D. Grabiec	Drill Contractor	Norex Drilling	Grid ID	NAD83_16N	Dip	-45
Drill Date Started	4/4/1997	Log Started	7/1/2016	Core Storage	Magnet	North (m)	5,499,783.70	Azimuth	355
Drill Date Completed	4/5/1997	Log Completed	7/31/2016	Core Size	BQ	East (m)	534,747.20	Survey Type	Header
Claim Number	4261577			Casing	Pulled	Elevation (masl)	332.00	Max Depth (m)	179

Comments: Comments: Hole drilled by Cyprus Canada Inc. in 1997, relogged and resampled in July 2016 primarily by Dan Grabiec. For additional drillhole information see original log.

Lithology			Minerals				Veining			Alteration				Samples								
From	To	Code	From	To	Code	%	From	To	Code	From	To	Code	Int	From	To	SampleID	Au_ppb	Sampled By	Lab	Batch	Date	
0	7	OB																				
7	7.9	I1					7	16.9	V3	7	7.9	CHL	3	7	7.9	656463	2.5	D. Stevenson	Historic	C97-60813.0	4/17/1997	
7.9	29.36	S3E	7.9	24.4	PY	1				7.9	29.36	bio	1	7.9	9.4	656464	7	D. Stevenson	Historic	C97-60813.0	4/17/1997	
														9.4	10.9	656465	44	D. Stevenson	Historic	C97-60813.0	4/17/1997	
														10.9	12.4	656466	36	D. Stevenson	Historic	C97-60813.0	4/17/1997	
														12.4	13.9	656467	42	D. Stevenson	Historic	C97-60813.0	4/17/1997	
														13.9	15.4	656468	132	D. Stevenson	Historic	C97-60814.0	4/15/1997	
														15.4	16.9	656469	13	D. Stevenson	Historic	C97-60814.0	4/15/1997	
							16.9	18.4	V3					16.9	18.4	656470	33	D. Stevenson	Historic	C97-60814.0	4/15/1997	
							18.4	27.36	V3					18.4	19.9	656471	24	D. Stevenson	Historic	C97-60814.0	4/15/1997	
														19.9	21.4	656472	18	D. Stevenson	Historic	C97-60814.0	4/15/1997	
														21.4	22.9	656473	29	D. Stevenson	Historic	C97-60814.0	4/15/1997	
														22.9	24.4	656474	35	D. Stevenson	Historic	C97-60814.0	4/15/1997	
			24.4	29.36	PY	0.2								24.4	25.9	656475	11	D. Stevenson	Historic	C97-60814.0	4/15/1997	
														25.9	27.36	656476	36	D. Stevenson	Historic	C97-60814.0	4/15/1997	
							27.36	70.45	V3					27.36	28.36	262254	21	D. Grabiec	Actlabs	A16-07193	8/10/2016	
														28.36	29.36	262255	61	D. Grabiec	Actlabs	A16-07193	8/10/2016	
29.36	30.47	I1	29.36	30.47	py	0.5				29.36	30.47	bio	3	29.36	30.47	262256	8	D. Grabiec	Actlabs	A16-07193	8/10/2016	
30.47	38.9	S3E	30.47	42.78	py	0.2				30.47	38.9	bio	1	30.47	32	262257	6	D. Grabiec	Actlabs	A16-07193	8/10/2016	
														32	33.5	262258	7	D. Grabiec	Actlabs	A16-07193	8/10/2016	
														33.5	34.5	262259	5	D. Grabiec	Actlabs	A16-07193	8/10/2016	
														34.5	35.92	656477	2.5	D. Stevenson	Historic	C97-60814.0	4/15/1997	
														35.92	37	262260	12	D. Grabiec	Actlabs	A16-07193	8/10/2016	
														37	38.5	262262	10	D. Grabiec	Actlabs	A16-07193	8/10/2016	
														38.5	39.5	262263	10	D. Grabiec	Actlabs	A16-07193	8/10/2016	
														39.5	41	656478	14	D. Stevenson	Historic	C97-60814.0	4/15/1997	
														41	42	262264	13	D. Grabiec	Actlabs	A16-07193	8/10/2016	
41.34	44.28	M3H								41.34	44.28	bio	1									
			42.78	44.28	py	0.5								42	42.78	262265	9	D. Grabiec	Actlabs	A16-07193	8/10/2016	
														42.78	44.28	656479	69	D. Stevenson	Historic	C97-60814.0	4/15/1997	
44.28	47.06	E2T	44.28	47.06	py	0.2				44.28	47.06	chl	2	44.28	45.7	656480	2.5	D. Stevenson	Historic	C97-60814.0	4/15/1997	
														45.7	47.06	656481	28	D. Stevenson	Historic	C97-60814.0	4/15/1997	
47.06	70.45	S3E	47.06	48	py	0.5				47.06	70.45	bio	1	47.06	48.6	656482	5	D. Stevenson	Historic	C97-60814.0	4/15/1997	
			48	70.45	py	0.1																
														48.6	50	262266	9	D. Grabiec	Actlabs	A16-07193	8/10/2016	
														50	51.5	262267	11	D. Grabiec	Actlabs	A16-07193	8/10/2016	
														51.5	53	262268	8	D. Grabiec	Actlabs	A16-07193	8/10/2016	
														53	54.5	262269	8	D. Grabiec	Actlabs	A16-07193	8/10/2016	
														54.5	56	262270	22	D. Grabiec	Actlabs	A16-07193	8/10/2016	
														56	57.5	262272	11	D. Grabiec	Actlabs	A16-07193	8/10/2016	
														57.5	59	262273	55	D. Grabiec	Actlabs	A16-07193	8/10/2016	
														59	60	262274	10	D. Grabiec	Actlabs	A16-07193	8/10/2016	
														60	60.7	262275	10	D. Grabiec	Actlabs	A16-07194	8/10/2016	
														60.7	62.12	656483	20	D. Stevenson	Historic	C97-60814.0	4/15/1997	
														62.12	63.5	262276	5	D. Grabiec	Actlabs	A16-07194	8/10/2016	

Drill Hole Log



Hole ID: SK97-08

Property: Viper

Hole Status	RELOGGED	Logged By	D. Grabiec	Drill Contractor	Norex Drilling	Grid ID	NAD83_16N	Dip	-45
Drill Date Started	4/4/1997	Log Started	7/1/2016	Core Storage	Magnet	North (m)	5,499,783.70	Azimuth	355
Drill Date Completed	4/5/1997	Log Completed	7/31/2016	Core Size	BQ	East (m)	534,747.20	Survey Type	Header
Claim Number	4261577			Casing	Pulled	Elevation (masl)	332.00	Max Depth (m)	179

Comments: Comments: Hole drilled by Cyprus Canada Inc. in 1997, relogged and resampled in July 2016 primarily by Dan Grabiec. For additional drillhole information see original log.

Lithology			Minerals				Veining			Alteration				Samples								
From	To	Code	From	To	Code	%	From	To	Code	From	To	Code	Int	From	To	SampleID	Au_ppb	Sampled By	Lab	Batch	Date	
														63.5	65	262277	13	D. Grabiec	Actlabs	A16-07194	8/10/2016	
														65	66.5	262278	5	D. Grabiec	Actlabs	A16-07194	8/10/2016	
														66.5	68	262279	6	D. Grabiec	Actlabs	A16-07194	8/10/2016	
														68	69.5	262280	5	D. Grabiec	Actlabs	A16-07194	8/10/2016	
														69.5	70.45	262282	11	D. Grabiec	Actlabs	A16-07194	8/10/2016	
70.45	76.8	E2T	70.45	71.95	py	0.5	70.45	74.95	V3	70.45	76.8	chl	2	70.45	71.95	656484	2.5	D. Stevenson	Historic	C97-60814.0	4/15/1997	
			71.95	73.45	py	2								71.95	73.45	656485	7	D. Stevenson	Historic	C97-60814.0	4/15/1997	
			73.45	74.95	py	2								73.45	74.95	656486	691	D. Stevenson	Historic	C97-60814.0	4/15/1997	
			74.95	76.45	py	0.5	74.95	76.8	V3					74.95	76.45	656487	35	D. Stevenson	Historic	C97-60814.0	4/15/1997	
			76.45	77.95	py	1								76.45	77.95	656488	66	D. Stevenson	Historic	C97-60814.0	4/15/1997	
76.8	77.95	E2T					76.8	77.95	V3	76.8	77.95	bio	2									
77.95	81.15	E1T4					77.95	123	V3	77.95	81.15	chl	2	77.95	79.5	262283	7	D. Grabiec	Actlabs	A16-07194	8/10/2016	
														79.5	81.15	262284	6	D. Grabiec	Actlabs	A16-07194	8/10/2016	
81.15	97.34	E2T								81.15	97.34	chl	2	81.15	82	262285	11	D. Grabiec	Actlabs	A16-07194	8/10/2016	
														82	83	262286	5	D. Grabiec	Actlabs	A16-07194	8/10/2016	
														83	84.5	656489	8	D. Stevenson	Historic	C97-60814.0	4/15/1997	
														84.5	86	262287	6	D. Grabiec	Actlabs	A16-07194	8/10/2016	
														86	87.5	262288	7	D. Grabiec	Actlabs	A16-07194	8/10/2016	
														87.5	89	262289	6	D. Grabiec	Actlabs	A16-07194	8/10/2016	
														89	90.5	262290	12	D. Grabiec	Actlabs	A16-07194	8/10/2016	
														90.5	92	262292	10	D. Grabiec	Actlabs	A16-07194	8/10/2016	
														92	93.5	262293	6	D. Grabiec	Actlabs	A16-07194	8/10/2016	
														93.5	95	262294	7	D. Grabiec	Actlabs	A16-07194	8/10/2016	
														95	96.5	656490	2.5	D. Stevenson	Historic	C97-60814.0	4/15/1997	
														96.5	97.34	262295	2.5	D. Grabiec	Actlabs	A16-07194	8/10/2016	
97.34	98.05	I1					97.34	98.05		chl	2			97.34	98.05	262296	8	D. Grabiec	Actlabs	A16-07194	8/10/2016	
98.05	111.25	E2T					98.05	111.25		chl	1			98.05	99.5	262297	7	D. Grabiec	Actlabs	A16-07194	8/10/2016	
														99.5	101	262298	13	D. Grabiec	Actlabs	A16-07194	8/10/2016	
														101	102.5	262299	6	D. Grabiec	Actlabs	A16-07194	8/10/2016	
														102.5	104	262300	7	D. Grabiec	Actlabs	A16-07194	8/10/2016	
														104	105.17	262302	6	D. Grabiec	Actlabs	A16-07194	8/10/2016	
														105.17	105.43	656491	2.5	D. Stevenson	Historic	C97-60814.0	4/15/1997	
														105.43	107	262303	10	D. Grabiec	Actlabs	A16-07195	8/10/2016	
														107	108.5	656492	2.5	D. Stevenson	Historic	C97-60814.0	4/15/1997	
														108.5	110	262304	2.5	D. Grabiec	Actlabs	A16-07195	8/10/2016	
														110	111.25	262305	2.5	D. Grabiec	Actlabs	A16-07195	8/10/2016	
111.25	119.7	E1T4					111.25	119.7		chl	2			111.25	112.5	262306	5	D. Grabiec	Actlabs	A16-07195	8/10/2016	
														112.5	113.5	262307	6	D. Grabiec	Actlabs	A16-07195	8/10/2016	
														113.5	114.6	262308	5	D. Grabiec	Actlabs	A16-07195	8/10/2016	
														114.6	116.05	656493	2.5	D. Stevenson	Historic	C97-60814.0	4/15/1997	
														116.05	117.5	262309	2.5	D. Grabiec	Actlabs	A16-07195	8/10/2016	
														117.5	118.5	262310	5	D. Grabiec	Actlabs	A16-07195	8/10/2016	
														118.5	119.7	262312	5	D. Grabiec	Actlabs	A16-07195	8/10/2016	
119.7	132.55	E2T					119.7	132.55		chl	1			119.7	121	262313	2.5	D. Grabiec	Actlabs	A16-07195	8/10/2016	
														121	122.5	262314	2.5	D. Grabiec	Actlabs	A16-07195	8/10/2016	

Drill Hole Log



Hole ID: SK97-08

Property: Viper

Hole Status	RELOGGED	Logged By	D. Grabiec	Drill Contractor	Norex Drilling	Grid ID	NAD83_16N	Dip	-45
Drill Date Started	4/4/1997	Log Started	7/1/2016	Core Storage	Magnet	North (m)	5,499,783.70	Azimuth	355
Drill Date Completed	4/5/1997	Log Completed	7/31/2016	Core Size	BQ	East (m)	534,747.20	Survey Type	Header
Claim Number	4261577			Casing	Pulled	Elevation (masl)	332.00	Max Depth (m)	179

Comments: Comments: Hole drilled by Cyprus Canada Inc. in 1997, relogged and resampled in July 2016 primarily by Dan Grabiec. For additional drillhole information see original log.

Lithology			Minerals				Veining			Alteration				Samples							
From	To	Code	From	To	Code	%	From	To	Code	From	To	Code	Int	From	To	SampleID	Au_ppb	Sampled By	Lab	Batch	Date
														122.5	124	262315	5	D. Grabiec	Actlabs	A16-07195	8/10/2016
							123	132.55	V3												
														124	125	262316	5	D. Grabiec	Actlabs	A16-07195	8/10/2016
														125	126.2	262317	137	D. Grabiec	Actlabs	A16-07195	8/10/2016
														126.3	127.65	656494	2.5	D. Stevenson	Historic	C97-60814.0	4/15/1997
														127.65	129	262318	10	D. Grabiec	Actlabs	A16-07195	8/10/2016
														129	130.5	262319	9	D. Grabiec	Actlabs	A16-07195	8/10/2016
														130.5	132	262320	13	D. Grabiec	Actlabs	A16-07195	8/10/2016
														132	132.89	262322	8	D. Grabiec	Actlabs	A16-07195	8/10/2016
132.55	132.89	E1T4					132.55	179	V2	132.55	157.95	chl	2								
132.89	133.45	I3R	132.89	133.45	py	0.3								132.89	133.45	656495	2.5	D. Stevenson	Historic	C97-60814.0	4/15/1997
133.45	157.95	E1T4												133.45	134.95	656496	2.5	D. Stevenson	Historic	C97-60814.0	4/15/1997
														134.95	136.5	262323	5	D. Grabiec	Actlabs	A16-07195	8/10/2016
														136.5	137.7	262324	2.5	D. Grabiec	Actlabs	A16-07195	8/10/2016
														137.7	139.19	656497	2.5	D. Stevenson	Historic	C97-60814.0	4/15/1997
														139.19	140.5	262325	5	D. Grabiec	Actlabs	A16-07195	8/10/2016
														140.5	142	262326	5	D. Grabiec	Actlabs	A16-07195	8/10/2016
														142	143.5	262327	6	D. Grabiec	Actlabs	A16-07195	8/10/2016
														143.5	145	262328	7	D. Grabiec	Actlabs	A16-07195	8/10/2016
														145	146.46	656498	43	D. Stevenson	Historic	C97-60814.0	4/15/1997
			145.2	146.3	py	0.3															
														146.46	147.5	262329	2.5	D. Grabiec	Actlabs	A16-07195	8/10/2016
														147.5	148.41	262330	5	D. Grabiec	Actlabs	A16-07195	8/10/2016
														148.41	148.95	656499	2.5	D. Stevenson	Historic	C97-60814.0	4/15/1997
														148.95	150.5	262332	2.5	D. Grabiec	Actlabs	A16-07197	8/10/2016
														150.5	152	262333	6	D. Grabiec	Actlabs	A16-07197	8/10/2016
														152	153.5	262334	7	D. Grabiec	Actlabs	A16-07197	8/10/2016
														153.5	155	262335	2.5	D. Grabiec	Actlabs	A16-07197	8/10/2016
														155	156.5	262336	5	D. Grabiec	Actlabs	A16-07197	8/10/2016
														156.5	157.95	262337	2.5	D. Grabiec	Actlabs	A16-07197	8/10/2016
157.95	158.73	I3R	157.95	158.73	py	0.3				157.95	158.73	bio	1	157.95	158.73	262338	2.5	D. Grabiec	Actlabs	A16-07197	8/10/2016
158.73	172.9	E1T4								158.73	172.9	chl	2	158.73	160	262339	2.5	D. Grabiec	Actlabs	A16-07197	8/10/2016
														160	161.33	262340	2.5	D. Grabiec	Actlabs	A16-07197	8/10/2016
														161.33	163.29	656500	2.5	D. Stevenson	Historic	C97-60814.0	4/15/1997
														163.29	164.5	262342	2.5	D. Grabiec	Actlabs	A16-07197	8/10/2016
														164.5	166	262343	5	D. Grabiec	Actlabs	A16-07197	8/10/2016
														166	167.5	262344	6	D. Grabiec	Actlabs	A16-07197	8/10/2016
														167.5	169	262345	7	D. Grabiec	Actlabs	A16-07197	8/10/2016
														169	170.5	262346	6	D. Grabiec	Actlabs	A16-07197	8/10/2016
														170.5	172	262347	6	D. Grabiec	Actlabs	A16-07197	8/10/2016
														172	172.9	262348	5	D. Grabiec	Actlabs	A16-07197	8/10/2016
172.9	179	I3R								172.9	179	bio	1	172.9	174.4	656501	2.5	D. Stevenson	Historic	C97-60814.0	4/15/1997
			174.4	179	py	0.3								174.4	176	262349	6	D. Grabiec	Actlabs	A16-07197	8/10/2016
														176	177.5	262350	7	D. Grabiec	Actlabs	A16-07197	8/10/2016
														177.5	179	656502	2.5	D. Stevenson	Historic	C97-60814.0	4/15/1997

Drill Hole Log



Hole ID: SK97-09

Property: Viper

Hole Status	RELOGGED	Logged By	D. Grabiec	Drill Contractor	Norex Drilling	Grid ID	NAD83_16N	Dip	-45
Drill Date Started	4/7/1997	Log Started	7/1/2016	Core Storage	Magnet	North (m)	5,499,418.50	Azimuth	355
Drill Date Completed	4/9/1997	Log Completed	7/31/2016	Core Size	BQ	East (m)	531,062.20	Survey Type	Header
Claim Number	4261572			Casing	Unknown	Elevation (masl)	326	Max Depth (m)	161

Comments: Hole drilled by Cyprus Canada Inc. in 1997, relogged and resampled in July 2016 primarily by Dan Grabiec. For additional drillhole information see original log.

Lithology			Minerals				Veining			Alteration				Samples								
From	To	Code	From	To	Code	%	From	To	Code	From	To	Code	Int	From	To	SampleID	Au_ppb	Sampled By	Lab	Batch	Date	
0	5	OB																				
5	79.03	M3L	5	6.5	PY	1	5	11	V3	5	9.4	ser	1	5	6.5	656503	248	A. Tims	Historic	C97-60847.0	4/21/1997	
			6.5	8	PY	0.5								6.5	8	656504	1370	A. Tims	Historic	C97-60847.0	4/21/1997	
			8	12.5	PY	0.5								8	9.5	656505	108	A. Tims	Historic	C97-60847.0	4/21/1997	
										9.4	9.45	chl	2									
										9.45	79.03	bio	1									
														9.5	11	656506	112	A. Tims	Historic	C97-60847.0	4/21/1997	
										11	12.5			11	12.5	656507	180	A. Tims	Historic	C97-60847.0	4/21/1997	
			12.5	79.03	py	0.1			V3					12.5	14	656508	27	A. Tims	Historic	C97-60847.0	4/21/1997	
														14	15.5	656509	17	A. Tims	Historic	C97-60847.0	4/21/1997	
														15.5	17	656510	17	A. Tims	Historic	C97-60847.0	4/21/1997	
														17	18.5	656511	5	A. Tims	Historic	C97-60847.0	4/21/1997	
														18.5	20	656512	52	A. Tims	Historic	C97-60847.0	4/21/1997	
														20	21.5	656513	17	A. Tims	Historic	C97-60847.0	4/21/1997	
														21.5	23	656514	11	A. Tims	Historic	C97-60847.0	4/21/1997	
														23	23.81	656515	9	A. Tims	Historic	C97-60847.0	4/21/1997	
														23.81	26	656516	139	A. Tims	Historic	C97-60847.0	4/21/1997	
														26	27.5	656517	14	A. Tims	Historic	C97-60847.0	4/21/1997	
														27.5	29	656518	21	A. Tims	Historic	C97-60847.0	4/21/1997	
														29	30.5	656519	14	A. Tims	Historic	C97-60847.0	4/21/1997	
														30.5	32	656520	25	A. Tims	Historic	C97-60847.0	4/21/1997	
														32	33.5	656521	9	A. Tims	Historic	C97-60847.0	4/21/1997	
														33.5	35	656522	5	A. Tims	Historic	C97-60847.0	4/21/1997	
														35	36.5	656523	13	A. Tims	Historic	C97-60847.0	4/21/1997	
														36.5	38	656524	6	A. Tims	Historic	C97-60847.0	4/21/1997	
														38	39.5	656525	12	A. Tims	Historic	C97-60847.0	4/21/1997	
														39.5	41	656526	13	A. Tims	Historic	C97-60847.0	4/21/1997	
														41	42.5	656527	8	A. Tims	Historic	C97-60847.0	4/21/1997	
														42.5	44	656528	2.5	A. Tims	Historic	C97-60847.0	4/21/1997	
														44	45.5	656529	54	A. Tims	Historic	C97-60847.0	4/21/1997	
														45.5	47	656530	26	A. Tims	Historic	C97-60847.0	4/21/1997	
														47	48.5	656531	8	A. Tims	Historic	C97-60847.0	4/21/1997	
														48.5	50	656532	8	A. Tims	Historic	C97-60847.0	4/21/1997	
														50	51.5	656533	8	A. Tims	Historic	C97-60847.0	4/21/1997	
														51.5	53	656534	10	A. Tims	Historic	C97-60847.0	4/21/1997	
														53	54.5	656535	8	A. Tims	Historic	C97-60847.0	4/21/1997	
														54.5	56	656536	5	A. Tims	Historic	C97-60847.0	4/21/1997	
														56	57.5	656537	6	A. Tims	Historic	C97-60847.0	4/21/1997	
														57.5	59	656538	9	A. Tims	Historic	C97-60847.0	4/21/1997	
														59	61.5	656539	9	A. Tims	Historic	C97-60847.0	4/21/1997	
														61.5	62	656540	11	A. Tims	Historic	C97-60847.0	4/21/1997	
														62	63.5	656541	43	A. Tims	Historic	C97-60847.0	4/21/1997	
														63.5	65	656542	9	A. Tims	Historic	C97-60847.0	4/21/1997	
														65	67.5	656543	71	A. Tims	Historic	C97-60847.0	4/21/1997	
														67.5	68	656544	18	A. Tims	Historic	C97-60847.0	4/21/1997	
														68	69.5	656545	17	A. Tims	Historic	C97-60847.0	4/21/1997	

Drill Hole Log



Hole ID: SK97-09

Property: Viper

Hole Status	RELOGGED	Logged By	D. Grabiec	Drill Contractor	Norex Drilling	Grid ID	NAD83_16N	Dip	-45
Drill Date Started	4/7/1997	Log Started	7/1/2016	Core Storage	Magnet	North (m)	5,499,418.50	Azimuth	355
Drill Date Completed	4/9/1997	Log Completed	7/31/2016	Core Size	BQ	East (m)	531,062.20	Survey Type	Header
Claim Number	4261572			Casing	Unknown	Elevation (masl)	326	Max Depth (m)	161

Comments: Hole drilled by Cyprus Canada Inc. in 1997, relogged and resampled in July 2016 primarily by Dan Grabiec. For additional drillhole information see original log.

Lithology			Minerals				Veining			Alteration				Samples								
From	To	Code	From	To	Code	%	From	To	Code	From	To	Code	Int	From	To	SampleID	Au_ppb	Sampled By	Lab	Batch	Date	
														69.5	71	656546	6	A. Tims	Historic	C97-60848.0	4/18/1997	
														71	73.5	656547	8	A. Tims	Historic	C97-60848.0	4/18/1997	
														73.5	74	656548	17	A. Tims	Historic	C97-60848.0	4/18/1997	
														74	76.5	656549	8	A. Tims	Historic	C97-60848.0	4/18/1997	
														76.5	77	656550	20	A. Tims	Historic	C97-60848.0	4/18/1997	
														77	78	656551	9	A. Tims	Historic	C97-60848.0	4/18/1997	
														78	79.03	656552	14	A. Tims	Historic	C97-60848.0	4/18/1997	
79.03	84.43	M3D	79.03	80.5	py	1	79.03	80.5	V3	79.03	84.43	bio	4	79.03	80.5	656553	790	A. Tims	Historic	C97-60848.0	4/18/1997	
			80.5	82	py	1	80.5	84.43	V3					80.5	82	656554	602	A. Tims	Historic	C97-60848.0	4/18/1997	
			82	84.43	AS	0.5								82	83.5	656555	389	A. Tims	Historic	C97-60848.0	4/18/1997	
														83.5	84.43	656556	521	A. Tims	Historic	C97-60848.0	4/18/1997	
84.43	161	E2T	84.43	103.9	py	1	84.43	103.9	V3	84.43	103.9	bio	1	84.43	86	656557	34	A. Tims	Historic	C97-60848.0	4/18/1997	
														86	87.5	656558	37	A. Tims	Historic	C97-60848.0	4/18/1997	
														87.5	89	656559	2.5	A. Tims	Historic	C97-60848.0	4/18/1997	
														89	90.5	656560	2.5	A. Tims	Historic	C97-60848.0	4/18/1997	
														90.5	92	656561	8	A. Tims	Historic	C97-60848.0	4/18/1997	
														92	93.5	656562	10	A. Tims	Historic	C97-60848.0	4/18/1997	
														93.5	95	656563	2.5	A. Tims	Historic	C97-60848.0	4/18/1997	
														95	96.5	656564	2.5	A. Tims	Historic	C97-60848.0	4/18/1997	
														96.5	98	656565	2.5	A. Tims	Historic	C97-60848.0	4/18/1997	
														98	99.5	656566	2.5	A. Tims	Historic	C97-60848.0	4/18/1997	
														99.5	101	656567	2.5	A. Tims	Historic	C97-60848.0	4/18/1997	
														101	102.5	656568	2.5	A. Tims	Historic	C97-60848.0	4/18/1997	
														102.5	104	656569	2.5	A. Tims	Historic	C97-60848.0	4/18/1997	
							103.9	161	V2	103.9	161	bio	2									
														104	105.5	656570	16	A. Tims	Historic	C97-60848.0	4/18/1997	
														105.5	107	656571	10	A. Tims	Historic	C97-60848.0	4/18/1997	
														107	108.5	656572	8	A. Tims	Historic	C97-60848.0	4/18/1997	
														108.5	110	656573	6	A. Tims	Historic	C97-60848.0	4/18/1997	
														110	111.5	656574	200	A. Tims	Historic	C97-60848.0	4/18/1997	
														111.5	113	656575	186	A. Tims	Historic	C97-60848.0	4/18/1997	
														113	114.5	656576	9	A. Tims	Historic	C97-60848.0	4/18/1997	
														114.5	116	656577	2.5	A. Tims	Historic	C97-60848.0	4/18/1997	
														116	117.5	656578	6	A. Tims	Historic	C97-60848.0	4/18/1997	
														117.5	119	656579	13	A. Tims	Historic	C97-60848.0	4/18/1997	
														119	120.5	656580	8	A. Tims	Historic	C97-60848.0	4/18/1997	
														120.5	122	656581	5	A. Tims	Historic	C97-60848.0	4/18/1997	
														122	123.5	656582	11	A. Tims	Historic	C97-60848.0	4/18/1997	
														123.5	125	656583	11	A. Tims	Historic	C97-60848.0	4/18/1997	
														125	126.5	656584	20	A. Tims	Historic	C97-60848.0	4/18/1997	
														126.5	128	656585	2.5	A. Tims	Historic	C97-60848.0	4/18/1997	
														128	129.5	656586	2.5	A. Tims	Historic	C97-60848.0	4/18/1997	
														129.5	131	262069	12	D. Grabiec	Actlabs	A16-06946	8/5/2016	
														131	132.5	262071	7	D. Grabiec	Actlabs	A16-06946	8/5/2016	
														132.5	134	262072	8	D. Grabiec	Actlabs	A16-06946	8/5/2016	
														134	135.5	262073	9	D. Grabiec	Actlabs	A16-06946	8/5/2016	

Drill Hole Log



Hole ID: SK97-09

Property: Viper

Hole Status	RELOGGED	Logged By	D. Grabiec	Drill Contractor	Norex Drilling	Grid ID	NAD83_16N	Dip	-45
Drill Date Started	4/7/1997	Log Started	7/1/2016	Core Storage	Magnet	North (m)	5,499,418.50	Azimuth	355
Drill Date Completed	4/9/1997	Log Completed	7/31/2016	Core Size	BQ	East (m)	531,062.20	Survey Type	Header
Claim Number	4261572			Casing	Unknown	Elevation (masl)	326	Max Depth (m)	161

Comments: Hole drilled by Cyprus Canada Inc. in 1997, relogged and resampled in July 2016 primarily by Dan Grabiec. For additional drillhole information see original log.

Lithology			Minerals				Veining			Alteration				Samples							
From	To	Code	From	To	Code	%	From	To	Code	From	To	Code	Int	From	To	SampleID	Au_ppb	Sampled By	Lab	Batch	Date
														135.5	137	262074	10	D. Grabiec	Actlabs	A16-06946	8/5/2016
														137	138.5	262075	13	D. Grabiec	Actlabs	A16-06946	8/5/2016
														138.5	140	262076	12	D. Grabiec	Actlabs	A16-06946	8/5/2016
														140	141.5	656587	5	A. Tims	Historic	C97-60848.0	4/18/1997
														141.5	143	262077	6	D. Grabiec	Actlabs	A16-06946	8/5/2016
														143	144.5	656588	9	A. Tims	Historic	C97-60848.0	4/18/1997
														144.5	146	262078	79	D. Grabiec	Actlabs	A16-06946	8/5/2016
														146	147.5	262079	5	D. Grabiec	Actlabs	A16-06946	8/5/2016
														147.5	149	262080	2.5	D. Grabiec	Actlabs	A16-06946	8/5/2016
														149	150.5	656589	2.5	A. Tims	Historic	C97-60848.0	4/18/1997
														150.5	152	262082	2.5	D. Grabiec	Actlabs	A16-06946	8/5/2016
														152	153.5	262083	5	D. Grabiec	Actlabs	A16-06946	8/5/2016
														153.5	155	262084	8	D. Grabiec	Actlabs	A16-06946	8/5/2016
														155	156.5	262085	2.5	D. Grabiec	Actlabs	A16-06946	8/5/2016
														156.5	158	262086	5	D. Grabiec	Actlabs	A16-06946	8/5/2016
														158	159	656590	2.5	A. Tims	Historic	C97-60848.0	4/18/1997
														159.55	161	262087	2.5	D. Grabiec	Actlabs	A16-06946	8/5/2016

Drill Hole Log



Hole ID: SK97-10

Property: Viper

Hole Status	RELOGGED	Logged By	D. Grabiec	Drill Contractor	Norex Drilling	Grid ID	NAD83_16N	Dip	-45
Drill Date Started	4/9/1997	Log Started	7/1/2016	Core Storage	Magnet	North (m)	5,499,410.40	Azimuth	355
Drill Date Completed	4/10/1997	Log Completed	7/31/2016	Core Size	BQ	East (m)	530,893.20	Survey Type	Header
Claim Number	4261572			Casing	Unknown	Elevation (masl)	323.00	Max Depth (m)	134

Comments: Hole drilled by Cyprus Canada Inc. in 1997, relogged and resampled in July 2016 primarily by Dan Grabiec. For additional drillhole information see original log.

Lithology			Minerals				Veining			Alteration				Samples								
From	To	Code	From	To	Code	%	From	To	Code	From	To	Code	Int	From	To	SampleID	Au_ppb	Sampled By	Lab	Batch	Date	
0	4.1	OB																				
4.1	16.9	M3H					4.1	15.5	V2	4.1	10.5	CHL	1	4.1	5.5	656591	2.5	A. Tims	Historic	C97-60859.0	4/23/1997	
														5.5	7	262413	28	D. Grabiec	Actlabs	A16-07193	8/10/2016	
														7	8.5	262414	2.5	D. Grabiec	Actlabs	A16-07193	8/10/2016	
														8.5	10	262415	2.5	D. Grabiec	Actlabs	A16-07193	8/10/2016	
														10	11.5	262416	2.5	D. Grabiec	Actlabs	A16-07193	8/10/2016	
										10.5	10.8	CHL	2									
										10.8	46	CHL	1									
			11.2	11.5	PY	0.2																
														11.5	12.5	262417	6	D. Grabiec	Actlabs	A16-07193	8/10/2016	
														12.5	14.06	656592	5	A. Tims	Historic	C97-60859.0	4/23/1997	
														14.06	15.5	656593	7	A. Tims	Historic	C97-60859.0	4/23/1997	
							15.5	24.5	V3					15.5	17	656594	7	A. Tims	Historic	C97-60859.0	4/23/1997	
16.9	20.16	I3R																				
														17	18.5	656595	21	A. Tims	Historic	C97-60859.0	4/23/1997	
														18.5	20	656596	113	A. Tims	Historic	C97-60859.0	4/23/1997	
			19.5	20.2	PY	0.5																
														20	21.5	656597	337	A. Tims	Historic	C97-60859.0	4/23/1997	
20.16	84.5	M3H																				
														21.5	23	656598	42	A. Tims	Historic	C97-60859.0	4/23/1997	
														23	24.5	656599	88	A. Tims	Historic	C97-60859.0	4/23/1997	
							24.5	28.5	V2					24.5	26	656600	28	A. Tims	Historic	C97-60859.0	4/23/1997	
														26	27.5	656601	28	A. Tims	Historic	C97-60859.0	4/23/1997	
														27.5	29	656602	27	A. Tims	Historic	C97-60859.0	4/23/1997	
							28.5	29.8	V3					29	30.5	656603	98	A. Tims	Historic	C97-60859.0	4/23/1997	
			29	29.7	AS	2																
							29.8	52.5	V3													
														30.5	32	656604	142	A. Tims	Historic	C97-60859.0	4/23/1997	
														32	33.5	656605	29	A. Tims	Historic	C97-60859.0	4/23/1997	
			32.73	46.4	PY	0.1																
														33.5	35	656606	321	A. Tims	Historic	C97-60859.0	4/23/1997	
														35	36.5	656607	15	A. Tims	Historic	C97-60859.0	4/23/1997	
														36.5	38	656608	6	A. Tims	Historic	C97-60859.0	4/23/1997	
														38	39.5	656609	14	A. Tims	Historic	C97-60859.0	4/23/1997	
														39.5	41	656610	12	A. Tims	Historic	C97-60859.0	4/23/1997	
														41	42.5	656611	23	A. Tims	Historic	C97-60859.0	4/23/1997	
														42.5	44	656612	40	A. Tims	Historic	C97-60859.0	4/23/1997	
														44	45.4	656613	6	A. Tims	Historic	C97-60859.0	4/23/1997	
														45.5	47	656614	45	A. Tims	Historic	C97-60859.0	4/23/1997	
							46	61	CHL	1												
			46.4	46.7	PO	0.2																
			46.7	48	PY	0.1																
														47	48.5	656615	27	A. Tims	Historic	C97-60859.0	4/23/1997	
														48.5	50	656616	22	A. Tims	Historic	C97-60859.0	4/23/1997	
														50	51.5	656617	18	A. Tims	Historic	C97-60859.0	4/23/1997	

Drill Hole Log



Hole ID: SK97-10

Property: Viper

Hole Status	RELOGGED	Logged By	D. Grabiec	Drill Contractor	Norex Drilling	Grid ID	NAD83_16N	Dip	-45
Drill Date Started	4/9/1997	Log Started	7/1/2016	Core Storage	Magnet	North (m)	5,499,410.40	Azimuth	355
Drill Date Completed	4/10/1997	Log Completed	7/31/2016	Core Size	BQ	East (m)	530,893.20	Survey Type	Header
Claim Number	4261572			Casing	Unknown	Elevation (masl)	323.00	Max Depth (m)	134

Comments: Hole drilled by Cyprus Canada Inc. in 1997, relogged and resampled in July 2016 primarily by Dan Grabiec. For additional drillhole information see original log.

Lithology			Minerals				Veining			Alteration				Samples							
From	To	Code	From	To	Code	%	From	To	Code	From	To	Code	Int	From	To	SampleID	Au_ppb	Sampled By	Lab	Batch	Date
														51.5	53	656618	39	A. Tims	Historic	C97-60859.0	4/23/1997
							52.5	66.3	V3												
			53	56.89	PY	0.1								53	54.5	656619	17	A. Tims	Historic	C97-60859.0	4/23/1997
														54.5	56	656620	25	A. Tims	Historic	C97-60859.0	4/23/1997
														56	57.5	656621	31	A. Tims	Historic	C97-60859.0	4/23/1997
														57.5	59	656622	29	A. Tims	Historic	C97-60859.0	4/23/1997
														59	60.05	656623	2.5	A. Tims	Historic	C97-60859.0	4/23/1997
														60.05	62	656624	99	A. Tims	Historic	C97-60859.0	4/23/1997
										61	84.5	CHL	1								
			62	62.5	PY	0.1								62	63.5	656625	119	A. Tims	Historic	C97-60859.0	4/23/1997
														63.5	65	656626	22	A. Tims	Historic	C97-60859.0	4/23/1997
														65	66.5	656627	8	A. Tims	Historic	C97-60859.0	4/23/1997
							66.3	84.5	V2												
														66.5	68	656628	28	A. Tims	Historic	C97-60859.0	4/23/1997
														68	69.5	656629	81	A. Tims	Historic	C97-60859.0	4/23/1997
														69.5	71	656630	10	A. Tims	Historic	C97-60859.0	4/23/1997
														71	72.5	656631	57	A. Tims	Historic	C97-60859.0	4/23/1997
														72.5	74	656632	18	A. Tims	Historic	C97-60860.0	4/24/1997
														74	75.5	656633	23	A. Tims	Historic	C97-60860.0	4/24/1997
			74.8	76.7	PY	0.3															
														75.5	77	656634	75	A. Tims	Historic	C97-60860.0	4/24/1997
														77	78.5	656635	10	A. Tims	Historic	C97-60860.0	4/24/1997
														78.5	80	656636	23	A. Tims	Historic	C97-60860.0	4/24/1997
														80	81.5	656637	18	A. Tims	Historic	C97-60860.0	4/24/1997
														81.5	83	656638	131	A. Tims	Historic	C97-60860.0	4/24/1997
														83	84.5	656639	23	A. Tims	Historic	C97-60860.0	4/24/1997
			83.2	83.4	PO	0.2															
84.5	112.93	LC												84.5	86	656640	40	A. Tims	Historic	C97-60860.0	4/24/1997
														86	87.05	656641	35	A. Tims	Historic	C97-60860.0	4/24/1997
														87.05	88.5	656642	1710	A. Tims	Historic	C97-60860.0	4/24/1997
														88.5	90.5	656643	2190	A. Tims	Historic	C97-60860.0	4/24/1997
														90.5	92	656644	2500	A. Tims	Historic	C97-60860.0	4/24/1997
														92	93.5	656645	977	A. Tims	Historic	C97-60860.0	4/24/1997
														93.5	95	656646	360	A. Tims	Historic	C97-60860.0	4/24/1997
														95	96.5	656647	119	A. Tims	Historic	C97-60860.0	4/24/1997
														96.5	98	656648	50	A. Tims	Historic	C97-60860.0	4/24/1997
														98	99.5	656649	90	A. Tims	Historic	C97-60860.0	4/24/1997
														99.5	101	656650	71	A. Tims	Historic	C97-60860.0	4/24/1997
														101	102.5	656651	45	A. Tims	Historic	C97-60860.0	4/24/1997
														102.5	104	656652	199	A. Tims	Historic	C97-60860.0	4/24/1997
														104	107	656653	174	A. Tims	Historic	C97-60860.0	4/24/1997
														107	110	656654	12	A. Tims	Historic	C97-60860.0	4/24/1997
														110	111.5	656655	307	A. Tims	Historic	C97-60860.0	4/24/1997
														111.5	112.93	656656	207	A. Tims	Historic	C97-60860.0	4/24/1997
112.93	134	E2T					112.93	134	V2	112.93	131	CHL	2	112.93	114.5	656657	17	A. Tims	Historic	C97-60860.0	4/24/1997

Drill Hole Log



Hole ID: SK97-10

Property: Viper

Hole Status	RELOGGED	Logged By	D. Grabiec	Drill Contractor	Norex Drilling	Grid ID	NAD83_16N	Dip	-45
Drill Date Started	4/9/1997	Log Started	7/1/2016	Core Storage	Magnet	North (m)	5,499,410.40	Azimuth	355
Drill Date Completed	4/10/1997	Log Completed	7/31/2016	Core Size	BQ	East (m)	530,893.20	Survey Type	Header
Claim Number	4261572			Casing	Unknown	Elevation (masl)	323.00	Max Depth (m)	134

Comments: Hole drilled by Cyprus Canada Inc. in 1997, relogged and resampled in July 2016 primarily by Dan Grabiec. For additional drillhole information see original log.

Lithology			Minerals				Veining			Alteration				Samples							
From	To	Code	From	To	Code	%	From	To	Code	From	To	Code	Int	From	To	SampleID	Au_ppb	Sampled By	Lab	Batch	Date
														114.5	116	656658	12	A. Tims	Historic	C97-60860.0	4/24/1997
														116	117.5	656659	21	A. Tims	Historic	C97-60860.0	4/24/1997
														117.5	119	656660	15	A. Tims	Historic	C97-60860.0	4/24/1997
														119	120.5	656661	8	A. Tims	Historic	C97-60860.0	4/24/1997
														120.5	122	656662	11	A. Tims	Historic	C97-60860.0	4/24/1997
														122	123.5	656663	2.5	A. Tims	Historic	C97-60860.0	4/24/1997
														123.5	125	656664	2.5	A. Tims	Historic	C97-60860.0	4/24/1997
														125	126.5	656665	8	A. Tims	Historic	C97-60860.0	4/24/1997
														126.5	128	656666	9	A. Tims	Historic	C97-60860.0	4/24/1997
														128	129.5	656667	5	A. Tims	Historic	C97-60860.0	4/24/1997
														129.5	131	656668	2.5	A. Tims	Historic	C97-60860.0	4/24/1997
			131	132.5	PY	0.1				131	134	CHL	2	131	132.5	262418	7	D. Grabiec	Actlabs	A16-07193	8/10/2016
														132.5	134	262419	2.5	D. Grabiec	Actlabs	A16-07193	8/10/2016

Drill Hole Log



Hole ID: SK97-11

Property: Viper

Hole Status	RELOGGED	Logged By	D. Grabiec	Drill Contractor	Norex Drilling	Grid ID	NAD83_16N	Dip	-45
Drill Date Started	4/11/1997	Log Started	7/1/2016	Core Storage	Magnet	North (m)	5,499,390.80	Azimuth	355
Drill Date Completed	4/12/1997	Log Completed	7/31/2016	Core Size	BQ	East (m)	530,149.40	Survey Type	Header
Claim Number	4274598			Casing	Pulled	Elevation (masl)	326	Max Depth (m)	200

Comments: Hole drilled by Cyprus Canada Inc. in 1997, relogged and resampled in July 2016 primarily by Dan Grabiec. For additional drillhole information see original log.

Lithology			Minerals				Veining			Alteration				Samples								
From	To	Code	From	To	Code	%	From	To	Code	From	To	Code	Int	From	To	SampleID	Au_ppb	Sampled By	Lab	Batch	Date	
0	3.6	OB																				
3.6	9.21	LC																				
9.21	27.8	M3H					9.21	27.8	V3	9.21	27.8	BIO	4	9.21	9.9	262001	18	D. Grabiec	Actlabs	A16-07773	8/31/2016	
														9.9	11	262002	25	D. Grabiec	Actlabs	A16-07773	8/31/2016	
														11	12.5	656670	442	A. Tims	Historic	C97-60894.0	4/24/1997	
														12.5	14	262003	63	D. Grabiec	Actlabs	A16-07773	8/31/2016	
														14	15	262005	10	D. Grabiec	Actlabs	A16-07773	8/31/2016	
														15	16.5	262006	11	D. Grabiec	Actlabs	A16-07773	8/31/2016	
														16.5	18	262007	2.5	D. Grabiec	Actlabs	A16-07773	8/31/2016	
														18	19.5	262008	5	D. Grabiec	Actlabs	A16-07773	8/31/2016	
														19.5	21	262009	2.5	D. Grabiec	Actlabs	A16-07773	8/31/2016	
														21	22.5	262010	2.5	D. Grabiec	Actlabs	A16-07773	8/31/2016	
														22.5	24	656671	10	A. Tims	Historic	C97-60894.0	4/24/1997	
			24	25.5	PY	0.1								24	25.5	262011	2.5	D. Grabiec	Actlabs	A16-07773	8/31/2016	
														25.5	28.8	262012	2.5	D. Grabiec	Actlabs	A16-07773	8/31/2016	
27.8	32.74	LC																				
32.74	68.26	M3H					32.74	50	v3	32.74	68.26	BIO	4	32.74	33.5	262013	7	D. Grabiec	Actlabs	A16-07774	8/23/2016	
														33.5	35	656672	2.5	A. Tims	Historic	C97-60894.0	4/24/1997	
														35	36.5	656673	13	A. Tims	Historic	C97-60894.0	4/24/1997	
			36.5	69.87	py	0.1								36.5	38	656674	15	A. Tims	Historic	C97-60894.0	4/24/1997	
														38	39.5	656675	12	A. Tims	Historic	C97-60894.0	4/24/1997	
														39.5	41	656676	21	A. Tims	Historic	C97-60894.0	4/24/1997	
														41	42.5	656677	8	A. Tims	Historic	C97-60894.0	4/24/1997	
														42.5	44	656678	85	A. Tims	Historic	C97-60894.0	4/24/1997	
														44	45.5	656679	79	A. Tims	Historic	C97-60894.0	4/24/1997	
														45.5	47	656680	113	A. Tims	Historic	C97-60894.0	4/24/1997	
														47	48.5	656681	11	A. Tims	Historic	C97-60894.0	4/24/1997	
														48.5	50	656682	23	A. Tims	Historic	C97-60894.0	4/24/1997	
							50	62	V3					50	51.5	656683	7	A. Tims	Historic	C97-60894.0	4/24/1997	
														51.5	53	656684	14	A. Tims	Historic	C97-60894.0	4/24/1997	
														53	54.5	656685	6	A. Tims	Historic	C97-60894.0	4/24/1997	
														54.5	56	656686	2.5	A. Tims	Historic	C97-60894.0	4/24/1997	
														56	57.5	656687	2.5	A. Tims	Historic	C97-60894.0	4/24/1997	
														57.5	59	656688	8	A. Tims	Historic	C97-60894.0	4/24/1997	
														59	60.5	656689	7	A. Tims	Historic	C97-60894.0	4/24/1997	
														60.5	62	656690	6	A. Tims	Historic	C97-60894.0	4/24/1997	
							62	69.68	V3					62	63.5	656691	2.5	A. Tims	Historic	C97-60894.0	4/24/1997	
														63.5	65	656692	2.5	A. Tims	Historic	C97-60894.0	4/24/1997	
														65	66	656693	9	A. Tims	Historic	C97-60894.0	4/24/1997	
														66	67.5	656694	184	A. Tims	Historic	C97-60894.0	4/24/1997	
														67.5	68.26	656695	19	A. Tims	Historic	C97-60894.0	4/24/1997	
68.26	90.5	M3L					68.26	96	bio	68.26	96	bio	2	68.26	69.5	656696	26	A. Tims	Historic	C97-60894.0	4/24/1997	
							69.68	96	V3													
														69.87	70.85	262014	41	D. Grabiec	Actlabs	A16-07774	8/23/2016	

Drill Hole Log



Hole ID: SK97-11

Property: Viper

Hole Status	RELOGGED	Logged By	D. Grabiec	Drill Contractor	Norex Drilling	Grid ID	NAD83_16N	Dip	-45
Drill Date Started	4/11/1997	Log Started	7/1/2016	Core Storage	Magnet	North (m)	5,499,390.80	Azimuth	355
Drill Date Completed	4/12/1997	Log Completed	7/31/2016	Core Size	BQ	East (m)	530,149.40	Survey Type	Header
Claim Number	4274598			Casing	Pulled	Elevation (masl)	326	Max Depth (m)	200

Comments: Hole drilled by Cyprus Canada Inc. in 1997, relogged and resampled in July 2016 primarily by Dan Grabiec. For additional drillhole information see original log.

Lithology			Minerals				Veining			Alteration				Samples								
From	To	Code	From	To	Code	%	From	To	Code	From	To	Code	Int	From	To	SampleID	Au_ppb	Sampled By	Lab	Batch	Date	
														70.85	72	262015	87	D. Grabiec	Actlabs	A16-07774	8/23/2016	
														72	73.5	262017	11	D. Grabiec	Actlabs	A16-07774	8/23/2016	
														73.5	75	262018	7	D. Grabiec	Actlabs	A16-07774	8/23/2016	
														75	76.5	262019	15	D. Grabiec	Actlabs	A16-07774	8/23/2016	
														76.5	78	262020	102	D. Grabiec	Actlabs	A16-07774	8/23/2016	
														78	79.5	262021	9	D. Grabiec	Actlabs	A16-07774	8/23/2016	
														79.5	81	262022	10	D. Grabiec	Actlabs	A16-07774	8/23/2016	
														81	82.21	262023	91	D. Grabiec	Actlabs	A16-07774	8/23/2016	
														82.21	84.5	656697	61	A. Tims	Historic	C97-60894.0	4/24/1997	
														84.5	86	656698	368	A. Tims	Historic	C97-60894.0	4/24/1997	
														86	87.5	262024	179	D. Grabiec	Actlabs	A16-07774	8/23/2016	
														87.5	89	262025	612	D. Grabiec	Actlabs	A16-07774	8/23/2016	
														89	90.5	262026	33	D. Grabiec	Actlabs	A16-07774	8/23/2016	
90.5	198.2	M3H												90.5	92	262028	29	D. Grabiec	Actlabs	A16-07774	8/23/2016	
														92	93.5	262029	76	D. Grabiec	Actlabs	A16-07774	8/23/2016	
														93.5	95	262030	29	D. Grabiec	Actlabs	A16-07774	8/23/2016	
														95	96	262031	266	D. Grabiec	Actlabs	A16-07774	8/23/2016	
			96	104.32	py	0.2	96	104.32	V3	96	104.32	bio	1	96	97.5	656699	202	A. Tims	Historic	C97-60894.0	4/24/1997	
														97.5	99	656700	687	A. Tims	Historic	C97-60894.0	4/24/1997	
														99	100.5	656701	174	A. Tims	Historic	C97-60894.0	4/24/1997	
														100.5	102	656702	32	A. Tims	Historic	C97-60894.0	4/24/1997	
														102	103.5	656703	20	A. Tims	Historic	C97-60894.0	4/24/1997	
							104.32	125	V3	104.32	125	bio	1	104.32	105.5	262032	24	D. Grabiec	Actlabs	A16-07774	8/23/2016	
														105.5	107	262033	19	D. Grabiec	Actlabs	A16-07774	8/23/2016	
														107	108.5	262034	24	D. Grabiec	Actlabs	A16-07774	8/23/2016	
														108.5	110	262035	15	D. Grabiec	Actlabs	A16-07774	8/23/2016	
														110	111.5	262036	35	D. Grabiec	Actlabs	A16-07774	8/23/2016	
														111.5	113	262037	11	D. Grabiec	Actlabs	A16-07774	8/23/2016	
														113	114	262039	18	D. Grabiec	Actlabs	A16-07774	8/23/2016	
														114	115	262040	125	D. Grabiec	Actlabs	A16-07774	8/23/2016	
														115	116.5	262041	11	D. Grabiec	Actlabs	A16-07774	8/23/2016	
														116.5	118	262042	82	D. Grabiec	Actlabs	A16-07774	8/23/2016	
														118	119.5	262043	28	D. Grabiec	Actlabs	A16-07774	8/23/2016	
														119.5	121	262044	24	D. Grabiec	Actlabs	A16-07774	8/23/2016	
														121	122.5	262045	39	D. Grabiec	Actlabs	A16-07774	8/23/2016	
														122.5	124	262046	13	D. Grabiec	Actlabs	A16-07774	8/23/2016	
														124	125	262047	25	D. Grabiec	Actlabs	A16-07884	8/29/2016	
							125	131.5	V3	125	166.61	bio	1	125	126.5	656704	8	A. Tims	Historic	C97-60894.0	4/24/1997	
														126.5	128	656705	12	A. Tims	Historic	C97-60894.0	4/24/1997	
			128	129.5	py	0.2								128	129.5	656706	51	A. Tims	Historic	C97-60894.0	4/24/1997	
			129.5	149	py	0.1								129.5	131	656707	11	A. Tims	Historic	C97-60894.0	4/24/1997	
														131	132.5	656708	12	A. Tims	Historic	C97-60894.0	4/24/1997	
							131.5	149	V3													
														132.5	134	656709	47	A. Tims	Historic	C97-60895.0	4/24/1997	
														134	135.5	656710	489	A. Tims	Historic	C97-60895.0	4/24/1997	

Drill Hole Log



Hole ID: SK97-11

Property: Viper

Hole Status	RELOGGED	Logged By	D. Grabiec	Drill Contractor	Norex Drilling	Grid ID	NAD83_16N	Dip	-45
Drill Date Started	4/11/1997	Log Started	7/1/2016	Core Storage	Magnet	North (m)	5,499,390.80	Azimuth	355
Drill Date Completed	4/12/1997	Log Completed	7/31/2016	Core Size	BQ	East (m)	530,149.40	Survey Type	Header
Claim Number	4274598			Casing	Pulled	Elevation (masl)	326	Max Depth (m)	200

Comments: Hole drilled by Cyprus Canada Inc. in 1997, relogged and resampled in July 2016 primarily by Dan Grabiec. For additional drillhole information see original log.

Lithology			Minerals				Veining			Alteration				Samples									
From	To	Code	From	To	Code	%	From	To	Code	From	To	Code	Int	From	To	SampleID	Au_ppb	Sampled By	Lab	Batch	Date		
																135.5	137	656711	29	A. Tims	Historic	C97-60895.0	4/24/1997
																137	138.5	656712	28	A. Tims	Historic	C97-60895.0	4/24/1997
																138.5	140	656713	24	A. Tims	Historic	C97-60895.0	4/24/1997
																140	141.5	656714	14	A. Tims	Historic	C97-60895.0	4/24/1997
																141.5	143	656715	10	A. Tims	Historic	C97-60895.0	4/24/1997
																143	144.5	656716	2.5	A. Tims	Historic	C97-60895.0	4/24/1997
																144.5	146	656717	16	A. Tims	Historic	C97-60895.0	4/24/1997
																146	147.5	656718	46	A. Tims	Historic	C97-60895.0	4/24/1997
																147.5	149	656719	7	A. Tims	Historic	C97-60895.0	4/24/1997
			149	150.5	as	0.1	149	198.2	V3							149	150.5	656720	575	A. Tims	Historic	C97-60895.0	4/24/1997
			150.5	166.61	py	0.1										150.5	152	656721	2.5	A. Tims	Historic	C97-60895.0	4/24/1997
																152	153.5	656722	72	A. Tims	Historic	C97-60895.0	4/24/1997
																153.5	155	656723	2.5	A. Tims	Historic	C97-60895.0	4/24/1997
																155	156.5	656724	8	A. Tims	Historic	C97-60895.0	4/24/1997
																156.5	158	656725	6	A. Tims	Historic	C97-60895.0	4/24/1997
																158	159.5	656726	6	A. Tims	Historic	C97-60895.0	4/24/1997
																159.7	160.6	262048	6	D. Grabiec	Actlabs	A16-07884	8/29/2016
																160.6	162	262049	26	D. Grabiec	Actlabs	A16-07884	8/29/2016
																162	163.5	262051	6	D. Grabiec	Actlabs	A16-07884	8/29/2016
																163.5	165.1	262052	6	D. Grabiec	Actlabs	A16-07884	8/29/2016
																165.1	166.61	262053	12	D. Grabiec	Actlabs	A16-07884	8/29/2016
			166.61	167	py	0.2				166.61	198.2	bio	2			166.61	167.5	262054	5	D. Grabiec	Actlabs	A16-07884	8/29/2016
			167	177.5																			
																167.5	168.5	262055	2.5	D. Grabiec	Actlabs	A16-07884	8/29/2016
																168.5	170	262056	7	D. Grabiec	Actlabs	A16-07884	8/29/2016
																170	171.5	262057	6	D. Grabiec	Actlabs	A16-07884	8/29/2016
																171.5	173	656727	5	A. Tims	Historic	C97-60895.0	4/24/1997
																173	174.5	656728	33	A. Tims	Historic	C97-60895.0	4/24/1997
																174.5	176	656729	15	A. Tims	Historic	C97-60895.0	4/24/1997
																176	177.5	656730	15	A. Tims	Historic	C97-60895.0	4/24/1997
			177.5	179	as	2										177.5	179	656731	22	A. Tims	Historic	C97-60895.0	4/24/1997
			179	198.2	py	0.1										179	180.5	656732	6	A. Tims	Historic	C97-60895.0	4/24/1997
																180.5	182	656733	8	A. Tims	Historic	C97-60895.0	4/24/1997
																182	183.5	656734	41	A. Tims	Historic	C97-60895.0	4/24/1997
																183.5	185	656735	11	A. Tims	Historic	C97-60895.0	4/24/1997
																185	186.5	656736	11	A. Tims	Historic	C97-60895.0	4/24/1997
																186.5	188	656737	13	A. Tims	Historic	C97-60895.0	4/24/1997
																188	189.5	656738	7	A. Tims	Historic	C97-60895.0	4/24/1997
																189.5	190.5	262059	10	D. Grabiec	Actlabs	A16-07884	8/29/2016
																190.5	191.5	262060	13	D. Grabiec	Actlabs	A16-07884	8/29/2016
																191.5	192.5	262061	21	D. Grabiec	Actlabs	A16-07884	8/29/2016
																192.5	193.7	262062	14	D. Grabiec	Actlabs	A16-07884	8/29/2016
																193.7	195	262063	25	D. Grabiec	Actlabs	A16-07884	8/29/2016
																195	196	262064	21	D. Grabiec	Actlabs	A16-07884	8/29/2016
																196	197.5	262065	19	D. Grabiec	Actlabs	A16-07884	8/29/2016

Drill Hole Log



Hole ID: SK97-11

Property: Viper

Hole Status	RELOGGED	Logged By	D. Grabiec	Drill Contractor	Norex Drilling	Grid ID	NAD83_16N	Dip	-45
Drill Date Started	4/11/1997	Log Started	7/1/2016	Core Storage	Magnet	North (m)	5,499,390.80	Azimuth	355
Drill Date Completed	4/12/1997	Log Completed	7/31/2016	Core Size	BQ	East (m)	530,149.40	Survey Type	Header
Claim Number	4274598			Casing	Pulled	Elevation (masl)	326	Max Depth (m)	200

Comments: Hole drilled by Cyprus Canada Inc. in 1997, relogged and resampled in July 2016 primarily by Dan Grabiec. For additional drillhole information see original log.

Lithology			Minerals				Veining			Alteration				Samples							
From	To	Code	From	To	Code	%	From	To	Code	From	To	Code	Int	From	To	SampleID	Au_ppb	Sampled By	Lab	Batch	Date
														197.5	198.2	262066	23	D. Grabiec	Actlabs	A16-07884	8/29/2016
198.2	200	E2T					198.2	200	V1	198.2	200	BIO	1	198.2	198.9	262067	22	D. Grabiec	Actlabs	A16-07884	8/29/2016
														198.9	200	262068	14	D. Grabiec	Actlabs	A16-07884	8/29/2016

Drill Hole Lithology Legend

SEDIMENTARY ROCKS

Code	Description
C	<u>Chemical Sediments</u>
C1	Chert
C2	Iron formation
C2A	Iron formation - Oxide facies
C2B	Iron formation - Sulphide facies
C2C	Iron formation - Carbonate facies
C2D	Iron formation - Silicate facies
S	<u>Clastic Sediments</u>
S1	Mudstone
S1A	Argillite
S1B	Cherty argillite
S2	Siltstone
S2A	Wacke siltstone
S3	Sandstones
S3E	Greywacke
S3F	Quartzite
S3G	Arkose
S4	Conglomerate
S4A	Monomictic Conglomerate
S4B	Polymictic Conglomerate

IGNEOUS ROCKS

Code	Description
E	<u>Extrusive Rocks</u>
E0	Ultramafic
E0A	Peridotitic komatiite
E0B	Komatiite / Komatiitic basalt
E1	Mafic
E1A	Basalt
E1T	Tuff
E1T1	Crystal tuff
E1T2	Quartz-crystal tuff
E1T3	Feldspar-crystal tuff
E1T4	Lapilli tuff
E1T5	Fragmental tuff - tuff breccia
E1X	Volcanic breccia
E1X1	Flow top breccia
E1X2	Pyroclastic breccia
E2	Intermediate
E2A	Andesite
E2S	Volcanisclastic sediments
E2T	Tuff
E2T1	Crystal tuff
E2T2	Quartz-crystal tuff
E2T3	Feldspar-crystal tuff
E2T4	Lapilli tuff
E2T5	Fragmental tuff - tuff breccia
E2X	Volcanic breccia
E2X1	Flow top breccia
E2X2	Pyroclastic breccia

Code	Description
E3	Felsic
E3A	Rhyolite
E3T	Tuff
E3T1	Crystal tuff
E3T2	Quartz-crystal tuff
E3T3	Feldspar-crystal tuff
E3T4	Lapilli tuff
E3T5	Fragmental tuff - tuff breccia
E3X	Volcanic breccia
E3X1	Flow top breccia
E3X2	Pyroclastic breccia
I	<u>Intrusive Rocks</u>
I0	Ultramafic
I0D	Serpentinite
I0E	Lamprophyre
I1	Mafic
I1A	Gabbro
I1B	Diabase
I1C	Mafic Dyke
I2	Intermediate
I2A	Diorite
I2B	Quartz diorite
I3	Felsic
I3D	Granodiorite
I3P	Porphyry
I3Q	Quartz porphyry
I3R	Quartz-feldspar porphyry
I3S	Feldspar porphyry

METAMORPHIC ROCKS

Code	Description
M	<u>Metamorphic Rocks</u>
M0	Marble
M3	Schist
M3A	Talc / chlorite schist
M3B	Quartz-sericite schist
M3C	Sericite schist
M3D	Biotite schist
M3E	Quartz-sericite-biotite schist
M3F	Biotite-amphibole-garnet schist
M3G	Chlorite-amphibole schist
M3H	Quartz-feldspar-biotite schist
M3I	Quartz-feldspar schist
M3J	Quartz-chlorite schist
M3K	Amphibole-quartz-chlorite schist
M3L	Quartz-feldspar-sericite schist
M3M	Chlorite Schist

Drill Hole Lithology Legend

<i>Code</i>	<i>Description</i>
V	<u>VEINING</u>
V1	Carbonate vein
V1M	Carbonate / magnetite
V1Q	Carbonate / quartz (barren)
V1R	Carbonate / silicified - sulphide replaced
V1S	Carbonate / sulphides
V2	Quartz-carbonate
V2M	Quartz-carbonate / magnetite
V2R	Quartz-carbonate / silicified - sulphide replaced
V2S	Quartz-carbonate / sulphides
V3	Quartz vein
V3M	Quartz / magnetite
V3R	Quartz / silicified - sulphide replaced
V3S	Quartz / sulphides
V3T	Quartz / tourmaline
V4	Magnetite vein
V4C	Magnetite / carbonate
V4Q	Magnetite / quartz
V4R	Magnetite / silicified - sulphide replaced
V4S	Magnetite / sulphides
V5	Sulphides vein
V5C	Sulphide / carbonate
V5M	Sulphide / magnetite
V5Q	Sulphide / quartz
V5R	Sulphide / silicified - sulphide replaced

<i>Code</i>	<i>Description</i>
R	<u>HOST ROCK REPLACEMENT</u>
R4	Host rock replacement / magnetite
R4A	with arsenopyrite
R4S	with sulphides
R5	Host rock replacement / sulphides
R5C	with carbonate vein
R5M	with magnetite
R5A	with arsenopyrite replacement
R5Q	with quartz
R6	Host rock replacement / arsenopyrite-silica
R6C	with carbonate vein
R6M	with magnetite
R6S	with sulphides
R6Q	with quartz
	<u>MISCELLANEOUS</u>
LC	Lost core
BT	Break Through
VD	Voids
OB	Overburden
OT	Other
WA	Water
FLT	Fault
SHZ	Shear Zone
MZN	Mineralized Zone

1997 Drill Logs

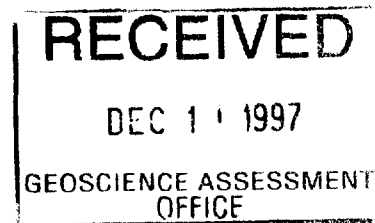


42E09NW0011 2.17985 MCBEAN LAKE

010

CYPRUS CANADA INC.
DIAMOND DRILL PROGRAM REPORT
SKINNER PROPERTY
GERALDTON, ONTARIO
NTS 42E/10

2 .17985



Andrew Tims
David B. Stevenson, P. Geo

MAY 30, 1997
South Porcupine, Ontario

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FIGURES

Figure 1	Skinner Property Location Map
Figure 2	Skinner Property Claim Map

TABLES

Table 1	Skinner Property Claims List
Table 2	Diamond Drill Program Details
Table 3	Statement of Exploration Expenditures



42E09NW0011 2.17985 MCBEAN LAKE

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MAPS

Map 1	DDH Location Map (1:20 000)
Map 2	Section 2600W, SK97-01 (1:500)
Map 3	Section 2600W, SK97-02 (1:500)
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Map 1	Section 2600W, SK97-04 (1:500)
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Map 4	Section 1300E, SK97-07 (1:500)
Map 1	Section 1300E, SK97-08 (1:500)
Map 2	Section 2500W, SK97-09 (1:500)
Map 3	Section 2675W, SK97-10 (1:500)
Map 4	Section 3400W, SK97-11 (1:500)

INTRODUCTION

This report presents and summarizes the results of an eleven hole, 1,851 metre BQ diamond drill program conducted by Cyprus Canada Inc. (CCI) on the Skinner property located near Geraldton, Ontario (Figure 1).

The drill program was conducted between March 10th and April 12th, 1997. Prior to the drill program, an IP-mag-VLF survey was conducted over the grid. Drill targets were developed from the survey data and recent geological mapping completed by the provincial government.

D.B. Stevenson managed the program with field supervision by A. Tims.

LOCATION AND ACCESS

The Skinner property is located in Abrey township and McBean Lake area, approximately 20 kilometre's east of Geraldton and 8 kilometres south of Longlac, in the Thunder Bay mining district. The property is positioned on the 42E/10 NTS map with the northern boundary adjoining the southern boundary of the Ginoogaming First Nation reserve.

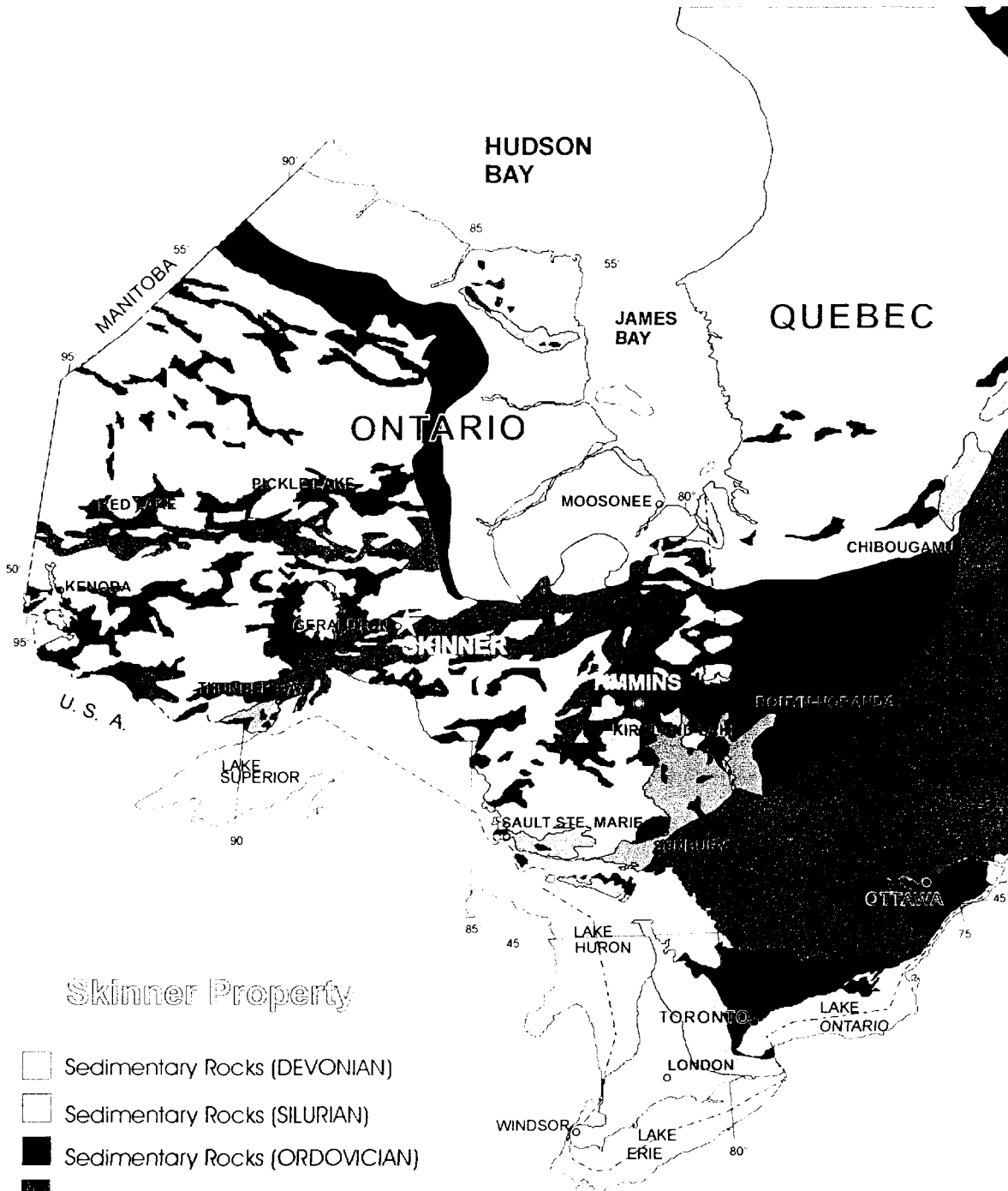
Primary access is provided by Kimberly-Clark's (KC) logging road that traverses the eastern half of the property in a NS direction. Numerous secondary roads and skidder trails provide additional access. An existing skidder road that connects the KC haulage road at Mile 82 provided winter drill access.

CLAIMS AND OWNERSHIP

The Skinner property is 100% owned by CCI and consists of 28 unpatent claims, comprising approximately 5,872 hectares, in 364 claim units (Figure 2). A list of the claims is found in Table 1.

Table 1
Skinner Property Claims List

Claim Number	Units	Due Date
McBean lake Area.		
1212971	16	June 4, 1998
1212972	16	June 4, 1998
1212973	15	June 4, 1998
1212974	14	June 4, 1998
1212975	15	June 4, 1998
1212976	16	June 4, 1998
1212977	12	June 4, 1998
1212978	15	June 4, 1998
1212979	12	June 4, 1998
1212980	15	June 4, 1998
1212981	14	June 4, 1998
1212982	13	June 4, 1998
1212983	14	June 4, 1998
1212984	14	June 4, 1998
1212985	9	June 4, 1998
1215973	4	May 7, 1999




Skinner Property

-  Sedimentary Rocks (DEVONIAN)
-  Sedimentary Rocks (SILURIAN)
-  Sedimentary Rocks (ORDOVICIAN)
-  Metasedimentary Rocks
-  Huronian Sedimentary Rocks
-  Mafic Intrusives Rocks
-  Felsic Intrusives Rocks
-  Mafic Volcanic Rocks

200Km

SK-ONTGL.CDR

 Cyprus Canada Inc. A Cyprus Amax Company
GERALDTON - SKINNER PROPERTY GEOLOGY OF ONTARIO AND WESTERN QUEBEC
FIGURE 1 42E/10,11

1215974	4	May 7, 1999
1215975	4	May 7, 1999
1215980	15	April 29, 1999
1215983	15	April 29, 1999
1215987	15	April 29, 1999
1215988	15	April 29, 1999
1215989	10	April 29, 1999
1215990	16	April 29, 1999
1215991	16	April 29, 1999
1215992	16	April 29, 1999
1215993	15	April 29, 1999
1215995	13	April 29, 1999
TOTAL	364 units	

PREVIOUS WORK

No historical assessment data for the immediate area of the property is recorded before 1946. The Theresa Mine, located 5 kilometres to the northeast, produced 4,727 oz of gold and 198 oz of silver from 261,120 milled tons between 1935-1955. Previous work is as follows:

- 1934-37 Initial gold discovery at the Theresa Mine site by Moses Fisher; optioned to *Afton Mines Ltd.*,
- 1934-38 Bulk sampling, limited gold and silver production; 3,647 m of drilling; sinking of shafts 1 & 2; *Theresa Mines Ltd.* was incorporated,
- 1946 Independent Mining undertakes line-cutting; magnetic and geological surveys on the majority of the present day Skinner property,
- 1947-49 Shaft #3 at Theresa Mine sunk to 155 m; 10 934 m of drilling,
- 1950-53 Theresa Mine Mill operated at 106 tons per day; Shaft #3 deepened to 300m; 2,071 m surface and 15,202 m of underground drilling,
- 1954 Theresa Mine operations halted; patents suspended,
- 1969 *O. Albert* carried out trenching and stripping on a claim north of Milbean Lake,
- 1970-72 *Canadian Nickel Co.* conducted a drill program in the McBean Lake area,
- 1978 *Shell Canada Resources Ltd.* optioned the property held by Roxmark Mines and Discovery West in the Skinner-McBean Lake Area; Questor Surveys completed an AEM survey with ground magnetic and EM follow-up surveys; a nine hole, 1,026 m drill program followed,
- 1987 Areodat flew an AEM survey over a 186 claim group in the McBean Lake area for *Discovery West Corp* and *Roxmark Mines*; follow-up prospecting, ground mag and EM surveys; two holes, 180 m, were drilled south of Skinner Creek between Skinner Lake and Milbean Lake,
- 1987-88 *Duration Mines* optioned the Theresa Mine property and dewatered the workings; completed 5,320 m of underground drilling, *Duration Mines* declared bankruptcy; the mine contractor, *J.S. Redpath* gained ownership of the property as compensation,
- 1996 Cyprus Canada Inc. staked the original fifteen claim block in June followed by 22.96 km of line cutting between November and December by MC Exploration Services of South Porcupine.
- 1997 An additional 12.34 km of lines were cut plus 35.3 kilometres of mag-VLF surveying were completed in January and February by MC Exploration

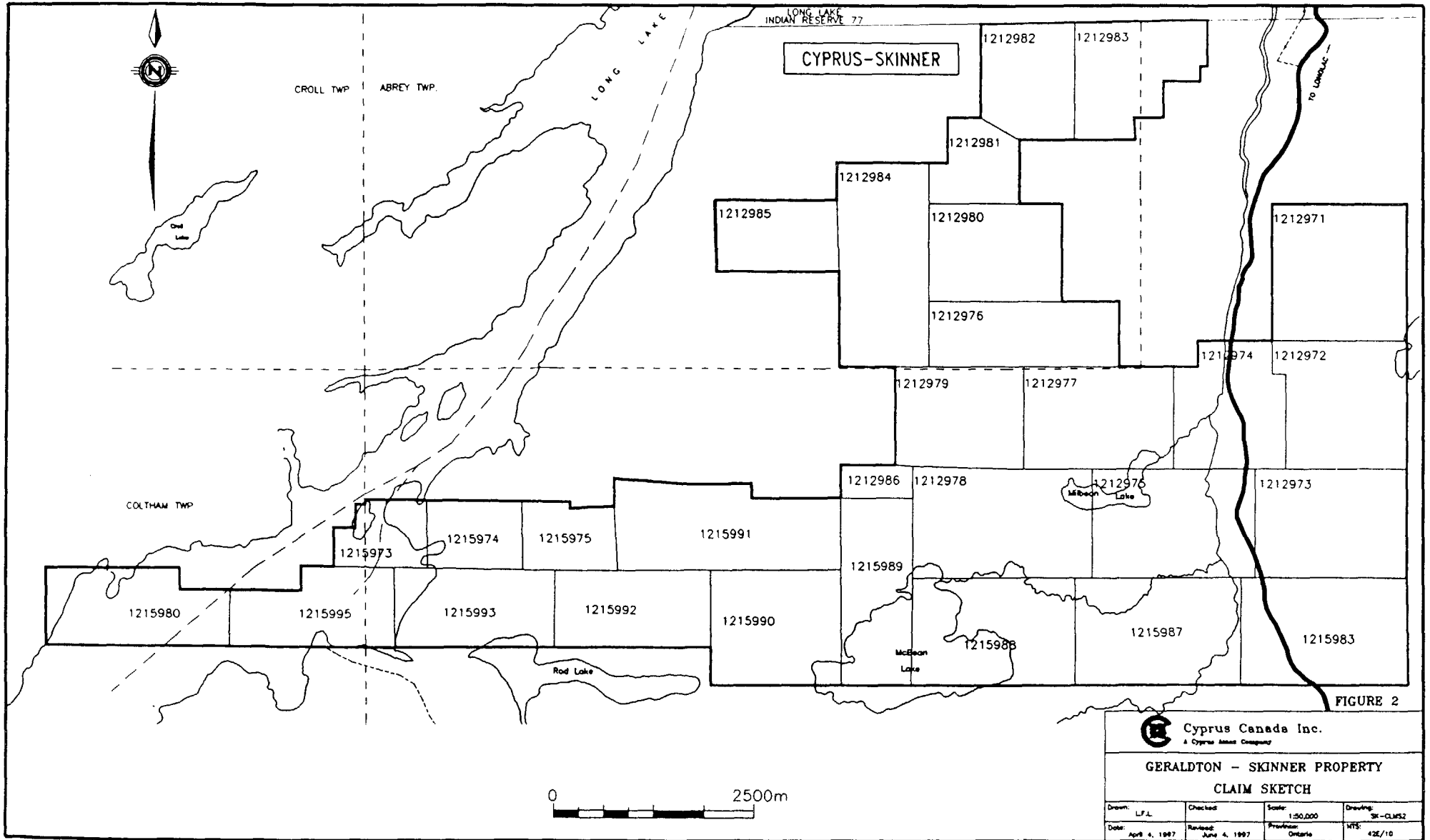



FIGURE 2

 Cyprus Canada Inc. A Cyprus Mines Company			
GERALDTON - SKINNER PROPERTY CLAIM SKETCH			
Drawn: L.F.L.	Checked:	Scale: 1:50,000	Drawing: SK-CLM52
Date: April 4, 1997	Reviewed: June 4, 1997	Province: Ontario	MTS: 42E/10

Services. A 27.4 km pole-dipole array IP survey was completed between February and March by MC Explorations. Steve Prevec of Laurention University completed a petrographic report on 5 thinsections. During the month of April, Cyprus Canada Inc. staked an additional twelve claims.

REGIONAL GEOLOGY

The Geraldton Gold camp is underlain by the east-southeast striking sediment-volcanic Barton Bay synclinorium. The sediments are comprised of Precambrian turbidite assemblages with interbeds of banded iron formation and lesser mafic volcanoclastic rocks of the Southern Sedimentary unit (Kresz & Zayachivsky, 1991). Semi-conformable sills of diorite/gabbro, including quartz and quartz-feldspar porphyry intrude these formations. The sediments/volcanics and intrusives have been deformed into tight large and small-scale isoclinal folds. Later intrafold and drag folds have been superimposed on these structures. To the north, the synclinorium is bound by a sequence of mafic volcanic flows and to the south by a major east-southeast tectonic structure known as the Barton Bay deformation zone (BBDZ).

Several major longitudinal faults trend east-southeast, roughly parallel the axial planes of the fold structures. These faults have been offset by the southwest trending Long Lake fault producing a horizontal offset of 1 kilometre and a significant displacement in the vertical sense. Rocks to the east of this fault are from a deeper crustal level with a metamorphic grade of upper greenschist to amphibolite. Lithologies west of Long Lake are of greenschist facies (Kresz & Zayachivsky, 1991).

Many of the gold deposits in the Geraldton camp are thought to be spatially related to the low angle splay off of the BBDZ (Bankfield-Tombill fault), as the majority of the gold production occurs in rocks directly north of this major tectonic structure. Gold mineralization occurs in several environments but the two most prolific, based on historical production (Pye, 1951), are the porphyry/sediment contacts and quartz-ankerite veins within or adjacent to highly folded sections of iron formation.

The Croll Lake Stock, a granitic intrusion in the east end of the Geraldton gold camp is thought to be a possible source of the auriferous hydrothermal fluids (Pye & Horwood, 1951). A quartz feldspar porphyry intrusion, probably a satellite appendage to the Croll Lake, intrudes sediments in the middle portion of the Skinner property.

DRILL PROGRAM SUMMARY

Drilling commenced on March 10th and ended on April 12th, 1997. Norex Drilling Ltd. of Timmins, Ontario was contracted to perform the diamond drilling using a Boyles 27 drill rig. The drill program consisted of 11 BQ holes, numbered SK97-01 to SK97-11, totaling 1,851 metres.

Magnetic susceptibilities were measured at $0-0.1 \times 10^{-3}$ cgs for all rock units and noted in the drill logs. Magnetic susceptibilities were generally low throughout the property. Rock quality determinations (RQD) were made for all units in SK97-09 to and were noted in the drill logs.

The work was concentrated on claims 1212972, 121973, 1212976, 1212977, 1212978, 121979 and 1212984. All holes were drilled grid north at 355°. Diamond drill logs are

located in Appendix 1 while assay certificates for gold and ICP are listed in Appendix 2 and 3 respectively.

A total of 549 samples were taken for Au fire assay and AA finish. Sample length averaged 1.5 metres. Samples 656244-656271, 656418-656462, and 656503-656738 were also analyzed by a 34 element ICP scan. Assay procedures for Chimitec Ltee are listed in Appendix 4.

Samples were split at the Geraldton coreshack and shipped to Chimitec Ltee. in Val d'Or, Quebec by Manitoulin Transport Inc. All drill cores are stored outdoors in racks at the Magnet Mine.

Appendix 5 contains a petrographic report by Steve Prevec of Laurention University. The study was undertaken to determine the protoliths of 2 questionable units encountered during the drill program.

Table 2
Diamond Drill Program Details

Hole	Easting	Northing	Azimuth	Dip	Length
SK97-01	26+00W	12+50S	GRD 360	-45	182.0
SK97-02	26+00W	6+50S	GRD 360	-45	157.0
SK97-03	26+00W	0+75S	GRD 360	-45	158.0
SK97-04	26+00W	13+50S	GRD 360	-45	173.0
SK97-05	41+00w	12+75N	GRD 360	-45	182.0
SK97-06	14+00W	2+00S	GRD 360	-45	170.0
SK97-07	13+00E	2+25S	GRD 360	-45	155.0
SK97-08	13+00E	12+75S	GRD 360	-45	179.0
SK97-09	25+00W	13+00S	GRD 360	-45	161.0
SK97-10	26+75W	13+00S	GRD 360	-45	134.0
SK97-11	34+00W	13+00S	GRD 360	-45	200.0

DRILL LOG SUMMARY

SK97-01 was spotted to test a moderate zone of chargeability within a broad resistivity along the northern edge of a quartz-feldspar porphyry intrusion. A fine to medium grained feldspar porphyry was collared into from 4.1 m to 81.0 m, Within this unit a matrix supported conglomerate was encountered from 65.0-67.5 m. The intrusive was followed by an amphibolized conglomerate to 93.0 m where a strongly foliated and altered sediment, with minor feldspar porphyry, was encountered to the end of the hole at 182 m. The IP anomaly was explained by 1-2% disseminated pyrite hosted within a moderately fractured hematite stained feldspar porphyry between 67.6 and 80.96 m. A maximum Au assay of 12 ppb was obtained from within this unit.

SK97-02 tested a moderate chargeability/strong resistivity anomaly within the same quartz feldspar intrusive as *SK97-01* tested. A mediuemed grain quartz feldspar porphyry was collared into from 3.3 m to 68.0 m after which a biotite rich argillite was encountered to the end of the hole at 157.0 m. The weak chargeability could not be explained. A maximum gold assay of 15 ppb was obtained within an irregular quartz carbonate veinlet hosted within the feldspar porphyry.

SK97-03 collared into bedrock outcrop consisting of fine to medium grained greywacke and remained in the same rock type to the end of the hole at 158.0 m. The hole was spotted to intersect a strong IP chargeability/resistivity anomaly within a unit originally mapped as quartz feldspar porphyry by government geologists. The greywacke was weakly silicified and ankeritized throughout. The source of the IP chargeability was found to be a 40 m interval containing ½ to 1% very fine grained pyrite from 80.5 to 106.1 m. A maximum gold assay, of 31 ppb, was obtained from a moderately fractured interval with numerous millimetre scale light grey quartz veins with trace pyrite from 20.14 to 21.66 m.

SK97-04 was spotted to intersect a moderate to strong chargeability/resistivity anomaly coincident with a two station magnetic high on the southern flank of an AEM anomaly trend. Fine grained mafic ash tuff to lapilli tuff were collared into from 4.2 m to 51.7 m followed by weakly sericitic, silicified and fractured massive greywacke, argillite and lithic greywacke to 124.7 metres. The sediments exhibit a progressive increase in centimetre scale sericite/carbonate banding and pervasive silicification towards the lower contact. Trace amounts of pyrite, pyrrhotite and arsenopyrite are present in all sedimentary rock types. Footwall to the sediments is a fine grained, dark brown-grey, strongly foliated and silicified ash to lapilli tuff to 133.29 metres. The matrix of the tuff is dominated by biotite, moderate pervasive carbonate and 10-12%, 3-4 millimetre wide blue grey boudinaged, folded quartz veins. The blue-grey quartz veins are typically devoid of any sulphides but are accompanied by 2-3% disseminated pyrrhotite, pyrite and trace chalcopyrite within the biotite matrix. The arsenopyrite occurs as fine to medium grained, acicular, silver grey crystals, 1-2 millimetres in size. Gold assays averaged 1.98 g/t over a 7.3 m interval within the mineralized interval that is interpreted to be the source of the IP anomaly. The mafic tuff unit terminates at 133.29 m, along a four centimetre wide fault gouge, in contact with fine grained mafic flows. The mafic flows continue to 164.19 m after which a biotite-amphibole-garnet metasedimentary unit was encountered to the end of the hole at 173.0 metres.

SK97-05 was spotted to intersect a moderate IP chargeability/resistivity with a flanking strong magnetic/VLF anomaly. The hole collared into a garnetiferous greywacke from 3.4 m to 33.6 m followed by a fine grained dark grey argillite to 56.7 metres. The argillite is cut by a 3.3 m wide fine grained quartz porphyry dyke from 49.49 to 52.19 metres. Following the argillite is an alternating sequence of amphibolitized mafic volcanic flow/tuff and moderate to strongly silicified sediments to the end of the hole at 182.0 metres. The mag/VLF anomaly coincides with a faulted contact between a garnetiferous greywacke and argillite located at 33.6 metres. The source of the IP anomaly is the presence of 2-3% disseminated pyrite within a silicified sediment located between 153.5 and 163.5 metres. The hole returned a maximum gold assay of 7 ppb.

SK97-06 was spotted to intersect a moderate IP chargeability/weak resistivity anomaly flanked by weak VLF anomalies. The hole collared into a dark grey magnetic argillite from 7.3-10.10 metres. Following the argillite a weakly bedded greywacke was encountered from 10.10-102.0 metres. Within the greywacke a graphitic fault was encountered at 70.0 metres. The fault has a 10.0 m alteration halo which consist of moderate fracturing, hematite staining and 1-2% disseminated pyrite. This interval is interpreted to be the source of the IP/VLF anomaly. From 102.0-113.0 m a very fine grained argillite was encountered followed by garnetiferous greywacke to the end of the hole at 170.0 metres. The maximum gold assay obtained was 49 ppb.

SK97-07 was drilled to test a weak chargeability/strong resistivity anomaly below an old gold showing located at L13E/175S. Biotite-amphibole-garnet-metasediment was collared into

from 3.0-55.4 metres. A massive quartz-feldspar porphyry dyke intrudes this unit from 36.22 to 37.35 metres. Following the metasediments a fine grained massive mafic tuff unit was encountered to 63.15 metres. The remainder of the hole, to 155.0 m, consists of biotite-amphibole-garnet-metasediments. A massive quartz-feldspar porphyry dyke intrudes the metasediments between 103.25 and 107.68 metres. The highest gold value obtained was 27 ppb.

SK97-08 was spotted to intersect a coincident mag/VLF and weak IP chargeability/resistivity anomaly located immediately south of a quartz-feldspar porphyry stock. The hole collared into medium grained mafic ash tuff from 7.0-7.9 m followed by a lean iron formation to 27.36 metres. Following the lean iron formation a transitional unit between lithic greywacke and mafic tuff from 27.36-62.93 metres. The greywacke dominates the top of the section and gradually increases to mafic tuff towards the bottom. This section is then followed by lean iron formation to 82.3 m after which mafic lapilli tuff/agglomerate and massive mafic flows dominate to 173.0 metres. The remainder of the hole, to 179.0 m, consists of quartz-feldspar porphyry. The highest gold assay was 691 ppb hosted within a weakly pyritic (up to 5%) mixture of greywacke, iron formation and mafic lapilli tuff from 73.45 to 74.95 metres.

SK97-09 was drilled to test the eastern strike extent of the anomalous gold horizon encountered in SK97-04. SK97-09 collared into medium grained, weakly silicified and sericitized greywacke from 5.0 m to 79.03 metres. Centimetre scale sericitic banding and fracturing increases downhole accompanied by trace to 2% fine grained disseminated arsenopyrite. Following the greywacke is a fine grained biotitic mafic ash tuff to 142.44 metres. This unit contains a 5.4 m interval that is intensely foliated, strongly carbonated and contains millimetre scale blue-grey quartz veins with 3-4% disseminated pyrrhotite, pyrite, arsenopyrite and trace chalcopyrite. As in SK97-04 the footwall of this mineralized interval terminates with an 11 cm fault gouge. The remainder of the hole, to 161.0 metres, consists of a massive mafic flow. The highest assay result obtained was 1.24 g/t occurring within sericitic greywacke from 6.5 to 8.0 metres. However, the best grade/width interval of 0.058 g/t over 5.4 m occurs within the mineralized mafic tuff from 79.03 to 84.43 metres.

SK97-10 tested the western strike extension of the mineralization encountered in SK97-04 and SK97-09. SK97-10 collared into a mixture of dark grey, fine grained, greywacke and reworked tuff from 4.1 m to 14.0 m followed by moderately fractured and sericitic greywacke to 87.05 metres. Again, the intensity and frequency of sericite alteration and fracturing tends to increase downhole within the greywacke. Trace to 1% disseminated rhombic and acicular arsenopyrite is associated with sections of stronger sericite alteration. A fine grained mafic ash tuff follows to the end of the hole at 134 metres. From 87.0 to 92.5 m (5.5 m) this unit is intensely foliated, strongly carbonated and contains 4-5% disseminated arsenopyrite, pyrrhotite, pyrite and trace chalcopyrite associated with millimetre scale blue-grey quartz veinlets. A moderately foliated, weakly mineralized lapilli tuff interrupts the blue-grey quartz veins from 92.5-102.6 metres. This unit contains 2-3% pyrite with locally semi-massive pyrrhotite and chalcopyrite along fracture planes. The quartz vein mineralization was re-encountered from 102.6-104.3 m followed by the footwall fault/deformation zone to 110.0 metres. From 110.0-112.93 a weakly foliated ash tuff with several 2-3 centimetre wide irregular quartz-carbonate veins was encountered. This unit terminates at a tight slip surface. The quartz-carbonate veins contain, and are haloed by, 1-2% fine to medium grained acicular arsenopyrite. A maximum assay of 2.45 g/t gold was obtained within a 6.5 m interval averaging 1.87 g/t within the mineralized tuff.

SK97-11 was spotted to test a similar IP chargeability/resistivity anomaly associated with the auriferous horizon encountered in holes SK97-04, 10, and 11 800 m to the east. SK97-11 collared into dirty greywacke/reworked tuff from 3.6 m to 68.26 m. The unit is weak to moderately fractured and cut by numerous millimetre scale quartz carbonate veinlets plus, trace arsenopyrite. A weakly bedded greywacke follows with trace-2% arsenopyrite associated with millimetre scale intense sericite bands to a depth of 166.66 m. A second dirty greywacke/reworked tuff was subsequently encountered to 198.0 m containing 5-8 mm wide grey quartz veinlets with sericitic halos containing 1-2% disseminated arsenopyrite. A biotite amphibole garnet metasediment follows to the end of the hole at 200 m. Erratic gold values up to 687 ppb, occur throughout the hole, however, no grade/width interval of interest was encountered.

SK97-11 was spotted to test a similar IP chargeability/resistivity anomaly associated with the auriferous horizon encountered in holes SK97-04, 10, and 11 800 m to the east. SK97-11 collared into dirty greywacke/reworked tuff from 3.6 m to 68.26 m. The unit is weak to moderately fractured and cut by numerous millimetre scale quartz carbonate veinlets plus, trace arsenopyrite. A weakly bedded greywacke follows with trace-2% arsenopyrite associated with millimetre scale intense sericite bands to a depth of 166.66 m. A second dirty greywacke/reworked tuff was subsequently encountered to 198.0 m with 5-8 mm wide grey quartz veinlets with sericitic halos containing 1-2% disseminated arsenopyrite. A biotite amphibole garnet metasediment follows to the end of the hole at 200 m. Gold values throughout the hole are anomalous and erratic with a maximum of 687 ppb in a fine grained greywacke with a 2 cm wide white quartz vein.

STATEMENT OF EXPLORATION EXPENDITURES

By April 30th, 1997 the total costs for the Skinner property amounted to \$190,004. A statement of exploration expenditures is listed in the table below.

STATEMENT OF EXPLORATION EXPENDITURES FOR PERIOD ENDING APRIL 30, 1997

PROJECT: Skinner-Geraldton (5007)

Salaries – Geology	11 342
Salaries – Diamond Drilling	22 641
Diamond Drilling	87 283
Assays	4 805
Geophysics	34 291
Field Expenses	17 496
Transportation	1 209
Property Aquisition	10 452
Other	485
Total Expenditure	\$ 190 004

CONCLUSION AND RECOMMENDATIONS

Six holes tested geophysical anomalies within or adjacent to the quartz-feldspar porphyries. Fine disseminated pyrite enveloped by weak to strong silicification, and graphitic fault

surfaces, were found to be the source of the geophysical anomalies. No significant gold values were encountered.

However, drilling along the southern flank of an AEM anomaly trend, which marks the southern contact of the Eldee Lake volcanic unit, intersected 1.98 g/t over 7.3 metres in SK97-04. This intersection occurs at a faulted contact between hanging wall greywackes and footwall mafic tuffs. Two follow-up holes, drilled 100 metres east (SK97-09) and 75 metres to the west (SK97-10) of SK97-04 encountered 0.58 g/t over 5.4 metres and 1.87 g/t over 6.5 metres confirming this new gold horizon has a minimum strike length of 200 metres. A third follow-up hole (SK97-11), drilled 800 metres west of SK97-04, tested a similar IP response along the same stratigraphic horizon. This hole did not encounter a significant gold interval but did encounter similar rock types exhibiting the same quartz-sericite-arsenopyrite package in conjunction with anomalous gold values ranging between 442-687 ppb.

Based on these initial results, this new gold horizon may appear to have better opportunity for narrow, high grade mineralization, however, the hanging wall greywacke hosts a broad alteration/mineralization halo of up to 50 metres in width. Sporadic anomalous gold values exist throughout this halo suggesting excellent potential for bulk tonnage gold deposits.

Further work on the Skinner property should include:

- 1) The establishment of a detailed grid covering the strike and down dip potential of the new gold horizon identified by SK97-04, 09 and 10;
- 2) Detailed mag/VLF and IP surveys;
- 3) A soil/humus orientation survey to determine whether a geochemical survey would be feasible;
- 4) Detailed geological mapping of the 1996 and 1997 grids and;
- 5) A 10 hole, 2 000 metre, drill program to further evaluate the on-strike and down-dip potential of the new gold.

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STATEMENT OF QUALIFICATIONS

I, David B. Stevenson do hereby certify:

1. That I am a Senior Geologist employed with Cyprus Canada Inc. residing at 57 Castlewood Avenue, Timmins, Ontario, P4R 1L5.
2. That I am a 1981 graduate of the University of New Brunswick, Fredericton, New Brunswick, with a B.Sc.(Honours) in Geology and have been continuously engaged as a practising geologist, within Canada and Norway, since that time.
3. That I am a registered Professional Geoscientist in the Province of British Columbia.
4. That I have acted as Project Manager for work conducted on the Roxmark-Geraldton property during 1996 and 1997.

South Porcupine, Ontario, Canada
April 30, 1997

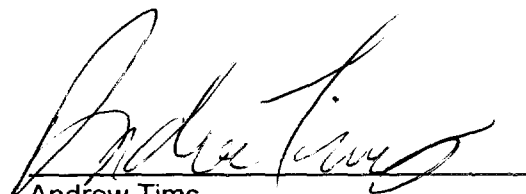
David B. Stevenson, P.Ge.
Senior Geologist
Cyprus Canada Inc.

STATEMENT OF QUALIFICATIONS

I, Andrew A. B. Tims, of Timmins, Ontario hereby certify that:

- 1.) I graduated from Carleton University, in Ottawa, with a Bachelor of Science Degree in Geology (1989).
- 2.) I am a contract geologist employed with Cyprus Canada Inc. and reside at 309 – 1214 Riverside Drive, Timmins, Ontario, P4N 1A4
- 3.) I possess a valid prospector's license and have been practising my profession for the past 9 years and have been actively involved in mineral exploration for the past 11 years.
- 4.) I do not hold any interest in the property described in this report.

South Porcupine, Ontario
April 30, 1997

A handwritten signature in black ink, appearing to read 'Andrew Tims', written over a horizontal line.

Andrew Tims
Geologist
Cyprus Canada Inc.

APPENDIX 1 Skinner Property 1997 Diamond Drill Logs

From (m)	To (m)	Geology	Sample	From (m)	To (m)	Lngr (m)	Auav pbb	Au g/t	As ppm	Sr ppm	Ba ppm	Py %	Cpy %	Aspy %
.00	4.17	OVERBURDEN												
4.17	51.73	MAFIC TUFF Fine grained dark grey-brown to grey-green, thinly layered to thinly laminated, weakly fractured mafic ash to lapilli ash tuff. Distinct grey-brown color due to abundant very fine grained biotite?. Lithics consist of <1mm feldspar, chlorite and quartz. The dark grey-brown biotite-rich tuffaceous layers and lamina are separated by grey-green mafic-rich (chlorite-feldspar) layers or lamina resulting in the thinly layered to laminated texture. Layers and lamina trend 80 degrees to CA. Locally minor folding. Rare white barren quartz-carbonate veins and veinlets parallel to stratigraphy. Trace pyrite. Average magnetic susceptibility is 0.1.												
		14.15 15.66 Weakly fractured, 10-15 white quartz-carbonate veinlets parallel to bedding with nil to trace py.po. Fractures infilled with very fine grained black ash or silty material	656418	14.15	15.66	1.51	3	.003	16	79	623			
		29.80 31.28 <5 quartz-carbonate veinlets with trace pyrite.	656420	29.80	31.28	1.48	15	.015	61	53	321			
		37.63 39.35 MAFIC LAPILLI TUFF fine to medium grained, dark grey-brown to grey-green mafic lapilli tuff. Lapilli are flattened, usually less than 1cm long by 2-3mm wide, and consist of feldspar and minor carbonate. Fragment size fines in a down hole direction. Upper and lower contacts sharp at 70 and 65 degrees to CA, respectively Trace pyrite.	656421	37.63	39.35	1.72	4	.004	44	103	373			
		39.35 46.59 Mafic ash tuff. As above.												
		46.59 47.41 Mafic lapilli ash tuff. As above.												
		47.41 51.73 Mafic ash tuff. As above.												
		50.23 51.73 Trace pyrite.	656422	50.23	51.73	1.50	15	.015	38	23	204			
51.73	70.39	GREYWACKE Fine to medium grained, light to medium grey, massive to thinly bedded weak to locally strongly silicified and sericitic greywacke. Sericite alteration is pervasive throughout the section but it has preferentially altered certain beds more than others resulting in a diffuse banded texture. Silicification is also highly variable throughout the section. Rare white-grey quartz-carbonate veins more commonly associated with more intense areas of silicification and sericite alteration. Average magnetic susceptibility is 0.1. Lower 50cm is moderately sericitic, strongly silicified and contains five <1cm white-grey quartz veins haloed by disseminated trace to 1% pyrite and arsenopyrite. Lower contact gradational at 75 degrees to CA.												
		51.73 53.15 Weak to locally strongly silicified, weak to moderately sericitic.	656423	51.73	53.15	1.42	71	.071	342	28	105			
		53.15 54.45 Five grey quartz veins from 53.85 to 54.00; trace to 1% disseminated arsenopyrite and pyrite; the sulphide is hosted within the vein and not as halos to the vein.	656424	53.15	54.45	1.30	109	.109	836	30	97			
		54.45 56.00 Trace pyrite, pyrrhotite and locally trace arsenopyrite.	656425	54.45	56.00	1.55	83	.083	237	24	69			
		56.00 57.50 Trace pyrite, pyrrhotite and locally trace arsenopyrite.	656244	56.00	57.50	1.50	172	.172	539	31	111			

From (m)	To (m)	Geology	Sample	From (m)	To (m)	Lngt (m)	Auav ppb	Au g/t	As ppm	Sr ppm	Ba ppm	Py %	Cpy %	Aspy %
	85.00 86.80	Two 4cm grey-white quartz-carbonate(-biotite) veins with trace to 2% pyrrhotite located at 85.85 and 86.45; non to locally weakly sericitic.	656435	85.00	86.80	1.80	141	.141	304	80	87			
	86.80 88.80	Rare grey quartz veins with 1% disseminated pyrrhotite; non to weakly sericitic.	656436	86.80	88.80	2.00	44	.044	64	50	97			
	88.80 90.40	Two 1cm grey quartz veins with 1% pyrrhotite; non to locally weakly sericitic.	656437	88.80	90.40	1.60	9	.009	25	41	101			
	90.40 91.90	Two 1cm grey quartz veins with 1% pyrrhotite; non to locally weakly sericitic; locally weakly brecciated to fractured and strongly sericitic.	656438	90.40	91.90	1.50	3	.003	13	42	158			
	91.90 93.50	Weakly fractured and sericitic.	656439	91.90	93.50	1.60	3	.003	27	50	162			
	94.25 94.45	Light grey quartz vein with trace pyrite.	656256	93.50	95.00	1.50	25	.025	55	45	105			
	95.00 96.50	Weakly sericitic, moderately silicified.	656440	95.00	96.50	1.50	3	.003	11	34	118			
	96.50 98.00	Non to weakly sericitic; weakly silicified.	656441	96.50	98.00	1.50	7	.007	22	35	99			
	98.00 99.50	Ten 1cm grey-white quartz veins at times with trace arsenopyrite; veins trend 60-70 degrees to CA.	656442	98.00	99.50	1.50	5	.005	28	32	148			
	99.50 101.00	Weakly fractured; fractures are strongly sericitic; strongly silicified; three 1-5cm grey-white quartz veins with trace to 1% arsenopyrite lower 20cm strongly sericitic.	656443	99.50	101.00	1.50	10	.010	111	36	122			
	100.50 112.80	Light waxy grey, moderate silicified and fractured, well banded, broken core. Average magnetic susceptibility is 0.0.												
	101.00 102.50	Weak to moderately fractured to brecciated; moderately sericitic and silicified; one 6cm quartz-carbonate-biotite vein at 102.03 containing 1% pyrrhotite.	656444	101.00	102.50	1.50	3	.003	26	60	137			
	102.50 104.00	Weak to moderately fractured to brecciated; moderately to strongly sericitic and silicified; one <1cm grey-white quartz vein with trace pyrrhotite.	656445	102.50	104.00	1.50	10	.010	32	67	172			
	104.00 105.50	Weak to moderately fractured to brecciated; weak to locally moderately sericitic and silicified; one 10cm quartz-carbonate-biotite quartz vein with 1% pyrrhotite at 104.05.	656446	104.00	105.50	1.50	12	.012	37	109	175			
	105.50 107.00	Weak to moderately fractured to brecciated; weak to locally strongly sericitic and silicified; rare <1cm grey-white quartz veins with trace arsenopyrite.	656447	105.50	107.00	1.50	19	.019	69	53	117			
	107.00 108.50	Locally weak to moderately fractured; weak to locally strongly sericitic and silicified; trace pyrite coating fracture planes.	656448	107.00	108.50	1.50	6	.006	19	52	121			
	108.50 110.00	Locally weakly fractured; weak to locally strongly sericitic and silicified; one 1cm white quartz vein with trace to 1% arsenopyrite halo.	656449	108.50	110.00	1.50	3	.003	171	44	121			
	110.00 111.85	Locally weak to moderately fractured; weak to locally strongly sericitic and silicified; highly broken section.	656450	110.00	111.85	1.85	3	.003	28	35	122			
111.85	124.67	ARGILLITE Fine grained, dark grey, weakly bedded, locally banded on the millimetre scale by carbonate, minor centimeter scale dark grey quartz veins, pyritized trace to 1. Upper contact is lost in broken core with the lower contact sharp at 75 degrees to the core axis.												
	111.85 113.35	Weak to moderately fractured; weakly sericitic; strongly silicified; two 10cm irregular grey-white quartz veins with trace pyrrhotite, pyrite and arsenopyrite at 112.5 and 112.7.	656451	111.85	113.35	1.50	6	.006	79	37	153			
	113.35 114.50	Locally weakly fractured and sericitic; strongly silicified one 10cm irregular grey-white quartz vein with trace pyrrhotite and pyrite at 113.6.	656452	113.35	114.50	1.15	3	.003	137	38	165			
	114.50 116.00	Weakly fractured and sericitic; moderately silicified;	656257	114.50	116.00	1.50	16	.016	629	26	150			

From (m)	To (m)	Geology	Sample	From (m)	To (m)	Lngr (m)	Auav ppb	Au g/t	As ppm	Sr ppm	Ba ppm	Py %	Cpy %	Aspy %
		upper 5cm of sample contains two 1cm grey-white quartz veins with 1-2% ASPY.												
	116.00 117.50	Five 1 cm grey white quartz veins, trace arsenopyrite, strongly silicified, weakly sericitic.	656258	116.00	117.50	1.50	42	.042	191	31	101			
	117.50 119.00	Last 40cm of sample is strongly silicified and weakly sericitic; minor grey-white quartz-stockworking with trace to 3% arsenopyrite and trace pyrite.	656259	117.50	119.00	1.50	40	.040	889	29	152			
	119.00 120.50	Strongly silicified; weakly sericitic; locally trace arsenopyrite and pyrite; minor grey-white quartz veining.	656260	119.00	120.50	1.50	38	.038	932	33	94			
	119.50 121.50	Strongly silicified, locally fractured.												
	120.50 122.00	Weakly fractured and sericitic; moderately silicified.	656261	120.50	122.00	1.50	34	.034	263	33	156			
	122.00 123.50	Weakly fractured and sericitic; moderately silicified; trace pyrite and pyrrhotite.	656262	122.00	123.50	1.50	27	.027	106	28	95			
	122.40 124.67	Broken core.												
	123.50 124.67	Weakly fractured and sericitic; weak to moderately silicified; trace arsenopyrite.	656263	123.50	124.67	1.17	59	.059	525	29	131			
124.67	133.29	MAFIC LAPILLI TUFF Fine grained to medium grained dark brown-grey, strongly foliated, weak to strongly silicified weak to moderately carbonatized biotite mafic lapilli tuff. Weak to moderate magnetic, distorted bedding, boudinaged millimetre scale quartz - carbonate veinlets with very fine grained disseminated pyrrhotite, pyrite, arsenopyrite and lesser chalcopyrite average of 2 to 3% to locally near massive sulphide within the matrix, weak to moderate pervasive carbonate within matrix. Average magnetic susceptibility is 0.2. Lower contact is marked by a 15 cm fault breccia cemented with carbonate at 85 tca.												
	124.67 126.00	Abundant boudinage grey-white quartz veins; strongly silicified; 1-2% to locally >5% disseminated pyrrhotite, pyrite, lesser chalcopyrite; trace to locally 2% disseminated arsenopyrite.	656264	124.67	126.00	1.33	1284	1.284	2525	79	76			
	126.00 127.50	As above.	656265	126.00	127.50	1.50	1514	1.514	4039	45	49			
	127.50 129.00	As above but lacking the quartz veining and lower sulphide content; 1-2% disseminated pyrrhotite, pyrite and trace chalcopyrite; trace to locally 2% arsenopyrite.	656266	127.50	129.00	1.50	836	.836	2194	17	103			
	129.00 130.50	1-2% to locally near massive pyrrhotite, pyrite, lesser chalcopyrite; trace to locally 3% arsenopyrite; occasional grey-white quartz veins; strongly silicified.	656267	129.00	130.50	1.50	2833	2.833	7662	34	56			
	130.50 132.00	Locally trace to 2% disseminated pyrrhotite, pyrite and chalcopyrite; trace to locally 2% disseminated arsenopyrite; strongly silicified.	656268	130.50	132.00	1.50	679	.679	5930	41	61			
	132.00 133.29	Trace to 1% pyrrhotite, pyrite; trace to locally 2% arsenopyrite; weakly silicified.	656269	132.00	133.29	1.29	156	.156	4199	40	30			
133.29	164.19	MAFIC FLOW Fine grained, medium green, weakly foliated to massive, locally 10 to 15% fine grained biotite/amphibole which locally exhibit the original pyroxene shape. Weakly fractured, minor quartz - carbonate veined, trace pyrite frequent wispy white quartz-carbonate veinlets throughout unit.												
	133.29 135.30	Non to locally weakly silicified; nil to trace pyrite.	656453	133.29	135.30	2.01	37	.037	409	14	55			
	135.30 137.30	As above.	656454	135.30	137.30	2.00	3	.003	13	16	64			
	143.00 145.00	As above.	656455	143.00	145.00	2.00	3	.003	21	53	121			
	152.60 154.60	One 10cm barren white-grey quartz vein at 152.85; strongly silicified from 153.90 to 154.30; nil sulphide.	656456	152.60	154.60	2.00	3	.003	11	26	30			
	154.60 155.85	Feldspar phyrlic, euhedral, average 1 to 2 mm. Average magnetic susceptibility is 0.1.	656457	162.19	164.19	2.00	4	.004	59	27	19			

From (m)	To (m)	Geology	Sample	From (m)	To (m)	Lngr (m)	Auav ppb	Au g/t	As ppm	Sr ppm	Ba ppm	Py %	Cpy %	Aspy %
.00	3.38	OVERBURDEN												
3.38	33.60	GREYWACKE Fine grained to medium grained, light to medium grey, weakly bedded, well banded by millimetre scale silicification, strongly silicified bands are aphanitic pale light grey with medium grained biotite and magnetite, matrix contains an average of 15% fine grained biotite plus 5 to 8% pale red irregular garnet, average size 3 mm, moderate foliated at 35 degrees to the core axis, weakly fractured, trace carbonate along fractures. Matrix grades to a vfg gwke, lower contact is faulted at 50 degrees to the core axis with 1 cm fault gouge. Trace pyrite. Average magnetic susceptibility is 0.8 with locally maximums of 3.0.												
33.60	49.49	ARGILLITE Very fine grained, dark grey, locally coarsens to a fine grained matrix where magnetic susceptibility is above 1.0, weakly bedded, foliation at 25 degrees to the core axis. 36.5 M a 50 cm quartz - carbonate vein with trace pyrite. 40.35 46.94 Pale light grey strongly silicified interval, moderately fractured, 2 to 3% disseminated pyrite. 48.0 M a 5 cm medium grained quartz-feldspar porphyry dyklet, 0.5 cm chill margins, euhedral quartz and feldspar, initially resembles a clastic texture, trace to 1% very fine grained disseminated pyrite. 46.94 49.49 Locally centimeter scale fine grained biotite rich intervals. Average magnetic susceptibility is 0.6 with a value of 0 within the silicified interval.	656272 656273 656274 656275 656276 656277 656278	36.50 38.00 39.50 41.00 42.50 44.00 45.50	38.00 39.50 41.00 42.50 44.00 45.50 46.94	1.50 1.50 1.50 1.50 1.50 1.50 1.44	3 3 3 3 6 3 3	.003 .003 .003 .003 .006 .003 .003						
49.49	52.19	QUARTZ FELDSPAR PORPHYRY Medium grained, dark grey, 10 to 15% subhedral feldspar, 3 to 5% anhedral quartz, moderate fractured, minor hematite staining, trace pyrite. 51.00 A 5 cm medium grained quartz-feldspar porphyry dyklet, 0.5 cm chill margins, euhedral quartz and feldspar, initially resembles a clastic texture, trace to 1% very fine grained disseminated pyrite. Upper contact at 80 degrees to the core axis with a 20 cm chill margin, lower contact is sharp at 40 degrees to the core axis. Average magnetic susceptibility is 0.5.	656280	50.50	52.19	1.69	2	.002						
52.19	56.70	ARGILLITE Very fine grained, dark grey green, locally coarsens to a fine grained matrix WHERE MAGNETIC SUSEPTABLITY IS ABOVE 1.0, weakly bedded. Moderate fractured with hematite halos about carbonate filled fractures Average magnetic susceptibility is 1.5.	656281 656282 656283	52.19 53.50 55.50	53.50 55.00 56.70	1.31 1.50 1.20	3 3 3	.003 .003 .003						
56.70	107.42	MAFIC FLOW Amphibolite. Fine grained, dark green, biotite rich matrix, moderate foliated, locally banded on the millimetre scale by carbonate, trace to 1% pyrite 59.50 63.50 Moderate silicified with quartz - carbonate veinlet at 60.0 M, possible hematitized fault breccia at 60.6 m. 71.11 86.00 Gradational increase in silicification highlighting amphibole crystals in matrix, grey green, moderate fractured with hematite halos about carbonate and ankerite filled fractures.	656284 656285 656286 656287 656288 656289 656290 656291 656292	56.70 58.00 59.50 61.00 62.50 71.11 72.50 74.00 75.50	58.00 59.50 61.00 62.50 64.00 72.50 74.00 75.50 77.00	1.30 1.50 1.50 1.50 1.50 1.39 1.50 1.50 1.50	3 3 3 3 3 3 4 3 3	.003 .003 .003 .003 .003 .003 .004 .003 .003						

From (m)	To (m)	Geology	Sample	From (m)	To (m)	Lngt (m)	Auav ppb	Au g/t	As ppm	Sr ppm	Ba ppm	Py %	Cpy %	Aspy %
.00	7.30	OVERBURDEN												
7.30	101.96	GREYWACKE Fine grained to medium grained, light to medium grey, weakly bedded, matrix contains an average of 10 to 15% fine grained feldspar plus 5 to 8% pale red irregular garnet, average size 4 mm, weakly foliated at 75 degrees to the core axis, weakly fractured, trace carbonate along fractures, minor quartz veins.												
	7.30 10.10	Dark grey, fine grained argillite with an average magnetic susceptibility is of 10.0.	656389	7.50	9.00	1.50	7	.007						
	10.10 31.51	Weakly silicified, 10 to 12% medium grained garnet.	656390	12.94	14.44	1.50	11	.011						
	31.51 45.73	Weakly silicified, trace garnet, moderate fractured, moderate foliated at 45 degrees to the core axis, locally 5 to 8% fine grained amphibole, weak pervasive carbonate and millimetre scale carbonate veinlets, trace hematite.	656391	14.44	15.94	1.50	21	.021						
	45.73 48.05	Moderately hematized and silicified, centimeter scale quartz veining, trace pyrite.	656392	45.50	47.00	1.50	3	.003						
	48.05 52.75	Weakly silicified, trace garnet, moderate fractured, moderate foliated at 45 degrees to the core axis, weak pervasive carbonate and millimetre scale carbonate veinlets, trace hematite.	656393	47.00	48.50	1.50	3	.003						
	52.75 56.44	Moderate hematized and fractured, brecciated, quartz - carbonate veined, centimeter scale intervals of strong hematization have intense sericitization of matrix, upper contact of interval is sharp and is marked by a 1 cm wide carbonate veinlet at 5 degrees to the core axis, 1 cm wide fault gouge at 60 degrees to the core axis.	656340	52.75	54.50	1.75	3	.003						
	56.44 67.20	Weakly silicified, trace garnet, moderate fractured, moderate foliated at 45 degrees to the core axis, weak pervasive carbonate and millimetre scale carbonate veinlets, trace hematite.	656341	54.50	56.00	1.50	3	.003						
	67.20 71.75	Moderate hematized and fractured, brecciated, minor quartz - carbonate veined, strong to intense sericitization of matrix, average of 1 to 2% very fine grained disseminated pyrite throughout, upper contact of interval is sharp at 35 degrees to the core axis, 1 cm wide graphitic fault gouge at 40 degrees to the core axis at 67.94 metres with 3 cm halo of 5 to 8% pyrite, a tight graphitic fault at 30 degrees to the core axis at 68.78 metres with an 8 cm wide quartz-ankerite veinlet containing 10 to 15 pyrite, 70.50 metres, a 1 cm wide graphitic fault gouge at 45 degrees to the core axis with a 23 cm halo of 4 to 5% fine grained pyrite, lower contact is sharp at 55 degrees to the core axis.	656342	56.00	57.50	1.50	3	.003						
	71.75 74.54	Medium to dark grey, strongly brecciated and fractured, numerous millimetre scale quartz - carbonate veinlets, minor ankerite, trace pyrite.	656343	57.50	59.00	1.50	3	.003						
	74.54 78.41	Moderate hematized and fractured, brecciated, minor quartz - carbonate and ankerite veinlets, strong to intense sericitization of matrix, average of 1 to 2% very fine grained disseminated pyrite throughout.	656344	59.00	60.50	1.50	3	.003						
	78.41 85.36	Medium to dark grey, weakly brecciated and fractured, numerous millimetre scale quartz - carbonate veinlets, minor ankerite, trace pyrite.	656345	60.50	62.00	1.50	3	.003						
	85.36 95.44	Weakly hematized throughout with centimeter scale moderate hematite, moderate sericitized, matrix is strongly brecciated, moderately fractured with quartz - carbonate	656346	62.00	63.50	1.50	3	.003						
			656347	63.50	65.00	1.50	3	.003						
			656348	65.00	66.50	1.50	3	.003						
			656349	66.50	68.00	1.50	1	.001						
			656350	68.00	69.50	1.50	20	.020						
			656351	69.50	70.60	1.10	14	.014						
			656352	70.60	71.75	1.15	3	.003						
			656353	71.75	72.85	1.10	3	.003						
			656354	72.85	74.00	1.15	12	.012						
			656355	74.00	75.50	1.50	49	.049						
			656356	75.50	77.00	1.50	7	.007						
			656357	77.00	78.50	1.50	3	.003						
			656358	86.00	87.50	1.50	7	.007						
			656359	87.50	89.00	1.50	1	.001						
			656360	89.00	90.50	1.50	3	.003						

From (m)	To (m)	Geology	Sample	From (m)	To (m)	Lngt (m)	Auav ppb	Au g/t	As ppm	Sr ppm	Ba ppm	Py %	Cpy %	Aspy %
		metasediment/metatuff is the lighter green-grey-black color and the significantly reduced number of garnets and lack of biotite. Frequent haphazard quartz-carbonate veinlets. Rare barren white quartz veins trending 55 degrees to CA. Mag sup=0.0 to 0.3 and average 0.1. RQD=90%. Trace to 2% pyrite pyrrhotite.												
		57.25 58.70 Trace to locally 1% pyrite and pyrrhotite.	656401	57.25	58.70	1.45	15	.015						
		58.90 59.00 Broken core.												
		60.87 60.90 Fault gouge trending at 75 degrees to CA.	656402	61.70	63.15	1.45	8	.008						
		Lower contact sharp at 75 degrees to CA.												
63.15	103.25	BIOTITE AMPHIBOLE GARNET METASEDIMENT/METATUFF As above. Garnets can be up to 5mm in diameter. Mag sup=0.0 to 2.2 and average 0.1. RQD=95%. Trace to 1% pyrite pyrrhotite. Lower contact sharp but very irregular and trending 70 degrees to CA.	656403	70.45	71.85	1.40	3	.003						
		77.70 79.25 Three barren white-quartz-carbonate veins and breccia veins trending 75 degrees to CA.	656404	77.70	79.25	1.55	3	.003						
		82.10 83.50 Bleached and sericitized fracture zones from 82.35 to 82.52 and 82.87 to 82.89 containing 1% disseminated pyrite.	656405	82.10	83.50	1.40	3	.003						
		93.75 95.25 Rare quartz veinlets and 1% disseminated pyrite, pyrrhotite	656406	93.75	95.25	1.50	7	.007						
		101.75 103.25 Occasional quartz-carbonate veinlets, trace pyrite.	656407	101.75	103.25	1.50	67	.067						
103.25	107.68	FELDSPAR PORPHYRY Fine to medium grained, massive, light to medium grey, strongly silicified feldspar porphyry. Unit lacks biotite as in previous interval. Rare blue-grey rounded quartz phenocrysts. Weakly fractured. Nil to trace pyrite and pyrrhotite. Mag sup=0.0. RQD=100%. Lower contact sharp but very irregular at 80 degrees to CA.	656408	103.25	104.75	1.50	9	.009						
			656409	104.75	106.25	1.50	9	.009						
			656410	106.25	107.68	1.43	18	.018						
107.68	152.30	BIOTITE AMPHIBOLE GARNET METASEDIMENT/METATUFF As above. Mag sup=0.0 to 1.8 and averages 0.0. RQD=90%. Lower contact sharp, marked by a 2cm quartz-carbonate vein and trending 70 Degrees to CA.	656411	107.68	109.20	1.52	7	.007						
		121.35 122.80 Two milky white sericite quartz-carbonate breccia? veins at 121.69 to 121.72 and 121.85 to 121.94.	656412	121.35	122.80	1.45	3	.003						
			656413	134.35	135.80	1.45	3	.003						
		147.45 148.95 Four less than 5cm white quartz-carbonate veins trending 40 degrees to CA containing trace to 1% pyrite and chalcopyrite.	656414	147.45	148.95	1.50	10	.010						
			656415	150.80	152.30	1.50	3	.003						
152.30	153.35	FELDSPAR PORPHYRY Fine grained, massive, light to medium grey feldspar porphyry. Unit appears more massive, less obvious feldspar phenocrysts. Non to weakly silicified. Rare blue-grey rounded quartz phenocrysts. Trace pyrite, pyrrhotite. Mag sup=0.0. RQD= 50%. Lower contact sharp at 75 degrees to CA.	656416	152.30	153.35	1.05	9	.009						

From (m)	To (m)	Geology	Sample	From (m)	To (m)	Lngr (m)	Auav ppb	Au g/t	As ppm	Sr ppm	Ba ppm	Py %	Cpy %	Aspy %
		metasediment/metatuff is the lighter green-grey-black color and the significantly reduced number of garnets and lack of biotite. Frequent haphazard quartz-carbonate veinlets. Rare barren white quartz veins trending 55 degrees to CA. Mag sup=0.0 to 0.3 and average 0.1. RQD=90%. Trace to 2% pyrite pyrrhotite.												
		57.25 58.70 Trace to locally 1% pyrite and pyrrhotite.	656401	57.25	58.70	1.45	15	.015						
		58.90 59.00 Broken core.												
		60.87 60.90 Fault gouge trending at 75 degrees to CA.	656402	61.70	63.15	1.45	8	.008						
		Lower contact sharp at 75 degrees to CA.												
63.15	103.25	BIOTITE AMPHIBOLE GARNET METASEDIMENT/METATUFF As above. Garnets can be up to 5mm in diameter. Mag sup=0.0 to 2.2 and average 0.1. RQD=95%. Trace to 1% pyrite pyrrhotite. Lower contact sharp but very irregular and trending 70 degrees to CA.	656403	70.45	71.85	1.40	3	.003						
		77.70 79.25 Three barren white-quartz-carbonate veins and breccia veins trending 75 degrees to CA.	656404	77.70	79.25	1.55	3	.003						
		82.10 83.50 Bleached and sericitized fracture zones from 82.35 to 82.52 and 82.87 to 82.89 containing 1% disseminated pyrite.	656405	82.10	83.50	1.40	3	.003						
		93.75 95.25 Rare quartz veinlets and 1% disseminated pyrite, pyrrhotite	656406	93.75	95.25	1.50	7	.007						
		101.75 103.25 Occasional quartz-carbonate veinlets, trace pyrite.	656407	101.75	103.25	1.50	67	.067						
103.25	107.68	FELDSPAR PORPHYRY Fine to medium grained, massive, light to medium grey, strongly silicified feldspar porphyry. Unit lacks biotite as in previous interval. Rare blue-grey rounded quartz phenocrysts. Weakly fractured. Nil to trace pyrite and pyrrhotite. Mag sup=0.0. RQD=100%. Lower contact sharp but very irregular at 80 degrees to CA.	656408	103.25	104.75	1.50	9	.009						
			656409	104.75	106.25	1.50	9	.009						
			656410	106.25	107.68	1.43	18	.018						
107.68	152.30	BIOTITE AMPHIBOLE GARNET METASEDIMENT/METATUFF As above. Mag sup=0.0 to 1.8 and averages 0.0. RQD=90%. Lower contact sharp, marked by a 2cm quartz-carbonate vein and trending 70 Degrees to CA.	656411	107.68	109.20	1.52	7	.007						
		121.35 122.80 Two milky white sericite quartz-carbonate breccia? veins at 121.69 to 121.72 and 121.85 to 121.94.	656412	121.35	122.80	1.45	3	.003						
			656413	134.35	135.80	1.45	3	.003						
		147.45 148.95 Four less than 5cm white quartz-carbonate veins trending 40 degrees to CA containing trace to 1% pyrite and chalcopyrite.	656414	147.45	148.95	1.50	10	.010						
			656415	150.80	152.30	1.50	3	.003						
152.30	153.35	FELDSPAR PORPHYRY Fine grained, massive, light to medium grey feldspar porphyry. Unit appears more massive, less obvious feldspar phenocrysts. Non to weakly silicified. Rare blue-grey rounded quartz phenocrysts. Trace pyrite, pyrrhotite. Mag sup=0.0. RQD= 50%. Lower contact sharp at 75 degrees to CA.	656416	152.30	153.35	1.05	9	.009						

From (m)	To (m)	Geology	Sample	From (m)	To (m)	Lngt (m)	Auav ppb	Au g/t	As ppm	Sr ppm	Ba ppm	Py %	Cpy %	Aspy %
		44.28 45.70 Two white quartz veins; trace to 1% pyrite.	656480	44.28	45.70	1.42	3	.003						
		47.06 48.60 Trace to 1% disseminate pyrite.	656481	45.70	47.06	1.36	28	.028						
		53.87 5cm fault gouge.	656482	47.06	48.60	1.54	5	.005						
		Lower contact gradational.												
54.27	62.93	LITHIC GREYWACKE GREYWACKE MAFIC LAPILLI TUFF This is a transitional unit between the dominantly greywackes up-hole and the mafic flow/tuff down-hole. Unit consist of very fine grained to fine grained dark grey lithic greywacke which frequently interbeds with fine grained light grey-green greywacke resulting in a finely laminated to layered texture. Occassionally observe cross bedding and scour marks. This unit is occasionally interrupted by <5cm medium grained actinolite-rich mafic lapilli tuff as in the unit above. Mafic lapilli tuff increases down section. Mag sup=0.0 to 0.4 and average 0.0. Lower contact gradational.												
		60.70 62.12 Six <4cm white-grey quartz veins; trace pyrite.	656483	60.70	62.12	1.42	20	.020						
62.93	82.30	LEAN IRON FORMATION LITHIC GREYWACKE GREYWACKE MAFIC LAPILLI TUFF This unit is identical to the unit in the above except for a significant increase in magnetite content as disseminations and massive beds. Locally weakly silicified; occassionally grey-white quartz-carbonate veins with trace to 3% disseminated pyrite. 64.55 3cm fault gouge. Mag sup=0.0 to 52.0 and average 5.0. Lower contact sharp at 75 degrees to CA.												
		70.45 71.95 Mixture of lithic greywacke and mafic lapilli tuff; five quartz-carbonate veins; trace pyrite.	656484	70.45	71.95	1.50	3	.003						
		71.95 73.45 Mixture of greywacke, iron formation and mafic lapilli tuff; moderately silicified; twelve <1cm grey-white quartz veins trending 70 degrees to CA; trace to locally 3% disseminated pyrite.	656485	71.95	73.45	1.50	7	.007						
		73.45 74.95 As above; locally 5% disseminated to masses of pyrite over 3cm widths.	656486	73.45	74.95	1.50	691	.691						
		74.95 76.45 Locally weakly silicified; rare quartz veins; trace pyrite.	656487	74.95	76.45	1.50	19	.019						
		76.45 77.95 2% garnets up to 1cmx0.5cm; one 10cm quartz vein; trace to 1% pyrite.	656488	76.45	77.95	1.50	66	.066						
82.30	112.58	MASSIVE MAFIC FLOW MAFIC TUFF Fine grained, medium to dark green-grey, massive mafic volcanic flow with locally biotitic tuffaceous sections. Frequent wispy, haphazard white quartz-carbonate veinlets; rare, barren white quartz veins. Unit contains nil to trace pyrite. Mag sup=0.0. 83.00 84.50 Two <2cm barren white quartz veins; nil sulphide.												
		105.17 105.43 Trace pyrite.	656489	83.00	84.50	1.50	8	.008						
		107.00 108.50 One 10cm white quartz-carbonate vein with trace pyrite lower contact gradational.	656490	95.00	96.50	1.50	3	.003						
		105.17 105.43 Trace pyrite.	656491	105.17	105.43	.26	3	.003						
112.58	119.50	MAFIC LAPILLI TUFF MAFIC AGGLOMERATE Fine grained, dark green, massive mafic lapilli tuff to agglomerate. Agglomerate fragments are flattened and stretched, white, consist primarily of feldspar and measure up to >6cm by 1cm and trend 80 degrees to CA; section also contains fine white feldspar lapilli which												
			656492	107.00	108.50	1.50	3	.003						
			656493	114.60	116.05	1.45	3	.003						

From (m)	To (m)	Geology	Sample	From (m)	To (m)	Lngr (m)	Auav ppb	Au g/t	As ppm	Sr ppm	Ba ppm	Py %	Cpy %	Aspy %
		are generally less than 3-4mm in diameter. Locally biotitic. Section contains nil to trace pyrite; no quartz veins. Mag sup=0.0. Lower contact gradational.												
119.50	132.37	MASSIVE MAFIC FLOW MAFIC TUFF As above. Occasional barren white quartz-carbonate vein. Nil to trace pyrite. Mag sup=0.0. Lower contact gradational.	656494	126.20	127.65	1.45	3	.003						
132.37	172.90	MAFIC LAPILLI TUFF As above. Lapilli are commonly white to grey, sub-rounded, feldspar-rich ellipsoids which measure 1-1.5 cm by 0.50cm; lapilli are occasionally larger but occur less frequently. Lapilli trend at 80 degrees to CA. Weak to locally intensely biotitic. Nil to locally 1% pyrite. Section is frequently intruded by fine to medium grained, massive, light grey biotitic-feldspar porphyry; the porphyry may contain trace to 1% pyrite. Occasional white, barren, haphazard quartz-carbonate vein. Mag sup=0.0.												
	132.89	133.45	FELDSPAR PORPHYRY Upper and lower contacts sharp at 80 degrees to CA.											
	136.10	136.29	FELDSPAR PORPHYRY Weakly fractured; weakly choritic; feldspar pheno are more diffuse; upper and lower contacts sharp at 70 and 55 degrees to CA, respectively.	656495	132.89	133.45	.56	3	.003					
				656496	133.45	134.95	1.50	3	.003					
	138.28	138.34	FELDSPAR PORPHYRY Very fine grained, rare feldspar phenos; upper and lower contacts sharp at 80 and 75 degrees to CA, respectively.	656497	137.70	139.19	1.49	1	.001					
	145.02	146.33	Mixture of I7 and intensely biotitic lapilli mafic tuff; biotitic-feldspar porphyry units occur from 145.13 to 145.27, 145.48 to 145.59; 145.70 to 146.33; both the tuff and porphyry contain trace to 1% disseminated pyrite; locally strongly silicified; minor quartz veining; contacts at 80 degrees to CA.	656498	145.00	146.46	1.46	43	.043					
	146.76	147.02	FELDSPAR PORPHYRY Upper and lower contacts sharp at 80 and 75 degrees to CA, respectively; trace pyrite.											
	148.41	148.95	FELDSPAR PORPHYRY Upper and lower contacts sharp but irregular at 80 degrees to CA; trace pyrite.											
	157.95	158.70	FELDSPAR PORPHYRY Upper and lower contacts sharp at 80 degrees to CA; trace pyrite.	656499	148.41	148.95	.54	3	.003					
	161.33	163.29	There are several 5cm wide sections where the brecciated lapilli fragments have been cemented by feldspar porphyry; feldspar porphyry dyke from 161.52 to 161.65; trace pyrite.											
	166.42	166.53	FELDSPAR PORPHYRY Finer grained; moderately biotitic; upper and lower contacts sharp but irregular at 80 degrees to CA.	656500	161.33	163.29	1.96	3	.003					
	167.76	167.80	FELDSPAR PORPHYRY Upper and lower contacts sharp at 70 degrees to CA.											
			Lower contact sharp but irregular at 75 degrees to CA.											
172.90	179.00	FELDSPAR PORPHYRY Medium grained, massive, light grey biotitic feldspar porphyry. Locally strongly silicified; trace pyrite; no quartz-carbonate veins;	656501	172.90	174.40	1.50	3	.003						
			656502	177.50	179.00	1.50	3	.003						

From (m)	To (m)	Geology	Sample	From (m)	To (m)	Lngr (m)	Auav ppb	Au g/t	As ppm	Sr ppm	Ba ppm	Py %	Cpy %	Aspy %
.00	5.00	OVERBURDEN												
5.00	79.03	GREYWACKE Fine grained to medium grained, medium grey to light grey with pale grey green banding on the millimetre scale, weakly bedded, matrix composed of 20 to 30% round quartz, 30 to 40% feldspar with variable amounts of sericite, weak to moderately fractured, foliation at 80 degrees to the core axis, lower contact is gradational and is LOST in the pervasive quartz carbonate alteration. Weak pervasive silicification is accompanied by weak to locally moderate sericite alteration as 4 to 6 mm bands with overall intensity increasing down hole to a well banded unit with moderate pervasive sericitic alteration of the matrix where the ser can be seen wrapping around the quartz grains. 5.00 23.81 Medium grained, moderate sericitized with trace to 2% disseminated arsenopyrite. Average magnetic susceptibility is 0.1. RQD indice of 50.												
	5.00 6.50	Weakly fractured, weakly silicified, moderate sericitized, fine grained disseminated arsenopyrite.	656503	5.00	6.50	1.50	248	.248	1451	13	82	TR	NIL	1%
	6.50 8.00	Weakly fractured, weakly silicified, moderate sericitized, fine grained disseminated arsenopyrite.	656504	6.50	8.00	1.50	1243	1.243	2887	20	85	TR	NIL	1%
	8.00 9.50	Weakly fractured, weakly silicified, moderate sericitized, fine grained disseminated arsenopyrite.	656505	8.00	9.50	1.50	108	.108	529	20	103	TR	NIL	1%
	9.50 11.00	Weakly fractured, weakly silicified, moderate sericitized, fine grained disseminated arsenopyrite.	656506	9.50	11.00	1.50	112	.112	629	17	100	TR	NIL	TR
	11.00 12.50	Weakly fractured weakly silicified, moderate sericitized fine grained disseminated arsenopyrite.	656507	11.00	12.50	1.50	180	.180	669	15	79	TR	NIL	1%
	12.50 14.00		656508	12.50	14.00	1.50	27	.027	211	22	94	TR	NIL	TR
	14.00 15.50		656509	14.00	15.50	1.50	17	.017	38	24	100	TR	NIL	TR
	15.50 17.00		656510	15.50	17.00	1.50	15	.015	22	18	101	TR	NIL	TR
	17.00 18.50		656511	17.00	18.50	1.50	5	.005	19	24	114	TR	NIL	TR
	18.50 20.00		656512	18.50	20.00	1.50	57	.057	256	37	86	TR	NIL	TR
	20.00 21.50		656513	20.00	21.50	1.50	17	.017	53	27	105	TR	NIL	TR
	21.50 23.00		656514	21.50	23.00	1.50	11	.011	30	44	117	TR	NIL	TR
	23.00 23.81		656515	23.00	23.81	.81	9	.009	20	41	75	TR	NIL	TR
	23.81 51.13	Weak to moderately silicified, moderately fractured with minor brecciation, moderate sericitic banding averaging 5 mm, trace to 1/2 % disseminated pyrite with trace arsenopyrite. Moderate to strongly fractured intervals possess millimetre scale pale green intense sericite halos producing a feather-like texture.												
	23.81 26.00	Fine grained, moderate silicified, 12 cm breccia interval.	656516	23.81	26.00	2.19	139	.139	125	82	106	TR	NIL	NIL
	26.00 27.50	Weakly fractured.	656517	26.00	27.50	1.50	14	.014	26	54	133	TR	NIL	NIL
	27.50 29.00	25 cm breccia interval, moderate fractured, 1.5 cm blue grey quartz vein average 1% pyrite.	656518	27.50	29.00	1.50	21	.021	103	44	101	TR	NIL	TR
	29.00 30.50	Weakly fractured with carbonate infill.	656519	29.00	30.50	1.50	14	.014	82	43	90	TR	NIL	NIL
	30.50 32.00	Weakly fractured, very dark grey quartz vein at 55 degrees to the core axis at 31.75 metres with very fine grained disseminated pyrite and arsenopyrite, dark grey quartz - carbonate vein at 45 degrees to the core axis with 1% pyrite, an arsenopyrite cubic crystal 1.5 mm wide occurs in the rock matrix adjacent to the quartz - carbonate vein.	656520	30.50	32.00	1.50	25	.025	57	29	111	TR	NIL	TR
	32.00 33.50	Locally intensely fractured with millimetre scale sericite halo.	656521	32.00	33.50	1.50	9	.009	22	37	131	TR	NIL	NIL
	33.50 35.00	3 mm wide carbonate veinlet at 33.85 metres.	656522	33.50	35.00	1.50	2	.002	14	51	155	TR	NIL	NIL
	35.00 36.50		656523	35.00	36.50	1.50	13	.013	55	38	110	TR	NIL	NIL
	36.50 38.00	A single rhombic arsenopyrite crystals in matrix adjacent to a grey biotite quartz - carbonate vein at 45 degrees to the core axis at 37.0 metres, a 8 mm wide quartz - carbonate vein at 10 degrees to the core axis with very fine grained disseminated pyrite.	656524	36.50	38.00	1.50	6	.006	45	100	112	TR	NIL	TR
	38.00 39.50	An 8 mm wide quartz - carbonate vein at 10 degrees to the core axis with very fine grained disseminated pyrite.	656525	38.00	39.50	1.50	12	.012	15	134	119	TR	NIL	NIL

From (m)	To (m)	Geology	Sample	From (m)	To (m)	Lngt (m)	Auav ppb	Au g/t	As ppm	Sr ppm	Ba ppm	Py %	Cpy %	Aspy %
	71.00 73.50	Core becomes vuggy and blocky with a well developed breccia, breccia matrix is graphitic.	656547	71.00	73.50	2.50	8	.008	60	21	91	TR	NIL	NIL
	73.50 74.00	Blocky core, strongly fractured, minor carbonate veinlets, tight fault with minor fault gouge at 72.9 metres at 65 degrees to the core axis.	656548	73.50	74.00	.50	17	.017	44	19	99	TR	NIL	NIL
	74.00 76.50	Numerous carbonate veinlets, 3 per m, fine grained cubic pyrite within the veins.	656549	74.00	76.50	2.50	8	.008	46	20	119	1%	NIL	NIL
	76.50 77.00	Minor irregular carbonate veinlets, 2 to 3 mm wide with waxy grey silicification halos, very fine grained disseminated pyrite and arsenopyrite.	656550	76.50	77.00	.50	20	.020	26	30	110	TR	NIL	TR
	77.00 78.00	Very fine grained disseminated pyrite and arsenopyrite, a 2 cm wide carbonate filled fracture crosscutting a boudinaged 2 mm wide pale grey quartz vein.	656551	77.00	78.00	1.00	9	.009	56	26	111	TR	NIL	TR
	78.00 79.03	Very fine grained disseminated pyrite and fine grained rhombic arsenopyrite within matrix.	656552	78.00	79.03	1.03	16	.016	101	31	107	TR	NIL	TR
79.03	142.44	MAFIC TUFF Fine grained Ash to Reworked Tuff. Fine grained, dark grey brown, weak to strongly foliated, moderately fractured, foliation at 70 degrees to the core axis, relatively undeformed and unaltered sections possess minor .5 to 1 mm subhedral feldspar and possibly chloritic shards or lapilli.												
	79.03 84.43	Strongly foliated and silicified with numerous millimetre scale blue grey quartz - carbonate veins, veinlets are boudinaged and folded, moderate to strongly fractured throughout with quartz - carbonate infilling, 3 to 4% disseminated arsenopyrite, pyrrhotite and pyrite with locally trace chalcopyrite, locally the core is blocky. Average magnetic susceptibility is 0.4. RQD indice of 25. At 81.0 metres a silicified insitu breccia with 1% disseminated arsenopyrite. An 11 cm wide fault gouge at 84.15 metres.												
	79.03 80.50	Strongly folded and BOUDINaged quartz - carbonate veins, euhedral arsenopyrite within rock matrix, trace to .5% po/py respectively disseminated both in the veinlets and matrix.	656553	79.03	80.50	1.47	817	.817	6166	91	77	.5%	.5%	1%
	80.50 82.00	Dark blue grey quartz vein with 2-3% euhedral arsenopyrite at 80.5 metres, locally 1% arsenopyrite, 0.5 to 1% disseminated pyrrhotite and pyrite occur throughout with locally irregular blebby fracture filling and replacement adjacent to fractures, trace chalcopyrite occurs with the more blebby py/po, a 6 mm wide quartz - carbonate vein with 1% pyrite occurs at 81.8.	656554	80.50	82.00	1.50	616	.616	2715	43	72	.5%	1%	1.5%
	82.00 83.50	Locally fine grained disseminated sulphides, carbonate cemented fault breccia at 83.4 metres with millimetre scale stringers of pyrite.	656555	82.00	83.50	1.50	391	.391	901	15	55	1%	.5%	1%
	83.50 84.43	Fine grained disseminated arsenopyrite throughout with 1 to 2% euhedral arsenopyrite about minor blue grey quartz vein at 85 degrees to the core axis and adjacent to fault gouge at 84.15 metres.	656556	83.50	84.43	.93	519	.519	3500	37	16	.5%	.5%	1%
	84.43 86.00	Fine grained disseminated pyrite and pyrrhotite throughout with the pyrrhotite in greater concentration in fine discontinuous biotite rich 1 to 2 mm wide, minor carbonate veining and fracture filling.	656557	84.43	86.00	1.57	30	.030	80	19	86	.5%	1%	TR
	86.00 87.50	Minor carbonate veining and fracture filling.	656558	86.00	87.50	1.50	37	.037	52	18	60	TR	TR	NIL
	87.50 89.00	Minor carbonate veining and fracture filling.	656559	87.50	89.00	1.50	3	.003	39	22	122	TR	TR	NIL
	89.00 90.50	Minor carbonate veining and fracture filling.	656560	89.00	90.50	1.50	3	.003	17	55	126	TR	TR	NIL
	90.50 92.00	Foliation is contorted, moderate to strong sericite alteration about a 4 mm wide quartz - carbonate vein, pyrite occurs as minor disseminated and blebs along fracture, very fine grained disseminated arsenopyrite occurs on the periphery of the pyrite halo, locally	656561	90.50	92.00	1.50	8	.008	36	62	19	1%	TR	TR

From (m)	To (m)	Geology	Sample	From (m)	To (m)	Lngr (m)	Auav ppb	Au g/t	As ppm	Sr ppm	Ba ppm	Py %	Cpy %	Aspy %
		brecciated.												
92.00	93.50	Minor folded grey quartz vein.	656562	92.00	93.50	1.50	10	.010	61	21	11	TR	TR	NIL
93.50	95.00	Diffuse quartz - carbonate vein with 1% pyrrhotite plus a 3 cm wide pyrrhotite halo with trace arsenopyrite disseminated at 94.2 metres.	656563	93.50	95.00	1.50	3	.003	94	23	9	TR	.5%	TR
95.00	96.50	Minor quartz - carbonate veinlets at 75 degrees to the core axis.	656564	95.00	96.50	1.50	3	.003	74	32	10	TR	TR	NIL
96.50	98.00	Minor quartz - carbonate veinlets at 75 degrees to the core axis.	656565	96.50	98.00	1.50	6	.006	5	32	79	TR	TR	NIL
98.00	99.50	Minor quartz - carbonate veinlets at 75 degrees to the core axis.	656566	98.00	99.50	1.50	3	.003	5	28	49	TR	TR	NIL
99.50	101.00	Minor quartz - carbonate veinlets at 75 degrees to the core axis.	656567	99.50	101.00	1.50	3	.003	5	41	28	TR	TR	NIL
101.00	102.50	A 50 cm interval with 3 to 4% combined disseminated and blebby pyrrhotite and pyrite.	656568	101.00	102.50	1.50	3	.003	5	17	41	.5%	1%	NIL
101.90	102.40	MAFIC LAPILLI TUFF, strongly foliated with boudinaged, breccia and folded white quartz veins, 1 to 2% disseminated pyrite plus 2-3% disseminated and stringer pyrrhotite.												
		Average magnetic susceptibility is 0.0. RQD indice of 75.												
102.50	104.00	Minor quartz - carbonate veinlets at 45 degrees to the core axis, 10 cm intense sericitic interval at 103.75 metres.	656569	102.50	104.00	1.50	3	.003	12	29	7	TR	NIL	NIL
104.00	105.50	Minor quartz - carbonate veinlets at 75 degrees to the core axis.	656570	104.00	105.50	1.50	16	.016	61	23	7	TR	NIL	NIL
105.50	107.00	Minor quartz - carbonate veinlets at 75 degrees to the core axis.	656571	105.50	107.00	1.50	10	.010	101	18	8	TR	NIL	NIL
107.00	108.50	Minor quartz - carbonate veinlets at 75 degrees to the core axis.	656572	107.00	108.50	1.50	8	.008	137	19	5	TR	NIL	NIL
108.50	110.00	Trace euhedral disseminated arsenopyrite.	656573	108.50	110.00	1.50	6	.006	382	30	40	TR	NIL	TR
110.00	111.50	Minor quartz - carbonate veinlets at 75 degrees to the core axis.	656574	110.00	111.50	1.50	200	.200	49	26	36	TR	NIL	NIL
111.50	113.00	Minor quartz - carbonate veinlets at 75 degrees to the core axis.	656575	111.50	113.00	1.50	146	.146	83	15	28	TR	NIL	NIL
113.00	114.50	Minor quartz - carbonate veinlets at 75 degrees to the core axis.	656576	113.00	114.50	1.50	9	.009	60	14	15	TR	NIL	NIL
114.50	116.00	A 20 cm interval at 114.63 metres with numerous 1 to 2 mm wide quartz - carbonate veinlets with a halo of 1 to 2% disseminated arsenopyrite and about 1% disseminated pyrrhotite.	656577	114.50	116.00	1.50	3	.003	320	18	25	TR	.5	.5
116.00	117.50	Minor quartz - carbonate veinlets.	656578	116.00	117.50	1.50	6	.006	32	20	13	TR	NIL	NIL
117.50	119.00	Minor quartz - carbonate veinlets.	656579	117.50	119.00	1.50	13	.013	29	21	39	TR	NIL	NIL
			656580	119.00	120.50	1.50	8	.008	22	34	17	TR	NIL	NIL
			656581	120.50	122.00	1.50	5	.005	127	17	7	TR	NIL	NIL
122.00	123.50	White quartz vein at 65 degrees to the core axis possibly at a fault.	656582	122.00	123.50	1.50	11	.011	68	19	6	TR	NIL	NIL
123.50	125.00	Minor quartz - carbonate veinlets with a halo of .5% pyrrhotite.	656583	123.50	125.00	1.50	11	.011	71	34	28	TR	TR	NIL
124.92	126.50	BIOTITE AMPHIBOLE GARNET METASEDIMENT/METATUFF unit, 2 to 3% pale red irregular garnet, 5 to 6% fine grained aphanitic in a biotite matrix.												
125.00	126.50	10 to 15 per metre 1 to 2 mm wide quartz - carbonate veinlets with disseminated pyrrhotite throughout, trace disseminated arsenopyrite about boudinaged blue grey quartz vein at 126.35 metres, 2 to 3 irregular pale red garnet, 2 to 5 mm.	656584	125.00	126.50	1.50	20	.020	217	53	50	TR	.5%	TR
126.50	128.00	Minor millimetre scale quartz - carbonate veinlets with trace disseminated pyrrhotite.	656585	126.50	128.00	1.50	3	.003	36	73	82	TR	TR	NIL
128.00	129.50	Irregular quartz - carbonate vein at 128.5 metres with .5% disseminated pyrite, 128.55 a 4 cm wide interval of tourmaline and 1% disseminated pyrite.	656586 656587	128.00 140.00	129.50 141.50	1.50 1.50	3 5	.003 .005	28 41	56 23	55 38	TR	NIL	NIL

From (m)	To (m)	Geology	Sample	From (m)	To (m)	Lngr (m)	Auav ppb	Au g/t	As ppm	Sr ppm	Ba ppm	Py %	Cpy %	Aspy %
.00	4.10	OVERBURDEN												
4.10	14.06	DIRTY GREYWACKE/REWORKED MAFIC TUFF Dark grey, fine grained, matrix composed of 30 to 40% very fine grained biotite plus locally 1 to 2% millimetre scale biotite lenses averaging 1x3 mm in size possibly representing relic shards or mafic lapilli, 20 to 30% fine grained rounded quartz, possibly 1 to 2% feldspar, trace pyrite. Foliation at 80 degrees to the core axis, lower contact marked by 1 cm wide quartz - carbonate vein at 75 degrees to the core axis. 4.10 4.90 LITHIC GREYWACKE, fine grained to medium grained, numerous intermediate and mafic lapilli, trace pyrite and arsenopyrite Average magnetic susceptibility is 0.0. RQD indice of 50. 4.10 5.50 Trace disseminated arsenopyrite in matrix.	656591 656592	4.10 12.50	5.50 14.06	1.40 1.56	3 5	.003 .005	5 25	42 36	629 457	TR TR	NIL NIL	TR NIL
14.06	87.05	GREYWACKE Fine grained to medium grained, medium to light grey with pale GY GN banding on the millimetre scale, weakly bedded, matrix composed of 40 to 50% round quartz, 30 to 40% feldspar with variable amounts of sericite, weak to moderate fracturing, foliation at 80 degrees to the core axis, lower contact is sharp and is marked by 1 cm wide blue grey quartz - carbonate vein at 85 degrees to the core axis. Weak pervasive silicification is accompanied by weak to locally moderate sericite alteration as 4 to 6 mm bands with the intensity of sericitic alteration increasing down hole to a well banded unit with moderate pervasive sericitic alteration of the matrix where the sericite can be seen wrapping around the quartz grains. 14.06 16.04 A LITHIC GREYWACKE with trace amounts of 3 to 4 mm pebbles of the previous DIRTY GREYWACKE/REWORKED MAFIC TUFF unit. 14.06 15.50 Weakly fractured, 1 cm wide blue grey quartz - carbonate vein at 75 degrees to the core axis with trace pyrite within vein, vein is adjacent to a tight slip surface. 15.50 17.00 Weakly fractured, irregular quartz - carbonate vein at 70 degrees to the core axis with trace pyrite, minor fault at 16.06 metres with a cm wide fault gouge, minor quartz - carbonate veining adjacent to fault. 16.40 28.70 Medium grained, trace pale red garnet, weak silicification throughout, weak to moderate pervasive sericitic alteration, plus weakly developed millimetre scale sericitic banding with trace to 2% disseminated arsenopyrite. Average magnetic susceptibility is 0.1. RQD indice of 70. 17.00 18.50 Minor quartz - carbonate veins with trace pyrite. 18.50 20.00 A 3 cm sericitic halo of 1 to 2% disseminated arsenopyrite about a grey irregular quartz vein at 19.60 metres. 20.00 21.50 1 to 2% disseminated arsenopyrite within a 3 cm grey irregular quartz vein at 21.0 metres. 21.50 23.00 Trace disseminated pyrite. 23.00 24.50 Trace disseminated pyrite within a grey quartz vein at 45 degrees to the core axis, trace to 1% disseminated arsenopyrite along margin of a 2 cm quartz - carbonate vein at 45 degrees to the core axis, minor pyrite coating of fractures. 24.50 26.00 Minor disseminated arsenopyrite about a grey quartz vein at 45 degrees to the core axis, locally trace disseminated pyrrhotite within matrix of unit, minor pyrite coating of fractures. 26.00 27.50 Moderate sericite alteration about a 2 mm wide grey quartz	656593 656594 656595 656596 656597 656598 656599 656600 656601	14.06 15.50 17.00 18.50 20.00 21.50 23.00 24.50 26.00 27.50	15.50 17.00 18.50 20.00 21.50 23.00 24.50 26.00 27.50	1.44 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50	7 7 21 113 337 42 88 32 28	.007 .007 .021 .113 .337 .042 .088 .032 .028	5 21 77 882 1419 36 319 267 73	14 24 28 36 21 38 24 36 29	165 187 100 99 62 101 85 93 80	TR TR TR TR TR TR TR TR TR	NIL NIL NIL NIL NIL NIL NIL NIL NIL	TR NIL NIL TR TR TR TR TR TR

From (m)	To (m)	Geology	Sample	From (m)	To (m)	Lngr (m)	Auav ppb	Au g/t	As ppm	Sr ppm	Ba ppm	Py %	Cpy %	Aspy %
27.50	29.00	vein with trace arsenopyrite. 2 to 3% disseminated acicular arsenopyrite about a grey quartz vein at 60 degrees to the core axis at 28.72 metres, upper contact has minor arsenopyrite along vein margin and in rock matrix, lower contact is marked by a 4 cm arsenopyrite halo with a near massive rim of arsenopyrite at the contact.	656602	27.50	29.00	1.50	27	.027	1851	26	112	TR	NIL	1%
28.70	29.75	Moderate pervasive sericite alteration, moderately silicified, numerous irregular folded quartz veins, 4 to 5% disseminated arsenopyrite throughout the rock matrix, particularly concentrated along at the vein/wallrock contact.												
29.00	30.50	4 to 5% disseminated arsenopyrite about grey quartz veins.	656603	29.00	30.50	1.50	98	.098	6101	19	78	TR	NIL	2%
29.75	38.39	Medium grained, weak silicification throughout, weak to moderate pervasive sericitic alteration, plus weakly developed millimetre scale sericitic banding. Average magnetic susceptibility is 0.0. RQD indice of 90.												
30.50	32.00	Trace disseminated arsenopyrite.	656604	30.50	32.00	1.50	142	.142	998	30	137	TR	NIL	TR
32.00	33.50	Trace garnet, possible DIRTY GREYWACKE/REWORKED MAFIC TUFF clast.	656605	32.00	33.50	1.50	29	.029	22	34	136	TR	NIL	NIL
33.50	35.00	Minor quartz - carbonate veins at 45 degrees to the core axis, minor pyrite coating of fractures.	656606	33.50	35.00	1.50	321	.321	917	54	79	TR	NIL	NIL
35.00	36.50	Possible sediment clast, 7 cm of quartz - carbonate veining and strong fracturing with millimetre scale intense sericite halos.	656607	35.00	36.50	1.50	15	.015	37	48	106	TR	NIL	NIL
36.50	38.00	20 cm interval of strong fracturing about millimetre scale blue grey quartz veins at 80 degrees to the core axis.	656608	36.50	38.00	1.50	6	.006	11	49	106	TR	NIL	NIL
38.00	39.50	Moderately fractured with millimetre scale sericitic halos, minor disseminated pyrite and arsenopyrite about grey quartz vein at 38.25 metres.	656609	38.00	39.50	1.50	14	.014	29	39	106	TR	NIL	TR
38.39	60.05	Weak to moderate silicification, moderate fractured with minor brecciation, moderate sericitic banding averaging 5 mm, trace to 1/2 % disseminated pyrite with trace arsenopyrite. Moderate to strongly fractured intervals possess millimetre scale pale green intense sericite halos producing a feather-like texture. Average magnetic susceptibility is 0.0. RQD indice of 70.												
39.50	41.00	Minor grey quartz veins at 45 degrees to the core axis, one such quartz veins crosscuttings a carbonate veinlet at 80 degrees to the core axis.	656610	39.50	41.00	1.50	12	.012	20	83	99	TR	NIL	NIL
41.00	42.50	Minor pyrite coating of fractures, trace disseminated arsenopyrite about blue grey quartz vein at 45 degrees to the core axis.	656611	41.00	42.50	1.50	23	.023	87	45	139	TR	NIL	TR
42.50	44.00	Minor disseminated pyrite and coating of fractures.	656612	42.50	44.00	1.50	40	.040	13	47	166	TR	NIL	NIL
44.00	45.40	Moderately sericitized, minor brecciation.	656613	44.00	45.40	1.40	6	.006	37	37	99	TR	NIL	NIL
45.50	47.00	Irregular dirty white quartz veins.	656614	45.50	47.00	1.50	45	.045	195	50	135	TR	NIL	NIL
47.00	48.50	Minor pyrite coating of fractures, minor biotite quartz - carbonate veins.	656615	47.00	48.50	1.50	27	.027	107	51	92	TR	NIL	NIL
48.50	50.00	Minor grey quartz veins at 80 degrees to the core axis.	656616	48.50	50.00	1.50	22	.022	98	53	103	TR	NIL	NIL
50.00	51.50	Minor grey quartz veins at 80 degrees to the core axis.	656617	50.00	51.50	1.50	18	.018	41	40	115	TR	NIL	NIL
51.50	53.00	Minor grey quartz veins at 80 degrees to the core axis.	656618	51.50	53.00	1.50	39	.039	135	48	135	TR	NIL	NIL
53.00	54.50	Minor grey quartz veins at 45 degrees to the core axis with trace pyrite.	656619	53.00	54.50	1.50	17	.017	33	41	129	TR	NIL	NIL
54.50	56.00	3 to 4 folded subparallel carbonate veinlets at 54.6 metres with trace disseminated pyrite, trace pyrrhotite in a dirty white quartz vein subparallel degrees to the core axis.	656620	54.50	56.00	1.50	61	.061	145	54	110	TR	TR	NIL
56.00	57.50	Minor grey quartz veins at 80 degrees to the core axis.	656621	56.00	57.50	1.50	31	.031	186	40	121	TR	NIL	NIL
57.50	59.00	Minor grey quartz veins at 80 degrees to the core axis.	656622	57.50	59.00	1.50	21	.021	44	52	121	TR	NIL	NIL
59.00	60.05	Minor white quartz veins at 80 degrees to the core axis.	656623	59.00	60.05	1.05	3	.003	14	40	134	TR	NIL	NIL

From (m)	To (m)	Geology	Sample	From (m)	To (m)	Lngr (m)	Auav ppb	Au g/t	As ppm	Sr ppm	Ba ppm	Py %	Cpy %	Aspy %
.00	3.60	OVERBURDEN												
3.60	68.26	DIRTY GREYWACKE/REWORKED MAFIC TUFF Reworked Mafic Ash Tuff with a detrital material added to the matrix. Fine grained, medium to brown grey, weakly foliated at 80 degrees to the core axis, groundmass composed of 30 to 40% very fine grained biotite, 8 to 10% fine grained subhedral feldspar, 4 to 5% subrounded quartz, 1 to 2% biotitic flattened shards with an average size of 2 to 3 mm plus trace subangular grey lapilli, unit is weakly bedded on the centimeter scale by changes in grain size - detrital component - of matrix. Unit is weak to moderately fractured and cut by millimetre scale quartz - carbonate veinlets averaging 7 per metre at 80 degrees to the core axis. Trace disseminated pyrrhotite in matrix. Average magnetic susceptibility is 0.0. RQD indice of 65.												
		5.00 6.50 A 5 cm irregular quartz - carbonate veinlet -rusty-	656669	5.00	6.50	1.50	8	.008				NIL	TR	NIL
		11.00 12.50 Centimeter scale boudinaged quartz - carbonate veinlets, 5 per metre at 80 degrees to the core axis.	656670	11.00	12.50	1.50	442	.442				NIL	TR	NIL
		22.50 24.00 As described above, moderately fractured with moderate carbonate alteration about fractures.	656671	22.50	24.00	1.50	10	.010				NIL	TR	NIL
		33.50 35.00 1 boudinaged grey quartz vein with 1 cm silicification halo	656672	33.50	35.00	1.50	3	.003				TR	NIL	NIL
		35.00 36.50 Minor quartz - carbonate veinlets at 80 degrees to the core axis, 2 per metre.	656673	35.00	36.50	1.50	14	.014				TR	NIL	NIL
		36.50 38.00 As described above.	656674	36.50	38.00	1.50	15	.015				TR	NIL	NIL
		38.00 39.50 As described above.	656675	38.00	39.50	1.50	12	.012				TR	NIL	NIL
		39.50 41.00 As described above.	656676	39.50	41.00	1.50	21	.021				TR	NIL	NIL
		41.00 42.50 Weakly fractured, as described above.	656677	41.00	42.50	1.50	8	.008				TR	NIL	NIL
		42.50 44.00 As described above, final 5 cm contains coarser matrix with 2 to 3% mafic clast and 1 to 2% pyrite.	656678	42.50	44.00	1.50	107	.107				.5%	NIL	NIL
		44.00 45.50 Minor quartz - carbonate veinlets at 80 degrees to the core axis, 2 per metre.	656679	44.00	45.50	1.50	79	.079				TR	NIL	NIL
		45.50 47.00 As described above.	656680	45.50	47.00	1.50	113	.113				TR	NIL	NIL
		47.00 48.50 As described above.	656681	47.00	48.50	1.50	11	.011				TR	NIL	NIL
		48.50 50.00 Moderately fractured.	656682	48.50	50.00	1.50	23	.023				TR	NIL	NIL
		50.00 56.00 Unit is moderately fractured with 5 to 15 cm wide bands of moderate to strong silicification.												
		50.00 51.50 Moderate to strongly foliated, 1 to 2 cm wide blue grey silicification of matrix.	656683	50.00	51.50	1.50	7	.007				TR	NIL	NIL
		51.50 53.00 As described above.	656884	51.50	53.00	1.50						TR	NIL	NIL
		53.00 54.50 As described above.	656685	53.00	54.50	1.50	6	.006				TR	NIL	NIL
		54.50 56.00 A 1 cm wide boudinaged grey quartz vein at 80 degrees to the core axis.	656686	54.50	56.00	1.50	3	.003				TR	NIL	NIL
		56.00 57.50 Minor quartz - carbonate veinlets at 80 degrees to the core axis.	656687	56.00	57.50	1.50	3	.003				TR	NIL	NIL
		57.50 59.00 As described above.	656688	57.50	59.00	1.50	8	.008				TR	NIL	NIL
		59.00 60.50 As described above.	656689	59.00	60.50	1.50	7	.007				TR	NIL	NIL
		60.50 62.00 As described above.	656690	60.50	62.00	1.50	6	.006				TR	NIL	NIL
		61.32 68.26 Moderately silicified throughout, matrix becomes coarser due to a greater amount of quartz and feldspar, amounts vary producing a fine bedding. Locally moderately fractured with numerous slip surfaces on core ends, 2 kink bands at 65 metres at 30 degrees to the core axis, blocky core and blue grey quartz veins at and.												
		62.00 63.50 As described above, weak to moderately fractured.	656691	62.00	63.50	1.50	3	.003				TR	TR	NIL
		63.50 65.00 Moderate pervasive silicification, moderately fractured with numerous slip surfaces on core ends.	656692	63.50	65.00	1.50	3	.003				TR	TR	NIL
		65.00 66.00 20 cm interval within fault zone of blue grey quartz veins in a biotitic matrix and 2 to 3% disseminated arsenopyrite, no carbonate, silicified.	656693	65.00	66.00	1.00	9	.009				TR	TR	.5%

From (m)	To (m)	Geology	Sample	From (m)	To (m)	Lngr (m)	Auav ppb	Au g/t	As ppm	Sr ppm	Ba ppm	Py %	Cpy %	Aspy %
	66.00 67.50	Minor grey quartz - carbonate veinlets, weak to moderately fractured.	656694	66.00	67.50	1.50	184	.184				TR	TR	NIL
	66.50	Metres with 2 to 3% arsenopyrite over a 20 cm interval.												
	67.50 68.26	Weak pervasive sericitization, minor grey quartz vein at 80 degrees to the core axis and as irregular veins.	656695	67.50	68.26	.76	15	.015				TR	NIL	NIL
68.26	166.61	GREYWACKE Fine grained to medium grained, light to medium grey, weakly bedded, matrix is composed of of 30 to 40% and 40 to 50% feldspar plus 10 to 12% fine grained biotite, weak pervasive sericite alteration of feldspar with moderate sericite alteration as 2 to 8 mm wide bands, upper contact is gradational over a 10 cm interval, locally pebble size clasts of previous DIRTY GREYWACKE/REWORKED MAFIC TUFF unit.	656696	68.26	69.50	1.24	26	.026						
	82.21 104.32	Well banded by moderate to stringer sericite alteration, numerous millimetre scale grey quartz vein at 80 degrees to the core axis, average 2 per metre, sericite alteration peaks at 97 metres with a 50 cm interval of intense blue grey quartz veining with strong to intense sericite alteration of the matrix.												
	82.21 84.50	3 to 5 mm wide grey quartz veins at 80 degrees to the core axis with trace disseminated pyrite, arsenopyrite and chalcopyrite, 4 per metre.	656697	82.21	84.50	2.29	61	.061				TR	NIL	TR
	84.50 86.00	Moderately fractured with trace pyrrhotite along fractures.	656698	84.50	86.00	1.50	356	.356				TR	TR	NIL
	96.00 97.50	Moderate to strongly sericitized, strongly silicified, pale gn due to strong sericite alteration of matrix, alteration centered about a 50 cm interval of 1 to 2 cm wide irregular grey quartz veins at 80 degrees to the core axis, 1 to 2 fine grained disseminated pyrite and arsenopyrite within matrix wallrock.	656699	96.00	97.50	1.50	202	.202				.5%	NIL	.5%
	97.50 99.00	2 cm wide dark quartz vein at 80 degrees to the core axis.	656700	97.50	99.00	1.50	687	.687				TR	NIL	NIL
	99.00 100.50	2 cm wide dark quartz vein at 80 degrees to the core axis, matrix brecciated about vein.	656701	99.00	100.50	1.50	174	.174				TR	NIL	NIL
	100.50 102.00	Moderately fractured.	656702	100.50	102.00	1.50	32	.032				TR	NIL	NIL
	102.00 103.50	Moderately fractured, 1 cm wide grey quartz vein at 20 degrees to the core axis.	656703	102.00	103.50	1.50	20	.020				TR	NIL	NIL
	104.32 159.70	Weak to moderate sericite alteration, minor 10 to 20 cm intervals of moderately fractured rock with strong sericite alteration.												
	125.00 126.50	Minor fracture coating by pyrite, 5 mm quartz - carbonate vein at 5 degrees to the core axis.	656704	125.00	126.50	1.50	8	.008				TR	NIL	NIL
	126.50 128.00	A 50 cm interval of intense fragment with strong sericitization.	656705	126.50	128.00	1.50	12	.012				TR	NIL	NIL
	128.00 129.50	1 cm wide quartz - carbonate vein with a 1 cm wide carbonate halo.	656706	128.00	129.50	1.50	51	.051				TR	NIL	NIL
	131.00 132.50	Minor 2 to 5 mm wide quartz - carbonate veinlets at 80 degrees to the core axis.	656707	129.50	131.00	1.50	11	.011				TR	NIL	NIL
	132.50 134.00	As described above.	656708	131.00	132.50	1.50	16	.016				TR	NIL	NIL
	134.00 135.50	A 30 cm interval with 3 to 8 mm wide silicification bands with a halo of 2 to 3% disseminated arsenopyrite.	656709	132.50	134.00	1.50	47	.047				TR	NIL	NIL
	135.50 137.00	A 1 metre interval of intense sericitization and brecciation centered about a tight fault, alteration halo contains trace to 1% very fine grained disseminated pyrite and arsenopyrite.	656710	134.00	135.50	1.50	489	.489				TR	NIL	1%
	137.00 138.50	A 30 cm interval of strong to intense silicification and brecciation, 1 to 2% disseminated arsenopyrite.	656711	135.50	137.00	1.50	29	.029				TR	NIL	TR
	138.50 140.00	Minor boudinaged grey quartz veins at 80 degrees to the core axis with trace very fine grained disseminated arsenopyrite.	656712	137.00	138.50	1.50	28	.028				TR	NIL	TR
	140.00 141.50	Fault at 140.66 metres, 2 to 3 mm wide grey quartz veins adjacent to fault, a 6 cm wide halo of trace to 1% fine grained disseminated arsenopyrite and pyrite.	656713	138.50	140.00	1.50	24	.024				TR	NIL	TR
	141.50 143.00	Moderately fractured, minor 1 to 2 mm wide grey quartz vein at 80 degrees to the core axis.	656714	140.00	141.50	1.50	13	.013				TR	NIL	TR
			656715	141.50	143.00	1.50	10	.010				TR	NIL	NIL

From (m)	To (m)	Geology	Sample	From (m)	To (m)	Lngr (m)	Auav ppb	Au g/t	As ppm	Sr ppm	Ba ppm	Py %	Cpy %	Aspy %	
	143.00	144.50	As described above, trace to .5% pyrite in grey quartz veins along wallrock margin.	656716	143.00	144.50	1.50	3	.003			TR	NIL	NIL	
	144.50	146.00	As described above, trace to .5% pyrite in grey quartz veins along wallrock margin.	656717	144.50	146.00	1.50	16	.016			TR	NIL	NIL	
	146.00	147.50	A 1.5 cm wide irregular grey quartz vein with trace to 1% fine grained disseminated arsenopyrite halo.	656718	146.00	147.50	1.50	56	.056			TR	NIL	TR	
	147.50	149.00	Minor banding, no veining.	656719	147.50	149.00	1.50	7	.007			TR	NIL	NIL	
	149.00	150.50	A 1.5 cm wide irregular grey quartz vein with trace to 1% fine grained disseminated arsenopyrite halo.	656720	149.00	150.50	1.50	575	.575			TR	NIL	TR	
	150.50	152.00	Minor banding, no veining.	656721	150.50	152.00	1.50	3	.003			TR	NIL	NIL	
	152.00	153.50	Moderately fractured and sericitized in 2 to 3 cm intervals, fine grained disseminated arsenopyrite about 5 to 10 mm wide grey quartz veins.	656722	152.00	153.50	1.50	72	.072			TR	NIL	1%	
	153.50	155.00	Moderately fractured throughout with millimetre scale strong sericite halo about fractures.	656723	153.50	155.00	1.50	3	.003			TR	NIL	NIL	
	155.00	156.50	A 2 cm wide grey quartz vein at 45 degrees to the core axis with a 4 cm halo of very fine grained disseminated arsenopyrite, 25 cm wide intense brecciated and sericitized interval with very fine grained disseminated arsenopyrite.	656724	155.00	156.50	1.50	8	.008			TR	NIL	.5%	
	156.50	158.00	2 to 3 cm wide light grey quartz veins, one quartz vein occurs at a fault with a 5 mm wide fault gouge at 80 degrees to the core axis, trace arsenopyrite about faulted quartz vein.	656725	156.50	158.00	1.50	6	.006			TR	NIL	TR	
	158.00	159.70	Minor irregular quartz veins.	656726	158.00	159.70	1.70	6	.006			TR	NIL	NIL	
	159.70	166.61	Weak sericite alteration, weakly fractured, unit seems to become finer with an increase in the biotite content of the matrix.												
166.61	198.20	DIRTY GREYWACKE/REWORKED MAFIC TUFF Similar unit at start of the hole. Reworked mafic Ash Tuff with a detrital material added to the matrix. Fine grained, medium to brown grey, moderately fractured throughout, weakly foliated at 80 degrees to the core axis, groundmass composed of 30 to 40% very fine grained biotite, 5 to 6% fine grained subhedral feldspar, 2 to 3% subrounded quartz, 1 to 2% biotitic flattened lapilli with an average size IRON FORMATION 4 to 5 mm, unit is weakly bedded on the centimeter scale by changes in grain size - detrital component - of matrix, upper contact is faulted at 85 degrees to the core axis. Unit is cut by millimetre scale grey quartz - carbonate veinlets 2 to 5 mm wide, averaging 7 per metre at 80 degrees to the core axis, minor 1 to 4 cm wide white quartz veins at 45 degrees to the core axis.													
	171.50	173.00	Minor irregular quartz veining and fractures.	656727	171.50	173.00	1.50	5	.005			TR	NIL	NIL	
	173.00	174.50	Minor irregular quartz veins.	656728	173.00	174.50	1.50	34	.034			TR	NIL	NIL	
	174.50	176.00	As described above.	656729	174.50	176.00	1.50	15	.015			TR	NIL	NIL	
	176.00	177.50	2 cm wide grey quartz vein at 10 degrees to the core axis	656730	176.00	177.50	1.50	15	.015			TR	NIL	NIL	
	177.50	179.00	5 to 8 mm wide quartz veins at 80 degrees to the core axis with 4 to 12 mm wide halos of 1 to 2% arsenopyrite.	656731	177.50	179.00	1.50	22	.022			TR	NIL	TR	
	179.00	180.50	As described above.	656732	179.00	180.50	1.50	6	.006			TR	NIL	TR	
	180.50	182.00	As described above.	656733	180.50	182.00	1.50	8	.008			TR	NIL	TR	
	182.00	183.50	As described above.	656734	182.00	183.50	1.50	41	.041			TR	NIL	TR	
	183.50	185.00	As described above.	656735	183.50	185.00	1.50	11	.011			TR	NIL	TR	
				656736	185.00	186.50	1.50	11	.011			TR	NIL	NIL	
	186.50	188.00	Minor irregular grey quartz vein at 80 degrees to the core axis, weakly fractured.	656737	186.50	188.00	1.50	13	.013			TR	TR	TR	
	188.00	189.50	4 cm wide grey quartz vein with very fine grained disseminated arsenopyrite.	656738	188.00	189.50	1.50	12	.012			TR	NIL	TR	
198.20	200.00	BIOTITE AMPHIBOLE GARNET METASEDIMENT/METATUFF Fine grained, green, moderately foliated, well banded by millimetre scale carbonate veinlets, matrix contains 15 to 20% fine grained amphibole and trace irregular pale red garnet, weak pervasive													

APPENDIX 2 - Assay Certificates

1322-B rue Harricana
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Fax: (819) 825-0256



Inchcape Testing Services

Chimitec Ltée

CERTIFICAT
D'ANALYSE

REPORT: C97-60624.0 (COMPLETE)

REFERENCE: SHIP-4

CLIENT: CYPRUS CANADA INC.

SUBMITTED BY: DAVID STEVENSON

PROJECT: 5007

DATE PRINTED: 27-MAR-97

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	AU30 GOLD FIRE ASSAY-AA	55	5 PPB	Fire Assay of 30g	30g Fire Assay - AA

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
DRILL CORE	55	-150	55	CRUSH/SPLIT & PULV.	55

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CLIENT: CYPRUS CANADA INC.
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PROJECT: 5007
 DATE PRINTED: 27-MAR-97 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
656189		<5	656229		<5
656190		<5	656230		<5
656191		<5	656231		<5
656192		<5	656232		<5
656193		<5	656233		<5
656194		6	656234		<5
656195		<5	656235		<5
656196		12	656236		<5
656197		7	656237		<5
656198		<5	656238		<5
656199		<5	656239		<5
656200		<5	656240		<5
656201		<5	656241		<5
656202		<5	656242		8
656203		<5	656243		<5
656204		<5			
656205		<5			
656206		<5			
656207		<5			
656208		<5			
656209		<5			
656210		<5			
656211		<5			
656212		31			
656213		<5			
656214		<5			
656215		<5			
656216		<5			
656217		<5			
656218		<5			
656219		<5			
656220		<5			
656221		<5			
656222		<5			
656223		<5			
656224		<5			
656225		<5			
656226		<5			
656227		<5			
656228		<5			

SK97-03

SK97-01

SK97-02

SK97-03

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PROJECT: 5007
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STANDARD NAME	ELEMENT UNITS	AU30 PPB	STANDARD NAME	ELEMENT UNITS	AU30 PPB
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ANALYTICAL BLANK		<5			
ANALYTICAL BLANK		<5			
ANALYTICAL BLANK		<5			
Number of Analyses		3			
Mean Value		2.5			

Standard Deviation		0.00			
Accepted Value		5			

CERT. AU STANDARD		8287			
Number of Analyses		1			
Mean Value		8287.4			
Standard Deviation		-			
Accepted Value		8560			

Gold Tailings		264			
Number of Analyses		1			
Mean Value		263.8			
Standard Deviation		-			
Accepted Value		263			

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REPORT: C97-60624.0 (COMPLETE)

PROJECT: 5007
DATE PRINTED: 27-MAR-97 PAGE 3

SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
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SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
------------------	------------------	-------------

656193		<5
Duplicate		<5

656215		<5
Duplicate		<5

656237		<5
Duplicate		<5

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REPORT: C97-60707.0 (COMPLETE)

REFERENCE: SHIP-5

CLIENT: CYPRUS CANADA INC.

SUBMITTED BY: DAVID STEVENSON

PROJECT: 5007

DATE PRINTED: 9-APR-97

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	AU30 GOLD FIRE ASSAY-AA	43	5 PPB	Fire Assay of 30g	30g Fire Assay - AA
2	AuGrav Gold (Grav.)	1	0.17 G/T	FIRE ASSAY	FIRE ASSAY

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
DRILL CORE	43	-150	43	CRUSH/SPLIT & PULV.	43

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PROJECT: 5007

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DATE PRINTED: 9-APR-97

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SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	AuGrav G/T	SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	AuGrav G/T
656244		172		656291		<5	
656245		46		656292		<5	SIC97-05
656246		36		656293		<5	
656247		21					
656248		1172	1.61				
656249		20					
656250		19					
656251		47					
656252		34					
656253		18					
656254		55					
656255		37					
656256		25					
656257		16					
656258		42					
656259		40					
656260		38					
656261		34					
656262		14					
656270		11					SIC97-04
656271		28					
656272		<5					
656273		<5					
656274		<5					
656275		<5					
656276		6					
656277		<5					
656278		<5					
656279		7					SIC97-05
656280		<5					
656281		<5					
656282		<5					
656283		<5					
656284		<5					
656285		<5					
656286		<5					
656287		<5					
656288		<5					
656289		<5					
656290		<5					

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STANDARD NAME	ELEMENT UNITS	AU30 PPB	AuGrav G/T	STANDARD NAME	ELEMENT UNITS	AU30 PPB	AuGrav G/T
ANALYTICAL BLANK		<5	-				
ANALYTICAL BLANK		<5	-				
Number of Analyses		2	-				
Mean Value		2.5	-				
Standard Deviation		0.00	-				

Accepted Value 5 <0.01

CANMET CH-3		1463	-
Number of Analyses		1	-
Mean Value		1463.0	-
Standard Deviation		-	-
Accepted Value		1400	-

CERT. AU STANDARD		8623	-
Number of Analyses		1	-
Mean Value		8623.1	-
Standard Deviation		-	-
Accepted Value		8560	8.57

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DATE PRINTED: 9-APR-97 PAGE 3

SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	AuGrav G/T	SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	AuGrav G/T
656251		47					
Duplicate		47					
656280		<5					
Duplicate		<5					

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REFERENCE: -

CLIENT: CYPRUS CANADA INC.
PROJECT: 5007

SUBMITTED BY: DAVID STEVENSON
DATE PRINTED: 7-APR-97

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	AU30 GOLD FIRE ASSAY-AA	46	5 PPB	Fire Assay of 30g	30g Fire Assay - AA

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
DRILL CORE	46	-150	46	CRUSH/SPLIT & PULV.	46

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SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
656294		<5	656334		<5
656295		<5	656335		<5
656296		<5	656336		<5
656297		<5	656337		<5
656298		<5	656338		<5
656299		<5	656339		<5
656300		<5			
656301		<5			
656302		<5			
656303		<5			
656304		<5			
656305		<5			
656306		<5			
656307		<5			
656308		<5			
656309		<5			
656310		<5			
656311		<5			
656312		<5			
656313		<5			
656314		<5			
656315		<5			
656316		<5			
656317		<5			
656318		<5			
656319		<5			
656320		<5			
656321		<5			
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656325		<5			
656326		<5			
656327		<5			
656328		<5			
656329		<5			
656330		<5			
656331		<5			
656332		<5			
656333		<5			

5007-05

5007-05

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CLIENT: CYPRUS CANADA INC.
REPORT: C97-60708.0 (COMPLETE)

PROJECT: 5007
DATE PRINTED: 7-APR-97 PAGE 2

STANDARD NAME	ELEMENT UNITS	AU30 PPB
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STANDARD NAME	ELEMENT UNITS	AU30 PPB
------------------	------------------	-------------

ANALYTICAL BLANK		<5
ANALYTICAL BLANK		<5
Number of Analyses		2
Mean Value		2.5
Standard Deviation		0.00

Accepted Value		5
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CERT. AU STANDARD		8614
Number of Analyses		1
Mean Value		8614.0
Standard Deviation		-
Accepted Value		8560

Gold Tailings		250
Number of Analyses		1
Mean Value		250.0
Standard Deviation		-
Accepted Value		263

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D'ANALYSE

CLIENT: CYPRUS CANADA INC.
REPORT: C97-60708.0 (COMPLETE)

PROJECT: 5007
DATE PRINTED: 7-APR-97 PAGE 3

SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
656302		<5			
Duplicate		<5			
656324		<5			
Duplicate		<5			

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CERTIFICAT
D'ANALYSE

REPORT: C97-60747.0 (COMPLETE)

REFERENCE: -

CLIENT: CYPRUS CANADA INC.

SUBMITTED BY: DAVID STEVENSON

PROJECT: 5007

DATE PRINTED: 9-APR-97

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD	
1	AU30	GOLD FIRE ASSAY-AA	40	5 PPB	Fire Assay of 30g	30g Fire Assay - AA

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
DRILL CORE	40	-150	40	CRUSH/SPLIT & PULV.	40

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Mr. Bergen



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CLIENT: CYPRUS CANADA INC.
REPORT: C97-60747.0 (COMPLETE)

PROJECT: 5007
DATE PRINTED: 9-APR-97 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
------------------	------------------	-------------

656340		<5
656341		<5
656342		<5
656343		<5
656344		<5

656345		<5
656346		<5
656347		<5
656348		<5
656349		<5

656350		20
656351		14
656352		<5
656353		<5
656354		12

656355		49
656356		7
656357		<5
656358		7
656359		<5

656360		<5
656361		<5
656362		<5
656363		<5
656364		<5

656365		5
656366		<5
656367		<5
656368		<5
656369		<5

656370		<5
656371		<5
656372		<5
656373		36
656374		<5

SKG 06

656375		<5
656376		<5
656377		<5
656378		<5
656379		<5

Mr. Benz



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CLIENT: CYPRUS CANADA INC.
REPORT: C97-60747.0 (COMPLETE)

PROJECT: 5007
DATE PRINTED: 9-APR-97 PAGE 2

STANDARD NAME	ELEMENT UNITS	AU30 PPB
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ANALYTICAL BLANK		<5
ANALYTICAL BLANK		<5
Number of Analyses		2
Mean Value		2.5
Standard Deviation		0.00

Accepted Value		5
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CANMET CH-3		1356
Number of Analyses		1
Mean Value		1355.8
Standard Deviation		-
Accepted Value		1400

CERT. AU STANDARD		8399
Number of Analyses		1
Mean Value		8398.7
Standard Deviation		-
Accepted Value		8560

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REPORT: C97-60747.0 (COMPLETE)

PROJECT: 5007
DATE PRINTED: 9-APR-97 PAGE 3

SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
656347		<5
Duplicate		<5
656369		<5
Duplicate		<5

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D'ANALYSE

REPORT: C97-60706.0 (COMPLETE)

REFERENCE: SHIP-5

CLIENT: CYPRUS CANADA INC.

SUBMITTED BY: DAVID STEVENSON

PROJECT: 5007

DATE PRINTED: 4-APR-97

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	AU30 GOLD FIRE ASSAY-AA	7	5 PPB	Fire Assay of 30g	30g Fire Assay - AA
2	AuGrav Gold (Grav.)	4	0.17 G/T	FIRE ASSAY	FIRE ASSAY

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
DRILL CORE	7	-150	7	CRUSH/SPLIT & PULV.	7

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CLIENT: CYPRUS CANADA INC.
REPORT: C97-60706.0 (COMPLETE)

PROJECT: 5007
DATE PRINTED: 4-APR-97 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	AuGrav G/T	
656263		49		
656264		1963	2.57	
656265		2085	2.85	SK-97-04
656266		1266	2.33	
656267		3886	4.39	

656268		784		
656269		139		

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REPORT: C97-60706.2 (COMPLETE)

REFERENCE: SHIP-5

CLIENT: CYPRUS CANADA INC.

SUBMITTED BY: DAVID STEVENSON

PROJECT: 5007

DATE PRINTED: 4-APR-97

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au30 Gold	7	5 PPB	Fire Assay of 30g	30g Fire Assay - AA
2	AuGrav Gold (Grav.)	4	0.17 G/T	FIRE ASSAY	FIRE ASSAY

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
DRILL CORE	7	-150	7	PULVERIZATION	7

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REPORT: C97-60706.2 (COMPLETE)

PROJECT: 5007
DATE PRINTED: 4-APR-97 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	AuGrav G/T	
656263		44		
656264		2131	1.95	
656265		2135	1.82	
656266		1152	0.89	SK97-04
656267		4044	3.33	

656268		575		
656269		137		

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REPORT: C97-60706.2 (COMPLETE)

PROJECT: 5007
DATE PRINTED: 4-APR-97 PAGE 2

SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	AuGrav G/T
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656269		137	
Duplicate		142	

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REPORT: C97-60813.0 (COMPLETE)

REFERENCE: SHIP-6

CLIENT: CYPRUS CANADA INC.
PROJECT: 5007

SUBMITTED BY: DAVID STEVENSON
DATE PRINTED: 17-APR-97

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	AU30 GOLD FIRE ASSAY-AA	50	5 PPB	Fire Assay of 30g	30g Fire Assay - AA

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
DRILL CORE	50	-150	50	CRUSH/SPLIT & PULV.	50

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D'ANALYSE

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REPORT: C97-60813.0 (COMPLETE)

PROJECT: 5007
DATE PRINTED: 17-APR-97 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
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SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
------------------	------------------	-------------

656418		<5
656419		<5
656420		15
656421		<5
656422		15

656458		61
656459		<5
656460		<5
656461		<5
656462		<5

656423		71
656424		109
656425		83
656426		85
656427		24

656463		<5
656464		7
656465		44
656466		36
656467		42

656428		50
656429		21
656430		23
656431		19
656432		9

656433		6
656434		123
656435		141
656436		44
656437		8

656438		<5
656439		<5
656440		<5
656441		7
656442		5

656443		14
656444		<5
656445		10
656446		12
656447		13

656448		6
656449		<5
656450		<5
656451		6
656452		<5

656453		37
656454		<5
656455		<5
656456		<5
656457		<5

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REPORT: C97-60813.0 (COMPLETE)

PROJECT: 5007
DATE PRINTED: 17-APR-97 PAGE 2

STANDARD	ELEMENT	AU30
NAME	UNITS	PPB

STANDARD	ELEMENT	AU30
NAME	UNITS	PPB

ANALYTICAL BLANK		<5
ANALYTICAL BLANK		<5
ANALYTICAL BLANK		<5
Number of Analyses		3
Mean Value		2.5

Standard Deviation		0.00
Accepted Value		5

Gold Tailings		272
Gold Tailings		256
Number of Analyses		2
Mean Value		264.0
Standard Deviation		11.31

Accepted Value		263
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CANMET CH-3		1389
Number of Analyses		1
Mean Value		1389.0
Standard Deviation		-
Accepted Value		1400

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CLIENT: CYPRUS CANADA INC.

PROJECT: 5007

REPORT: C97-60813.0 (COMPLETE)

DATE PRINTED: 17-APR-97

PAGE 3

SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
------------------	------------------	-------------

SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
------------------	------------------	-------------

656421		<5
Duplicate		6

656443		14
Duplicate		7

656465		44
Duplicate		40

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D'ANALYSE

REPORT: C97-60814.0 (COMPLETE)

REFERENCE: SHIP-6

CLIENT: CYPRUS CANADA INC.

SUBMITTED BY: DAVID STEVENSON

PROJECT: 5007

DATE PRINTED: 15-APR-97

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	AU30 GOLD FIRE ASSAY-AA	35	5 PPB	Fire Assay of 30g	30g Fire Assay - AA

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
DRILL CORE	35	-150	35	CRUSH/SPLIT & PULV.	35

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INVOICE TO: MR. DAVID B. STEVENSON

Mr. Berger

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CLIENT: CYPRUS CANADA INC.

PROJECT: 5007

REPORT: C97-60814.0 (COMPLETE)

DATE PRINTED: 15-APR-97

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	AJ30 PPB
------------------	------------------	-------------

656468		132
656469		13
656470		33
656471		24
656472		18

656473		29
656474		35
656475		11
656476		36
656477		<5

656478		14
656479		69
656480		<5
656481		28
656482		5

656483		20
656484		<5
656485		7
656486		691
656487		35

51077-08

656488		66
656489		8
656490		<5
656491		<5
656492		<5

656493		<5
656494		<5
656495		<5
656496		<5
656497		<5

656498		43
656499		<5
656500		<5
656501		<5
656502		<5

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REPORT: C97-60814.0 (COMPLETE)

PROJECT: 5007
DATE PRINTED: 15-APR-97 PAGE 2

STANDARD NAME	ELEMENT UNITS	AU30 PPB
------------------	------------------	-------------

ANALYTICAL BLANK		<5
ANALYTICAL BLANK		<5
Number of Analyses		2
Mean Value		2.5
Standard Deviation		0.00

Accepted Value		5
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CANMET CH-3		1346
Number of Analyses		1
Mean Value		1346.0
Standard Deviation		-
Accepted Value		1400

Gold Tailings		244
Number of Analyses		1
Mean Value		244.0
Standard Deviation		-
Accepted Value		263

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REPORT: C97-60814.0 (COMPLETE)

PROJECT: 5007
DATE PRINTED: 15-APR-97 PAGE 3

SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
------------------	------------------	-------------

656472		18
Duplicate		6

656494		<5
Duplicate		<5



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MAY 23 1997

REPORT: C97-60847.0 (COMPLETE)

REFERENCE: SHIP-7

CLIENT: CYPRUS CANADA INC.
PROJECT: 5007

SUBMITTED BY: DAVID STEVENSON
DATE PRINTED: 21-APR-97

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	AU30 GOLD FIRE ASSAY-AA	43	5 PPB	Fire Assay of 30g	30g Fire Assay - AA
2	AuGrav Gold (Grav.)	1	0.17 G/T	FIRE ASSAY	FIRE ASSAY

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
DRILL CORE	43	-150	43	CRUSH/SPLIT & PULV.	43

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CLIENT: CYPRUS CANADA INC.
REPORT: C97-60847.0 (COMPLETE)

PROJECT: 5007
DATE PRINTED: 21-APR-97 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	AuGrav G/T	SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	AuGrav G/T
656503		248		656543		71	
656504		1116	1.37	656544		18	
656505		108		656545		17	
656506		112					
656507		180					
656508		27					
656509		17					
656510		17					
656511		5					
656512		52					
656513		17					
656514		11					
656515		9					
656516		139					
656517		14					
656518		21					
656519		14					
656520		25					
656521		9					
656522		5					
656523		13					
656524		6					
656525		12					
656526		13					
656527		8					
656528		<5					
656529		54					
656530		26					
656531		8					
656532		8					
656533		8					
656534		10					
656535		8					
656536		5					
656537		6					
656538		9					
656539		9					
656540		11					
656541		43					
656542		9					

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CLIENT: CYPRUS CANADA INC.
REPORT: C97-60847.0 (COMPLETE)

PROJECT: 5007
DATE PRINTED: 21-APR-97 PAGE 2

STANDARD NAME	ELEMENT UNITS	AU30 PPB	AuGrav G/T
ANALYTICAL BLANK		<5	-
ANALYTICAL BLANK		<5	-
Number of Analyses		2	-
Mean Value		2.5	-
Standard Deviation		0.00	-
Accepted Value		5	<0.01

STANDARD NAME	ELEMENT UNITS	AU30 PPB	AuGrav G/T
---------------	---------------	----------	------------

CANMET CH-3	1488	-
Number of Analyses	1	-
Mean Value	1488.0	-
Standard Deviation	-	-
Accepted Value	1400	-

Gold Tailings	252	-
Number of Analyses	1	-
Mean Value	252.0	-
Standard Deviation	-	-
Accepted Value	263	-

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REPORT: C97-60847.0 (COMPLETE)

PROJECT: 5007
DATE PRINTED: 21-APR-97 PAGE 3

SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	AuGrav G/T	SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	AuGrav G/T
656510		17					
Duplicate		13					
656532		8					
Duplicate		7					



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MAY 23 1997

REPORT: C97-60859.0 (COMPLETE)

REFERENCE: SHIP-8

CLIENT: CYPRUS CANADA INC.
PROJECT: 5007

SUBMITTED BY: DAVID STEVENSON
DATE PRINTED: 23-APR-97

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	AU30 GOLD FIRE ASSAY-AA	41	5 PPB	Fire Assay of 30g	30g Fire Assay - AA

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
DRILL CORE	41	-150	41	CRUSH/SPLIT & PULV.	41

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CLIENT: CYPRUS CANADA INC.
REPORT: C97-60848.0 (COMPLETE)

PROJECT: 5007
DATE PRINTED: 18-APR-97 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
656546		6	656586		<5
656547		8	656587		5
656548		17	656588		9
656549		8	656589		<5
656550		20	656590		<5
656551		9			
656552		14			
656553		790			
656554		602			
656555		389			
656556		521			
656557		34			
656558		37			
656559		<5			
656560		<5			
656561		8			
656562		10			
656563		<5			
656564		<5			
656565		<5			
656566		<5			
656567		<5			
656568		<5			
656569		<5			
656570		16			
656571		10			
656572		8			
656573		6			
656574		200			
656575		186			
656576		9			
656577		<5			
656578		6			
656579		13			
656580		8			
656581		5			
656582		11			
656583		11			
656584		20			
656585		<5			

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SAMPLE ELEMENT AU30
NUMBER UNITS PPB

SAMPLE ELEMENT AU30
NUMBER UNITS PPB

656591 <5
656592 5
656593 7
656594 7
656595 21

656631 57

656596 113
656597 337
656598 42
656599 88
656600 28

656601 28
656602 27
656603 98
656604 142
656605 29

656606 321
656607 15
656608 6
656609 14
656610 12

656611 23
656612 40
656613 6
656614 45
656615 27

656616 22
656617 18
656618 39
656619 17
656620 25

656621 31
656622 29
656623 <5
656624 99
656625 119

656626 22
656627 8
656628 28
656629 81
656630 10

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REPORT: C97-60859.0 (COMPLETE)

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STANDARD NAME	ELEMENT UNITS	AU30 PPB
ANALYTICAL BLANK		<5
ANALYTICAL BLANK		<5
Number of Analyses		2
Mean Value		2.5
Standard Deviation		0.00
Accepted Value		5

STANDARD NAME	ELEMENT UNITS	AU30 PPB
---------------	---------------	----------

Gold Tailings	264
Number of Analyses	1
Mean Value	264.3
Standard Deviation	-
Accepted Value	263

CANMET CH-3	1471
Number of Analyses	1
Mean Value	1471.0
Standard Deviation	-
Accepted Value	1400



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SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
656600		28			
Duplicate		31			
656622		29			
Duplicate		14			

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REPORT: C97-60860.0 (COMPLETE)

REFERENCE: SHIP-8

CLIENT: CYPRUS CANADA INC.
PROJECT: 5007

SUBMITTED BY: DAVID STEVENSON
DATE PRINTED: 24-APR-97

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	AU30 GOLD FIRE ASSAY-AA	37	5 PPB	Fire Assay of 30g	30g Fire Assay - AA
2	AuGrav Gold (Grav.)	3	0.17 G/T	FIRE ASSAY	FIRE ASSAY

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
DRILL CORE	37	-150	37	CRUSH/SPLIT & PULV.	37

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David Stevenson



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CLIENT: CYPRUS CANADA INC.
REPORT: C97-60860.0 (COMPLETE)

PROJECT: 5007
DATE PRINTED: 24-APR-97 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	AuGrav G/T
656632		18	
656633		23	
656634		75	
656635		10	
656636		23	
656637		18	
656638		131	
656639		23	
656640		40	
656641		35	
656642		1538	1.71
656643		2187	2.19
656644		2219	2.50
656645		977	
656646		360	
656647		119	
656648		50	
656649		90	
656650		71	
656651		45	
656652		199	
656653		174	
656654		12	
656655		307	
656656		207	
656657		17	
656658		12	
656659		21	
656660		15	
656661		8	
656662		11	
656663		<5	
656664		<5	
656665		8	
656666		9	
656667		5	
656668		<5	

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CLIENT: CYPRUS CANADA INC.
REPORT: C97-60860.0 (COMPLETE)

PROJECT: 5007
DATE PRINTED: 24-APR-97 PAGE 2

STANDARD NAME	ELEMENT UNITS	AU30 PPB	AuGrav G/T
ANALYTICAL BLANK		<5	-
ANALYTICAL BLANK		<5	-
Number of Analyses		2	-
Mean Value		2.5	-
Standard Deviation		0.00	-
Accepted Value		5	<0.01

Gold Tailings	256	-
Number of Analyses	1	-
Mean Value	256.0	-
Standard Deviation	-	-
Accepted Value	263	-

CANMET CH-3	1588	-
Number of Analyses	1	-
Mean Value	1588.0	-
Standard Deviation	-	-
Accepted Value	1400	-



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REPORT: C97-60860.0 (COMPLETE)

PROJECT: 5007
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SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	AuGrav G/T
656632		18	
Duplicate		27	
656654		12	
Duplicate		7	



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REPORT: C97-60894.0 (COMPLETE)

REFERENCE: SHIP-9

CLIENT: CYPRUS CANADA INC.
PROJECT: 5007

SUBMITTED BY: DAVID STEVENSON
DATE PRINTED: 24-APR-97

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	AU30 GOLD FIRE ASSAY-AA	40	5 PPB	Fire Assay of 30g	30g Fire Assay - AA

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
DRILL CORE	40	-150	40	CRUSH/SPLIT & PULV.	40

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CLIENT: CYPRUS CANADA INC.
REPORT: C97-60894.0 (COMPLETE)

PROJECT: 5007
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SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
656669		8
656670		442
656671		10
656672		<5
656673		13
656674		15
656675		12
656676		21
656677		8
656678		85
656679		79
656680		113
656681		11
656682		23
656683		7
656684		14
656685		6
656686		<5
656687		<5
656688		8
656689		7
656690		6
656691		<5
656692		<5
656693		9
656694		184
656695		19
656696		26
656697		61
656698		368
656699		202
656700		687
656701		174
656702		32
656703		20
656704		8
656705		12
656706		51
656707		11
656708		12

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CLIENT: CYPRUS CANADA INC.
REPORT: C97-60894.0 (COMPLETE)

PROJECT: 5007
DATE PRINTED: 24-APR-97 PAGE 2

STANDARD NAME	ELEMENT UNITS	AU30 PPB
ANALYTICAL BLANK		<5
ANALYTICAL BLANK		<5
Number of Analyses		2
Mean Value		2.5
Standard Deviation		0.00
Accepted Value		5

CANMET CH-3	1339
Number of Analyses	1
Mean Value	1338.7
Standard Deviation	-
Accepted Value	1400

CERT. AU STANDARD	9152
Number of Analyses	1
Mean Value	9152.0
Standard Deviation	-
Accepted Value	8560



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REPORT: C97-60894.0 (COMPLETE)

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SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
656673		13
Duplicate		16
656695		19
Duplicate		11



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MAY 6 1997

REPORT: C97-60895.0 (COMPLETE)

REFERENCE: SHIP-9

CLIENT: CYPRUS CANADA INC.
PROJECT: 5007

SUBMITTED BY: DAVID STEVENSON
DATE PRINTED: 24-APR-97

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	AU30 GOLD FIRE ASSAY-AA	30	5 PPB	Fire Assay of 30g	30g Fire Assay - AA

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
DRILL CORE	30	-150	30	CRUSH/SPLIT & PULV.	30

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SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
656709		47
656710		489
656711		29
656712		28
656713		24
656714		14
656715		10
656716		<5
656717		16
656718		46
656719		7
656720		575
656721		<5
656722		72
656723		<5
656724		8
656725		6
656726		6
656727		5
656728		33
656729		15
656730		15
656731		22
656732		6
656733		8
656734		41
656735		11
656736		11
656737		13
656738		7



CLIENT: CYPRUS CANADA INC.
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STANDARD NAME	ELEMENT UNITS	AU30 PPB
ANALYTICAL BLANK		<5
ANALYTICAL BLANK		<5
Number of Analyses		2
Mean Value		2.5
Standard Deviation		0.00
Accepted Value		5

CERT. AU STANDARD	9152
Number of Analyses	1
Mean Value	9152.0
Standard Deviation	-
Accepted Value	8560

Gold Tailings	248
Number of Analyses	1
Mean Value	248.3
Standard Deviation	-
Accepted Value	263



CLIENT: CYPRUS CANADA INC.
REPORT: C97-60895.0 (COMPLETE)

PROJECT: 5007
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SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
656714		14
Duplicate		12
656736		11
Duplicate		11



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REPORT: C97-60813.1 (COMPLETE)

REFERENCE: SHIP-6

CLIENT: CYPRUS CANADA INC.
PROJECT: 5007

SUBMITTED BY: DAVID STEVENSON
DATE PRINTED: 9-MAY-97

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
DRILL CORE	45	-150	45	SAMPLES FROM STORAGE	45

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REPORT: C97-60813.1 (COMPLETE)

REFERENCE: SHIP-6

CLIENT: CYPRUS CANADA INC.
PROJECT: 5007

SUBMITTED BY: DAVID STEVENSON
DATE PRINTED: 9-MAY-97

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Ag Silver	45	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
2	As Arsenic	45	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
3	Cu Copper	45	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
4	Zn Zinc	45	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
5	Ni Nickel	45	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
6	Cr Chromium	45	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
7	Pb Lead	45	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
8	Mo Molybdenum	45	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
9	Sb Antimony	45	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
10	Al Aluminum	45	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
11	Fe Iron	45	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
12	Mg Magnesium	45	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
13	Ca Calcium	45	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
14	Na Sodium	45	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
15	K Potassium	45	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
16	Ti Titanium	45	0.01 PCT	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
17	Mn Manganese	45	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
18	Cd Cadmium	45	0.2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
19	Co Cobalt	45	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
20	Ba Barium	45	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
21	Bi Bismuth	45	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
22	Ga Gallium	45	2 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
23	La Lanthanum	45	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
24	Li Lithium	45	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
25	Nb Niobium	45	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
26	Sc Scandium	45	5 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
27	Sn Tin	45	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
28	Sr Strontium	45	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
29	Ta Tantalum	45	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
30	Te Tellurium	45	10 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
31	V Vanadium	45	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
32	W Tungsten	45	20 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
33	Y Yttrium	45	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA
34	Zr Zirconium	45	1 PPM	HCL:HNO3 (3:1)	INDUC. COUP. PLASMA

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CLIENT: CYPRUS CANADA INC.
REPORT: C97-60813.1 (COMPLETE)

PROJECT: 5007
DATE PRINTED: 9-MAY-97 PAGE 1C

SAMPLE NUMBER	ELEMENT UNITS	Nb PPM	Sc PPM	Sn PPM	Sr PPM	Ta PPM	Te PPM	V PPM	W PPM	Y PPM	Zr PPM
656418		7	12	<20	79	<10	<10	100	26	7	32
656419		7	9	<20	50	<10	<10	88	<20	7	30
656420		6	7	<20	53	<10	<10	83	<20	7	32
656421		5	7	<20	103	<10	<10	94	<20	5	25
656422		5	6	<20	23	<10	<10	60	<20	6	35
656423		6	<5	<20	28	<10	<10	13	22	5	24
656424		7	<5	<20	30	<10	<10	14	<20	6	24
656425		7	<5	<20	24	<10	<10	14	<20	6	21
656426		8	<5	<20	33	<10	<10	14	<20	6	26
656427		10	<5	<20	37	<10	<10	16	35	7	25
656428		9	<5	<20	43	<10	<10	32	23	6	32
656429		5	<5	<20	45	<10	<10	29	<20	6	34
656430		5	<5	<20	59	<10	<10	28	<20	6	31
656431		5	<5	<20	43	<10	<10	32	22	6	35
656432		6	<5	<20	32	<10	<10	51	<20	7	38
656433		5	<5	<20	42	<10	<10	35	<20	6	32
656434		5	<5	<20	35	<10	<10	42	<20	8	34
656435		9	<5	<20	80	<10	<10	31	<20	7	29
656436		9	<5	<20	50	<10	<10	33	39	7	31
656437		8	<5	<20	41	<10	<10	30	31	7	30
656438		7	<5	<20	42	<10	<10	34	<20	6	33
656439		8	<5	<20	50	<10	<10	43	<20	7	36
656440		6	<5	<20	34	<10	<10	18	<20	5	27
656441		5	<5	<20	35	<10	<10	15	<20	5	26
656442		7	<5	<20	32	<10	<10	18	<20	6	31
656443		6	<5	<20	36	<10	<10	17	33	5	28
656444		8	<5	<20	60	<10	<10	32	<20	6	28
656445		9	<5	<20	67	<10	<10	27	33	7	32
656446		9	<5	<20	109	<10	<10	23	23	7	29
656447		7	<5	<20	53	<10	<10	15	<20	6	25
656448		6	<5	<20	52	<10	<10	19	<20	6	25
656449		6	<5	<20	44	<10	<10	24	23	5	30
656450		5	<5	<20	35	<10	<10	30	<20	5	28
656451		6	<5	<20	37	<10	<10	38	<20	6	30
656452		8	<5	<20	38	<10	<10	44	<20	6	33
656453		11	8	<20	14	<10	<10	66	<20	10	13
656454		11	7	<20	16	<10	<10	51	<20	9	11
656455		10	9	<20	53	<10	<10	75	<20	9	4
656456		9	12	<20	26	<10	<10	97	<20	8	6
656457		13	14	<20	27	<10	<10	117	<20	10	5



CLIENT: CYPRUS CANADA INC.
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PROJECT: 5007
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SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	As PPM	Cu PPM	Zn PPM	Ni PPM	Cr PPM	Pb PPM	Mo PPM	Sb PPM	Al PCT	Fe PCT	Hg PCT
656458		0.4	399	68	101	65	154	20	7	<5	3.91	5.74	1.20
656459		0.3	463	67	86	56	144	19	8	<5	3.67	5.23	1.11
656460		0.3	36	55	61	35	148	19	10	<5	3.58	5.29	1.47
656461		0.3	21	41	56	30	146	25	11	<5	4.12	4.98	1.26
656462		0.2	64	44	63	72	167	19	5	<5	3.63	4.24	1.83



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REPORT: C97-60813.1 (COMPLETE)

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SAMPLE NUMBER	ELEMENT UNITS	Ca PCT	Na PCT	K PCT	Ti PCT	Mn PPM	Cd PPM	Co PPM	Ba PPM	Bi PPM	Ga PPM	La PPM	Li PPM
656458		5.09	0.33	0.46	0.21	1298	<0.2	35	35	<5	4	<1	17
656459		3.63	0.32	0.49	0.13	1215	<0.2	29	63	<5	3	2	13
656460		2.83	0.31	0.54	0.14	1296	<0.2	13	80	<5	3	4	16
656461		3.07	0.41	0.70	0.15	1505	<0.2	10	100	6	4	2	14
656462		2.26	0.31	0.46	0.14	911	<0.2	31	80	<5	5	2	14



CLIENT: CYPRUS CANADA INC.
REPORT: C97-60813.1 (COMPLETE)

PROJECT: 5007
DATE PRINTED: 9-MAY-97 PAGE 2C

SAMPLE NUMBER	ELEMENT UNITS	Nb PPM	Sc PPM	Sn PPM	Sr PPM	Ta PPM	Te PPM	V PPM	W PPM	Y PPM	Zr PPM
656458		17	17	<20	43	<10	<10	142	<20	13	5
656459		15	13	<20	39	<10	<10	104	23	11	6
656460		13	10	<20	33	<10	<10	88	<20	11	7
656461		10	9	<20	38	<10	<10	84	21	10	7
656462		14	12	<20	25	<10	<10	116	31	13	5



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CLIENT: CYPRUS CANADA INC.
REPORT: C97-60706.1 (COMPLETE)

PROJECT: 5007
DATE PRINTED: 9-MAY-97 PAGE 1A

SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	As PPM	Cu PPM	Zn PPM	Ni PPM	Cr PPM	Pb PPM	Mo PPM	Sb PPM	Al PCT	Fe PCT	Mg PCT
656263		<0.2	525	39	63	32	258	20	11	16	1.27	2.12	0.82
656264		<0.2	2525	102	127	72	198	22	10	18	3.53	8.17	2.25
656265		<0.2	4039	117	105	65	180	20	9	19	3.21	7.29	2.38
656266		<0.2	2194	279	62	43	128	13	6	18	2.16	5.95	2.02
656267		0.5	7662	500	67	44	136	15	10	30	2.09	8.13	2.06
656268		<0.2	5930	133	58	95	148	14	7	25	1.59	4.62	1.90
656269		<0.2	4199	56	147	206	332	52	5	15	1.69	4.08	2.43

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CLIENT: CYPRUS CANADA INC.
REPORT: C97-60706.1 (COMPLETE)

PROJECT: 5007
DATE PRINTED: 9-MAY-97 PAGE 1B

SAMPLE NUMBER	ELEMENT UNITS	Ca PCT	Na PCT	K PCT	Tl PCT	Mn PPM	Cd PPM	Co PPM	Ba PPM	Bi PPM	Ga PPM	La PPM	Li PPM
656263		0.38	0.08	0.79	0.09	206	1.4	14	131	<5	<2	23	14
656264		5.98	0.08	2.46	0.27	1631	24.0	32	76	8	<2	<1	36
656265		4.71	0.12	2.06	0.21	907	39.4	36	49	9	<2	<1	30
656266		3.11	0.13	1.69	0.19	503	17.3	35	103	<5	<2	<1	19
656267		3.55	0.11	0.94	0.11	568	83.3	46	56	9	<2	<1	16
656268		3.22	0.11	0.71	0.08	471	49.1	35	61	8	<2	<1	13
656269		3.30	0.05	0.40	0.06	685	24.8	48	30	6	<2	<1	13

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CLIENT: CYPRUS CANADA INC.
REPORT: C97-60706.1 (COMPLETE)

PROJECT: 5007
DATE PRINTED: 9-MAY-97 PAGE 1C

SAMPLE NUMBER	ELEMENT UNITS	Nb PPM	Sc PPM	Sn PPM	Sr PPM	Ta PPM	Te PPM	V PPM	W PPM	Y PPM	Zr PPM
656263		5	<5	<20	29	<10	<10	27	<20	5	25
656264		6	26	<20	79	12	13	208	<20	7	4
656265		8	20	<20	45	10	15	186	<20	9	4
656266		6	12	<20	17	<10	12	157	<20	7	3
656267		6	12	<20	34	14	12	108	<20	7	8
656268		6	9	<20	41	<10	<10	72	<20	7	6
656269		5	7	<20	40	<10	<10	50	<20	5	3



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SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	As PPM	Cu PPM	Zn PPM	Ni PPM	Cr PPM	Pb PPM	Mo PPM	Sb PPM	Al PCT	Fe PCT	Mg PCT
656244		<0.2	539	29	57	31	367	22	16	214	1.18	2.35	0.50
656245		<0.2	661	20	50	25	346	21	16	44	0.87	1.75	0.29
656246		<0.2	569	17	49	28	235	19	12	34	0.75	1.11	0.21
656247		<0.2	55	21	50	28	328	18	14	53	1.00	1.84	0.38
656248		<0.2	925	20	52	30	260	21	14	92	0.95	1.62	0.31
656249		<0.2	109	18	47	25	291	19	12	26	0.85	1.38	0.26
656250		<0.2	51	24	44	31	283	19	17	32	0.87	1.55	0.26
656251		<0.2	89	17	35	23	284	14	13	33	0.83	1.31	0.17
656252		<0.2	102	31	60	35	194	20	10	9	1.44	2.16	0.84
656253		<0.2	49	31	53	37	238	20	12	11	1.26	2.22	0.90
656254		<0.2	85	26	65	32	160	22	9	7	1.55	1.93	0.90
656255		<0.2	208	40	64	34	208	24	11	14	1.28	1.95	0.83
656256		<0.2	55	26	59	33	210	21	11	12	1.26	1.84	0.87
656257		<0.2	629	37	69	41	176	25	10	9	1.58	2.38	1.23
656258		<0.2	191	30	54	34	206	22	12	10	1.28	1.95	0.91
656259		<0.2	889	31	65	39	175	28	10	9	1.71	2.28	1.31
656260		<0.2	932	20	46	29	254	21	14	14	0.90	1.43	0.45
656261		<0.2	263	26	73	35	158	22	9	11	1.48	2.28	1.02
656262		<0.2	106	21	46	26	221	19	13	12	0.95	1.35	0.40
656270		<0.2	254	74	102	43	132	34	13	<5	3.62	7.07	1.43
656271		<0.2	133	49	77	45	129	26	11	<5	2.73	5.85	1.48



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CLIENT: CYPRUS CANADA INC.
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SAMPLE NUMBER	ELEMENT UNITS	Ca PCT	Na PCT	K PCT	Ti PCT	Mn PPM	Cd PPM	Co PPM	Ba PPM	Bi PPM	Ga PPM	La PPM	Li PPM
656244		0.50	0.10	0.76	0.09	336	4.2	14	111	7	<2	12	15
656245		0.55	0.08	0.54	0.05	284	5.5	12	104	5	<2	10	9
656246		0.51	0.08	0.46	0.04	178	5.5	11	93	<5	3	12	7
656247		0.51	0.08	0.55	0.07	305	1.1	13	87	6	<2	12	12
656248		0.52	0.08	0.52	0.05	193	7.3	12	87	<5	<2	11	9
656249		0.53	0.08	0.51	0.05	253	1.5	11	95	<5	<2	13	9
656250		0.55	0.08	0.47	0.04	177	2.0	11	90	6	3	19	9
656251		0.89	0.07	0.42	0.03	217	2.3	10	72	<5	<2	6	8
656252		0.73	0.12	0.90	0.13	292	1.0	13	95	9	3	6	18
656253		0.66	0.10	0.70	0.11	260	<0.2	14	78	<5	3	11	17
656254		0.84	0.13	0.91	0.13	302	0.4	13	89	<5	5	6	17
656255		0.68	0.11	0.55	0.10	253	1.3	14	69	5	3	15	14
656256		0.88	0.11	0.75	0.11	284	0.5	12	105	6	3	5	14
656257		0.38	0.10	0.94	0.14	271	3.8	15	150	9	6	4	15
656258		0.69	0.11	0.71	0.09	252	1.1	13	101	6	3	4	14
656259		0.52	0.09	0.96	0.12	287	5.6	15	152	9	5	5	16
656260		0.53	0.12	0.46	0.05	172	7.1	12	94	<5	3	5	8
656261		0.49	0.10	0.85	0.11	256	1.9	14	156	6	3	6	15
656262		0.62	0.10	0.41	0.03	153	2.0	10	95	<5	4	10	8
656270		4.53	0.33	0.47	0.15	2127	0.4	24	59	11	<2	<1	13
656271		3.38	0.27	0.23	0.12	1465	<0.2	25	48	12	<2	<1	13



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SAMPLE NUMBER	ELEMENT UNITS	Nb PPM	Sc PPM	Sn PPM	Sr PPM	Ta PPM	Te PPM	V PPM	W PPM	Y PPM	Zr PPM
656244		5	<5	<20	31	<10	<10	21	23	6	25
656245		4	<5	<20	28	<10	<10	14	<20	5	26
656246		4	<5	<20	32	<10	<10	11	<20	5	26
656247		5	<5	<20	25	<10	<10	18	<20	6	27
656248		5	<5	<20	21	<10	<10	14	<20	6	25
656249		4	<5	<20	28	<10	<10	13	<20	5	24
656250		4	<5	<20	31	<10	<10	12	20	5	23
656251		4	<5	<20	31	<10	<10	11	<20	5	21
656252		5	<5	<20	40	<10	<10	36	<20	6	30
656253		5	<5	<20	41	<10	<10	33	29	6	30
656254		6	<5	<20	54	<10	<10	31	25	7	31
656255		6	<5	<20	45	<10	<10	26	<20	7	29
656256		6	<5	<20	45	<10	<10	30	<20	7	30
656257		4	<5	<20	26	<10	<10	35	<20	6	31
656258		4	<5	<20	31	<10	<10	29	20	5	29
656259		5	<5	<20	29	<10	<10	35	<20	6	33
656260		3	<5	<20	33	<10	<10	18	<20	4	24
656261		5	<5	<20	33	<10	<10	29	21	5	34
656262		4	<5	<20	28	<10	<10	14	<20	5	21
656270		7	10	27	34	<10	<10	72	22	11	7
656271		6	9	21	25	<10	<10	71	<20	10	5

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CLIENT: CYPRUS CANADA INC.
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SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT
656503		<0.2	15	10	42	22	37	11	1.2	<5	1451	177	1.56
656504		<0.2	21	42	59	18	37	12	1.7	<5	2887	1725	1.92
656505		<0.2	21	14	57	17	36	12	0.3	<5	529	611	2.16
656506		<0.2	26	12	57	12	35	13	0.3	<5	629	323	2.11
656507		<0.2	21	13	46	17	35	12	0.5	<5	669	292	1.73
656508		<0.2	18	12	51	14	31	11	0.5	<5	211	34	1.49
656509		<0.2	22	12	50	17	34	12	0.3	<5	38	22	1.58
656510		<0.2	22	13	52	12	29	11	<0.2	<5	22	18	1.91
656511		<0.2	17	11	51	16	32	11	<0.2	<5	19	17	1.97
656512		<0.2	17	12	49	12	29	11	0.4	<5	256	17	1.51
656513		<0.2	17	11	54	16	32	11	<0.2	<5	53	17	2.28
656514		<0.2	18	12	54	12	30	11	0.3	<5	30	15	1.56
656515		<0.2	19	10	42	14	30	10	0.3	<5	20	14	1.43
656516		<0.2	32	14	52	9	37	14	<0.2	<5	125	24	2.13
656517		0.3	43	10	105	12	40	15	<0.2	<5	26	13	2.42
656518		<0.2	34	11	51	10	37	14	<0.2	<5	103	19	2.07
656519		<0.2	26	10	46	11	37	13	<0.2	<5	82	17	1.97
656520		<0.2	25	9	51	6	33	13	<0.2	<5	57	14	1.96
656521		<0.2	40	8	74	10	45	17	<0.2	<5	22	11	2.69
656522		<0.2	28	8	63	9	38	15	<0.2	<5	14	10	2.34
656523		<0.2	22	8	55	12	35	13	<0.2	<5	55	9	1.94
656524		<0.2	38	8	57	11	38	14	<0.2	<5	45	9	2.26
656525		<0.2	23	9	56	13	34	13	<0.2	<5	15	9	2.01
656526		<0.2	23	13	63	10	36	14	<0.2	<5	52	11	2.26
656527		<0.2	28	8	64	13	39	14	<0.2	<5	18	12	2.30
656528		<0.2	32	9	59	12	48	16	<0.2	<5	23	12	2.77
656529		<0.2	29	11	64	14	39	14	<0.2	<5	127	10	2.26
656530		<0.2	20	9	49	13	33	11	<0.2	<5	81	8	1.68
656531		<0.2	28	19	60	13	41	13	<0.2	<5	21	11	2.16
656532		<0.2	26	25	69	10	39	14	<0.2	<5	12	9	2.35
656533		<0.2	25	10	57	12	39	15	<0.2	<5	13	9	2.20
656534		<0.2	37	9	60	9	46	16	<0.2	<5	31	10	2.83
656535		<0.2	33	12	70	13	46	16	<0.2	<5	32	10	2.60
656536		<0.2	23	10	52	10	35	12	<0.2	<5	17	9	1.94
656537		<0.2	24	9	63	11	37	13	<0.2	<5	14	11	2.09
656538		<0.2	24	9	66	10	39	14	<0.2	<5	22	13	2.45
656539		<0.2	20	9	50	12	36	12	<0.2	<5	19	13	2.08
656540		<0.2	32	11	57	8	40	15	<0.2	<5	28	10	2.53
656541		<0.2	36	14	62	13	40	14	<0.2	<5	46	13	2.38
656542		<0.2	25	12	60	10	31	11	0.2	<5	16	14	1.75



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SAMPLE NUMBER	ELEMENT UNITS	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT
656503		130	<10	82	409	14	<20	<20	27	0.89	0.21	0.13	0.04
656504		172	48	85	368	17	<20	<20	31	0.89	0.28	0.21	0.07
656505		295	18	103	323	22	<20	<20	31	1.15	0.37	0.36	0.08
656506		278	11	100	248	19	<20	<20	35	1.13	0.36	0.39	0.07
656507		173	<10	79	322	16	<20	<20	28	0.90	0.30	0.12	0.06
656508		117	<10	94	296	14	<20	<20	27	0.81	0.28	0.08	0.08
656509		205	<10	100	310	18	<20	<20	28	0.93	0.32	0.39	0.08
656510		337	<10	101	246	17	<20	<20	33	1.12	0.36	0.45	0.08
656511		333	<10	114	285	19	<20	<20	29	1.17	0.34	0.48	0.08
656512		259	<10	86	240	15	<20	<20	31	0.89	0.25	0.80	0.09
656513		281	<10	105	302	21	<20	<20	29	1.16	0.34	0.36	0.09
656514		244	<10	117	257	17	<20	<20	31	0.93	0.27	0.73	0.10
656515		211	<10	75	263	14	<20	<20	34	1.01	0.26	0.93	0.07
656516		279	<10	106	208	30	<20	<20	32	1.59	0.59	1.18	0.15
656517		323	<10	133	251	39	<20	<20	37	1.65	0.75	0.94	0.16
656518		289	<10	101	212	26	<20	<20	31	1.44	0.63	1.13	0.12
656519		259	<10	90	210	25	<20	<20	29	1.54	0.66	0.89	0.10
656520		261	<10	111	139	32	<20	<20	27	1.59	0.75	0.56	0.12
656521		302	<10	131	210	42	<20	<20	36	1.71	0.87	0.70	0.11
656522		287	<10	155	221	44	<20	<20	31	1.75	0.83	0.72	0.20
656523		227	<10	110	239	27	<20	<20	32	1.48	0.63	0.51	0.13
656524		281	<10	112	254	33	<20	<20	32	1.53	0.70	1.51	0.15
656525		302	<10	119	283	32	<20	<20	36	1.44	0.62	2.20	0.18
656526		283	<10	119	237	36	<20	<20	36	1.92	0.80	1.05	0.19
656527		237	<10	165	276	38	<20	<20	32	1.60	0.76	0.87	0.16
656528		295	<10	214	298	42	<20	<20	30	2.06	0.94	0.70	0.19
656529		305	<10	108	300	38	<20	<20	29	1.61	0.82	1.25	0.13
656530		218	<10	96	280	20	<20	<20	34	1.06	0.51	0.97	0.10
656531		317	<10	101	256	29	<20	<20	34	1.47	0.69	1.63	0.12
656532		265	<10	116	242	37	<20	<20	34	1.57	0.82	0.66	0.14
656533		251	<10	141	261	35	<20	<20	32	1.54	0.74	0.57	0.16
656534		391	<10	166	226	42	<20	<20	32	2.02	1.03	1.29	0.15
656535		297	<10	148	253	37	<20	<20	35	1.82	0.96	0.49	0.10
656536		265	<10	109	218	29	<20	<20	29	1.46	0.75	0.66	0.13
656537		281	<10	124	233	31	<20	<20	34	1.64	0.74	0.53	0.14
656538		384	<10	146	234	42	<20	<20	32	1.97	1.00	1.00	0.17
656539		281	<10	111	245	32	<20	<20	29	1.60	0.84	1.01	0.11
656540		284	<10	128	181	30	<20	<20	36	1.73	0.79	0.87	0.09
656541		296	<10	115	267	35	<20	<20	30	1.69	0.85	0.50	0.10
656542		211	<10	81	222	22	<20	<20	32	1.20	0.57	0.60	0.10

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CLIENT: CYPRUS CANADA INC.
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SAMPLE NUMBER	ELEMENT UNITS	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM
656503		0.49	13	6	<2	8	<1	<5	<10	0.02	10
656504		0.50	20	6	<2	10	<1	<5	<10	0.04	17
656505		0.62	20	6	<2	15	<1	<5	<10	0.06	24
656506		0.63	17	7	<2	14	<1	<5	<10	0.07	24
656507		0.48	15	5	<2	11	<1	<5	<10	0.04	23
656508		0.42	22	5	<2	9	<1	<5	<10	0.04	20
656509		0.56	24	5	<2	11	<1	<5	<10	0.05	25
656510		0.69	18	6	<2	14	<1	<5	<10	0.07	28
656511		0.70	24	6	<2	14	<1	<5	<10	0.08	26
656512		0.53	37	6	<2	10	<1	<5	<10	0.05	23
656513		0.65	27	6	<2	17	<1	<5	<10	0.07	26
656514		0.54	44	6	<2	11	<1	<5	<10	0.06	24
656515		0.44	41	7	<2	9	<1	<5	<10	0.03	10
656516		0.70	82	7	<2	18	<1	<5	<10	0.09	33
656517		0.99	54	8	<2	23	<1	<5	<10	0.13	39
656518		0.66	44	6	<2	19	<1	<5	<10	0.07	24
656519		0.73	43	7	<2	19	<1	<5	<10	0.08	29
656520		0.92	29	6	<2	18	<1	<5	<10	0.10	31
656521		1.12	37	9	<2	25	<1	<5	<10	0.14	40
656522		1.11	51	8	<2	21	<1	<5	<10	0.15	36
656523		0.92	38	7	<2	17	<1	<5	<10	0.11	38
656524		0.94	100	7	<2	18	<1	<5	<10	0.12	36
656525		0.87	134	7	<2	16	<1	<5	<10	0.11	34
656526		1.06	72	8	<2	22	<1	<5	<10	0.13	37
656527		0.98	79	8	<2	17	<1	<5	<10	0.11	37
656528		1.20	59	7	<2	21	<1	<5	<10	0.13	39
656529		1.02	71	7	<2	20	<1	<5	<10	0.12	35
656530		0.58	48	6	<2	12	<1	<5	<10	0.06	27
656531		0.64	63	7	<2	19	<1	<5	<10	0.05	17
656532		0.90	43	7	<2	21	<1	<5	<10	0.11	34
656533		0.89	46	7	<2	15	<1	<5	<10	0.11	36
656534		1.09	73	8	<2	21	<1	<5	<10	0.11	40
656535		1.10	32	8	<2	22	<1	<5	<10	0.13	40
656536		0.76	40	7	<2	15	<1	<5	<10	0.10	34
656537		0.89	42	8	<2	17	<1	<5	<10	0.11	37
656538		1.07	73	8	<2	23	<1	<5	<10	0.13	36
656539		0.82	49	7	<2	18	<1	<5	<10	0.09	32
656540		0.87	40	8	<2	19	<1	<5	<10	0.08	33
656541		0.92	42	6	<2	19	<1	<5	<10	0.10	35
656542		0.61	24	5	<2	13	<1	<5	<10	0.06	24

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SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT
656543		<0.2	27	13	52	15	36	13	<0.2	<5	59	20	1.81
656544		<0.2	22	14	54	14	31	11	0.3	<5	35	16	1.62
656545		<0.2	22	10	60	12	32	11	<0.2	<5	38	12	1.80



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SAMPLE NUMBER	ELEMENT UNITS	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT
656543		187	<10	89	272	23	<20	<20	29	1.37	0.53	0.52	0.11
656544		235	<10	86	282	19	<20	<20	34	1.25	0.51	0.55	0.10
656545		246	<10	97	233	25	<20	<20	31	1.43	0.63	0.55	0.11



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SAMPLE NUMBER	ELEMENT UNITS	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM
656543		0.65	37	7	<2	14	<1	<5	<10	0.07	25
656544		0.68	34	7	<2	12	<1	<5	<10	0.07	27
656545		0.81	33	7	<2	15	<1	<5	<10	0.09	31



CLIENT: CYPRUS CANADA INC.
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SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT
656546		<0.2	27	10	54	15	34	13	<0.2	<5	44	13	1.92
656547		<0.2	22	13	52	8	30	12	<0.2	<5	60	21	1.90
656548		<0.2	25	11	62	11	33	13	<0.2	<5	44	17	2.31
656549		<0.2	37	10	59	7	37	15	<0.2	<5	46	14	2.28
656550		<0.2	29	8	56	11	36	14	<0.2	<5	26	11	2.11
656551		<0.2	27	9	55	8	29	12	<0.2	<5	56	10	1.78
656552		<0.2	30	8	51	10	31	12	<0.2	<5	101	11	1.77
656553		<0.2	66	5	76	2	76	36	<0.2	<5	6166	19	6.80
656554		<0.2	523	3	85	3	37	37	<0.2	<5	2715	12	7.83
656555		<0.2	232	<2	60	3	41	27	<0.2	<5	901	9	4.10
656556		<0.2	144	2	67	4	291	53	<0.2	<5	3500	19	4.39
656557		<0.2	61	4	51	4	74	18	<0.2	<5	80	<5	3.69
656558		<0.2	44	<2	37	7	59	18	<0.2	<5	52	<5	2.37
656559		<0.2	41	<2	47	3	57	19	<0.2	<5	39	<5	2.85
656560		<0.2	34	<2	62	8	30	19	<0.2	<5	17	6	3.88
656561		<0.2	110	2	199	3	30	23	<0.2	<5	36	7	5.70
656562		<0.2	95	<2	38	3	21	26	<0.2	<5	61	<5	3.37
656563		<0.2	103	<2	41	2	27	28	<0.2	<5	94	<5	3.61
656564		<0.2	71	<2	40	3	30	28	<0.2	<5	74	6	3.70
656565		<0.2	57	<2	35	5	25	19	<0.2	<5	<5	<5	3.37
656566		<0.2	75	<2	50	5	72	19	<0.2	<5	<5	<5	3.28
656567		<0.2	67	<2	47	4	67	18	<0.2	<5	<5	<5	3.45
656568		<0.2	95	<2	64	7	67	22	<0.2	<5	<5	<5	3.62
656569		<0.2	51	<2	42	3	55	20	<0.2	<5	12	<5	3.88
656570		<0.2	67	<2	30	1	63	32	<0.2	<5	61	5	3.39
656571		<0.2	58	<2	25	2	49	31	<0.2	<5	101	<5	2.48
656572		<0.2	50	<2	25	1	32	27	<0.2	<5	137	<5	2.76
656573		<0.2	78	<2	25	2	40	28	<0.2	<5	382	<5	3.34
656574		<0.2	21	<2	25	2	46	29	<0.2	<5	49	<5	2.82
656575		<0.2	53	<2	24	1	56	30	<0.2	<5	83	<5	2.96
656576		<0.2	36	<2	18	1	22	22	<0.2	<5	60	<5	2.74
656577		<0.2	76	<2	20	2	18	23	<0.2	<5	320	<5	2.92
656578		<0.2	58	<2	22	1	21	25	<0.2	<5	32	<5	3.20
656579		<0.2	86	<2	22	1	21	24	<0.2	<5	29	<5	3.17
656580		<0.2	45	<2	29	1	25	26	<0.2	<5	22	5	4.51
656581		<0.2	25	<2	31	1	104	40	<0.2	<5	127	<5	3.40
656582		<0.2	76	<2	31	2	56	30	<0.2	<5	68	<5	3.49
656583		<0.2	76	<2	53	2	53	29	<0.2	<5	71	6	4.54
656584		<0.2	79	<2	70	5	39	24	<0.2	<5	217	6	4.80
656585		<0.2	35	<2	53	3	53	19	<0.2	<5	36	8	3.76

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CLIENT: CYPRUS CANADA INC.
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SAMPLE NUMBER	ELEMENT UNITS	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Pb PCT
656546		268	<10	114	308	31	<20	<20	27	1.29	0.72	0.31	0.00
656547		265	<10	91	199	28	<20	<20	19	1.35	0.81	0.56	0.00
656548		309	<10	99	228	31	<20	<20	27	1.58	0.96	0.32	0.00
656549		346	<10	119	197	40	<20	<20	25	1.56	0.98	0.76	0.00
656550		271	<10	110	241	34	<20	<20	24	1.46	0.78	0.62	0.00
656551		227	<10	111	195	28	<20	<20	33	1.25	0.66	0.44	0.08
656552		211	<10	107	212	24	<20	<20	30	1.21	0.58	0.46	0.07
656553		1072	<10	77	239	172	<20	<20	2	3.21	2.82	5.92	0.05
656554		635	<10	72	102	130	<20	<20	6	2.33	2.01	3.57	0.09
656555		338	<10	55	97	76	<20	<20	6	1.72	2.02	1.36	0.13
656556		663	<10	16	415	47	<20	<20	5	1.69	2.80	3.54	0.03
656557		550	<10	86	131	57	<20	<20	10	1.49	1.30	2.55	0.16
656558		315	<10	60	183	54	<20	<20	11	1.19	1.09	1.88	0.12
656559		422	<10	122	108	61	<20	<20	10	1.59	1.35	2.05	0.18
656560		550	<10	126	183	86	<20	<20	7	2.38	1.22	2.89	0.20
656561		729	<10	19	112	114	<20	<20	6	2.69	1.95	4.27	0.06
656562		459	<10	11	119	105	<20	<20	2	1.61	1.65	2.89	0.14
656563		494	<10	9	124	108	<20	<20	2	1.76	1.64	2.80	0.17
656564		526	<10	10	131	110	<20	<20	2	2.08	1.75	2.96	0.21
656565		388	<10	79	133	100	<20	<20	6	2.16	2.22	1.89	0.14
656566		300	<10	49	158	73	<20	<20	10	1.78	1.82	1.51	0.14
656567		419	<10	28	146	72	<20	<20	10	1.73	1.68	2.03	0.15
656568		477	<10	41	161	43	<20	<20	9	1.12	1.00	2.96	0.13
656569		508	<10	7	124	80	<20	<20	7	1.85	1.77	2.77	0.17
656570		438	<10	7	193	74	<20	<20	2	2.04	2.64	2.03	0.11
656571		384	<10	8	177	57	<20	<20	1	1.56	1.96	1.83	0.14
656572		393	<10	5	110	79	<20	<20	1	1.46	1.72	2.16	0.15
656573		382	<10	40	189	86	<20	<20	2	1.99	2.00	2.27	0.14
656574		407	<10	36	196	69	<20	<20	2	1.79	2.04	2.14	0.14
656575		385	<10	28	183	67	<20	<20	2	1.78	2.19	1.85	0.11
656576		347	<10	15	92	91	<20	<20	2	1.41	1.60	2.01	0.18
656577		468	<10	25	87	97	<20	<20	2	1.29	1.33	3.08	0.17
656578		397	<10	13	110	100	<20	<20	2	1.51	1.81	2.11	0.19
656579		355	<10	39	102	92	<20	<20	2	1.48	1.75	2.26	0.17
656580		462	<10	17	133	122	<20	<20	3	2.08	2.26	2.81	0.16
656581		407	<10	7	134	57	<20	<20	2	2.23	2.95	1.85	0.08
656582		440	<10	6	153	84	<20	<20	2	2.10	2.39	2.67	0.18
656583		644	<10	28	90	112	<20	<20	2	2.56	2.20	3.28	0.19
656584		1270	<10	50	142	94	<20	<20	4	3.17	0.84	5.14	0.25
656585		843	<10	82	161	91	<20	<20	5	4.07	1.57	3.59	0.27

ITS - Chimitec

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CLIENT: CYPRUS CANADA INC.
REPORT: C97-60848.1 (COMPLETE)

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SAMPLE NUMBER	ELEMENT UNITS	K PCT	Sr PPM	Y PPM	Ca PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM
656546		0.78	28	5	9	14	<1	<5	<10	0.09	27
656547		0.69	21	5	9	15	<1	<5	<10	0.09	24
656548		0.73	19	5	6	18	<1	<5	<10	0.08	25
656549		0.96	20	6	7	19	<1	<5	<10	0.12	26
656550		0.94	30	6	8	16	<1	<5	<10	0.11	28
656551		0.73	26	6	10	13	<1	<5	<10	0.08	27
656552		0.70	31	5	11	11	<1	<5	<10	0.06	26
656553		2.06	91	6	<2	39	<1	20	<10	0.14	1
656554		0.53	43	8	<2	21	<1	13	<10	0.09	4
656555		0.44	15	6	<2	19	<1	7	<10	0.08	15
656556		0.11	37	6	<2	16	<1	7	<10	0.03	3
656557		0.33	19	10	<2	13	<1	7	<10	0.08	12
656558		0.24	18	9	6	11	<1	6	<10	0.08	9
656559		0.47	22	9	3	13	<1	7	<10	0.11	10
656560		0.74	55	8	<2	19	<1	8	<10	0.13	3
656561		0.22	62	11	<2	42	<1	16	<10	0.02	2
656562		0.05	21	6	<2	10	<1	12	<10	0.08	1
656563		0.08	23	7	<2	12	<1	12	<10	0.08	<1
656564		0.08	32	7	<2	14	<1	13	<10	0.09	<1
656565		0.46	32	7	<2	25	<1	10	<10	0.10	6
656566		0.42	28	10	<2	22	<1	8	<10	0.10	11
656567		0.19	41	11	<2	20	<1	9	<10	0.11	9
656568		0.20	17	9	<2	11	<1	6	<10	0.10	8
656569		0.04	29	9	<2	14	<1	10	<10	0.08	6
656570		0.04	23	5	<2	16	<1	9	<10	0.05	<1
656571		0.05	18	3	5	9	<1	7	<10	0.06	<1
656572		0.03	19	4	<2	9	<1	9	<10	0.06	<1
656573		0.41	30	5	<2	17	<1	8	<10	0.09	<1
656574		0.37	26	3	3	15	<1	7	<10	0.09	<1
656575		0.31	15	4	2	16	<1	7	<10	0.08	1
656576		0.14	14	5	3	9	<1	10	<10	0.08	1
656577		0.21	18	6	<2	9	<1	11	<10	0.07	1
656578		0.13	20	6	<2	10	<1	11	<10	0.08	1
656579		0.17	21	6	<2	11	<1	11	<10	0.08	1
656580		0.21	34	8	<2	21	<1	14	<10	0.07	1
656581		0.13	17	3	<2	17	<1	6	<10	0.05	<1
656582		0.04	19	6	<2	12	<1	11	<10	0.07	1
656583		0.11	34	9	<2	18	<1	12	<10	0.08	3
656584		0.52	53	11	<2	17	<1	11	<10	0.11	5
656585		0.55	73	10	<2	15	<1	9	<10	0.11	4

L. Deschamps



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CLIENT: CYPRUS CANADA INC.
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SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT
656586		<0.2	50	<2	58	4	49	18	<0.2	<5	28	7	4.46
656587		<0.2	34	<2	28	2	50	22	<0.2	<5	41	<5	3.48
656588		<0.2	26	<2	37	3	66	22	<0.2	<5	55	<5	2.57
656589		<0.2	4	<2	52	3	56	19	<0.2	<5	32	<5	3.17
656590		<0.2	13	<2	51	5	11	18	<0.2	<5	7	5	4.54



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SAMPLE NUMBER	ELEMENT UNITS	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT
656586		906	<10	55	180	80	<20	<20	5	3.51	1.72	3.72	0.24
656587		343	<10	38	89	76	<20	<20	8	1.68	1.85	2.33	0.16
656588		270	<10	64	175	64	<20	<20	7	1.48	1.37	1.84	0.20
656589		360	<10	50	124	58	<20	<20	7	2.01	1.58	2.50	0.16
656590		522	<10	126	113	97	<20	<20	11	1.96	0.88	2.37	0.21



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SAMPLE NUMBER	ELEMENT UNITS	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM
656586		0.36	56	11	<2	16	<1	9	<10	0.11	5
656587		0.17	23	9	<2	10	<1	8	<10	0.11	2
656588		0.44	20	7	5	13	<1	6	<10	0.10	3
656589		0.19	25	7	<2	18	<1	6	<10	0.09	2
656590		0.56	20	15	<2	11	<1	9	<10	0.15	5

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SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT
656591		<0.2	51	8	95	12	82	21	<0.2	<5	<5	<5	4.90
656592		<0.2	47	8	87	7	91	23	<0.2	<5	25	5	5.07
656593		<0.2	54	7	93	11	82	24	<0.2	<5	<5	<5	4.81
656594		<0.2	37	7	79	12	59	19	0.2	<5	21	9	4.45
656595		<0.2	23	17	64	16	32	12	0.2	<5	77	21	1.54
656596		<0.2	18	14	55	19	26	11	<0.2	<5	882	41	1.44
656597		0.3	20	20	50	16	27	11	<0.2	<5	1419	626	1.30
656598		0.3	24	12	57	13	29	13	<0.2	<5	36	33	1.90
656599		0.3	23	14	55	17	35	13	<0.2	<5	319	31	1.91
656600		<0.2	23	13	59	14	29	13	<0.2	<5	267	13	1.54
656601		0.3	19	9	54	14	31	12	0.2	<5	73	10	1.38
656602		0.3	23	9	54	14	27	12	<0.2	<5	1851	14	2.04
656603		<0.2	13	15	42	17	30	12	<0.2	<5	6101	42	1.49
656604		0.3	22	10	56	13	28	12	<0.2	<5	998	11	1.62
656605		0.3	22	10	62	14	33	12	<0.2	<5	22	<5	2.83
656606		<0.2	20	7	61	15	26	11	<0.2	<5	917	13	1.85
656607		0.3	22	10	78	16	31	12	<0.2	<5	37	<5	1.69
656608		0.3	32	8	71	10	39	15	<0.2	<5	11	<5	2.56
656609		<0.2	32	8	69	11	38	14	<0.2	<5	29	5	2.24
656610		<0.2	27	13	79	13	35	13	<0.2	<5	20	<5	2.42
656611		<0.2	30	10	71	12	41	15	<0.2	<5	87	8	2.48
656612		<0.2	29	11	64	11	35	14	<0.2	<5	13	6	2.31
656613		<0.2	26	5	40	9	37	13	<0.2	<5	37	<5	1.95
656614		0.2	28	8	62	12	36	14	<0.2	<5	195	8	2.30
656615		<0.2	28	9	64	11	38	13	<0.2	<5	107	<5	2.22
656616		<0.2	31	9	69	12	33	14	<0.2	<5	98	<5	2.18
656617		<0.2	25	11	64	10	34	13	<0.2	<5	41	<5	1.91
656618		<0.2	29	12	75	11	36	14	<0.2	<5	135	<5	2.46
656619		<0.2	25	9	74	12	37	14	<0.2	<5	33	7	2.15
656620		<0.2	25	13	75	17	42	14	<0.2	<5	145	6	2.63
656621		<0.2	27	11	59	20	44	14	<0.2	<5	186	10	2.43
656622		<0.2	25	10	52	16	41	15	<0.2	<5	44	8	2.28
656623		<0.2	27	8	64	16	40	14	<0.2	<5	14	7	2.52
656624		<0.2	29	9	64	14	41	14	<0.2	<5	114	10	2.24
656625		<0.2	29	10	78	17	39	14	<0.2	<5	597	<5	2.03
656626		<0.2	36	12	79	13	45	16	<0.2	<5	108	7	2.72
656627		<0.2	24	16	39	15	33	12	<0.2	<5	68	8	1.81
656628		<0.2	39	12	54	15	34	13	<0.2	<5	96	8	1.74
656629		<0.2	26	16	66	16	32	11	<0.2	<5	438	6	1.75
656630		<0.2	23	14	64	13	35	12	<0.2	<5	19	<5	2.06

ITS - Chimitec

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CLIENT: CYPRUS CANADA INC.
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SAMPLE NUMBER	ELEMENT UNITS	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT
656591		744	<10	629	428	110	<20	<20	35	3.04	2.13	0.55	0.20
656592		739	<10	457	391	105	<20	<20	31	3.24	2.31	0.58	0.13
656593		604	<10	165	328	71	<20	<20	33	2.95	1.88	0.39	0.07
656594		659	<10	187	352	56	<20	<20	34	2.62	1.43	0.39	0.07
656595		221	<10	100	308	16	<20	<20	40	0.85	0.33	0.40	0.07
656596		190	<10	99	425	15	<20	<20	37	0.90	0.27	0.33	0.08
656597		169	<10	62	315	11	<20	<20	32	0.83	0.23	0.32	0.04
656598		328	<10	101	329	19	<20	<20	35	1.36	0.44	0.39	0.09
656599		324	<10	85	338	15	<20	<20	37	0.94	0.33	0.35	0.05
656600		258	<10	93	336	19	<20	<20	40	1.15	0.33	0.53	0.09
656601		253	<10	80	274	15	<20	<20	36	0.88	0.23	0.60	0.06
656602		359	<10	112	337	17	<20	<20	35	1.17	0.34	0.42	0.07
656603		213	<10	78	318	11	<20	<20	32	0.76	0.24	0.36	0.04
656604		265	<10	137	319	17	<20	<20	31	1.09	0.36	0.39	0.10
656605		604	<10	136	273	23	<20	<20	35	1.44	0.49	0.64	0.07
656606		384	<10	79	391	17	<20	<20	33	1.26	0.29	0.70	0.08
656607		254	<10	106	306	20	<20	<20	36	1.03	0.41	0.53	0.07
656608		419	<10	106	268	37	<20	<20	36	1.60	0.93	0.66	0.09
656609		325	<10	106	237	31	<20	<20	37	1.55	0.82	0.52	0.09
656610		415	<10	99	339	42	<20	<20	37	1.85	0.94	1.17	0.16
656611		375	<10	139	268	42	<20	<20	37	1.55	1.03	0.52	0.09
656612		344	<10	166	270	35	<20	<20	34	1.61	0.93	0.45	0.12
656613		282	<10	99	222	31	<20	<20	36	1.31	0.83	0.53	0.10
656614		316	<10	135	307	34	<20	<20	36	1.55	0.85	0.45	0.13
656615		349	<10	92	248	34	<20	<20	34	1.67	0.97	0.60	0.12
656616		331	<10	103	324	35	<20	<20	38	1.73	0.88	0.63	0.13
656617		284	<10	115	214	30	<20	<20	37	1.25	0.78	0.52	0.09
656618		368	<10	135	315	38	<20	<20	39	1.64	0.98	0.64	0.12
656619		305	<10	129	270	34	<20	<20	39	1.35	0.85	0.53	0.09
656620		380	<10	110	356	46	<20	<20	37	1.52	1.06	0.67	0.08
656621		329	<10	121	376	38	<20	<20	36	1.22	0.88	0.51	0.07
656622		308	<10	121	324	33	<20	<20	32	1.21	0.75	1.11	0.07
656623		345	<10	134	312	42	<20	<20	37	1.40	0.99	0.54	0.08
656624		340	<10	104	283	26	<20	<20	32	1.65	0.89	1.02	0.05
656625		322	<10	101	309	28	<20	<20	28	1.95	0.83	0.82	0.10
656626		401	<10	78	274	39	<20	<20	41	1.60	1.12	0.61	0.07
656627		270	<10	68	275	23	<20	<20	31	1.17	0.68	0.59	0.07
656628		223	<10	69	283	20	<20	<20	44	1.12	0.53	0.43	0.07
656629		257	<10	95	303	23	<20	<20	30	1.13	0.61	0.38	0.10
656630		343	<10	109	284	35	<20	<20	33	1.37	0.91	0.39	0.11

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CLIENT: CYPRUS CANADA INC.
REPORT: C97-60859.1 (COMPLETE)

PROJECT: 5007
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SAMPLE NUMBER	ELEMENT UNITS	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM
656591		1.75	42	6	11	47	1	11	<10	0.26	28
656592		1.59	36	6	10	35	1	11	<10	0.24	28
656593		1.51	14	4	8	52	1	6	<10	0.15	22
656594		1.35	24	5	7	25	1	<5	<10	0.16	29
656595		0.56	28	5	3	10	<1	<5	<10	0.06	27
656596		0.50	36	5	3	7	<1	<5	<10	0.05	26
656597		0.53	21	5	2	9	<1	<5	<10	0.03	22
656598		0.88	38	6	3	16	<1	<5	<10	0.08	29
656599		0.56	24	6	2	8	<1	<5	<10	0.06	29
656600		0.69	36	6	4	10	<1	<5	<10	0.07	20
656601		0.47	29	5	2	8	<1	<5	<10	0.05	15
656602		0.67	26	6	3	10	<1	<5	<10	0.06	28
656603		0.41	19	5	3	6	<1	<5	<10	0.03	30
656604		0.67	30	5	3	10	<1	<5	<10	0.06	29
656605		0.84	34	6	4	14	<1	<5	<10	0.10	27
656606		0.72	54	6	2	10	<1	<5	<10	0.06	27
656607		0.70	48	6	3	13	<1	<5	<10	0.07	30
656608		1.04	49	6	5	20	<1	<5	<10	0.14	30
656609		1.01	39	6	5	20	<1	<5	<10	0.12	32
656610		0.83	83	6	6	17	<1	<5	<10	0.15	27
656611		0.87	45	6	5	14	<1	<5	<10	0.15	32
656612		0.92	47	5	6	16	<1	<5	<10	0.14	29
656613		0.74	37	6	5	17	<1	<5	<10	0.13	29
656614		0.89	50	6	5	14	<1	<5	<10	0.13	33
656615		0.86	51	6	5	15	<1	<5	<10	0.13	28
656616		0.91	53	6	6	15	<1	<5	<10	0.13	30
656617		0.72	40	6	4	14	<1	<5	<10	0.12	30
656618		0.96	48	7	6	21	<1	<5	<10	0.14	27
656619		0.81	41	6	6	14	<1	<5	<10	0.12	32
656620		0.70	54	6	4	14	<1	<5	<10	0.15	30
656621		0.57	40	6	3	10	<1	<5	<10	0.12	32
656622		0.48	52	6	4	9	<1	<5	<10	0.08	31
656623		0.70	40	6	5	12	<1	<5	<10	0.15	32
656624		0.62	60	6	4	12	<1	<5	<10	0.09	28
656625		0.70	112	5	5	13	<1	<5	<10	0.11	23
656626		0.47	49	7	6	13	<1	<5	<10	0.15	31
656627		0.44	44	6	4	8	<1	<5	<10	0.10	25
656628		0.66	41	6	3	9	<1	<5	<10	0.09	27
656629		0.75	37	6	4	10	<1	<5	<10	0.09	28
656630		0.99	41	5	5	15	<1	<5	<10	0.14	27

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A. Berger



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REPORT: C97-60859.1 (COMPLETE)

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SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT
656631		<0.2	29	12	60	15	39	13	<0.2	<5	219	6	2.12

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SAMPLE NUMBER	ELEMENT UNITS	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT
656631		294	<10	105	286	30	<20	<20	32	1.39	0.82	0.42	0.07

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CLIENT: CYPRUS CANADA INC.
REPORT: C97-60859.1 (COMPLETE)

PROJECT: 5007
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SAMPLE NUMBER	ELEMENT UNITS	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM
656631		0.85	37	6	4	10	<1	<5	<10	0.11	32



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PROJECT: 5007
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SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT
656632		<0.2	23	18	62	14	27	11	<0.2	<5	93	7	1.56
656633		<0.2	27	20	55	14	33	12	<0.2	<5	120	12	1.96
656634		<0.2	37	21	65	10	37	15	<0.2	7	115	11	2.18
656635		<0.2	30	18	74	14	39	14	<0.2	5	97	9	2.33
656636		<0.2	31	22	66	14	37	13	<0.2	<5	88	10	2.09
656637		<0.2	36	22	81	14	41	15	<0.2	<5	98	13	2.45
656638		<0.2	34	20	61	14	38	14	<0.2	7	170	23	2.16
656639		<0.2	36	20	62	13	39	15	<0.2	5	134	17	2.41
656640		<0.2	22	19	50	13	28	11	<0.2	6	127	13	1.66
656641		<0.2	39	26	76	16	42	14	<0.2	7	250	20	2.36
656642		<0.2	80	16	89	9	54	32	<0.2	8	9373	17	6.17
656643		<0.2	99	20	90	10	66	35	<0.2	7	8281	17	6.60
656644		<0.2	521	11	62	11	42	32	<0.2	17	3927	21	8.13
656645		<0.2	322	8	40	8	28	43	<0.2	10	3697	14	3.49
656646		<0.2	141	8	32	6	113	47	<0.2	8	9072	24	3.90
656647		<0.2	33	11	27	5	164	39	<0.2	8	2081	11	3.28
656648		<0.2	20	16	39	5	253	54	<0.2	<5	955	13	3.64
656649		<0.2	36	18	40	4	322	65	<0.2	7	1347	15	3.74
656650		<0.2	38	8	35	5	305	67	<0.2	8	4698	23	3.76
656651		<0.2	22	8	42	3	534	84	<0.2	6	1499	23	2.85
656652		<0.2	68	17	244	12	118	31	0.5	9	850	11	4.85
656653		<0.2	48	16	75	9	64	20	<0.2	6	195	<5	3.64
656654		<0.2	50	23	123	10	47	18	<0.2	7	191	6	4.31
656655		<0.2	127	17	53	10	28	33	<0.2	9	6489	5	4.14
656656		<0.2	110	16	43	9	26	32	<0.2	7	3544	8	3.05
656657		<0.2	112	16	50	6	27	32	<0.2	8	238	6	3.28
656658		<0.2	96	18	49	8	21	26	<0.2	8	115	<5	3.51
656659		<0.2	195	17	35	5	25	27	<0.2	10	125	5	2.81
656660		<0.2	110	23	34	6	40	29	<0.2	7	144	<5	2.87
656661		<0.2	78	17	39	5	45	30	<0.2	<5	131	6	3.25
656662		<0.2	58	14	40	6	22	23	<0.2	6	87	6	3.42
656663		<0.2	59	13	44	6	29	25	<0.2	6	122	<5	2.99
656664		<0.2	80	13	65	8	54	30	<0.2	7	159	6	3.91
656665		<0.2	124	12	58	6	47	33	<0.2	10	121	<5	3.53
656666		<0.2	68	15	43	6	82	40	<0.2	6	196	8	3.35
656667		<0.2	69	17	69	9	39	27	<0.2	10	168	6	4.19
656668		<0.2	85	23	61	8	53	31	<0.2	12	190	6	3.85

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CLIENT: CYPRUS CANADA INC.
REPORT: C97-60860.1 (COMPLETE)

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SAMPLE NUMBER	ELEMENT UNITS	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT
656632		213	<10	94	248	21	<20	<20	25	1.09	0.65	0.59	0.10
656633		306	<10	111	247	28	<20	24	26	1.33	0.94	1.02	0.11
656634		421	<10	89	173	26	<20	21	24	1.46	1.03	1.91	0.05
656635		300	<10	117	266	39	<20	<20	19	1.65	1.22	0.67	0.10
656636		261	<10	119	267	35	<20	<20	20	1.39	1.04	0.33	0.11
656637		307	<10	156	267	41	<20	27	16	1.65	1.23	0.29	0.12
656638		292	<10	95	264	33	<20	21	20	1.54	1.08	0.45	0.11
656639		266	<10	129	222	35	<20	<20	18	1.76	1.15	0.45	0.09
656640		205	<10	94	231	20	<20	<20	21	1.18	0.68	0.43	0.08
656641		274	<10	149	265	36	<20	<20	16	1.62	1.18	0.48	0.09
656642		1220	<10	54	151	166	<20	<20	<1	2.31	2.17	5.76	0.07
656643		979	<10	51	150	183	21	<20	<1	2.13	2.08	5.48	0.09
656644		589	<10	70	131	125	<20	<20	<1	1.66	1.99	3.32	0.10
656645		200	<10	50	116	36	<20	<20	12	0.87	1.30	0.84	0.15
656646		348	<10	36	145	46	<20	22	6	1.09	1.91	2.15	0.15
656647		352	<10	34	167	42	<20	<20	5	1.29	2.31	1.89	0.13
656648		321	<10	40	238	36	<20	<20	5	1.58	2.75	1.21	0.07
656649		465	<10	23	234	28	<20	<20	7	1.24	2.45	2.60	0.02
656650		381	<10	3	202	22	<20	44	5	0.98	2.51	2.02	0.02
656651		900	<10	1	562	38	<20	<20	13	1.13	2.50	7.78	<0.01
656652		779	<10	102	255	50	<20	29	9	2.04	1.99	3.72	0.12
656653		546	<10	58	155	72	<20	44	11	2.14	2.23	1.79	0.20
656654		665	<10	87	143	73	<20	24	11	2.99	2.25	2.37	0.25
656655		669	<10	44	179	98	<20	<20	6	2.38	2.13	4.75	0.21
656656		607	<10	21	152	77	<20	29	9	2.00	1.68	5.35	0.24
656657		542	<10	47	131	96	<20	<20	8	2.05	2.01	2.25	0.28
656658		639	<10	7	133	108	<20	31	7	2.29	1.93	3.41	0.35
656659		424	<10	6	128	79	<20	<20	8	2.24	1.82	2.65	0.32
656660		433	<10	13	157	73	<20	<20	9	2.73	2.09	2.65	0.40
656661		495	<10	82	141	79	<20	<20	7	2.45	2.14	2.80	0.30
656662		548	<10	40	135	97	<20	<20	7	1.93	1.90	3.05	0.29
656663		499	<10	46	124	85	<20	<20	10	1.64	1.75	2.11	0.24
656664		628	<10	44	149	99	<20	<20	9	1.80	1.71	3.26	0.28
656665		729	<10	13	99	122	<20	24	8	1.55	1.48	4.25	0.25
656666		471	<10	7	166	72	<20	<20	7	2.05	2.49	2.02	0.19
656667		653	<10	30	127	108	20	<20	7	2.10	1.74	3.54	0.26
656668		642	<10	60	143	105	<20	41	7	2.83	1.98	4.18	0.33



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SAMPLE NUMBER	ELEMENT UNITS	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM
656632		0.63	38	6	<2	10	6	<5	<10	0.09	29
656633		0.71	47	6	<2	14	6	<5	<10	0.08	29
656634		0.71	50	7	<2	15	7	<5	<10	0.08	29
656635		0.95	31	7	2	20	6	<5	<10	0.15	32
656636		0.87	27	6	<2	15	6	<5	<10	0.13	30
656637		1.07	32	6	<2	16	6	<5	<10	0.16	34
656638		0.95	38	7	<2	16	7	<5	<10	0.13	34
656639		1.06	34	7	3	19	6	<5	<10	0.13	35
656640		0.70	30	5	<2	11	5	<5	<10	0.08	29
656641		1.01	31	5	3	15	4	<5	<10	0.12	28
656642		1.47	45	6	<2	23	3	19	<10	0.14	4
656643		1.45	20	7	<2	18	5	20	<10	0.15	3
656644		1.07	15	7	<2	16	4	12	<10	0.14	8
656645		0.44	8	5	<2	7	4	<5	<10	0.08	16
656646		0.47	16	6	<2	9	4	6	<10	0.08	6
656647		0.55	12	6	<2	10	4	6	<10	0.09	3
656648		0.77	7	4	<2	12	3	5	<10	0.10	3
656649		0.19	18	4	<2	5	2	<5	<10	0.05	2
656650		0.03	16	3	<2	2	2	<5	<10	0.03	2
656651		<0.01	38	7	<2	<1	4	6	<10	0.01	2
656652		0.95	22	7	<2	18	5	8	<10	0.15	9
656653		0.34	23	9	<2	17	6	10	<10	0.09	10
656654		0.26	49	10	<2	27	8	11	<10	0.10	7
656655		0.41	33	9	<2	19	5	14	<10	0.09	2
656656		0.19	29	8	<2	11	5	12	<10	0.07	2
656657		0.38	17	7	<2	13	5	13	<10	0.12	2
656658		0.07	23	9	<2	8	6	16	<10	0.12	2
656659		0.06	28	6	<2	8	4	12	<10	0.09	1
656660		0.07	45	5	<2	11	3	10	<10	0.09	1
656661		0.19	32	6	<2	13	4	12	<10	0.11	1
656662		0.18	25	8	<2	11	5	15	<10	0.12	2
656663		0.24	17	8	<2	11	5	12	<10	0.11	3
656664		0.18	16	10	<2	9	7	13	<10	0.12	5
656665		0.08	16	10	<2	7	7	15	<10	0.13	2
656666		0.07	12	6	<2	12	4	10	<10	0.09	2
656667		0.26	18	11	<2	11	7	13	<10	0.12	4
656668		0.27	41	10	<2	12	7	12	<10	0.13	4

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APPENDIX 4 - Sample Prep and Analytical Procedures

Appendix 3

Inchcape Testing Services - Sample Preparation Procedure

Routine sample preparation.

- 1) Dry, crush 70% minus 20 mesh.
- 2) Split a subsample of 500 g. using Jones Riffle splitter.
- 3) Pulverize 98% minus 200 mesh using Ring and Puck type pulverizer.
- 4) Homogenizing on a mat prior to take the sub sample for analysis.

Inchcape Testing Services - Gold Analytical Procedure

Determination of Gold by Fire Assay lead collection AAS measurement and gravimetric finish.

- 1) 30 grams of powdered sample is weighed into a fusion crucible.
- 2) The sample is then mixed with a lead oxide base flux, silica powder, flour or potassium nitrate are added to the mixture depending on the characteristics of the sample.
- 3) A amount of silver is added to the mixture, normally around 4 mg.
- 4) A charge of 24 pots or crucibles are fused at 1050 degree C. for not less than 45 minutes (21 unknown + 1 blank and 1 standard + 1 pulp duplicate).
- 5) Then the fusion melt is poured into a cast iron mould and allowed to cool.
- 6) The collecting agent, lead metal, is then separated from the "glass like"-slag.
- 7) The lead button is then heated at 850 degree C. on a magnesium crucible referred as cupel, the lead is absorbed by the cupel leaving the precious metals on the surface of this same cupel in the form of a bead, referred as to "Dore Bead".

AAS Measurement

- 1) The Dore Bead is digested in aqua-regia for 1-2 hours.
- 2) Gold concentration in solution is then measured using Atomic Absorption Spectrometry.

Gravimetric Finish

- 1) The Dore Bead is digested is then flattened and placed in nitric acid to dissolve all the silver. The solution is then decanted and remaining dore bead is dried and annealed to remove all the carbon coating.
- 2) The clean bead (Gold) is then weighed on a micro-balance to determine the concentration (1mg Au = 1oz/Ton = 34.286g/t).

Inchcape Testing Services - ICP Analytical Procedure

Inductive Coupled Plasma Determination (ICP)

- 1) 0.5 gms of -150 mesh sample is weighed out.
- 2) Sample is digested in a mixture of nitric and hydrochloric acids (aqua-regia).
- 3) The sample is heated to enhance the digestion. Heating time is two hours.
- 4) Once finished digestion, the sample is made up to a volume of 10 mls with deionized water.
- 5) Sample is analysed with an inductively coupled plasma (ICP).

APPENDIX 5 - Petrographic Report

Petrographic Contract
for
Cyprus Canada Inc.
Andrew Tims, Geologist
Box 1120, 66 Bruce Avenue
South Porcupine, Ontario
P0N 1H0

by
Stephen A. Prevec, *Ph.D.*
Dept. of Earth Sciences
Laurentian University
Sudbury, Ontario
P3E 2C6

(705)670-5638

Summary

This suite of samples is characterized by textures dominated by a fine-grained groundmass dominated by recrystallized quartz, usually associated with laths of brown biotite and disseminated oxides and usually trace sulphides. Within this groundmass are metamorphic poikiloblasts of amphibole, most commonly an alkalic blue-green to dark olive green hornblende, and pink, poikiloblastic garnet. These blasts are present in amounts varying from almost 60% of the rock (SKTS-03) to totally absent (SKTS-01, 02), reflecting variations in bulk rock chemistry, most likely. In addition, aggregates of medium-grained, strained quartz are present as nearly equant blebs or as almost veinlets. Most enigmatic is the presence of medium grained plagioclase feldspar as isolated altered and recrystallized clasts (as in SKTS-01 and 02) or as very coarse (1 cm) aggregates (as in SKTS-05). There is some evidence, albeit somewhat circumstantial, such as high iron oxide content and possible serpentine-opaque remnants, which may suggest the inclusion of fragments of mafic igneous rock as the source of the feldspars.

Metamorphic grade is fairly consistently at least mid-amphibolite, and the rocks are generally well-lineated, occasionally suggesting incipient gneissosity (SKTS-03). One sample (SKTS-04) shows alteration of the blue-green hornblende to a more fibrous, less calcic amphibole, possibly indicating thermal metamorphism. The pervasiveness of the metamorphism and recrystallization precludes a clear indication as to the protolith, although the quartz-rich nature of the groundmass is suggestive of a sedimentary origin.

Sulphides are present in trace amounts only, and are dominated either by pyrite or pyrrhotite, and frequently both, with much lesser amounts of chalcopyrite presumably exsolving out of sulphide solid solution and occurring as rims or veinlets within the iron sulphides. There is no evidence that sulphide crystallization postdated the deformation; in fact, the deformation has post-dated the formation of all the minerals, aligning, deforming and straining all of them. A late, chlorite-filled veinlet is evident only in sample SKTS-02, indicating some later fracturing and fluid activity.

Sample SKTS-01, 02

These two samples are characterized by a fine-grained quartz-rich groundmass with coarser porphyroclasts of feldspar and aggregates of medium to coarse-grained quartz. The hand specimen is grey, massive, and granular in appearance from the medium-grained clasts.

The porphyroclasts consist of two types, as mentioned. One type consists of aggregates of medium-grained quartz showing undulose (strained) extinction, and often a larger central grain appears to be rimmed by finer-grained quartz. Fracturing may traverse the aggregate, suggesting recrystallization and deformation of a pre-existing coarser quartz grain. Feldspar grains are quite common, varying from medium- to coarse-grained, and are extensively recrystallized, with very irregular boundaries. Twinning may be preserved, and although often has the appearance of simple twins (consistent with alkali feldspar), apparent albite-law polysynthetic twinning be be weakly preserved, as shown in Plates 1A and 1B. In addition, although the feldspar is extensively altered to fine-grained hydrous minerals, such as sericite, occasionally chlorite-epidote group minerals are evident, such as clinozoisite. This is also more consistent with alteration of a calcium-bearing plagioclase feldspar. Finally, the recrystallization of the feldspars has produced a sub-solidus intergrowth texture of the host feldspar and fine-grained vermicules of quartz or sodic feldspar, reminiscent of recrystallized perthitic textures.

The groundmass consists of fine-grained interlocking recrystallized quartz, plus occasional feldspar, within which laths of fine-grained, weakly foliated brown biotite are scattered. Opaques consist mainly of pyrite, with lesser amounts of iron oxide. The opaques show a weakly defined tendency to associate with the plagioclase grains. Accessory zircon is also present. A late veinlet containing chlorite cross-cuts all other textures in SKTS-02.

Estimated modes:

50% quartz (fine-grained)
20% quartz (medium-grained clots)
15% feldspar (plagioclase)
10% biotite
4% pyrite
trace oxides
trace zircon

Paragenesis

These samples are sufficiently well-recrystallized to make distinctions between sedimentary and volcanogenic protoliths difficult. The coarse feldspar in particular may have been inherited, and the relative absence of feldspar in the groundmass favours a sedimentary protolith for the bulk rock. The rock has suffered upper greenschist grade metamorphism (at least; with so few aluminous minerals, it is difficult again to monitor), and associated fracturing, straining, and alignment of the minerals. These rocks would be micaceous quartzites with plagioclase clasts or blasts; the mica content is probably too low to justify schistose terminology.

Sample SKTS-03

This sample is very distinctive in appearance in hand specimen, characterized by coarse-grained (2-5 mm) equant pink garnets, similar sized green amphiboles, and coarse quartzose blebs (elongated, up to 15 mm long) set in a fine-grained groundmass. The hand specimen is non-magnetic.

The porphyroblasts consist of extremely poikilitic-textured, subidioblastic pale-pink almandine garnet, with inclusions of quartz and minor opaques (oxides), as shown in Plate 1C. These are associated with almost equally poikilitic dark green to olive green to nearly turquoise green hornblende amphiboles. The coarse quartzose or quartzofeldspathic clasts or blasts are unfortunately not well represented in the polished section; small aggregates of medium-grained quartz grains are present, similar to those observed in SKTS-01 and 02. Larger veinlets consisting of aggregates of medium-grained quartz are also evident, showing undulose extinction. All of these three minerals show preferred orientation, ranging from alignment of elongate axes of stretched or broken up grains to some metamorphic differentiation (*i.e.*, amphibole-rich layers versus quartz-rich, amphibole-poor layers), perhaps reflecting incipient gneissosity.

The groundmass again consists of fine-grained interlocking (recrystallized) grains of quartz with pale brown biotite, as shown in Plate 1D. Fine-grained opaques are most commonly associated with the amphiboles and garnets, and consist almost entirely of iron oxides, although both pyrite and pyrrhotite are present as finer grains, with lesser amounts of chalcopyrite along margins or fractures within the other sulphide, as shown in Plates 2A and 2B. Coarse, subidioblastic oxide grains are common as well, associated with the amphiboles and garnets.

Estimated modes:

40% alkalic hornblende
20% quartz (fine-grained)
15% garnet (almandine)
15% biotite
5% quartz (medium-grained clots)
5% oxide
trace sulphides (py, po, cpy)

Paragenesis

This rock is a more aluminous, more alkalic equivalent to the two described above, as required by the presence of the garnet and the blue-green amphibole, respectively. In addition, this rock has reached higher metamorphic grades, as evidenced by the incipient gneissosity. Breakdown of feldspars as seen in SKTS-01 and 02 could have provided a source of aluminum and calcium for amphibole formation. The poikiloblastic nature of the coarse-grained minerals combined with their deformation and alignment indicates that they grew during metamorphism, but sufficiently early that they were also affected by the deformation subsequently. This sample reflects at least middle amphibolite grade metamorphism, and would be a hornblende-garnet schist or possibly a gneiss.

Sample SKTS-04

This sample is fine- to medium-grained, green and granular in hand specimen, and is also non-magnetic. In thin section it can be divided into medium- to fine-grained amphiboles and a fine-grained quartzofeldspathic groundmass.

The porphyroblasts of amphibole are present as two distinct types, weakly poikilitic and closely intergrown, as displayed in Plate 2C. A pleochroic pale greenish-brown to dark olive green hornblende, similar to those described in sample SKTS-03 but less alkalic, is intergrown with a colourless, fibrous, higher birefringence amphibole, probably cummingtonite. This less calcic amphibole generally occurs marginally to the coarser, more equant grains of the hornblende, suggesting that the cummingtonite is younger. Minor flakes of brown biotite are associated with the amphibole. The amphiboles are fairly well linedated.

Feldspar occurs as fine-grains in the groundmass, as described below, and as medium-grained crystals similar to those described in SKTS-01 and 02, showing very poorly-preserved twinning and strongly poikilitic-looking texture, in addition to pervasive sericitic alteration.

The groundmass consists of very well-recrystallized, annealed-looking quartz and feldspar, with a much higher feldspar component than in the previously described sections. The feldspar is identified on the basis of its alteration to fine-grained sericite and/or clay minerals, producing clouded grains. Fine-grained opaques are disseminated throughout the rock, consisting mostly of iron oxides with trace amounts of pyrite, pyrrhotite and chalcopyrite.

Estimated modes:

60% quartzofeldspathic groundmass
30% two-amphibole intergrowth
 20% cummingtonite
 10% hornblende
9% feldspar
1% opaques (mag, po, py, cpy)
trace biotite

Paragenesis

This rock is a two-amphibole quartzofeldspathic metamorphic rock, although the absence of either metamorphic layering or significant mica content make either gneiss or schist somewhat inappropriate as field designations. The change from the more calcic and alkalic amphibole to the more typically hornfelsic-associated amphibole may be consistent with a locally higher-temperature regime.

Sample SKTS-05

This sample is fine- to medium-grained, dark grey, and contains lineated 2-3 mm long greyish-green amphiboles and equant 4-5 mm blebs of quartzofeldspathic material in an otherwise quartzofeldspathic groundmass. The hand specimen is non-magnetic.

The thin section consists again of a groundmass dominated by fine-grained quartz and biotite as described previously, within which medium-grained well-developed poikiloblastic green to blue-green hornblende and prominent iron oxides reside. Within this familiar setting are found clots and elongate stringers consisting of medium-grained, weakly-strained quartz. Occasional subidioblastic, poikioblastic garnet is also present.

This sample also displays a coarse (about 1 cm) "grain" consisting largely of fine-grained plagioclase feldspars. Around the edges of this aggregate, individual feldspars may display albite twinning, although sericitization and recrystallization are fairly pervasive. The centre of this glomeroclast is completely altered, mostly to sericite, but locally fine- to medium-grained epidote and chlorite are present. Grains of iron oxide altered along rims and fractures to chlorite or possibly even serpentine may reflect altered, unaltered pyroxene. Blue-green amphibole is also present within this coarse aggregate.

Plate 2D shows coarse, subidioblastic iron oxide with finer grained, allotrioblastic pyrrhotite grains, present as trace sulphides. Very minor chalcopyrite is present, and no pyrite was observed.

Estimated modes:

30% quartz (fine-grained)
20% hornblende (alkalic)
15% quartz (medium-grained)
15% plagioclase feldspar
15% biotite
4% oxides
1% garnet
trace sulphides (po, cpy)

Paragenesis

This sample again represents a lineated, amphibolite-facies metamorphosed aluminous quartz-rich rock as before. The coarse clast of epidotized plagioclase feldspars with possible relict mafic mineral breakdown products is strongly suggestive of a xenolithic fragment of a mafic igneous rock such as a diabase or equivalent.

Photomicrographs

Plate 1A (upper left)

Characteristic texture from SKTS-01, showing altered feldspar grain in a fine-grained groundmass of quartz and biotite. Note relict twinning in feldspar and anomalous-blue coloured chloritic mineral, along with sericitic alteration (width of field = 14 mm; x-polars).

Plate 1C (lower left)

Extremely poikilitic garnet grain, surrounded by poikilitic green to blue-green amphibole, with inclusions of quartz and biotite, from SKTS-03 (width of field = 36 mm; ppl).

Plate 1B (upper right)

Relict feldspar grain in foliated quartz-biotite groundmass, showing twinning remnant, from SKTS-02 (width of field = 14 mm; x-polars).

Plate 1D (lower right)

Typical groundmass texture of SKTS-03, showing fine-grained, randomly-oriented biotite laths in quartz. Coarse "layering" defined by amphibole and garnet grains on the right (width of field = 36 mm; ppl).



Plate 2A (upper left)

Rare crystal of pyrite from SKTS-03, with chalcopyrite veins within and earlier oxide grains at the margins. Opaques in this rock are mostly oxides (width of field = 1.8 mm; reflected light).

Plate 2C (lower left)

Two-amphibole texture in a fine-grained quartz plus oxide groundmass; colourless, fibrous cummingtonite is intergrown with non-fibrous, dark green pleochroic poikilitic hornblende, from SKTS-04 (width of field = 14 mm; ppl).

Plate 2B (upper right)

Pitted crystal of pyrrhotite with trace marginal chalcopyrite, also from SKTS-03 (width of field = 4.4 mm; reflected light).

Plate 2D (lower right)

Anhedra pyrrhotite grains with coarse, subhedral magnetite, from SKTS-05 (width of field = 4.4 mm; reflected light).

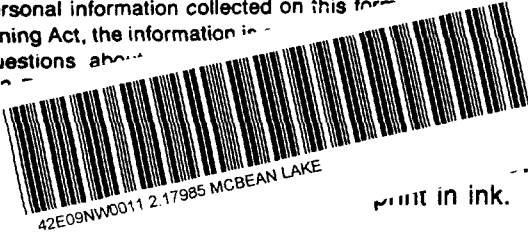


Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

Transaction Number (office use) W-9740.01121 Assessment Files Research Imaging

Personal information collected on this form... Questions about...



900

2.17985

of subsections 65(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act, the information is to be reviewed and correspond with the mining land holder. Recorder, Ministry of Northern Development and Mines, 6th Floor,

Lands before recording a claim, use form 0240.

print in ink.

Recorded holder(s) (Attach a list if necessary)

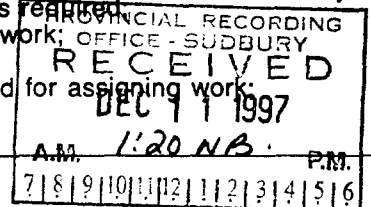
Table with columns: Name, Address, Client Number, Telephone Number, Fax Number. Includes Cyprus Canada Inc. and blank rows.

2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

- Geotechnical: prospecting, surveys, assays and work under section 18 (regs)
Physical: drilling, stripping, trenching and associated assays
Rehabilitation

Work Type: Diamond Drilling - 1,851 metres, Assays - 549 samples. Office Use: Commodity, Total \$ Value of Work Claimed 123,338.00, NTS Reference, Mining Division Thunders Bay, Resident Geologist Thunders Bay.

Please remember to: - obtain a work permit from the Ministry of Natural Resources as required; - provide proper notice to surface rights holders before starting work; - complete and attach a Statement of Costs, form 0212; - provide a map showing contiguous mining lands that are linked for assigning work; - include two copies of your technical report.



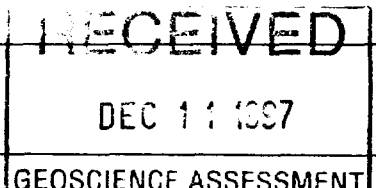
3. Person or companies who prepared the technical report (Attach a list if necessary)

Table with columns: Name, Address, Telephone Number, Fax Number. Includes Andrew A. B. Tims, David B. Stevenson, and Norex Drilling Ltd.

4. Certification by Recorded Holder or Agent

I, Andrew Tims, do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent, Date Nov 28/97, Agent's Address, Telephone Number, Fax Number.



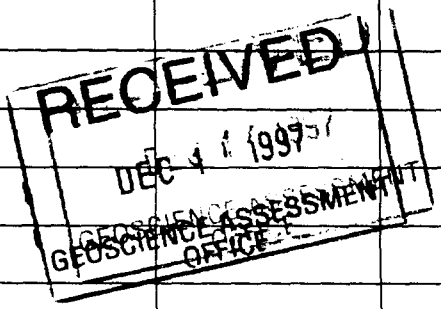
attached 11 1997

5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$8,892	\$4,000	0	\$4,892
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
Column Totals					

See Attached

26,825



I, Andrew Tims, do hereby certify that the above work credits are eligible under subsection 7(1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing: [Signature] Date: Nov 11/97

6. Instructions for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- 3. Credits are to be cut back equally over all claims listed in this declaration; or
- 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only

Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
Approved for Recording by Mining Recorder (Signature)		

DEC 12 '97 13:49

Skinner Project - 5007

Work to be Recorded and Distributed
First Pass Drilling

Revised Copy

12/12/97

1212971	16		6,400.00 ✓		0.00
1212972	16	11,500.00	9,600.00	1,900.00 ✓	0.00
1212973	15	10,130.00	8,978.00	1,152.00 ✓	0.00
1212974	14		7,000.00 ✓		0.00
1212975	15		7,500.00 ✓		0.00
1212976	16	10,500.00	8,000.00	2,500.00 ✓	0.00
1212977	12	10,100.00	6,000.00	4,100.00 ✓	0.00
1212978	15	41,900.00	7,500.00	12,848.00 ✓	21,552.00
1212979	12	24,808.00	6,000.00	18,800.00 ✓	8.00
1212980	15		6,000.00 ✓		0.00
1212981	14		5,600.00 ✓		0.00
1212982	15		6,000.00 ✓		0.00
1212983	14		5,600.00 ✓		0.00
1212984	14	14,400.00	7,000.00	7,400.00 ✓	0.00
1212985	9		3,600.00 ✓		0.00
1212986	2		1,000.00 ✓		0.00
1215973	4		0.00		0.00
1215974	4		0.00		0.00
1215975	4		0.00		0.00
1215980	12		0.00		0.00
1215983	16		0.00		0.00
1215987	16		0.00		0.00
1215988	16		0.00		0.00
1215989	10		0.00		0.00
1215990	16		0.00		0.00
1215991	16		0.00		0.00
1215992	16		0.00		0.00
1215993	16		0.00		0.00
1215995	13		0.00		0.00
		123,338	101,778	48,700	21,560

217985

U. 9740.01121

705 235 5700

PAGE.03

Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

2.17985

Work Type	Units of Work <small>Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.</small>	Cost Per Unit of work	Total Cost
Diamond Drilling	1851 Metres	47.15/metre	\$87,283
Labour	2 Geologists, 1 Tech x 28 days	808/day	\$22,641
Assaying	549 Samples	8.75/sample	4,805
Associated Costs (e.g. supplies, mobilization and demobilization).			
Supplies			\$7,400
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> PROVINCIAL RECORDING OFFICE - SUDBURY RECEIVED DEC 11 1997 A.M. 1:20 P.M. 7 8 9 10 11 12 1 2 3 4 5 6 </div>			
Transportation Costs			
Samples - Manitowish Transport			\$1,209
Food and Lodging Costs			
Campsite Rent, Lodging, Groceries, Meals			\$10,096
Total Value of Assessment Work			\$123,338

RECEIVED
 GEOSCIENCE ASSESSMENT
 OFFICE

Calculations of Filing Discounts:

1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work. If this situation applies to your claims, use the calculation below:

TOTAL VALUE OF ASSESSMENT WORK x 0.50 = Total \$ value of worked claimed.

Note:

- Work older than 5 years is not eligible for credit.
- A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.

Certification verifying costs:

I, Andrew Timis (please print full name), do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work form as Agent I am authorized (recorded holder, agent, or state company position with signing authority) to make this certification.

Signature <i>Andrew Timis</i>	Date Nov 28/97
----------------------------------	-------------------

February 23, 1998

ANDREW TIMS
CYPRUS CANADA INC.
66 BRUCE AVENUE
BOX 1120
SOUTH PORCUPINE, ONTARIO
P0N-1H0

Geoscience Assessment Office
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

Telephone: (888) 415-9846
Fax: (705) 670-5881

Dear Sir or Madam:

Submission Number: 2.17985

Status

Subject: Transaction Number(s): W9740.01121 Deemed Approval

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. **WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.**

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact Steve Beneteau by e-mail at benetest@epo.gov.on.ca or by telephone at (705) 670-5855.

Yours sincerely,



ORIGINAL SIGNED BY
Blair Kite
Supervisor, Geoscience Assessment Office
Mining Lands Section

Work Report Assessment Results

Submission Number: 2.17985

Date Correspondence Sent: February 23, 1998

Assessor: Steve Beneteau

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9740.01121	1212972	ADREY , MCBEAN LAKE	Deemed Approval	February 20, 1998

Section:

16 Drilling PDRILL

Correspondence to:

Resident Geologist
Thunder Bay, ON

Recorded Holder(s) and/or Agent(s):

ANDREW TIMS
CYPRUS CANADA INC.
SOUTH PORCUPINE, ONTARIO

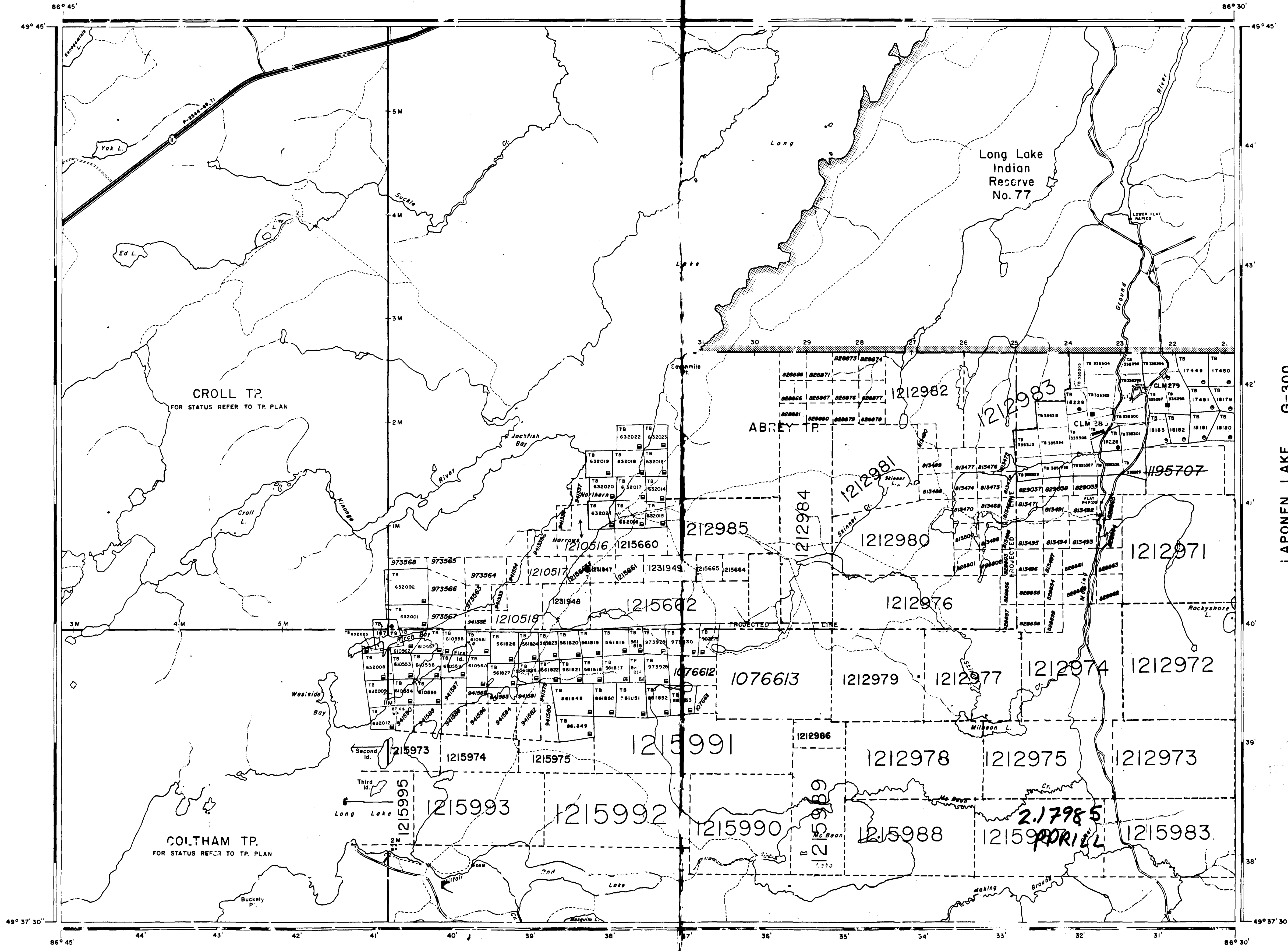
Assessment Files Library
Sudbury, ON

NOTES

400' surface rights reservation along the shores of all lakes and rivers.

NOTICE:
The information that appears on this map has been compiled from various sources and accuracy is not guaranteed. Those wishing to stake MINING CLAIMS should consult with the MINING RECORDER, Ministry of Northern Development and Mines, for additional information on the status of the lands shown hereon.

LONGLAC AREA & OAKES TP. G-307



REFERENCES

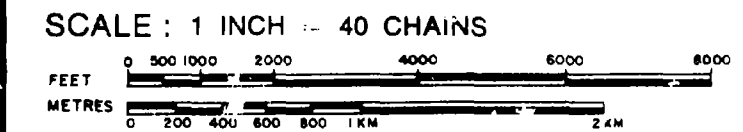
LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
 - TOWNSHIPS, BASE LINES, ETC.
 - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
 - LOT LINES
 - PARCEL BOUNDARY
 - MINING CLAIM, ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- RESERVATIONS
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

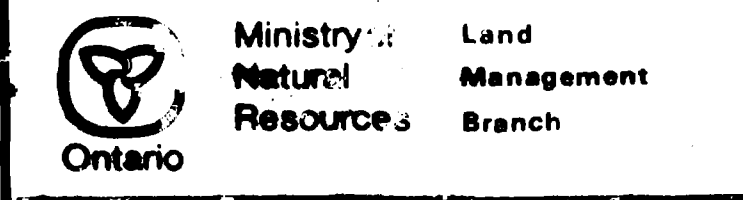
TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
- SURFACE RIGHTS ONLY	○
- MINING RIGHTS ONLY	◐
LEASE, SURFACE & MINING RIGHTS	◑
- SURFACE RIGHTS ONLY	◒
- MINING RIGHTS ONLY	◓
LICENCE OF OCCUPATION	▽
CROWN LAND SALE	CS
ORDER-IN-COUNCIL	OC
RESERVATION	⊙
CANCELLED	⊖
SAND & GRAVEL	⊗

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1912, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 300, SEC. 43, SUBSEC. 1.



AREA
Mc BEAN LAKE

F.N.R. ADMINISTRATIVE DISTRICT
GERALDTON
MINING DIVISION
THUNDER BAY
LAND TITLE REGISTRY DIVISION
THUNDER BAY



Date: **AUG. 21, 1993** Sheet: **G-321**

48883





CROLL TWP.

ABREY TWP.

LONG LAKE

LONG LAKE INDIAN RESERVE 77

CYPRUS-SKINNER

2 .17985

Croll Lake

COLTHAM TWP.

1212985

1212984

1212982

1212983

1212981

T.L. 3900N

98621.8

1212980

DRILL ROAD

T.L. 2000N

1212976

SK97-05

SK97-01

1212971

1212974

1212972

1212979

SK97-02

SK97-07

GRID A
B.L. 0 85° Az.

L 41W

SK97-03

SK97-06

SK97-07

1212986

1212978

Milbean Lake

1212975

1212973

SK97-08

1215973

1215974

1215975

1215991

SK97-10

SK97-09

SK97-04

1215989

SK97-11

1215980

1215995

1215993

1215992

1215990

1215988

1215987

1215983

McBean Lake

L 13E



Cyprus Canada Inc.
A Cyprus Amax Company

SKINNER PROPERTY
DIAMOND DRILL HOLE LOCATION

Drawn: L.F.L.	Checked:	Scale: 1:20,000	Drawing: SK-DDHLC
Date: April 4, 1997	Revised: June 9, 1997	Province: Ontario	NTS: 42E/10



210

2600W SK97-01 1400N 2600W

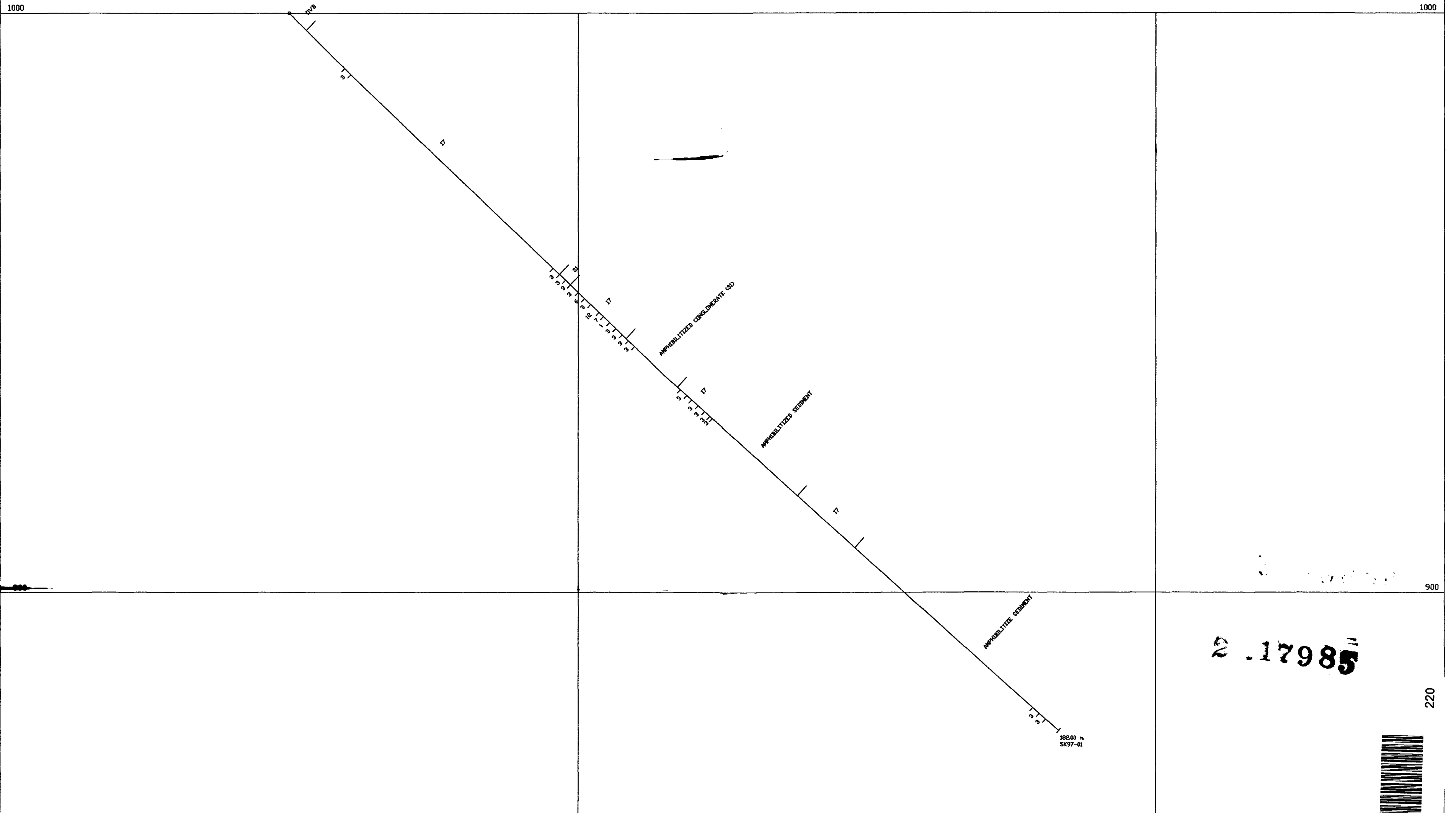
1000 1000

900 900

220 220

LEGEND

S1	SEDIMENTS	ASPY	OTHER ABBREVIATIONS
S2	CONGLOMERATE	DISS	ARSENOPYRITE
S3	GREYWACKE	FG	DISSEMINATED
S3D	DIRTY GREYWACKE/REWORKED TUFF	LDC	FINE GRAINED
S3L	LITHIC GREYWACKE	MN	LOCAL
S4	ARGILLITE	MND	MINOR
S10	SILTSTONE	MOD	MODERATE
S13	BIOTITE AMPHIBOLITE GARNET METASEDIMENT	NRW	NARROW
F2	BANDED IRON FORMATION	DB	OVERBURDEN
F2L	LEAN IRON FORMATION	SIL	SILICEOUS
		SLP	SLOPE
		STR	STRINGER
		STRG,STRGLY	STRONGLY
14	INTRUSIVES	TR	TRACE
14a	MAFIC INTRUSIVE	VN	VEIN
16	GABBRO	VY	VERY
17	QUARTZ FELDSPAR PORPHYRY	VK,WKLY	WEAK, WEAKLY
17	FELDSPAR PORPHYRY		
18	DIABASE		
V6	VOLCANICS		
V7	DACITE (INTERMEDIATE VOLCANIC)		
V7LP	MAFIC VOLCANICS		
V7M	MAFIC LAPILLI TUFF		
V7T	MASSIVE MAFIC FLOW		
	MAFIC ASH TUFF		
ANK	ABBREVIATIONS		
CB	ANKERITE		
CBZD	CARBONATE		
CPY	CARBONATIZED		
CHL	CHALCOPYRITE		
MT	CHLDRITE		
PIL	MAGNETITE		
PY	PILLOWED		
QZ	PYRITE		
QV	QUARTZ		
SER	QUARTZ VEIN		
SH,SHD	SERCITE		
	SHEAR, SHEARED		



Cyprus Canada Inc.
A Cyprus Amax Company

SKINNER-GERALDTON PROPERTY
(Looking West)
CLAIM T.B. 1212976
SECTION: 2600W DDH NO.: SK97-01

Drawn: L.F.L./A.T.	Checked:	Scale: 1:500	Drawing: SK97-1
Date: June 2, 1997	Revised: June 6, 1997	Province: Ontario	NTS: 42E/10

0 25 50 METERS



700N

800N

2600W

2600W

1000

1000

900

900

2.17985

LEGEND

SEDIMENTS		OTHER ABBREVIATIONS	
S1	CONGLOMERATE	ASPY	ARSENOPYRITE
S3	GREYWACKE	DISS	DISSEMINATED
S3D	DIRTY GREYWACKE/REWORKED TUFF	FG	FINE GRAINED
S3L	LITHIC GREYWACKE	LOC	LOCAL
S4	ARGILLITE	MIN	MINOR
S10	SILTSTONE	MID	MODERATE
S13	BIDTITE AMPHIBOLITE GARNET METASEDIMENT	NRV	NARROW
F2	BANDED IRON FORMATION	OB	OVERBURDEN
F2L	LEAN IRON FORMATION	SIL	SILICEDUS
		SLP	SLOPE
		STR	STRINGER
		STRG,STRGLY	STRINGLY
		TR	TRACE
		VN	VEIN
		VY	VERY
		WK,WKLY	WEAK, WEAKLY
INTRUSIVES			
14	MAFIC INTRUSIVE		
14a	GABBRO		
16	QUARTZ FELDSPAR PORPHYRY		
17	FELDSPAR PORPHYRY		
18	DIABASE		
VOLCANICS			
V6	DACITE (INTERMEDIATE VOLCANIC)		
V7	MAFIC VOLCANICS		
V7LP	MAFIC LAPILLI TUFF		
V7H	MASSIVE MAFIC FLOW		
V7T	MAFIC ASH TUFF		
ABBREVIATIONS			
ANK	ANKERITE		
CB	CARBONATE		
CBZD	CARBONATIZED		
CPY	CHALCOPYRITE		
CHL	CHLORITE		
MT	MAGNETITE		
PIL	PILLOWED		
PY	PYRITE		
QZ	QUARTZ		
QV	QUARTZ VEIN		
SER	SERICITE		
SH,SHD	SHEAR, SHEARED		

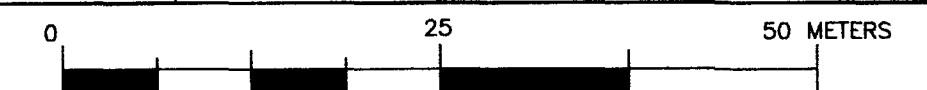


Cyprus Canada Inc.
A Cyprus Amax Company

SKINNER-GERALDTON PROPERTY
(Looking West)
CLAIM T.B. 1212979

SECTION: 2600W DDH NO.: SK97-02

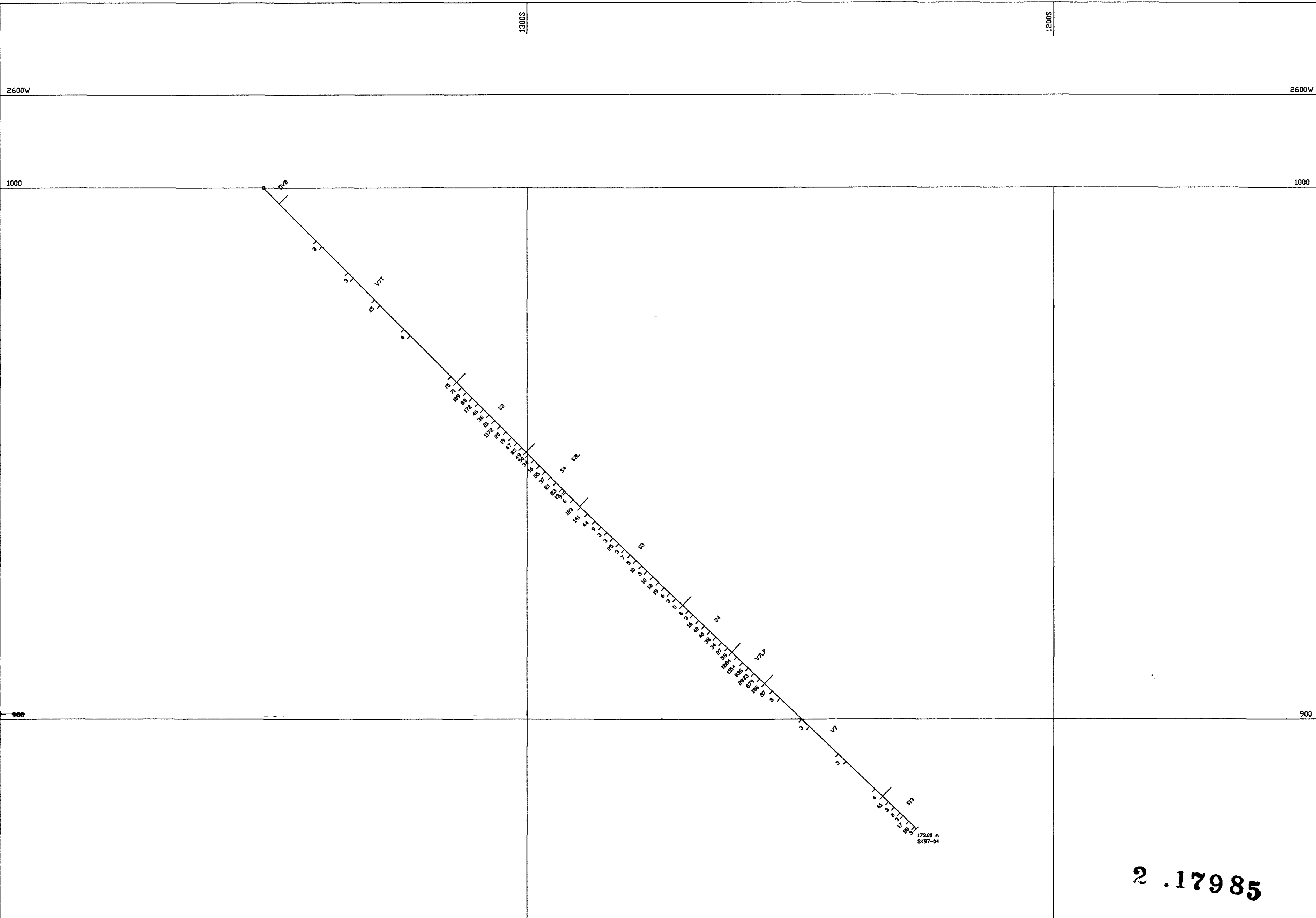
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Date: June 2, 1997	Revised: June 6, 1997	Province: Ontario	NTS: 42E/10



230

700N

800N



LEGEND

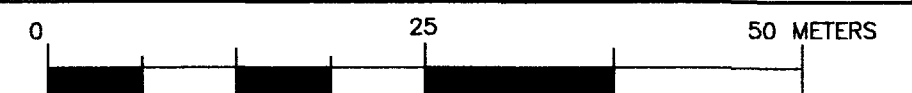
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S1	CONGLOMERATE	ASPY	ARSENOPYRITE
S3	GREYWACKE	DISS	DISSEMINATED
S3D	DIRTY GREYWACKE/REVORKED TUFF	FG	FINE GRAINED
S3L	LITHIC GREYWACKE	LDC	LOCAL
S4	ARGILLITE	MIN	MINOR
S10	SILTSTONE	MOD	MODERATE
S13	BIOTITE AMPHIBOLITE GARNET METASEDIMENT	NAR	NARROW
F2	BANDED IRON FORMATION	DB	OVERBURDEN
F2L	LEAN IRON FORMATION	SIL	SILICEOUS
		SLP	SLOPE
		STR	STRINGER
		STRG,STRGLY	STRONG(LY)
		TR	TRACE
		VN	VEIN
		VY	VERY
		WK,WKLY	WEAK, WEAKLY
INTRUSIVES			
14	MAFIC INTRUSIVE		
14a	GABBRO		
16	QUARTZ FELDSPAR PORPHYRY		
17	FELDSPAR PORPHYRY		
18	DIABASE		
VOLCANICS			
V6	DACITE (INTERMEDIATE VOLCANIC)		
V7	MAFIC VOLCANICS		
V7L	MAFIC LAPILLI TUFF		
V7N	MASSIVE MAFIC FLOW		
V7T	MAFIC ASH TUFF		
ABBREVIATIONS			
ANK	ANKERITE		
CB	CARBONATE		
CBZD	CARBONATIZED		
CPY	CHALCOPYRITE		
CHL	CHLORITE		
MT	MAGNETITE		
PIL	PILLOWED		
PY	PYRITE		
QZ	QUARTZ		
QV	QUARTZ VEIN		
SER	SERICITE		
SH,SHD	SHEAR, SHEARED		



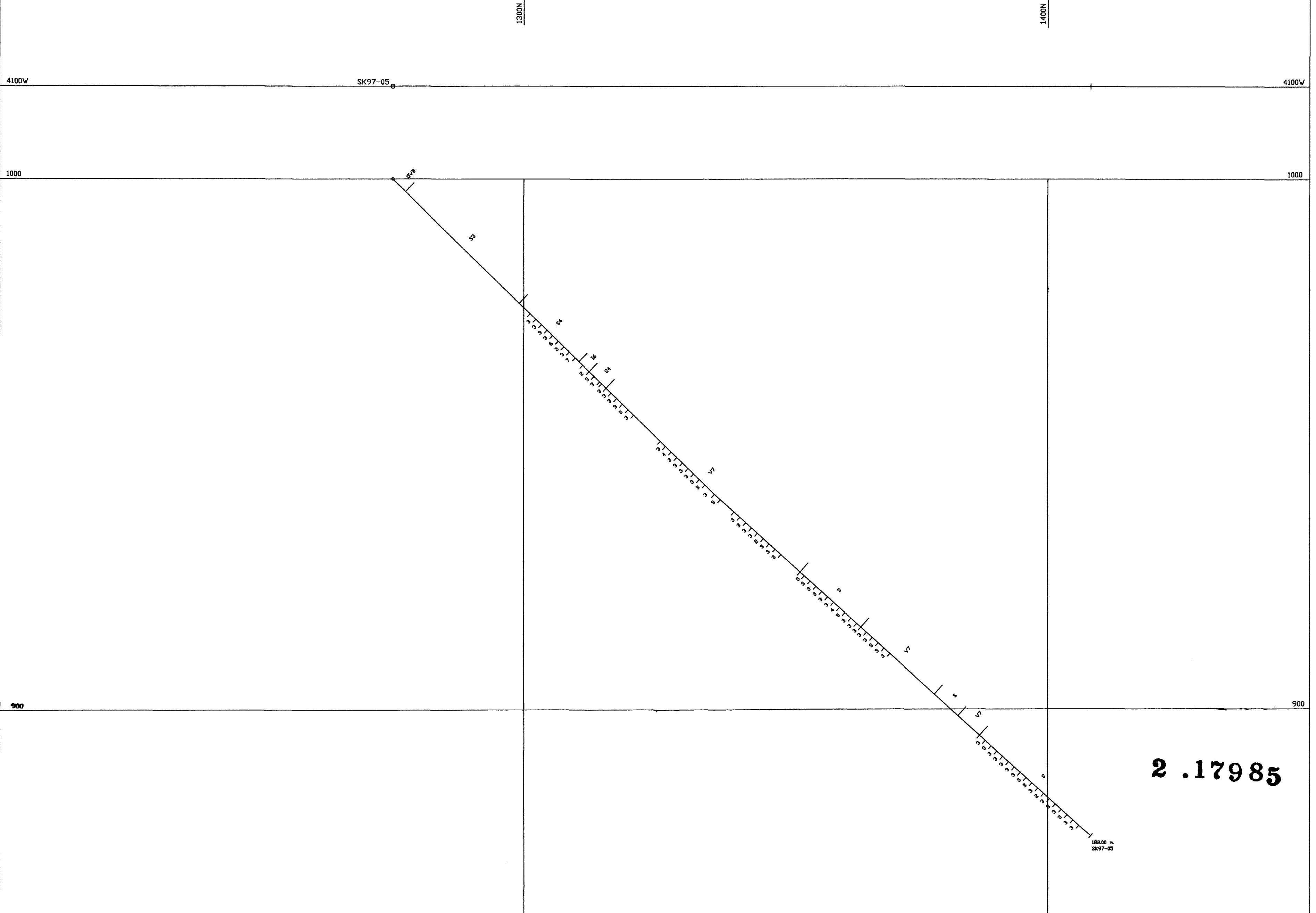
Cyprus Canada Inc.
A Cyprus Amax Company

SKINNER-GERALDTON PROPERTY
(Looking West)
CLAIM T.B. 1212978
SECTION: 2600W DDH NO.: SK97-04

Drawn: L.F.L./A.T.	Checked:	Scale: 1:500	Drawing: SK97-4
Date: June 2, 1997	Revised: June 6, 1997	Province: Ontario	NTS: 42E/10



42E06NW00112.17985 MCBEAN LAKE



LEGEND

S1	SEDIMENTS	ASPY	OTHER ABBREVIATIONS
S3	CONGLOMERATE	DISS	ARSENOPYRITE
S3D	GREYWACKE	FG	DISSEMINATED
S3L	DIRTY GREYWACKE/REWORKED TUFF	LOC	FINE GRAINED
S4	LITHIC GREYWACKE	LOC	LOCAL
S10	ARGILLITE	MIN	MINOR
S13	SILTSTONE	MOD	MODERATE
F2	BIOTITE AMPHIBOLITE GARNET METASEDIMENT	NRW	NARROW
F2R	BANDED IRON FORMATION	DB	DIVERBURDEN
14	LEAN IRON FORMATION	SIL	SILICEOUS
14a	INTRUSIVES	SLP	SLOPE
16	MAFIC INTRUSIVE	STR	STRINGER
17	GABBRO	STRG,STRGLY	STRONG(LY)
18	QUARTZ FELDSPAR PORPHYRY	TR	TRACE
V6	QUARTZ FELDSPAR PORPHYRY	VN	VEIN
V7	DIABASE	VY	VERY
V7LP	INTRUSIVES	WK,WKLY	WEAK, WEAKLY
V7M	MAFIC INTRUSIVE		
V7T	GABBRO		
ANK	QUARTZ FELDSPAR PORPHYRY		
CBZD	DIABASE		
CPY	INTRUSIVES		
CHL	MAFIC INTRUSIVE		
MT	GABBRO		
PIL	QUARTZ FELDSPAR PORPHYRY		
PY	DIABASE		
DZ	INTRUSIVES		
QV	MAFIC INTRUSIVE		
SER	GABBRO		
SHSHD	QUARTZ FELDSPAR PORPHYRY		

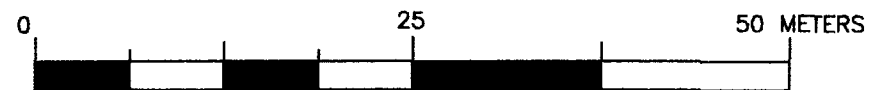
Cyprus Canada Inc.
A Cyprus Amax Company

SKINNER-GERALDTON PROPERTY
(Looking West)
CLAIM T.B. 1212984
SECTION: 4100W DDH NO.: SK97-05

Drawn: L.F.L./A.T.	Checked:	Scale: 1:500	Drawing: SK97-5
Date: June 2, 1997	Revised: June 6, 1997	Province: Ontario	NTS: 42E/10



250



1400W

1400W

1000

1000

900

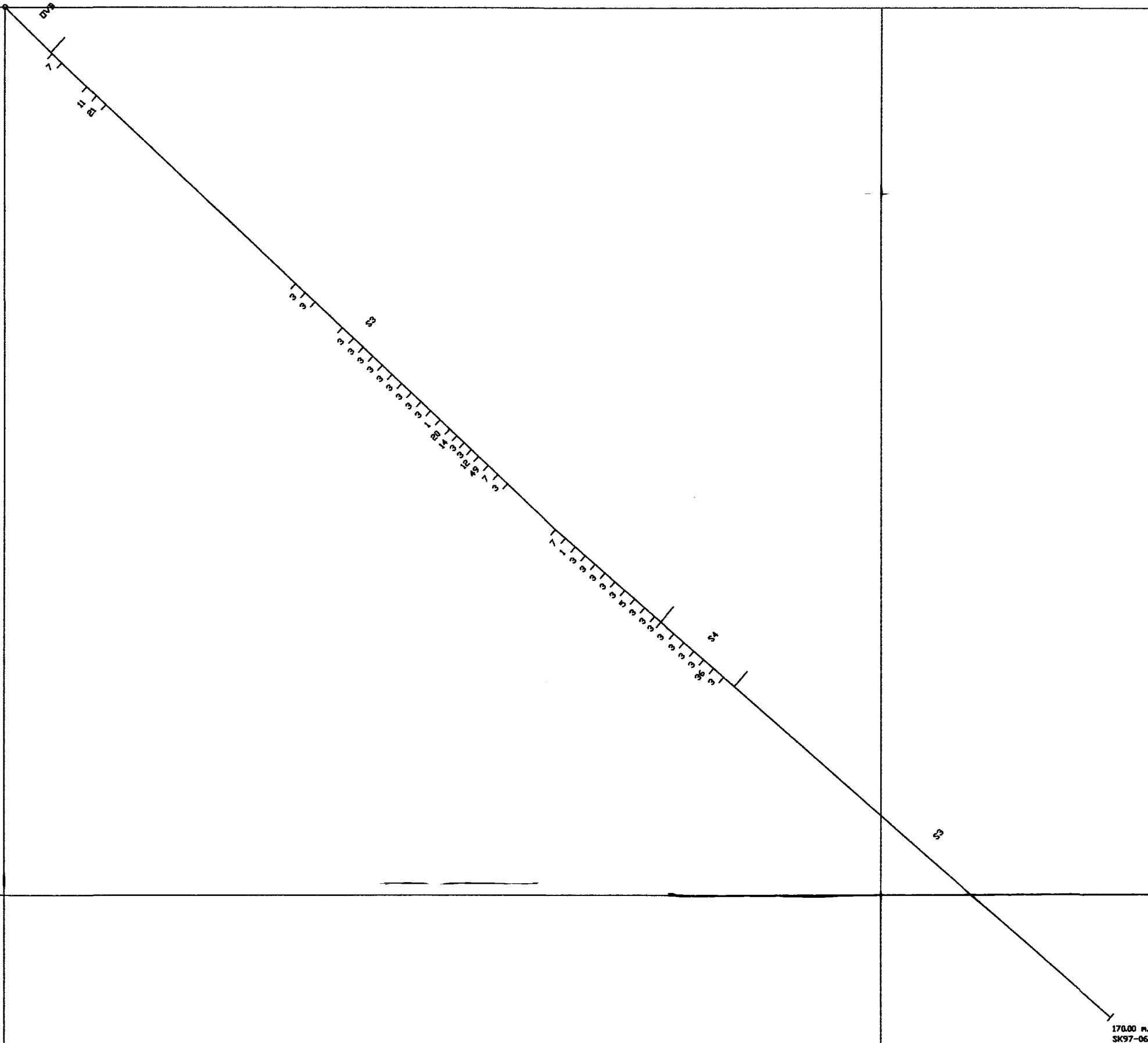
900

200S

100S

200S

100S



2.17985

170.00 ft
SK97-06

260

LEGEND

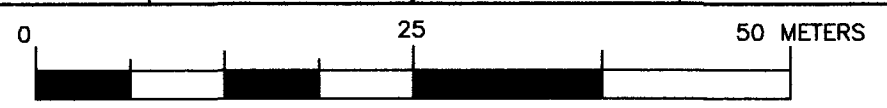
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S1	CONGLOMERATE	ASPY	ARSENOPYRITE
S3	GREYWACKE	DISS	DISSEMINATED
S3D	DIRTY GREYWACKE/REWORKED TUFF	FG	FINE GRAINED
S3L	LITHIC GREYWACKE	LOC	LOCAL
S4	ARGILLITE	MIN	MINDER
S10	SILTSTONE	MDD	MODERATE
S13	BITTITE AMPHIBOLITE GARNET METASEDIMENT	NRW	NARROW
F2	BANDED IRON FORMATION	DB	DIVERBURDEN
F2L	LEAN IRON FORMATION	SIL	SILICEOUS
		SLP	SLOPE
		STR	STRINGER
		STRG,STRGLY	STRONG(LY)
		TR	TRACE
		VN	VEIN
		VY	VERY
		VK,WKLY	WEAK, WEAKLY
INTRUSIVES			
14	MAFIC INTRUSIVE		
14a	GABBRO		
16	QUARTZ FELDSPAR PORPHYRY		
17	FELDSPAR PORPHYRY		
18	DIABASE		
VOLCANICS			
V6	DACITE (INTERMEDIATE VOLCANIC)		
V7	MAFIC VOLCANICS		
V7LP	MAFIC LAPILLI TUFF		
V7M	MASSIVE MAFIC FLOW		
V7T	MAFIC ASH TUFF		
ABBREVIATIONS			
ANK	ANKERITE		
CB	CARBONATE		
CBZD	CARBONATIZED		
CPY	CHALCOPYRITE		
CHL	CHLORITE		
MT	MAGNETITE		
PIL	PILLOWED		
PY	PYRITE		
QZ	QUARTZ		
QV	QUARTZ VEIN		
SER	SERICITE		
SH,SHD	SHEAR, SHEARED		



Cyprus Canada Inc.
A Cyprus Amax Company

SKINNER-GERALDTON PROPERTY
(Looking West)
CLAIM T.B. 1212977
SECTION: 1400W DDH NO.: SK97-06

Drawn: L.F.L./A.T.	Checked:	Scale: 1:500	Drawing: SK97-6
Date: June 2, 1997	Revised: June 6, 1997	Province: Ontario	NTS: 42E/10



2525W

2525W

1000

1000

900

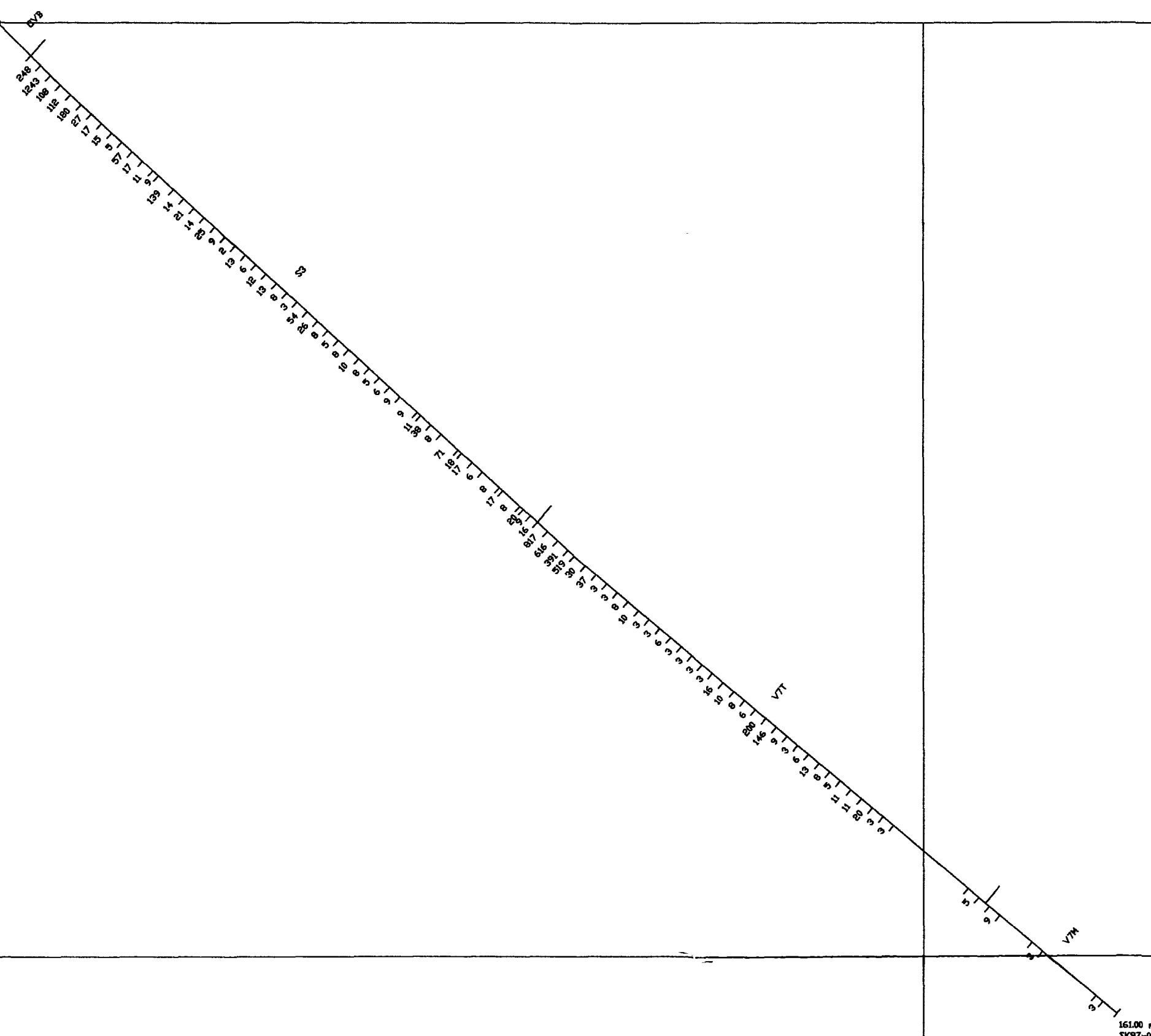
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1300S

1200S

1300S

1200S



2.17085

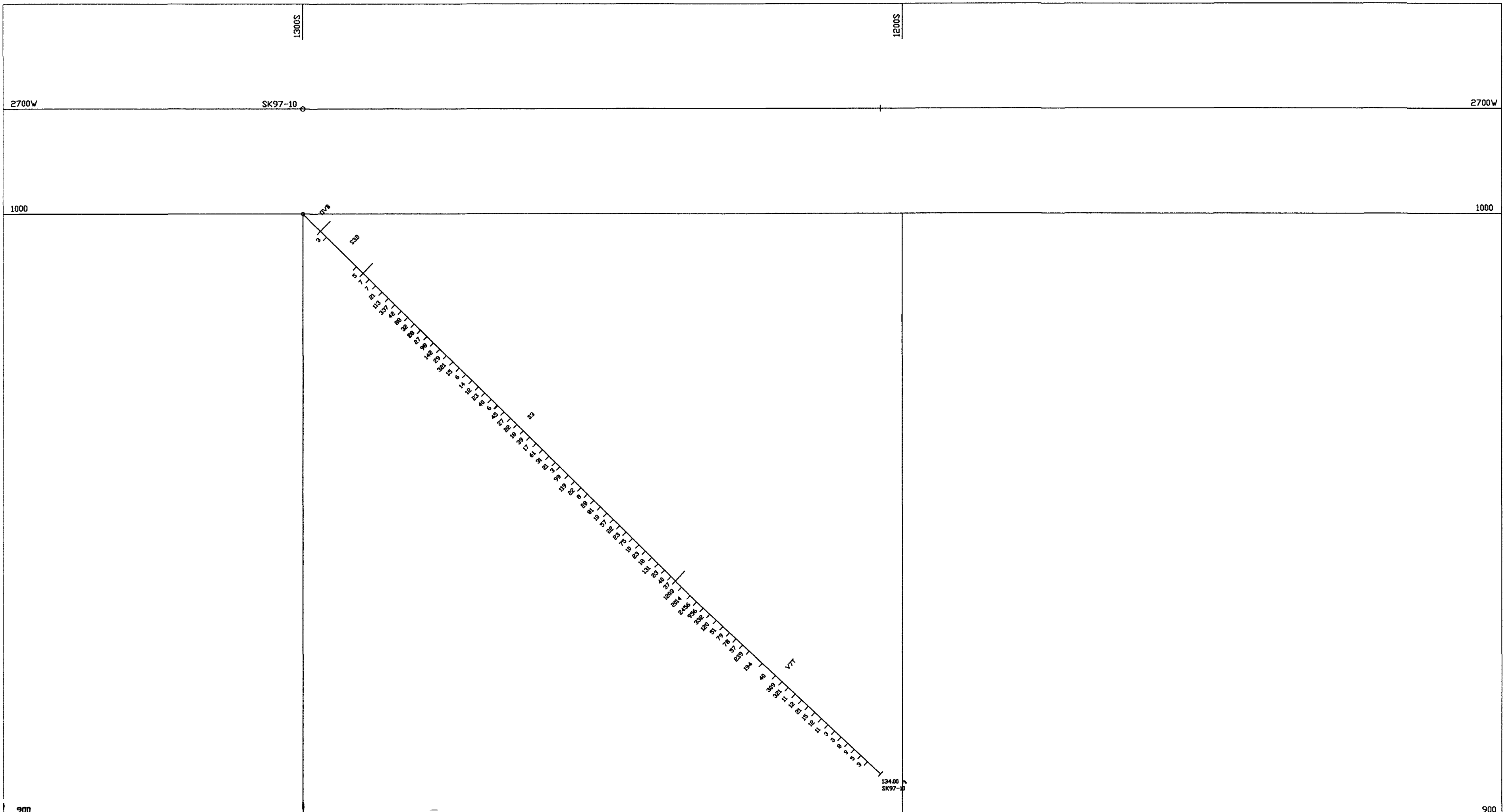
LEGEND

S1	SEDIMENTS	ASPY	ARSENOPYRITE
S3	CONGLOMERATE	DISS	DISSEMINATED
S3D	GREYWACKE	FG	FINE GRAINED
S3L	DIRTY GREYWACKE/REWORKED TUFF	LOC	LOCAL
S4	LITHIC GREYWACKE	MIN	MINOR
S10	ARGILLITE	MOD	MODERATE
S13	SILTSTONE	NRW	NARROW
F2	BITITE AMPHIBOLITE GARNET METASEDIMENT	DB	DYERBURDEN
F2I	BANDED IRON FORMATION	SIL	SILICEOUS
	LEAN IRON FORMATION	SLP	SLOPE
		STR	STRINGER
		STRG,STRGLY	STRING(LY)
14	INTRUSIVES	TR	TRACE
14a	MAFIC INTRUSIVE	VN	VEIN
16	GABBRO	VY	VERY
17	QUARTZ FELDSPAR PORPHYRY	VK,WKLY	WEAK, WEAKLY
18	FELDSPAR PORPHYRY		
	DIABASE		
	VOLCANICS		
V6	DACITE (INTERMEDIATE VOLCANIC)		
V7	MAFIC VOLCANICS		
V7LP	MAFIC LAPILLI TUFF		
V7M	MASSIVE MAFIC FLOW		
V7T	MAFIC ASH TUFF		
	ABBREVIATIONS		
ANK	ANKERITE		
CB	CARBONATE		
CBZD	CARBONATIZED		
CPY	CHALCOPYRITE		
CHL	CHLORITE		
MT	MAGNETITE		
PIL	PILLOWED		
PY	PYRITE		
QZ	QUARTZ		
QV	QUARTZ VEIN		
SER	SERICITE		
SH,SHD	SHEAR, SHEARED		

290



<p>Cyprus Canada Inc. A Cyprus Amax Company</p>			
<p>SKINNER-GERALDTON PROPERTY (Looking West) CLAIM T.B. 1212978 SECTION: 2525W DDH NO.: SK97-09</p>			
Drawn:	L.F.L./A.T.	Checked:	Scale: 1:500
Date:	June 2, 1997	Revised:	June 6, 1997
		Province:	Ontario
		Drawing:	SK97-9
		NTS:	42E/10



2-17985

LEGEND

SEDIMENTS		OTHER ABBREVIATIONS	
S1	CONGLOMERATE	ASPY	ARSENOPYRITE
S3	GREYWACKE	DISS	DISSEMINATED
S3D	DIRTY GREYWACKE/REVORKED TUFF	FG	FINE GRAINED
S3L	LITHIC GREYWACKE	LDC	LDCAL
S4	ARGILLITE	MIN	MINOR
S10	SILTSTONE	MDD	MODERATE
S13	BIOTITE AMPHIBOLITE GARNET METASEDIMENT	NRW	NARROW
F2	BANDED IRON FORMATION	OB	OVERBURDEN
F2L	LEAN IRON FORMATION	SIL	SILICEOUS
		SLP	SLOPE
		STR	STRINGER
		STRG,STRGLY	STRONGLY
		TR	TRACE
		VN	VEIN
		VY	VERY
		WK,WKLY	WEAK, WEAKLY
INTRUSIVES			
I4	MAFIC INTRUSIVE		
I4a	GABBRO		
I6	QUARTZ FELDSPAR PORPHYRY		
I7	FELDSPAR PORPHYRY		
I8	DIABASE		
VOLCANICS			
V6	DACITE (INTERMEDIATE VOLCANIC)		
V7	MAFIC VOLCANICS		
V7LP	MAFIC LAPILLI TUFF		
V7H	MASSIVE MAFIC FLOW		
V7T	MAFIC ASH TUFF		
ABBREVIATIONS			
ANK	ANKERITE		
CB	CARBONATE		
CBZD	CARBONATIZED		
CPY	CHALCOPYRITE		
CHL	CHLORITE		
MT	MAGNETITE		
PIL	PILLOWED		
PY	PYRITE		
QZ	QUARTZ		
QV	QUARTZ VEIN		
SER	SERICITE		
SH,SHD	SHEAR, SHEARED		



Cyprus Canada Inc.
A Cyprus Amax Company

SKINNER-GERALDTON PROPERTY
(Looking West)
CLAIM T.B. 1212978
SECTION: 2700W DDH NO.: SK97-10

Drawn: L.F.L./A.T.	Checked:	Scale: 1:500	Drawing: SK97-10
Date: June 2, 1997	Revised: June 6, 1997	Province: Ontario	NTS: 42E/10

0 25 50 METERS

3400W

3400W

1000

1000

900

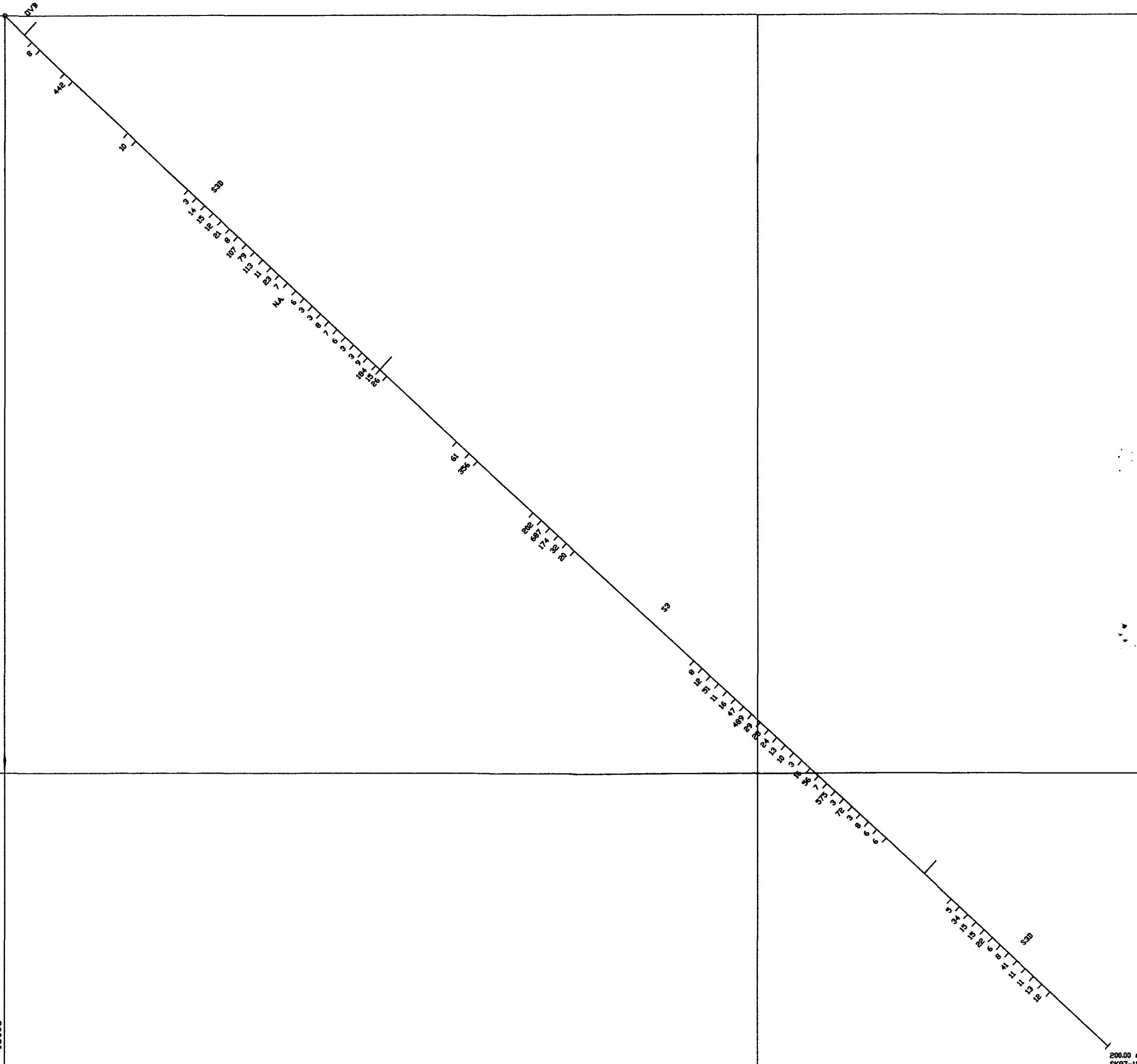
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1300S

1200S

1300S

1200S



310



LEGEND

SEDIMENTS		OTHER ABBREVIATIONS	
S1	CONGLOMERATE	ASPY	ARSENOPYRITE
S3	GREYWACKE	DISS	DISSEMINATED
S3D	DIRTY GREYWACKE/REWORKED TUFF	FG	FINE GRAINED
S3L	LITHIC GREYWACKE	LDC	LOCAL
S4	ARGILLITE	HIN	HINDER
S10	SILTSTONE	MOD	MODERATE
S13	BIDTITE AMPHIBOLITE GARNET METASEDIMENT	NRW	NARROW
F2	BANDED IRON FORMATION	DB	OVERBURDEN
F2L	LEAN IRON FORMATION	SIL	SILICEOUS
		SLP	SLOPE
		STR	STRINGER
		STRG,STRGLY	STRONG,STRONGLY
		TR	TRACE
		VN	VEIN
		VY	VERY
		WK,WKLY	WEAK, WEAKLY
INTRUSIVES			
14	MAFIC INTRUSIVE		
14a	GABBRO		
16	QUARTZ FELDSPAR PORPHYRY		
17	FELDSPAR PORPHYRY		
18	DIABASE		
VOLCANICS			
V6	DACTIC (INTERMEDIATE VOLCANIC)		
V7	MAFIC VOLCANICS		
V7LP	MAFIC LAPILLI TUFF		
V7M	MASSIVE MAFIC FLOW		
V7T	MAFIC ASH TUFF		
ABBREVIATIONS			
ANK	ANKERITE		
CB	CARBONATE		
CBZD	CARBONATIZED		
CPY	CHALCOPYRITE		
CHL	CHLORITE		
MT	MAGNETITE		
PIL	PILLOWED		
PY	PYRITE		
QZ	QUARTZ		
QV	QUARTZ VEIN		
SER	SERICITE		
SH,SHD	SHEAR, SHEARED		



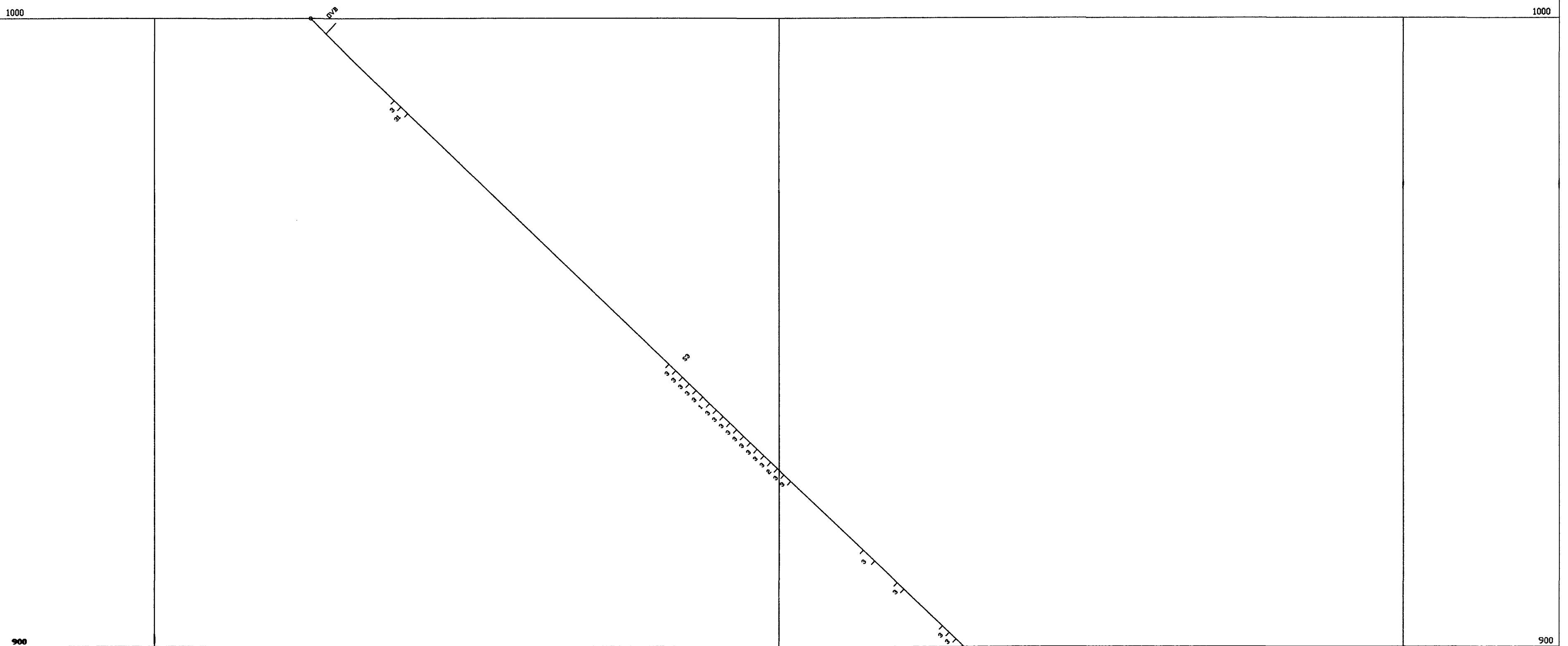
Cyprus Canada Inc.
A Cyprus Amax Company

SKINNER-GERALDTON PROPERTY
(Looking West)
CLAIM T.B. 1212978

SECTION: 3400W DDH NO.: SK97-11

Drawn: L.F.L./A.T.	Checked:	Scale: 1:500	Drawing: SK97-11
Date: June 2, 1997	Revised: June 6, 1997	Province: Ontario	NTS: 42E/10

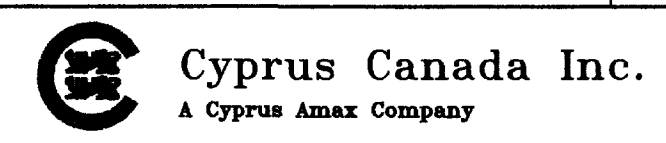
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2.17985

LEGEND

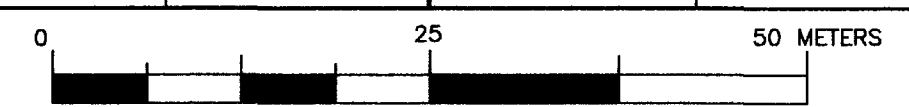
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S3	CONGLOMERATE	DISS	ARSENOPYRITE
S3D	GREYWACKE	FG	DISSEMINATED
S3L	DIRTY GREYWACKE/REWORKED TUFF	LOC	FINE GRAINED
S4	LITHIC GREYWACKE	LOC	LOCAL
S10	ARGILLITE	MIN	MINOR
S13	SILTSTONE	MDD	MODERATE
F2	BIOTITE AMPHIBOLITE GARNET METASEDIMENT	NRW	NARROW
F2I	BANDED IRON FORMATION	OB	OVERBURDEN
	LEAN IRON FORMATION	SIL	SILICEOUS
		SLP	SLOPE
		STR	STRINGER
		STRG,STRGLY	STRONGLY
14	INTRUSIVES	TR	TRACE
14a	MAFIC INTRUSIVE	VN	VEIN
16	GABBRO	VY	VERY
17	QUARTZ FELDSPAR PORPHYRY	WK,WKLY	WEAK, WEAKLY
18	FELDSPAR PORPHYRY		
	DIABASE		
V6	VOLCANICS		
V7	DACITE (INTERMEDIATE VOLCANIC)		
V7LP	MAFIC VOLCANICS		
V7H	MAFIC LAPILLI TUFF		
V7T	MASSIVE MAFIC FLOW		
	MAFIC ASH TUFF		
ANK	ABBREVIATIONS		
CB	ANKERITE		
CBZD	CARBONATE		
CPY	CARBONATIZED		
CHL	CHALCOPYRITE		
HT	CHLORITE		
PIL	MAGNETITE		
PY	PILLDED		
QZ	PYRITE		
QV	QUARTZ		
SER	QUARTZ VEIN		
SH,SHD	SERICITE		
	SHEAR, SHEARED		



SKINNER-GERALDTON PROPERTY
(Looking West)
CLAIM T.B. 1212979

SECTION: 2600W DDH NO.: SK97-03

Drawn: L.F.L./A.T.	Checked:	Scale: 1:500	Drawing: SK97-3
Date: June 2, 1997	Revised: June 6, 1997	Province: Ontario	NTS: 42E/10



Appendix F: Vertical Sections

