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Technical Report on the 2018 Diamond Drilling on the

Bolton Bay Project

Thunder Bay Mining Division, Northwestern Ontario, Canada

NTS 52B/15 52B/16

G-0730 – Henderson Lake Area

G-2709 – Boot Bay Area

MNDM Exploration Permit: PR-18-11280

Nathan Sims, P.Geo

Feb 25, 2019

Summary

Benton Resources Inc. optioned the Bolton Bay claim block from Joe and Joey Hackl in April of 2018. The Company subsequently performed a number of days prospecting for rocks prospective in gold as well as base metals and PGE's. Where historic and Benton sampling had shown anomalous gold, Benton completed 7 trenches (stripped overburden) using a small tracked excavator and followed up with channel sampling using a gas cutoff saw.

Prospecting yielded positive results with respect to locating gold in new areas as well as confirming gold grades at historical showings. The 34 grab samples taken ranged from trace (<5ppb Au) up to 20,200ppb (20.2g/t) Au. The most significant assay in a 'new' area graded 3070ppb Au and was located nearly 300m NW of the historic "Zone 1&2" showing. Although prospecting located some sulphide rich ultramafic/mafic rock, assays showed that they did not contain economic amounts of mineralization.

The Bolton Bay project contains the following historical showings:

- East Zone – 13g/t Au (grab samples)
- West Zone – 4.46g/t Au over 7m (historic drilling)
- Zones 1 & 2 – 11.6g/t Au (grab samples)
- Clear Lake East – 17.21g/t Au (grab samples)
- 1925 showing – 15.47g/t Au (grab samples)
- Island Zone – 3.57g/t Au (grab samples)

Benton completed 4 drill holes on various targets on the project, including the West Zone (Trench C), Zones 1&2 (Trenches D,E) and a small ultramafic gabbro discovered by prospecting along the Lily Lake Road Extension.

The drilling failed to intersect any high grade gold or sulphide-rich pockets of mineralization that are seen sporadically in outcrop at the West Zone. While other holes had anomalous gold values, none were of economic significance. The amount of drilling was minimal and the Bolton Bay project still has potential for economic gold but the company needs to refocus exploration efforts on new, untested areas.

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Introduction

Unless otherwise specified, all maps, coordinates and spatial reference used in this report is UTM NAD83 Zone 15.

Property Location, Access & Tenure

The Bolton Bay Project is within the Thunder Bay Mining division in Ontario, Canada. The claim block lies in the Boot Bay and Henderson Lake Townships (NTS 52B/15 52B/16) which are approx 100km west of Thunder Bay, ON. The property can be accessed via Highway 11 (Trans-Canada) by travelling 26km north on the Lilly Lake logging road. The exploration activities explained in this report can be visited using a pickup truck and atv.

The project was optioned from J&J Hackl and the optioned claims remain in their name. After the option was in place, Benton staked additional units to ensure all prospective (and available) land was obtained. Appendix IV contains a list of all operational cells which compose the Bolton Bay project.

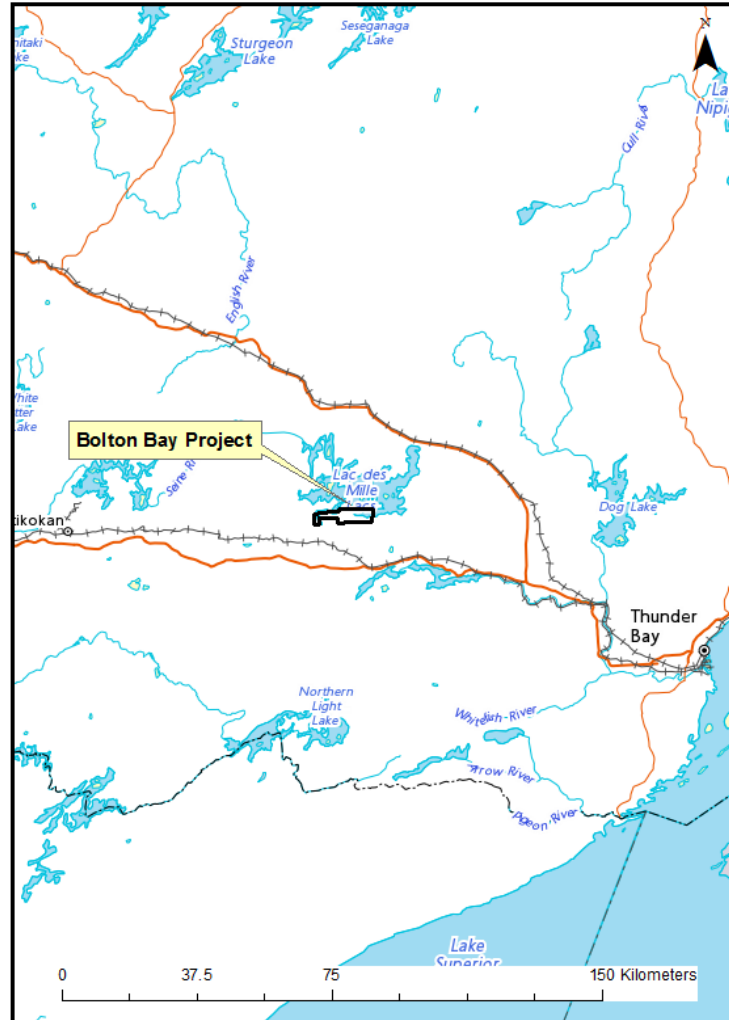


Figure 1. Bolton Bay Project location

Property History *(derived from past assessment reports)*

1928-31: T.L. Tanton mapped portions of the property and reported two gold occurrences north of Bolton Bay on Lac des Mille Lacs (GSC Map 432A, 1938). These two gold occurrences correspond to the occurrences now known as the East and West Zones.

1974: Falconbridge Nickel Mines Ltd. optioned the claim block containing the East and West Zones from D. Galley of Thunder Bay. Falconbridge completed a trenching program followed by 4 drill holes totaling 1857 ft (566.01m). Drill logs indicate two of the holes encountered quartz stockwork zones up to 59 ft (17.98m) in core length and contained up to 3-5% pyrite, minor chalcopyrite, scheelite, and seams of a silvery-grey mineral, possibly arsenopyrite. One of these drill logs reports gold assays of 0.13 oz/t Au over a core length of 23 ft (7.01m) from a hole which appears to have tested the West Zone. The other drill holes reported anomalous gold values over narrow widths and the option was later dropped.

1981-82: Lacana Mining Corporation, as operator of the Canadian Minerals joint venture, staked 62 claims comprising 14 groups in the southern Lac des Mille Lacs area following the release of an Airborne survey. Several strong EM conductors were delineated, some with coincident positive magnetic responses. Follow up work by Lacana included varying amounts of horizontal loop EM, MaxiMin II, horizontal shootback, vertical CEM, and ground magnetics in order to investigate the airborne EM responses. Additional work was recommended but not performed and the claims were allowed to lapse.

1982: Teck Exploration Limited staked 4 claims for the Sulphide Syndicate to cover Input Anomalies 23680C-23710A and 23690A from the OGS airborne survey. The property was located north of the Bolton Bay claim 4282270. Four lines of shootback were run returning negative results followed by no recorded additional work.

1985-88: Canadian Nickel Company Limited (Canico) held a group of 12 contiguous claims covering the known gold occurrences between 1985 and 1988. An exploration program consisting of gridding, geological mapping, trenching and surface geophysics (magnetics, VLF-EM, radiometrics) was completed. The author recommended diamond drilling yet no further work was completed.

1989: Goldbrook Exploration Inc. held 108 claims covering areas currently held by Joe Hackl, or adjacent to the existing claim block. Terraquest carried out airborne magnetic and VLF-EM surveys over the area attempting to delineate several moderate to strong EM conductors. The magnetic data was used to modify and update the existing geology and showed a number of new contacts and faults. Numerous strong VLF-EM conductors were associated with surficial sources, while several are associated with either bedrock or structural sources that were recommended for additional investigation.

1996-98: Green Ice Corporation:

- Prospecting by the vendor in the summer of 1996 resulted in the discovery of new gold occurrences along the western trend of the known occurrences. The new discoveries were called Hackl 1 & 2 Zones. These zones are comprised of quartz and quartz-carbonate breccias and vein stockworks accompanied by pervasive fuchsitic alteration and varying amounts of pyrite. Grab samples obtained from the Hackl 1 Zone returned gold grades up to 10.82g/t Au. Green Ice completed a Phase I exploration program on the property during the summer of 1997. The program consisted of detailed property wide geological mapping, rock sampling, and limited ground geophysical surveys including magnetics and induced polarization (IP). 58.5 line kilometers of wing lines were cut perpendicular to a 10.825 line kilometer, eastwest trending base line to cover Zone 1, Zone 2 and the East and West Zones. A total of 28.026 line kilometers of magnetic data was collected and 7.5 line kilometers of Induced Polarization was completed over the grid. In addition to this work, further sampling was completed on the gold zones discovered in 1996. - During the winter of 1998, Geoserve Canada Inc. of Timmins, Ontario completed 30.15km of line cutting and 14.025 line kilometers of I.P. on the Bolton Bay property. The survey delineated several east-west trending conductive zones as well as several east-west trending resistive zones, some of which are coincident with gold in rock occurrences. This work expanded upon an I.P. survey conducted for Green Ice Corporation Ltd by JVX of Richmond Hill, Ontario during the spring of 1997. - Four drill targets were selected and drilled based upon results obtained from the two surveys and from a prospecting and geological mapping program completed during the summer of 1997. The drill program consisted of four (4), angled diamond drill holes for a total of 448.17 meters. Generally, the results of analysis for gold were low apart from a narrow intersection in diamond drill hole BB-98-03. A sample of a 0.53 meter wide (apparent width) quartz vein assayed 20.37 g/t Au.

2008: Metals Creek Resources conducted reconnaissance prospecting programs to evaluate the property for gold potential. A total of 63 samples were taken over the three prospecting programs and assayed for Au, Ag, and Cu.

2016: Joe Hackl completes 4 days of prospecting and collects 13 samples which were assayed for Au, Pt, Pd, Cu, Ni. 4 samples had gold assays between 1-2g/t.

Regional Geology

The Bolton Bay regional area is underlain by metasedimentary and granitic rocks belonging to the Quetico Subprovince, as well as metavolcanics and mafic to felsic intrusive rocks belonging to the Wabigoon Subprovince of the Archean Superior Province. A major tectonic feature known as the Quetico Fault represents the contact zone and defines the suture between the two subprovinces. The Quetico Fault extends over a known length of over 500km and shows a close spatial association with the Geraldton and Mine Center gold camps east and west of the Bolton Bay property respectively (Campbell and Raven, 1997). This fault has been interpreted to strike east-west across the southern portion of the property underneath Bolton Bay. The metasedimentary group rocks, south of the Quetico fault, consist of biotite-quartz parashist with intraformational conglomerate, banded magnetite iron formations and interbedded, quartzo-feldspathic, polytuffaceous and tuffaceous sedimentary rocks. The metasediments are in gradational and interfingering contact with silicic tuffs belonging to the metavolcanic group. The metavolcanic rocks consist of silicic flow breccia, rhyolite, acid pyroclastic rocks and basaltic lavas that are massive, foliated and pillowed [and] include interbeds of tuff and agglomerate. The metasedimentary and the metavolcanics group rocks are isoclinally folded throughout the region with some outcrops affected by small-scale second folds (Kaye, 1967).

(From Assessment Report: Clark, B. 2017. 2016 Prospecting and Sampling Program on the Bolton Bay Property, Thunder Bay Mining Division, Northwestern Ontario)

Property Geology

The Bolton Bay property is underlain by an east-west trending sequence of mafic pillowed andesite with local basaltic and rhyolitic flows as well as interbedded agglomerate. Gabbroic intrusives along with rarer feldspar porphyry units intrude the metavolcanic sequence. The Quetico Fault is an east-west "break" transecting the southwestern portion of the property and represents the contact between the northern metavolcanic group and the metasedimentary group to the south. Piercey (1997) describes 4 different lithostratigraphic groups within the property which are: 1) mafic to intermediate metavolcanics and volcanoclastics; 2) chloritic schists and mylonites; 3) metasedimentary rocks of the Quetico Subprovince and 4) felsic intrusive rocks. The mafic to intermediate metavolcanics predominate the western part of the Bolton Bay property. Dark green/grey ranging to lighter green/grey coloured massive flows are the dominant form with subordinate dark green/grey pillowed flows ranging from 35-75cm wide and face south. Overall, volcanoclastic rocks are a minor constituent of the property but occur almost exclusively on the western portions of the property in the Clear Lake region primarily as tuffaceous units. The tuffs show pervasive silicification, a distinctive grey-green colouration and well developed layering. Chloritic schists and mylonites occurs across the northern parts of the property and are virtually identical over the length of the claim boundary. Alternating green coloured chlorite and white coloured quartz-rich layers are typical throughout these rocks over most of the property. Areas in exceptionally close proximity to the Quetico Fault display a distinct black to forest green colouration

which contrasts with rocks described above which show a lighter green colour. Metasedimentary Rocks of the Quetico Subprovince outcrop in the south western portion of the claim block. These metasedimentary rocks are fine to medium grained, contain granular quartz, minor feldspar, abundant biotite and muscovite and are pelitic in composition. Foliations present as aligned mica are weakly developed and small rafts of intercalated silicified mafic material are visible within the metasediments that are proximal to the Quetico Fault.

(Derived from Assessment Report: Clark, B. 2017. 2016 Prospecting and Sampling Program on the Bolton Bay Property, Thunder Bay Mining Division, Northwestern Ontario)

2018 Diamond Drilling

4 short holes totalling 400m were completed on the Bolton Bay property to test for continuity in mineralization at depth below Benton trenching and/or sampling. Full details of each hole (drill logs) are included in the appendices of the report.

BB-18-01

Designed to test orientation of the quartz breccia uncovered by Benton at the historic West Zone. The hole was successful in delineating a sub vertical (dips steep to the north) breccia pipe with pyrite and chalcopyrite with minor galena. Lenses of andesitic host were intruded by quartz. Assay composites of the mineralized quartz include 0.31g/t over 34m which includes 0.83g/t over 4m and incl 2.55g/t over 1m.

BB-18-02

A short step 10m east from BB-18-01 to try to intersect sulphide/gold mineralization at depth correlating to mineralization on surface. Again the hole did not hit any high-grade pockets of mineralization and had similar lithologies as the first hole (quartz breccia matrix with andesite fragments). Assay composites include: 0.36g/t Au over 44m, 0.74g/t Au over 11m.

BB-18-03

Drilled beneath one of Benton's trenches (D) and near a 3g/t grab sample, BB-18-03 was unsuccessful in intersecting anomalous gold greater than a few hundred ppb. From top to bottom the hole encountered various intermediate volcanic lithologies and textures, including some significant shearing and associated fuchsite. Mineralization was poor and the highest individual gold assay was 372ppb gold.

BB-18-04

The final hole in the program was designed to test a small outcrop of black, mafic-ultramafic gabbro discovered in the ditch along the Lilly Lake Road Extension. 14.5m of chloritic gabbro was intersected at the top of the hole with trace to 2% pyrrhotite. Assay results showed no anomalous mineralization of any kind.

Conclusions & Recommendations

The historical work on the Bolton Bay property has proved that gold is anomalous and often abundant throughout the claims. Many of the gold occurrences on the property are associated with sub-metre quartz veins and are non-economic in nature (at their current grade). The West Zone has seen a number of exploration programs try to delineate the gold mineralization but prior to Benton's involvement, outcrop exposure was poor and the zone may not be a linear east-west trending unit as previously thought.

Benton's drilling on the project has shown the following:

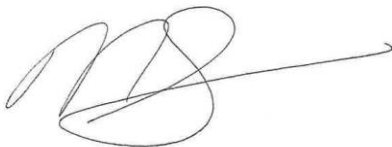
1 – The West Zone is most likely a pipe-like shape or a wide boudin of quartz that dips steeply to the north. The quartz breccia does contain pockets of sulphide accumulation which correlates to higher grade gold yet the drilling didn't intersect any of these high grade pockets and therefore the assay composites are not yet economic.

2 – BB-18-03 shows that there are areas which have characteristics of greenstone gold (shearing, fuchsite, sulphide with quartz veining) but locating zones of anomalous gold will be difficult due to the sporadic nature of mineralization on the property.

3 – The gabbro in BB-18-04 may be related to Proterozoic intrusive bodies that have been the focus of base metal and PGE exploration in the region especially due to the proximity of the project to the Quetico fault. Whole rock geochemical analysis of these intrusive rocks may aid in determining their significance, if any.

It is recommended that future exploration efforts should include more ground work to look at the areas between historical showings. A soil geochemical survey between the East and West zones would aid in determining if there is any continuity between showings. Ground geophysics in the same area, including IP and Mag, would also help delineate any mineralization associated with quartz and sulphides. The fact that there are higher grade gold samples on the property show that there was a gold-rich solution/magma intruding host rocks and work programs should be designed to locate grade with structure.

Respectfully signed,

A handwritten signature in black ink, appearing to be 'NS', with a long horizontal line extending to the right.

Nathan Sims, P.Geol
Senior Exploration Manager
Benton Resources Inc.

References:

- Aubert, A. 1988. Bolton Bay Project, Geological Report, Lac des Milles Lacs Ontario, Canadian Nickel Company Limited.
- Barrie, C.Q. 1987. Report on an Airborne Magnetic & VLF-EM Survey Lac des Milles Lacs for Goldbrook Explorations Inc. by Terraquest Ltd.
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- Thorsen, K. 1982. Report on the Geophysical Surveys on Group AT -11 Boot Bay Area for the Sulphide Syndicate.
- Wells, R.C. 1981. Report on Exploration During 1981 for the Upsala Project, Thunder Bay District, Ontario, Lacana Mining Corporation.

Category	Date	Receipt/Invoice No.	Payee	Description	Amount
Diamond Drilling Contractor	28-Dec-18	3531-REV	Cartwright Drilling	Final Invoice	\$31,000
Diamond Drilling Contractor		3516	Cartwright Drilling	Down Payment	\$25,000
					\$56,000
Assays	04-Jan-19	A18-18849	Actlabs	Au Fire Assay + Multielement ICP	\$1,241
Assays	04-Jan-19	A18-18891	Actlabs	Au Fire Assay + Multielement ICP	\$2,031
Assays	25-Feb-19	A18-19205	Actlabs	Au + ICP + PGEs	\$1,663
					\$4,935
Core Logging, Cutting/Splitting		salary	Joey Vrzovski	15 days	\$4,500
Supervision, Core Logging		salary	Nathan Sims	23 days on site	\$12,213
					\$16,713
Report		salary	Nathan Sims	Report, Sections, Maps	\$1,593
Ground Transportation	duration	various	various	Truck lease, gas	\$2,728
Food	duration	various	various	lunches and drinks	\$172.00
Total For Assessment					\$82,140.75

	MLAS Cell	Assessment Applicable
Drilling Performed on:	242364	\$52,285
	337606	\$22,003
	140757	\$12,853
		\$87,141

Appendix I – Drill Logs

Benton Resources Inc.

Survey:	BB-18-01	Claims title:	242364	Section:	
		Township:	Boot Bay Area G-2709	Level:	
		Range:		Work place:	684 Squier St
Contractor:	Cartwright Drilling	Lot:			
Author:	NSims	Start date:	2018-11-13	Description date:	2018-11-28
		End date:	2018-11-24	Casing Removed?:	Yes

Collar

UTM NAD83 z15

Dip:	-80.0°	East	683597.00
Length:	138.0	North	5407166.00
		Elevation	477.00

Down hole survey

Type	Depth	Azimuth	Dip	Invalid azimuth	Type	Depth	Azimuth	Dip	Invalid azimuth
Collar	0.0	200.0°	-80.0°	No					
Reflex	39.0	203.2°	-79.8°	No					
Reflex	60.0	197.0°	-78.7°	No					
Reflex	120.0	192.2°	-77.3°	No					

Number of samples:	61	Number of QAQC samples:	6
Total sampled length:	60.2		

Description:

Core size: NQ	Cemented: No	Core Storage Location:	Stored: No
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Benton Resources Inc.

Description			Assay - Sample					
			From	To	Sample number	Length	Au (ppb)	
0.0	2.5	Ovb Overburden Start of hole						
2.5	6.6	Gab Gabbro Meta-gabbro - weakly foliated, medium grained, dark-green/black, black amphibole surrounded by white feldspar grains. Trace (<1 %) euhedral to sub-euhedral pyrite present throughout unit. Minor, small (.5 - 1 cm) wide quartz-carbonate veins throughout.	4.6	5.6	1123351	1.0	28	
			5.6	6.6	1123352	1.0	12	
6.6	44.6	Qtz_bx Quartz Breccia Quartz breccia/stockwork zone - Start of zone is marked by first appearance of quartz displaying hydrothermal alteration, with the appearance of fuchsite (?) and pyrite surrounding quartz + feldspar veins cutting meta-gabbro. - Approximately 40 - 45% quartz + feldspar veins irregularly cutting meta-gabbro and intermediate metavolcanic rocks (andesite), quartz is milky-white in colour and contains cloudy-white feldspar grains (albite?) at the margins of the veins. - Pyrite is found throughout the zone occurring up to 5-10% abundance within country rock and increasing up to 35-40% proximal to quartz veins. Pyrite occurs as disseminated euhedral to sub-euhedral grains and increases in size and abundance proximal to quartz veins, pyrite is dominantly fine to medium-grained with some coarser grains within and proximal to quartz. - Meta-gabbro unit displays fuchsite (?) alteration that increase with intensity proximal to quartz and pyrite - A beige/pale-brown alteration is also observed in some areas proximal to quartz, possibly altered andesite, rock is quite hard and is suspected to be silicification or feldspathic alteration - Oxidized zones (fault zones) occurring within the breccia zone @ 18 m, 27.4 - 27.5 m, 30.6 m and 43.9 - 44.2 m.	6.6	7.6	1123353	1.0	39	
			7.6	8.6	1123354	1.0	308	
			8.6	9.6	1123355	1.0	259	
			9.6	10.6	1123356	1.0	346	
			10.6	11.6	1123357	1.0	162	
			11.6	12.6	1123358	1.0	144	
			12.6	13.6	1123359	1.0	65	
			13.6	14.6	1123360	1.0	187	
			14.6	15.6	1123361	1.0	102	
			15.6	16.6	1123362	1.0	115	
			16.6	17.6	1123363	1.0	165	
			17.6	18.6	1123364	1.0	422	
			18.6	19.6	1123365	1.0	193	
			19.6	20.6	1123366	1.0	133	
			20.6	21.6	1123367	1.0	112	
21.6	22.6	1123368	1.0	141				
22.6	23.6	1123369	1.0	397				
22.6	23.6	1123370 (Std)	1.0	986				
22.6	23.6	1123371 (BIn)	1.0	< 5				
23.6	24.6	1123372	1.0	268				
24.6	25.6	1123373	1.0	483				
25.6	26.6	1123374	1.0	545				
26.6	27.6	1123375	1.0	208				

Benton Resources Inc.

Description			Assay - Sample				
			From	To	Sample number	Length	Au (ppb)
			27.6	28.6	1123376	1.0	419
			28.6	29.6	1123377	1.0	292
			29.6	30.6	1123378	1.0	86
			30.6	31.6	1123379	1.0	392
			31.6	32.6	1123380	1.0	123
			32.6	33.6	1123381	1.0	384
			33.6	34.6	1123382	1.0	231
			34.6	35.6	1123383	1.0	256
			35.6	36.6	1123384	1.0	56
			36.6	37.6	1123385	1.0	406
			37.6	38.6	1123386	1.0	64
			38.6	39.6	1123387	1.0	161
			39.6	40.6	1123388	1.0	320
			40.6	41.6	1123389	1.0	2550
			40.6	41.6	1123390 (Std)	1.0	937
			40.6	41.6	1123391 (BIn)	1.0	< 5
			41.6	42.6	1123392	1.0	229
			42.6	43.6	1123393	1.0	214
			43.6	44.4	1123394	0.8	29
44.6	46.4	Vif Intermediate Volcanic Flow Strongly altered andesite - Aphanitic, pale-brown/beige, gradational lower contact into unaltered andesite, alteration is suspected to be silicification or possibly feldspathic, approximately 5% fine-grained euhedral pyrite disseminated throughout unit, minor quartz-feldspar veins present	44.4	45.4	1123395	1.0	8
			45.4	46.4	1123396	1.0	6
46.4	51.9	Vif Intermediate Volcanic Flow Andesite - aphanitic to fine-grained, dark-grey/black, weak foliation, trace (<1%) to no pyrite present, some carbonate - quartz amygdules present within unit.	46.4	47.4	1123397	1.0	7
			47.4	48.4	1123398	1.0	< 5
			48.4	49.4	1123399	1.0	< 5
			49.4	50.4	1123400	1.0	< 5

Benton Resources Inc.

		Description	Assay - Sample				
			From	To	Sample number	Length	Au (ppb)
51.9	52.5	- minor quartz-feldspar veins, andesite alters to a beige/pale-brown colour surrounding veins, possible silicification/feldspathic alteration. - quartz + feldspar veins are 5% abundant in this unit and range from 2-5 cm wide. ShZ Shear Zone Structural zone (probable shear zone) - zone of intense deformation 60 cm wide w/ gradational upper contact and sharp lower contact, unit is strongly altered and sheared, mylonitic - beige/pale-brown with a greenish tinge, possibly silicification with darker chlorite bands, some euohedral fine grained pyrite present within zone	50.4	51.4	1123401	1.0	< 5
			51.4	51.9	1123402	0.5	< 5
			51.9	52.8	1123403	0.9	< 5
52.5	63.2	Vif Intermediate Volcanic Flow Andesite - aphanitic to fine-grained, dark grey/green with weak foliation, unit reacts strongly to acid, possibly pervasive carbonate alteration throughout - minor cross-cutting thin 0.5-1 cm quartz-carbonate veins with no associated pyrite or alteration. - Coarse grained subeuohedral pyrite replacing qtz-cbnt amygdules @ 56.8 m - @ 58 - 58.2 m fine-grained mafic meta-volcanic unit with feldspar phenocrysts - @ 62.4 - 62.6 m, fine-grained black metavolcanic rock, sharp contact (probably a dyke)	52.8	53.8	1123404	1.0	< 5
			53.8	54.8	1123405	1.0	< 5
			54.8	55.8	1123406	1.0	< 5
			55.8	56.8	1123407	1.0	< 5
			56.8	57.8	1123408	1.0	< 5
			57.8	58.8	1123409	1.0	< 5
			57.8	58.8	1123410 (Std)	1.0	997
			57.8	58.8	1123411 (BIn)	1.0	< 5
			58.8	59.8	1123412	1.0	8
			59.8	60.8	1123413	1.0	10
63.2	81.6	Vif Intermediate Volcanic Flow Andesite - Aphanitic, dark-green/grey, weak to no fabric, no pyrite observed throughout this interval, highly reactive to acid, possibly pervasive carbonate alteration, cut by minor 0.5 -1 cm quartz-carbonate veins - interbedded tuffaceous unit? @ 72.5 - 73.4 m , strongly deformed pale-brown with a greenish tinge, possible structural zone					
81.6	108.9	Vif Intermediate Volcanic Flow Dacite - - Aphanitic, light-grey/green, weak foliation observed, no pyrite observed to be present, minor cross-cutting quartz+carbonate veins 0.5 - 1 cm					

Benton Resources Inc.

		Description	Assay - Sample				
			From	To	Sample number	Length	Au (ppb)
108.9	123.9	- Reacts strongly to acid throughout unit, probable pervasive carbonate alteration					
		Vif	108.9	109.9	1123414	1.0	72
		Intermediate Volcanic Flow	109.9	110.9	1123415	1.0	46
		Andesite -	110.9	111.9	1123416	1.0	23
		- Dark-grey/green, aphanitic to fine-grained with a weak fabric, unit is cross-cut by irregular quart-carbonate-chlorite veins, carbonate is pinkish in colour (possibly rhodochrosite), unit strongly reacts to acid, probable carbonate alteration throughout, sharp contact with above unit, gradational contact with lower unit	111.9	112.9	1123417	1.0	20
		- Unit can be amygdoidal in sections, amygdules are approximately 0.5 cm in size and composed of cbnt > qtz and can be pink in colour and vary in abundance from 5 - 60% throughout unit					
123.9	138.0	Vif					
		Intermediate Volcanic Flow					
		Dacite - pale-grey/green, aphanitic, weak fabric, highly reactive to acid throughout, no observed sulphides, minor 0.5 - 1 cm qtz-cbnt veins					

Benton Resources Inc.

Survey:	BB-18-02	Claims title:	242364
		Township:	Boot Bay Area G-2709
		Range:	
Contractor:	Cartwright Drilling	Lot:	
Author:	NSims/JVrzovski	Start date:	2018-11-25
		End date:	2018-11-29
		Section:	
		Level:	
		Work place:	684 Squier St
		Description date:	2018-12-03
		Casing Removed?:	Yes

Collar

UTM NAD83 z15

Dip:	-80.0°	East	683610.00
Length:	102.0	North	5407178.00
		Elevation	476.00

Down hole survey

Type	Depth	Azimuth	Dip	Invalid azimuth	Type	Depth	Azimuth	Dip	Invalid azimuth
Reflex	30.0	206.5°	-79.5°	No					
Reflex	60.0	204.7°	-78.9°	No					

Number of samples:	58
Number of QAQC samples:	8
Total sampled length:	57.6

Description:

Core size: NQ	Cemented: No	Core Storage Location:	Stored: No
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Benton Resources Inc.

Description			Assay - Sample					
			From	To	Sample number	Length	Au (ppb)	
0.0	2.0	Ovb Overburden Casing						
2.0	22.4	Gab Gabbro Metagabbro - dark-grey, medium-grained with weak to moderate foliation, minor quartz+carbonate veining (0.5 mm), medium-grained dark green amphibole surrounded by white feldspar, unit is highly reactive to acid suggesting pervasive carbonate alteration, gradational lower contact with stock work zone, trace (<1%) fine-grained pyrite disseminated throughout unit, rock becomes lighter-grey in appearance proximal to the stock-work/breccia zone	19.4	20.4	1123418	1.0	48	
			20.4	21.4	1123419	1.0	18	
			21.4	22.4	1123420	1.0	11	
			21.4	22.4	1123421 (Std)	1.0	982	
			21.4	22.4	1123422 (Bln)	1.0	< 5	
22.4	67.9	Qtz_bx Quartz Breccia Quartz Stockwork/Breccia Zone - Start of zone marked by first appearance of quartz-feldspar vein w/ pyrite and fuchsite Zone is predominantly 45-55% milky-white quartz with cloudy-white feldspar also formin within and along the margins quartz veins Zone is highly brecciated with rapid changes in lithology/alteration and quartz cutting host rocks irregularly Pyrite is the dominant sulphide observed forming proximal to and withing quartz, pyrite abundance can vary but will increase in size and abundace proximal to veins forming sub- to euhedral frains that can be fine to coarse in size Chalcopyrite is observed to form within quartz veins accompanied by a silvery mineral (probably galena), chalcopyrite was mainly found near the upper and lower contact of the zone Observed alteration includes possible silicification/feldsaphic alt of host rock noted by intense bleaching and v.hard rock, bleached units will contain 5-10% fine-grained euhedral pyrite Coarse grained pyrite clusters @ 24.2 m, 41.2 m and 62.6 m Chalcopyrite occurring with silvery/grey mineral (possibly galena?) @ 28.2 m, 37.8 m and 56.5 m Oxidized fractures (fault zones?) @ 27.2 m, 25.3 m, 34.3 m and 54.4 m	22.4	23.4	1123423	1.0	107	
			23.4	24.4	1123424	1.0	3370	
			24.4	25.4	1123425	1.0	135	
			25.4	26.4	1123426	1.0	55	
			26.4	27.4	1123427	1.0	87	
			27.4	28.4	1123428	1.0	113	
			28.4	29.4	1123429	1.0	321	
			29.4	30.4	1123430	1.0	112	
			30.4	31.4	1123431	1.0	97	
			31.4	32.4	1123432	1.0	51	
			32.4	33.4	1123433	1.0	58	
			33.4	34.4	1123434	1.0	3770	
			34.4	35.4	1123435	1.0	45	
			35.4	36.4	1123436	1.0	119	
			36.4	37.4	1123437	1.0	35	
			37.4	38.4	1123438	1.0	166	
			38.4	39.4	1123439	1.0	64	
38.4	39.4	1123440 (Std)	1.0	953				
38.4	39.4	1123441 (Bln)	1.0	< 5				
39.4	40.4	1123442	1.0	158				
40.4	41.4	1123443	1.0	1010				
41.4	42.4	1123444	1.0	96				

Benton Resources Inc.

Description			Assay - Sample				
			From	To	Sample number	Length	Au (ppb)
			42.4	43.4	1123445	1.0	401
			43.4	44.4	1123446	1.0	220
			44.4	45.4	1123447	1.0	165
			45.4	46.4	1123448	1.0	221
			46.4	47.4	1123449	1.0	162
			47.4	48.4	1123450	1.0	32
			48.4	49.4	1123451	1.0	105
			49.4	50.4	1123452	1.0	456
			50.4	51.4	1123453	1.0	< 5
			51.4	52.4	1123454	1.0	30
			52.4	53.4	1123455	1.0	159
			53.4	54.4	1123456	1.0	187
			54.4	55.4	1123457	1.0	343
			55.4	56.4	1123458	1.0	194
			56.4	57.4	1123459	1.0	179
			56.4	57.4	1123460 (Std)	1.0	976
			56.4	57.4	1123461 (Bln)	1.0	< 5
			57.4	58.4	1123462	1.0	769
			58.4	59.4	1123463	1.0	34
			59.4	60.4	1123464	1.0	48
			60.4	61.4	1123465	1.0	135
			61.4	62.4	1123466	1.0	627
			62.4	63.4	1123467	1.0	250
			63.4	64.4	1123468	1.0	462
			64.4	65.4	1123469	1.0	192
			65.4	66.4	1123470	1.0	166
			66.4	67.4	1123471	1.0	328
67.9	72.9	Vif	67.4	68.0	1123472	0.6	70
		Intermediate Volcanic Flow	68.0	69.0	1123473	1.0	11
			69.0	70.0	1123474	1.0	< 5

Benton Resources Inc.

Description			Assay - Sample				
			From	To	Sample number	Length	Au (ppb)
72.9	81.2	<p>Strongly altered intermediate metavolcanic rock- light-beige/brown, strongly bleached and silicified intermediate volcanic unit possible a tuff, displays a strong fabric and contains up to 5% sub- to euhedral pyrite, absence of quartz within this unit, displays evidence of intense shearing within sections</p> <p>Vif</p> <p>Intermediate Volcanic Flow</p> <p>Andesite - Aphanitic, dark-green/grey, weak fabric, no pyrite observed throughout this interval, highly reactive to acid, possibly pervasive carbonate alteration, cut by minor 0.5 -1 cm quartz-carbonate veins</p>	70.0	71.0	1123475	1.0	6
			71.0	72.0	1123476	1.0	< 5
			72.0	73.0	1123477	1.0	< 5
			73.0	74.0	1123478	1.0	< 5
			74.0	75.0	1123479	1.0	< 5
			74.0	75.0	1123480 (Std)	1.0	971
			74.0	75.0	1123481 (BIn)	1.0	< 5
			75.0	76.0	1123482	1.0	< 5
81.2	104.0	<p>Gab</p> <p>Gabbro</p> <p>Metagabbro - dark-grey, medium-grained with weak to moderate foliation, minor quartz+carbonate veining (0.5 mm), medium-grained dark green amphibole surrounded by white feldspar, unit is highly reactive to acid suggesting pervasive carbonate alteration, trace fine-grained euhedral-subehedral pyrite disseminated throughout unit</p>	76.0	77.0	1123483	1.0	11

Benton Resources Inc.

Survey:	BB-18-03	Claims title:	337606	Section:	
		Township:	Boot Bay Area G-2709	Level:	
		Range:		Work place:	684 Squier St
Contractor:	Cartwright Drilling	Lot:			
Author:	NSims/JVrzovski	Start date:	2018-12-04	Description date:	2018-12-10
		End date:	2018-12-06	Casing Removed?:	Yes

Collar

	UTM NAD83 z15
Dip:	-45.0°
Length:	100.9
	East 680488.00
	North 5407142.00
	Elevation 475.00

Down hole survey

Type	Depth	Azimuth	Dip	Invalid azimuth	Type	Depth	Azimuth	Dip	Invalid azimuth
Reflex	30.0	336.6°	-43.2°	No					
Reflex	60.0	338.0°	-37.9°	No					
Reflex	101.0	340.3°	-35.5°	No					

Number of samples:	39			
Number of QAQC samples:	4			
Total sampled length:	39.0			

Description:

Core size: NQ	Cemented: No	Core Storage Location:	Stored: No
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Benton Resources Inc.

Description			Assay - Sample					
			From	To	Sample number	Length	Au (ppb)	
0.0	10.1	Ovb Overburden Start of hole - casing/overburden						
10.1	12.6	Vif Intermediate Volcanic Flow Andesite - fine-grained to aphanitic, greenish-black, weak to moderately foliated, contains possible tuffaceous lenses up to 5 cm wide that are a light beige colour, randomly oriented/offset quartz + feldspar veins (1 - 3 cm) throughout, gradational lower contact						
12.6	16.4	Vt_int Intermediate Tuff Intermediate - felsic tuff (dacitic in composition?) - intense epidote flooding at beginning of unit giving a pistachio-green colour grading into a bleached beige/greenish colour towards bottom of unit (epidote+serectie), strongly foliated - quartz - feldspar veins with fuchsite and pyrite @ 15.4 m and 15.7 m, pyrite also observed to be concentrated in black bands (possibly interbedded volcanic units) throughout, gradational lower contact into cohesive intermediate metavolcanics	15.0	16.0	1123484	1.0	70	
16.4	19.8	Vif Intermediate Volcanic Flow Andesite - greyish-green in colour, cohesive volcanics, display a moderate foliation with amhpibole elongated parallel o foliation, minor quartz-cbnt veins throughout, very minor irregular quartz + feldspar veins, trace pyrite lens @ 17.3 m, pyrite is clustered together in a pod that is elongated parallel to foliation						
19.8	38.9	Vt_int Intermediate Tuff Intermediate - felsic tuff (dacitic in composition) - unit is aphanitic with a light-beige/greenish tinge throughout, gradational contact with above unit, relict bedding is noted throughout unit with relict lapilli present in some sections - unit can be highly variable with dark-black bands ranging from 1 - 10 cm thick, contain what appears to be feldspar phenocrysts, possibly interbedded volcanic units, these lenses usually contain fine-grained, sub-euhedral pyrite clusters, py present up to 20% within bands - nice pyrite clusters @ 21.5 m, 23.6 m, 28 m, 31.7 m and 35.2 m - minor qtz-cbnt veining th/o unit	21.0	22.0	1123485	1.0	210	
			22.0	23.0	1123486	1.0	75	
			23.0	24.0	1123487	1.0	39	

Benton Resources Inc.

		Description	Assay - Sample					
			From	To	Sample number	Length	Au (ppb)	
38.9	49.8	-gradational low contact Vif Intermediate Volcanic Flow Andesite Greyish-green, aphanitic, moderately foliated, highly reactive to acid, pervasive cbnt alterations, darker chlorite rich bands throughout, bands contain fracture fill quartz veins perpendicular to chl bands, pyrite + pyrrhotite? only found to be associated with chl bands within unit -irregular quartz-carbonate veins th/o - nice py and pyr @ 41 m						
49.8	53.9	Vt_int Intermediate Tuff Intermediate to felsic tuff - greenish/beige unit, aphanitic, tuffaceous looking with apparent relict lapilli and possible relict bedding in areas, moderately foliated, with a gradational upper contact and a sheared lower contact, appears to be more felsic in composition, black bands (1 - 5 cm) containing relict feldspar phenocrysts? found th/o unit and contain trace fine-grained disseminated pyrite - very-minor quartz-carbonate veining (0.5-1 cm) th/o	52.0	53.0	1123488	1.0	6	
			53.0	54.0	1123489	1.0	130	
53.9	68.8	Vif Intermediate Volcanic Flow Andesite-Dacite Strongly sheared upper contact (possibly tuff) grades into cohesive intermediate metavolcanic rock, main unit is light-grey/green in colour, fine-grained with chlorite elongated parallel to the moderate fabric -Unit is appears to be altered in sections with an increase in fabric intensity, rock becoming a lighter-grey colour, appearance of fuchsite? as well as disseminated fine-grained euhedral pyrite up to 5% - unit is strongly sheared (mylonitic?) from 54.9-55.3 m this interval is followed by a 30 cm banded quartz-feldspar vein with fine - medium grained euhedral pyrite proximal to vein, another strongly sheared zone from 57.6-57.8 m - lower contact of unit marked by a nicely bedded intermediate tuff horizon	54.0	55.0	1123490	1.0	226	
			55.0	56.0	1123491	1.0	372	
			56.0	57.0	1123492	1.0	10	
			57.0	58.0	1123493	1.0	33	
			58.0	59.0	1123494	1.0	86	
			59.0	60.0	1123495	1.0	104	
			60.0	61.0	1123496	1.0	30	
			61.0	62.0	1123497	1.0	27	
			62.0	63.0	1123498	1.0	111	
			63.0	64.0	1123499	1.0	144	
			64.0	65.0	1123500	1.0	77	
65.0	66.0	390401	1.0	64				
66.0	67.0	390402	1.0	80				
67.0	68.0	390403	1.0	9				

Benton Resources Inc.

Description			Assay - Sample				
			From	To	Sample number	Length	Au (ppb)
68.8	70.9	Vt_int Intermediate Tuff Intermediate to felsic tuff -Greenish/beige dacitic unit that appears to display relict bedding, aphanitic, moderately foliated, minor quartz+cbnt veining (0.5-1 cm) - trace to no sulphides observed within the unit	67.0	68.0	390404 (Std)	1.0	958
			67.0	68.0	390405 (BIn)	1.0	< 5
			68.0	69.0	390406	1.0	118
			69.0	70.0	390407	1.0	5
			70.0	71.0	390408	1.0	< 5
70.9	74.7	Vif Intermediate Volcanic Flow 45° Andesite Dark-green to black, aphanitic, more mafic looking unit, moderately foliated with pervasive carbonate alteration throughout, trace pyrite is observed to be associate with sporadic quartz-cbnt veining with chlorite alteration, sharp upper contact and gradational lower contact	71.0	72.0	390409	1.0	< 5
			72.0	73.0	390410	1.0	< 5
			73.0	74.0	390411	1.0	< 5
			74.0	75.0	390412	1.0	9
74.7	81.8	Vt_int Intermediate Tuff Intermediate tuff - light grey/green in appearance with possible relict bedding, aphanitic with a weak to moderate fabric, quartz+feldspar vein with 3% euhedral pyrite @ 79.8 m - gradational lower contact - intermediate dyke at 77.4 - 77.6 m	75.0	76.0	390413	1.0	5
			76.0	77.0	390414	1.0	< 5
81.8	89.9	Vt_fel Felsic Tuff Possible felsic tuffaceous unit - light grayish in appearance, unit is highly siliceous (possible silicification), aphanitic, weak to moderate foliation - irregular greyish quartz vein/stockwork zones @ 82 and 88.4 m with fine to medium-grained pyrite within and proximal to these zones gradational lower contact	82.0	83.0	390415	1.0	5
			83.0	84.0	390416	1.0	< 5
			84.0	85.0	390417	1.0	< 5
			85.0	86.0	390418	1.0	6
			86.0	87.0	390419	1.0	< 5
			87.0	88.0	390420	1.0	< 5
			88.0	89.0	390421	1.0	< 5
89.9	100.9	Vt_int	92.0	93.0	390422	1.0	9

Benton Resources Inc.

Description	Assay - Sample				
	From	To	Sample number	Length	Au (ppb)
Intermediate Tuff Dacitic tuff - Bleached beige colouration, relict tuffaceous bedding with possible relict lapilli, aphanitic - Very minor quartz-carbonate veining - strongly sheared zones at 89 m, 92.1 m and 93.7 m, up to 5% euhedral, fine to medium-grained pyrite within these zones	93.0	94.0	390423	1.0	< 5
	93.0	94.0	390424 (Std)	1.0	958
	93.0	94.0	390425 (Bln)	1.0	< 5
	94.0	95.0	390426	1.0	92

Benton Resources Inc.

Survey:	BB-18-04	Claims title:	140757	Section:	
		Township:	Boot Bay Area G-2709	Level:	
		Range:		Work place:	684 Squier St
Contractor:	Cartwright Drilling	Lot:			
Author:	NSims/JVrzovski	Start date:	2018-12-08	Description date:	2018-12-11
		End date:	2018-12-09	Casing Removed?:	Yes

Collar

	UTM NAD83 z15
Dip: -80.0°	East 679785.00
Length: 58.9	North 5405213.00
	Elevation 488.00

Down hole survey

Type	Depth	Azimuth	Dip	Invalid azimuth	Type	Depth	Azimuth	Dip	Invalid azimuth
Reflex	21.0	296.0°	-79.8°	No					
Reflex	59.0	296.8°	-80.1°	No					

Number of samples:	14
Number of QAQC samples:	2
Total sampled length:	12.5

Description:

Core size: NQ	Cemented: No	Core Storage Location:	Stored: No
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Benton Resources Inc.

Description			Assay - Sample					
			From	To	Sample number	Length	Au (ppb)	
0.0	2.0	Ovb Overburden Start of hole - overburden						
2.0	3.0	Gab Gabbro 60° Chloritized gabbro - fine-grained and appears more leucocratic in appearance, replacement of mafic minerals by chlorite, is non-magnetic and does not appear to contain sulphides, sharp lower contact with gabbro below	2.0	3.0	390427	1.0		
3.0	5.4	Gab Gabbro Gabbro - coarse grained, massive equigranular gabbro, dark-green black, meso- to melanocratic, strongly magnetic, patchy sulphides forming between grains, brassy colour 1-3% abundance, probably pyrrhotite Minor chlorite alteration along thin (0.5 - 1 cm) fractures	3.0	4.0	390428	1.0		
			4.0	5.0	390429	1.0		
			5.0	5.4	390430	0.4		
5.4	8.4	Gab Gabbro Chloritized gabbro - greenish-black gabbro heavily chlorite altered, appears finer grained and more leucocratic than the above unaltered gabbro, non-magnetic, does not appear to contain any sulphide	5.4	6.4	390431	1.0		
			6.4	7.5	390432	1.1		
			7.5	8.5	390433	1.0		
			7.5	8.5	390434 (Std)	1.0		
			7.5	8.5	390435 (BIn)	1.0		
8.4	12.7	Gab Gabbro Gabbro - dark-green/black, coarse-grained, massive textured, meso- to melanocratic, highly magnetic, trace patchy sulphides, brassy colour and abundant 3-5%, probably pyrrhotite -minor chlorite alteration along thin (0.5-1 cm) fractures, non-magnetic in these areas -unit becomes finer-grained towards lower contact and becomes less magnetic -sheared lower contact	8.5	9.5	390436	1.0		
			9.5	10.5	390437	1.0		
			10.5	11.5	390438	1.0		
			11.5	12.5	390439	1.0		
			12.5	12.8	390440	0.3		
			12.8	13.5	390441	0.7		
12.7	14.4	Sch_ChIBio Chlorite - Biotite Schist Chlorite-biotite schist, dark-green to black, marks lower contact of main gabbro unit, strongly sheared, non-magnetic, no observed sulphides @ 13.2 - 13.4 m - smoky quartz vein @13.4 - 14 m fragments of pegmatitic granite, that appear to be rounded (clasts?), surrounded by chl-bt schist, gradational lower contact between fine-grained meso-gabbro	13.5	14.5	390442	1.0		

Benton Resources Inc.

Description			Assay - Sample				
			From	To	Sample number	Length	Au (ppb)
14.4	16.5	<p>Gab Gabbro Mesogabbro - greenish/black, fine-grained, massive textured, weakly magnetic, more leucocratic than coarse-grained unaltered gabbro at start of hole, contains trace (1%) sulphides, probably pyrrhotite @ 14.6 - 15.4 m - granitic dyke, coarse grained to pegmatitic, sharp chilled contacts marked by chlorite alt of mesogabbro, possible hematite staining of feldspars</p>					
16.5	23.7	<p>Dy_fel Felsic Dyke Highly variable zone, lots of various intrusions and lithology changes, summarized here: @ 16.5 - 17 m - chl-bt schist into 10 cm plag-porphyratic dyke, 5cm of chl-bt schist then coarse grained granitic dyke with massive texture and weak chl + hematite alteration along thin fractures @ 17 - 18.5 m - plag-phyric fine grained gabbro/diorite w/ patchy chlorite alt., high biotite content, non-magnetic with no observed sulphides @ 18.5 - 19 m - pegmatitic tonalite/granodiorite dyke @ 19 - 19.2 m plag-phyric gabbro/diorite @ 19.2 - 19.6 m pegmatitic tonalite/gd @ 19.6 - 19.8 m chloritized plag=phyric gabbro/diorite @ 19.8 - 20 m pegmatitic tonalite/gd @ 20 - 20.1m chl-bt schist (highly sheared) @ 20.1 - 21.4 m tonalite/gd, plagioclase porphyritic, pegmatitic textured at margins, medium grained and massive textured internally @ 21.4 - 23.7 m plag-phyric gabbro/diorite with minor 5 cm wide pegmatitic gd/tonalite sections</p>					
23.7	30.1	<p>Sch_bio Biotite Schist Biotite rich metasedimentary rock - bt-schist, black, fine-grained with a weak to moderate fabric, 60 - 80% biotite, probable wacke protolith - cut by a number of felsic dykes tonalite/granodiorite in composition @ 24.2 - 24.3, 25.9-26.2 and 27.6-27.9 - trace fine grained pyrite noted along contacts between felsic dykes and bt-schist</p>					
30.1	37.9	<p>GDio Granodiorite Granodiorite/tonalite dyke - plag-porphyratic, with pegmatitic texture at upper and lower contacts as well as internally from 30.6 - 31.1 m (graphic texture observed), some sections display a weak gneissose texture with segregated</p>					

Benton Resources Inc.

		Description	Assay - Sample				
			From	To	Sample number	Length	Au (ppb)
37.9	43.8	biotite-rich bands Sch_bio Biotite Schist Bioite-rich metasedimentary rocks, bt-schist, fine-grained with a weak to moderate fabric, 60-80% biotite, probable wacke protolith, non-magnetic with no observed sulphides, trace py observed at contacts with intrusive units @ 38.2 - 38.7 m pegmatitic tonalite/gd dyke with smoky quartz vein @ 38.9 - 39.5 m pegmatitic tonalite (rounded feldspars?) @ 40.4 - 40.8 m pegmatitic tonalite/gd dyke					
43.8	44.7	GDio Granodiorite Granodiorite/tonalite dyke with a gneissose texture and biotite rich bands throughout					
44.7	50.1	Sch_bio Biotite Schist Biotite rich metasedimentary rock, bt-schist, probable wacke protolith Smoky quartz vein @ 46.6 - 46.7 Gneissose tonalite/gd dykes @ 46.3 - 46.4, 47.8-48.1, 49.5-49.8 Trace pyrite at contacts between dykes and meta-seds					
50.1	53.6	GDio Granodiorite Granodiorite/tonalite w/ gneissose texture, bt-rich bands throughout, more intense fabric near margins Metasedimentary interval from 52 - 52.5					
53.6	58.9	Sch_bio Biotite Schist Biotite rich metasedimentary rocks, bt-schist, fine-grained and black with 60 - 80% biotite, probable wacke protolith, minor pegmatitic tonalite/gd dykes					

Appendix II – Assay Certificates



Date Submitted: 07-Dec-18
Invoice No.: A18-18891
Invoice Date: 20-Dec-18
Your Reference: 2001-07

Benton Resources Inc.
684 Squier Street
Thunder Bay ON P7B 4A8
Canada

ATTN: Mike Stares

CERTIFICATE OF ANALYSIS

83 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-Tbay Au - Fire Assay AA (QOP Fire Assay Tbay)

Code 1E3-Tbay Aqua Regia ICP(AQUAGEO)

REPORT **A18-18891**

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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

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Results

Activation Laboratories Ltd.

Report: A18-18891

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
1123401	< 5	< 0.2	< 0.5	15	595	< 1	50	3	79	2.15	4	< 10	89	< 0.5	< 2	2.25	14	60	3.49	< 10	< 1	0.28	20
1123402	< 5	< 0.2	< 0.5	70	670	3	53	3	47	1.88	< 2	< 10	105	< 0.5	< 2	2.84	15	49	3.32	< 10	< 1	0.32	16
1123403	< 5	< 0.2	< 0.5	113	720	4	63	< 2	69	2.82	< 2	< 10	165	< 0.5	2	2.83	25	84	4.25	< 10	< 1	0.44	12
1123404	< 5	< 0.2	< 0.5	30	500	2	43	< 2	54	2.71	3	< 10	202	< 0.5	< 2	2.23	17	44	3.32	< 10	< 1	0.53	26
1123405	< 5	< 0.2	< 0.5	25	620	1	30	< 2	56	2.79	4	< 10	202	< 0.5	3	2.43	15	37	3.91	< 10	< 1	0.47	34
1123406	< 5	< 0.2	< 0.5	51	586	1	29	< 2	53	2.75	16	< 10	154	< 0.5	< 2	2.79	20	33	4.19	< 10	< 1	0.38	37
1123407	< 5	< 0.2	< 0.5	132	893	< 1	79	< 2	75	3.64	3	< 10	15	< 0.5	2	4.05	36	160	6.15	10	< 1	0.02	14
1123408	< 5	< 0.2	< 0.5	129	1080	< 1	91	< 2	71	3.51	4	< 10	< 10	< 0.5	3	4.75	40	191	5.91	10	1	< 0.01	< 10
1123409	< 5	< 0.2	< 0.5	121	1110	< 1	83	< 2	77	3.11	3	< 10	12	< 0.5	< 2	5.48	36	165	5.24	10	< 1	< 0.01	< 10
1123410	997	0.9	< 0.5	5	145	< 1	118	91	34	0.20	< 2	< 10	18	< 0.5	< 2	0.17	4	25	3.07	< 10	< 1	0.04	< 10
1123411	< 5	< 0.2	< 0.5	< 1	5	< 1	9	< 2	< 2	0.01	< 2	< 10	10	< 0.5	< 2	0.04	< 1	16	0.06	< 10	< 1	< 0.01	< 10
1123412	8	< 0.2	< 0.5	136	1130	< 1	93	< 2	78	3.12	2	< 10	12	< 0.5	3	5.47	42	190	5.46	10	3	< 0.01	< 10
1123413	10	< 0.2	< 0.5	318	1150	< 1	97	< 2	92	3.56	< 2	< 10	< 10	< 0.5	< 2	5.32	46	188	6.34	10	2	< 0.01	< 10
1123414	72	0.3	< 0.5	267	629	< 1	21	< 2	64	2.30	< 2	< 10	23	< 0.5	< 2	2.63	14	38	3.77	10	< 1	0.02	26
1123415	46	< 0.2	< 0.5	56	656	< 1	24	< 2	66	2.45	< 2	< 10	105	< 0.5	< 2	2.90	14	39	3.90	10	< 1	0.16	28
1123416	23	< 0.2	< 0.5	51	672	< 1	26	< 2	58	2.22	< 2	< 10	126	< 0.5	< 2	3.28	13	40	3.67	10	< 1	0.14	24
1123417	20	< 0.2	< 0.5	10	672	< 1	25	< 2	49	2.13	< 2	< 10	212	< 0.5	< 2	3.67	11	44	3.56	10	< 1	0.27	26
1123418	48	< 0.2	< 0.5	23	609	< 1	28	3	57	2.25	2	< 10	61	< 0.5	2	3.67	12	20	3.45	< 10	< 1	0.46	15
1123419	18	< 0.2	< 0.5	38	580	< 1	29	4	54	1.88	6	< 10	60	< 0.5	< 2	3.67	13	19	3.35	< 10	< 1	0.45	14
1123420	11	< 0.2	< 0.5	25	554	2	33	4	55	1.99	4	< 10	67	< 0.5	< 2	3.60	13	20	3.41	< 10	< 1	0.57	14
1123421	982	1.0	< 0.5	5	142	< 1	112	90	34	0.20	3	< 10	12	< 0.5	< 2	0.17	4	24	3.02	< 10	< 1	0.04	< 10
1123422	< 5	< 0.2	< 0.5	< 1	6	< 1	9	< 2	< 2	0.01	< 2	< 10	< 10	< 0.5	< 2	0.04	< 1	15	0.06	< 10	< 1	< 0.01	< 10
1123423	107	0.8	< 0.5	122	444	3	24	13	44	1.60	6	< 10	56	< 0.5	9	2.83	13	21	3.05	< 10	< 1	0.58	12
1123424	3370	17.3	< 0.5	391	446	8	27	380	43	1.56	10	< 10	54	< 0.5	281	2.80	15	22	2.83	< 10	< 1	0.56	11
1123425	135	0.4	< 0.5	121	360	3	20	8	44	1.29	8	< 10	44	< 0.5	< 2	2.38	10	23	2.34	< 10	< 1	0.45	< 10
1123426	55	0.9	< 0.5	97	477	5	29	21	38	1.45	20	< 10	47	< 0.5	2	3.07	14	30	2.59	< 10	< 1	0.55	< 10
1123427	87	0.7	< 0.5	145	419	5	19	13	28	1.03	12	< 10	40	< 0.5	< 2	2.59	11	22	2.18	< 10	< 1	0.44	< 10
1123428	113	2.2	< 0.5	142	420	7	21	65	28	0.81	17	< 10	31	< 0.5	6	2.71	14	17	2.16	< 10	< 1	0.34	< 10
1123429	321	0.8	< 0.5	246	425	5	23	9	34	0.96	13	< 10	36	< 0.5	< 2	2.91	12	23	2.42	< 10	< 1	0.41	< 10
1123430	112	0.4	< 0.5	130	736	5	49	11	37	1.07	55	< 10	34	< 0.5	< 2	4.63	27	36	3.70	< 10	< 1	0.49	< 10
1123431	97	7.7	< 0.5	117	424	7	23	292	38	1.03	16	< 10	33	< 0.5	66	2.73	15	17	2.61	< 10	< 1	0.36	10
1123432	51	0.4	< 0.5	89	387	6	20	8	32	1.35	11	< 10	47	< 0.5	< 2	2.48	10	22	2.40	< 10	< 1	0.54	< 10
1123433	58	0.6	< 0.5	67	382	5	17	14	33	0.91	8	< 10	30	< 0.5	< 2	2.37	9	22	2.26	< 10	< 1	0.32	< 10
1123434	3770	0.4	< 0.5	53	397	5	20	6	40	1.49	10	< 10	44	< 0.5	< 2	2.37	10	23	2.50	< 10	< 1	0.51	11
1123435	45	0.4	< 0.5	66	388	3	22	11	40	1.52	8	< 10	46	< 0.5	< 2	2.41	12	22	2.67	< 10	< 1	0.52	12
1123436	119	10.8	< 0.5	72	372	6	19	382	25	0.89	13	< 10	30	< 0.5	28	2.33	9	17	2.08	< 10	< 1	0.30	< 10
1123437	35	0.5	< 0.5	51	458	5	26	14	37	1.57	14	< 10	51	< 0.5	< 2	2.98	13	26	2.85	< 10	< 1	0.56	13
1123438	166	8.0	< 0.5	51	419	8	22	250	47	1.52	9	< 10	40	< 0.5	23	2.43	12	19	2.72	< 10	< 1	0.41	12
1123439	64	0.5	< 0.5	70	500	5	40	10	35	1.20	39	< 10	38	< 0.5	< 2	3.09	19	36	2.61	< 10	< 1	0.46	< 10
1123440	953	0.8	< 0.5	5	140	< 1	111	90	33	0.20	4	< 10	12	< 0.5	< 2	0.17	4	24	3.00	< 10	< 1	0.04	< 10
1123441	< 5	< 0.2	< 0.5	< 1	5	< 1	8	< 2	< 2	0.01	< 2	< 10	< 10	< 0.5	< 2	0.04	< 1	15	0.05	< 10	< 1	< 0.01	< 10
1123442	158	0.2	< 0.5	65	555	3	26	7	56	1.88	22	< 10	42	< 0.5	< 2	3.22	15	25	3.90	< 10	< 1	0.54	15

Results

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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
1123443	1010	0.6	< 0.5	82	469	17	30	16	36	1.31	13	< 10	40	< 0.5	< 2	2.81	17	32	3.04	< 10	< 1	0.49	< 10
1123444	96	0.4	< 0.5	68	400	7	24	13	41	1.57	12	< 10	45	< 0.5	< 2	2.45	12	22	2.69	< 10	< 1	0.53	12
1123445	401	1.9	< 0.5	54	310	7	15	60	23	0.60	7	< 10	23	< 0.5	5	1.88	10	21	1.85	< 10	< 1	0.23	< 10
1123446	220	0.4	< 0.5	74	560	5	36	11	46	1.63	24	< 10	44	< 0.5	< 2	3.06	20	37	3.24	< 10	< 1	0.56	< 10
1123447	165	0.4	< 0.5	102	645	7	40	12	40	1.41	43	< 10	44	< 0.5	< 2	3.63	22	34	3.03	< 10	< 1	0.58	< 10
1123448	221	1.2	< 0.5	56	530	5	35	48	43	1.57	20	< 10	46	< 0.5	4	3.21	18	41	3.16	< 10	< 1	0.56	< 10
1123449	162	6.9	< 0.5	426	513	5	31	219	46	1.60	14	< 10	43	< 0.5	20	2.83	16	31	3.16	< 10	< 1	0.49	11
1123450	32	0.3	< 0.5	58	401	3	19	9	29	1.45	10	< 10	46	< 0.5	< 2	2.39	10	21	2.39	< 10	< 1	0.52	11
1123451	105	0.8	< 0.5	76	386	7	21	31	36	1.28	7	< 10	39	< 0.5	2	2.35	12	32	2.51	< 10	< 1	0.44	11
1123452	456	0.4	< 0.5	50	551	5	27	12	30	1.44	21	< 10	64	< 0.5	< 2	3.49	14	25	3.03	< 10	< 1	0.51	13
1123453	< 5	< 0.2	< 0.5	25	580	1	50	< 2	44	2.11	31	< 10	92	< 0.5	3	3.38	16	42	3.75	< 10	< 1	0.54	16
1123454	30	1.1	< 0.5	50	465	4	37	33	52	1.91	15	< 10	66	< 0.5	4	2.74	15	34	3.39	< 10	< 1	0.52	14
1123455	159	12.8	< 0.5	110	455	9	25	442	25	1.06	10	< 10	37	< 0.5	37	2.66	15	32	2.49	< 10	< 1	0.42	< 10
1123456	187	1.0	< 0.5	159	535	7	29	28	44	1.46	13	< 10	41	< 0.5	5	3.18	14	35	3.27	< 10	< 1	0.53	11
1123457	343	0.4	< 0.5	89	571	8	27	9	38	1.42	14	< 10	36	< 0.5	< 2	3.00	16	32	3.31	< 10	< 1	0.50	< 10
1123458	194	0.8	< 0.5	81	507	6	21	26	43	1.26	12	< 10	27	< 0.5	2	2.64	13	25	3.01	< 10	< 1	0.35	11
1123459	179	1.1	< 0.5	102	550	5	24	22	30	0.65	19	< 10	21	< 0.5	2	3.29	15	25	2.68	< 10	< 1	0.26	< 10
1123460	976	0.9	< 0.5	5	142	< 1	113	93	36	0.20	3	< 10	12	< 0.5	3	0.17	4	25	3.03	< 10	< 1	0.04	< 10
1123461	< 5	< 0.2	< 0.5	< 1	5	< 1	9	< 2	< 2	0.01	< 2	< 10	10	< 0.5	< 2	0.03	< 1	15	0.05	< 10	< 1	< 0.01	< 10
1123462	769	< 0.2	< 0.5	56	422	4	18	7	35	0.95	12	< 10	30	< 0.5	< 2	2.48	9	23	2.43	< 10	< 1	0.31	13
1123463	34	< 0.2	< 0.5	70	647	3	38	6	37	1.18	46	< 10	40	< 0.5	< 2	3.79	20	33	3.06	< 10	< 1	0.44	< 10
1123464	48	1.4	< 0.5	60	466	3	23	40	35	1.04	19	< 10	31	< 0.5	4	2.51	11	21	2.73	< 10	< 1	0.30	12
1123465	135	0.4	< 0.5	97	700	5	45	10	40	1.06	36	< 10	31	< 0.5	< 2	3.87	21	35	3.49	< 10	< 1	0.37	< 10
1123466	627	3.3	< 0.5	115	437	6	24	47	26	0.79	16	< 10	34	< 0.5	14	2.52	13	27	2.22	< 10	< 1	0.30	< 10
1123467	250	0.5	< 0.5	66	515	8	24	8	36	0.74	16	< 10	23	< 0.5	< 2	3.14	14	18	2.99	< 10	< 1	0.21	< 10
1123468	462	0.7	< 0.5	90	522	6	30	11	27	0.82	20	< 10	30	< 0.5	< 2	2.92	16	27	2.86	< 10	< 1	0.33	< 10
1123469	192	0.5	< 0.5	102	491	5	24	10	34	0.86	10	< 10	31	< 0.5	< 2	2.87	15	29	2.72	< 10	< 1	0.29	< 10
1123470	166	0.3	< 0.5	99	395	9	19	7	24	0.69	6	< 10	31	< 0.5	< 2	2.40	11	23	2.22	< 10	< 1	0.27	< 10
1123471	328	0.8	< 0.5	188	482	7	27	20	37	0.95	11	< 10	34	< 0.5	17	2.84	16	29	2.71	< 10	< 1	0.30	< 10
1123472	70	1.7	< 0.5	231	844	3	47	43	117	2.23	19	< 10	30	< 0.5	54	3.82	23	78	4.86	< 10	< 1	0.29	< 10
1123473	11	< 0.2	< 0.5	88	1020	5	87	24	55	1.86	41	< 10	30	< 0.5	4	5.67	38	81	4.34	< 10	< 1	0.24	< 10
1123474	< 5	< 0.2	< 0.5	62	1020	3	87	< 2	49	2.00	2	< 10	31	< 0.5	4	5.22	38	86	3.85	< 10	< 1	0.20	< 10
1123475	6	< 0.2	< 0.5	70	1080	4	74	2	42	1.58	3	< 10	41	< 0.5	< 2	6.52	25	81	3.92	< 10	< 1	0.24	< 10
1123476	< 5	< 0.2	< 0.5	97	1140	5	70	2	68	2.33	5	< 10	39	< 0.5	3	5.35	34	81	5.49	< 10	< 1	0.22	< 10
1123477	< 5	< 0.2	< 0.5	118	1160	< 1	86	2	80	3.00	4	< 10	21	< 0.5	< 2	6.24	42	143	5.86	< 10	4	0.12	< 10
1123478	< 5	< 0.2	< 0.5	104	1140	< 1	83	< 2	82	3.85	4	< 10	15	< 0.5	3	6.02	35	164	6.32	10	< 1	0.04	< 10
1123479	< 5	< 0.2	< 0.5	138	1420	< 1	91	< 2	96	5.01	< 2	< 10	20	< 0.5	< 2	5.40	41	179	8.39	10	2	0.01	< 10
1123480	971	0.8	< 0.5	5	143	< 1	110	90	34	0.20	2	< 10	< 10	< 0.5	< 2	0.17	4	25	2.97	< 10	< 1	0.04	< 10
1123481	< 5	< 0.2	< 0.5	2	12	< 1	10	< 2	< 2	0.03	< 2	< 10	< 10	< 0.5	< 2	0.05	< 1	16	0.10	< 10	< 1	< 0.01	< 10
1123482	< 5	< 0.2	< 0.5	112	1220	3	88	< 2	70	3.60	3	< 10	19	< 0.5	< 2	5.22	38	177	5.72	10	2	0.03	< 10
1123483	11	< 0.2	< 0.5	122	1090	< 1	85	< 2	70	4.01	< 2	< 10	25	< 0.5	< 2	5.34	40	173	6.62	10	1	0.01	< 10

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	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
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
1123401	1.89	0.127	0.037	0.08	< 2	6	30	< 0.01	< 20	< 1	< 2	< 10	37	< 10	8	4
1123402	2.00	0.103	0.035	0.21	< 2	5	34	< 0.01	< 20	2	< 2	< 10	30	< 10	8	7
1123403	2.64	0.072	0.040	0.08	2	8	35	< 0.01	< 20	< 1	< 2	< 10	54	< 10	5	10
1123404	1.83	0.100	0.090	0.13	< 2	5	31	< 0.01	< 20	< 1	< 2	< 10	39	< 10	9	3
1123405	2.07	0.097	0.115	0.30	< 2	6	28	< 0.01	< 20	< 1	< 2	< 10	44	< 10	9	3
1123406	1.99	0.075	0.114	0.52	2	5	25	< 0.01	< 20	< 1	< 2	< 10	39	< 10	9	4
1123407	3.03	0.065	0.051	0.25	< 2	23	55	< 0.01	< 20	< 1	< 2	< 10	182	< 10	4	14
1123408	3.06	0.070	0.025	0.15	< 2	25	67	0.01	< 20	< 1	< 2	< 10	205	< 10	3	4
1123409	2.60	0.074	0.030	0.11	3	22	76	0.01	< 20	< 1	< 2	< 10	177	< 10	4	8
1123410	1.37	0.091	0.021	2.96	2	1	7	< 0.01	< 20	2	< 2	< 10	3	< 10	2	4
1123411	< 0.01	0.016	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
1123412	2.57	0.069	0.025	0.12	3	25	71	0.01	< 20	< 1	< 2	< 10	205	< 10	3	3
1123413	2.94	0.058	0.025	0.10	< 2	29	62	0.01	< 20	< 1	< 2	< 10	213	< 10	4	3
1123414	1.71	0.130	0.073	< 0.01	< 2	10	53	< 0.01	< 20	< 1	< 2	< 10	70	< 10	8	5
1123415	1.57	0.108	0.076	< 0.01	2	9	61	< 0.01	< 20	< 1	< 2	< 10	76	< 10	8	3
1123416	1.34	0.119	0.076	< 0.01	< 2	9	86	0.01	< 20	< 1	< 2	< 10	62	< 10	9	4
1123417	1.14	0.113	0.077	< 0.01	< 2	9	107	0.02	< 20	< 1	< 2	< 10	74	< 10	9	4
1123418	1.51	0.217	0.054	0.06	3	5	59	< 0.01	< 20	< 1	< 2	< 10	28	< 10	5	2
1123419	1.40	0.187	0.053	0.14	< 2	4	52	< 0.01	< 20	< 1	< 2	< 10	24	15	5	2
1123420	1.38	0.189	0.053	0.23	< 2	5	57	< 0.01	< 20	< 1	< 2	< 10	27	22	6	3
1123421	1.33	0.091	0.020	2.86	2	1	7	< 0.01	< 20	4	< 2	< 10	3	< 10	2	4
1123422	< 0.01	0.016	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
1123423	1.16	0.119	0.049	0.85	2	5	49	< 0.01	< 20	4	< 2	< 10	29	< 10	5	12
1123424	1.10	0.113	0.043	0.83	3	5	54	< 0.01	< 20	6	< 2	< 10	34	< 10	5	13
1123425	1.01	0.104	0.036	0.42	< 2	4	44	< 0.01	< 20	< 1	3	< 10	24	54	5	13
1123426	1.27	0.099	0.040	0.38	< 2	6	55	< 0.01	< 20	4	< 2	< 10	29	99	5	11
1123427	0.93	0.083	0.038	0.53	5	4	47	< 0.01	< 20	2	< 2	< 10	20	792	5	19
1123428	0.91	0.083	0.033	0.56	< 2	4	48	< 0.01	< 20	3	< 2	< 10	20	102	4	11
1123429	1.11	0.082	0.034	0.55	< 2	4	50	< 0.01	< 20	4	< 2	< 10	21	72	5	14
1123430	1.67	0.071	0.026	0.66	< 2	9	69	< 0.01	< 20	< 1	< 2	< 10	35	143	3	7
1123431	1.01	0.078	0.038	0.69	< 2	4	51	< 0.01	< 20	2	< 2	< 10	21	671	5	18
1123432	1.05	0.100	0.035	0.55	< 2	4	47	< 0.01	< 20	2	2	< 10	26	73	5	20
1123433	1.07	0.070	0.035	0.42	< 2	3	44	< 0.01	< 20	1	< 2	< 10	17	158	4	16
1123434	1.09	0.112	0.039	0.36	< 2	4	45	< 0.01	< 20	2	< 2	< 10	26	45	5	17
1123435	1.16	0.099	0.041	0.56	< 2	4	46	< 0.01	< 20	1	< 2	< 10	30	13	5	18
1123436	0.92	0.070	0.045	0.37	3	3	44	< 0.01	< 20	4	< 2	< 10	17	602	5	16
1123437	1.38	0.086	0.040	0.42	< 2	4	56	< 0.01	< 20	< 1	< 2	< 10	28	177	6	17
1123438	1.30	0.066	0.043	0.39	2	4	48	< 0.01	< 20	4	< 2	< 10	25	10	5	13
1123439	1.29	0.097	0.036	0.42	< 2	8	54	< 0.01	< 20	3	< 2	< 10	35	78	4	12
1123440	1.33	0.089	0.020	2.80	< 2	1	7	< 0.01	< 20	3	< 2	< 10	3	< 10	2	4
1123441	< 0.01	0.015	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
1123442	1.58	0.080	0.094	0.54	< 2	6	59	< 0.01	< 20	< 1	< 2	< 10	31	< 10	9	5

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	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
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
1123443	1.30	0.079	0.034	1.13	3	6	54	< 0.01	< 20	3	< 2	< 10	33	< 10	4	19
1123444	1.24	0.090	0.043	0.58	< 2	4	48	< 0.01	< 20	< 1	< 2	< 10	30	134	5	13
1123445	0.82	0.051	0.027	0.55	< 2	3	36	< 0.01	< 20	1	< 2	< 10	13	< 10	4	16
1123446	1.44	0.095	0.037	0.61	< 2	7	55	< 0.01	< 20	< 1	< 2	< 10	38	< 10	4	15
1123447	1.51	0.080	0.042	0.61	3	8	64	< 0.01	< 20	4	< 2	< 10	37	17	4	11
1123448	1.51	0.084	0.036	0.59	2	7	59	< 0.01	< 20	4	< 2	< 10	37	25	4	13
1123449	1.35	0.075	0.042	0.67	< 2	5	55	< 0.01	< 20	< 1	< 2	< 10	34	92	5	13
1123450	1.11	0.106	0.037	0.40	< 2	4	45	< 0.01	< 20	< 1	< 2	< 10	28	11	5	9
1123451	1.11	0.079	0.040	0.65	< 2	4	47	< 0.01	< 20	2	< 2	< 10	26	< 10	5	5
1123452	1.44	0.102	0.054	0.46	2	5	62	< 0.01	< 20	< 1	< 2	< 10	26	< 10	6	7
1123453	1.74	0.134	0.045	0.16	< 2	6	57	< 0.01	< 20	< 1	< 2	< 10	33	< 10	7	5
1123454	1.49	0.106	0.046	0.49	< 2	5	52	< 0.01	< 20	3	< 2	< 10	29	45	7	3
1123455	1.01	0.077	0.030	0.91	2	5	50	< 0.01	< 20	5	< 2	< 10	28	60	4	16
1123456	1.39	0.075	0.065	0.78	5	5	58	< 0.01	< 20	< 1	< 2	< 10	31	430	5	13
1123457	1.33	0.075	0.060	0.87	3	5	53	< 0.01	< 20	5	< 2	< 10	28	53	5	12
1123458	1.24	0.057	0.068	0.65	< 2	4	45	< 0.01	< 20	1	< 2	< 10	20	21	6	9
1123459	1.24	0.055	0.034	0.66	< 2	5	50	< 0.01	< 20	5	< 2	< 10	16	79	4	10
1123460	1.35	0.091	0.020	2.83	< 2	1	7	< 0.01	< 20	4	< 2	< 10	3	< 10	2	4
1123461	< 0.01	0.016	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
1123462	1.07	0.063	0.052	0.39	< 2	3	44	< 0.01	< 20	< 1	< 2	< 10	17	109	5	9
1123463	1.55	0.067	0.039	0.34	< 2	7	61	< 0.01	< 20	3	< 2	< 10	29	41	4	8
1123464	1.16	0.085	0.042	0.40	< 2	4	46	< 0.01	< 20	3	< 2	< 10	18	69	5	12
1123465	1.63	0.056	0.040	0.68	2	7	66	< 0.01	< 20	< 1	< 2	< 10	26	295	5	14
1123466	0.95	0.061	0.031	0.55	3	4	47	< 0.01	< 20	3	< 2	< 10	22	223	4	15
1123467	1.30	0.046	0.042	0.85	< 2	4	51	< 0.01	< 20	2	< 2	< 10	16	13	5	15
1123468	1.17	0.078	0.039	0.93	4	5	51	< 0.01	< 20	2	< 2	< 10	19	375	5	16
1123469	1.24	0.067	0.037	0.71	< 2	5	51	< 0.01	< 20	1	< 2	< 10	21	10	4	13
1123470	0.94	0.084	0.033	0.61	< 2	4	44	< 0.01	< 20	< 1	< 2	< 10	18	< 10	4	15
1123471	1.21	0.084	0.034	0.68	< 2	5	44	< 0.01	< 20	2	< 2	< 10	24	< 10	4	16
1123472	2.56	0.118	0.025	0.39	2	11	57	< 0.01	< 20	< 1	< 2	< 10	69	< 10	4	12
1123473	2.85	0.256	0.025	0.09	< 2	16	71	< 0.01	< 20	< 1	< 2	< 10	65	< 10	2	2
1123474	2.83	0.300	0.025	0.03	3	17	73	< 0.01	< 20	< 1	< 2	< 10	70	< 10	2	2
1123475	2.57	0.219	0.037	0.11	< 2	11	66	< 0.01	< 20	1	< 2	< 10	42	< 10	4	8
1123476	2.47	0.220	0.029	0.37	< 2	14	59	< 0.01	< 20	< 1	< 2	< 10	75	< 10	3	8
1123477	2.62	0.107	0.023	0.21	3	20	53	< 0.01	< 20	< 1	< 2	< 10	127	< 10	3	3
1123478	2.99	0.064	0.023	0.18	3	26	57	< 0.01	< 20	< 1	3	< 10	170	< 10	3	3
1123479	4.00	0.035	0.023	0.26	4	29	54	< 0.01	< 20	< 1	< 2	< 10	210	< 10	2	3
1123480	1.32	0.086	0.020	2.77	2	1	7	< 0.01	< 20	4	< 2	< 10	3	< 10	2	4
1123481	< 0.01	0.018	< 0.001	< 0.01	< 2	< 1	1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
1123482	2.91	0.052	0.022	0.13	2	24	51	< 0.01	< 20	< 1	< 2	< 10	180	< 10	2	2
1123483	3.31	0.042	0.026	0.26	3	28	54	< 0.01	< 20	< 1	< 2	< 10	194	< 10	2	3

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
OREAS 904 (Aqua Regia) Meas		0.3	< 0.5	6350	468	2	37	11	24	2.07	97		78	7.9	2	0.05	99	24	6.34	< 10		0.96	41
OREAS 904 (Aqua Regia) Cert		0.366	0.0580	6300	410	2.02	36.6	8.49	22.4	1.25	91.0		68.0	6.54	3.74	0.0404	82.0	17.5	6.40	3.40		0.603	33.9
OREAS 922 (AQUA REGIA) Meas		0.8	< 0.5	2290	791	< 1	37	68	261	3.06	5		81	0.8	6	0.42	19	43	5.33	< 10		0.51	38
OREAS 922 (AQUA REGIA) Cert		0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62		0.376	32.5
OREAS 923 (AQUA REGIA) Meas		4.6	< 0.5	4350	899	< 1	33	86	335	3.04	2		61	0.7	14	0.42	20	39	5.85	< 10		0.42	34
OREAS 923 (AQUA REGIA) Cert		1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01		0.322	30.0
OREAS 520 (Aqua Regia) Meas				2830	2150	57	71	4	20	1.59	148			0.6	< 2	3.61	184	32	15.7	10		0.49	69
OREAS 520 (Aqua Regia) Cert				2960	2280	62.0	73.0	5.22	20.7	1.56	152			0.540	2.90	3.84	196	37.4	15.74	13.7		0.506	83.0
OREAS 218 Meas	526																						
OREAS 218 Cert	531																						
OREAS 218 Meas	527																						
OREAS 218 Cert	531																						
OREAS 218 Meas	537																						
OREAS 218 Cert	531																						
OREAS 218 Meas	544																						
OREAS 218 Cert	531																						
Oreas 621 (Aqua Regia) Meas		70.8	306	3660	562	15	26	> 5000	> 10000	1.89	85			0.6	< 2	1.76	31	29	3.50	10	3	0.39	20
Oreas 621 (Aqua Regia) Cert		68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93	0.333	19.4
Oreas 221 (Fire Assay) Meas	1060																						
Oreas 221 (Fire Assay) Cert	1060																						
Oreas 221 (Fire Assay) Meas	1060																						
Oreas 221 (Fire Assay) Cert	1060																						
Oreas 221 (Fire Assay) Meas	1070																						
Oreas 221 (Fire Assay) Cert	1060																						
1123412 Orig	7																						

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
1123412 Dup	8																						
1123413 Orig		< 0.2	< 0.5	317	1160	< 1	97	< 2	95	3.57	4	< 10	< 10	< 0.5	< 2	5.32	46	189	6.34	10	1	< 0.01	< 10
1123413 Dup		< 0.2	< 0.5	319	1150	< 1	97	< 2	90	3.54	< 2	< 10	11	< 0.5	< 2	5.31	46	188	6.34	10	3	< 0.01	< 10
1123420 Orig	14																						
1123420 Dup	7																						
1123427 Orig		0.6	< 0.5	146	416	5	19	13	28	1.01	12	< 10	40	< 0.5	< 2	2.58	11	20	2.18	< 10	< 1	0.43	< 10
1123427 Dup		0.7	< 0.5	145	422	5	20	12	28	1.04	12	< 10	41	< 0.5	< 2	2.59	11	24	2.19	< 10	< 1	0.44	< 10
1123430 Orig	101																						
1123430 Dup	123																						
1123440 Orig		0.8	< 0.5	5	141	< 1	112	89	34	0.20	3	< 10	11	< 0.5	< 2	0.17	4	25	3.02	< 10	< 1	0.04	< 10
1123440 Dup		0.8	< 0.5	5	139	< 1	109	91	32	0.19	4	< 10	13	< 0.5	< 2	0.16	4	24	2.97	< 10	< 1	0.04	< 10
1123445 Orig	468																						
1123445 Dup	334																						
1123450 Orig	32	0.3	< 0.5	58	401	3	19	9	29	1.45	10	< 10	46	< 0.5	< 2	2.39	10	21	2.39	< 10	< 1	0.52	11
1123450 Split PREP DUP	37	0.2	< 0.5	58	412	3	19	8	31	1.56	10	< 10	49	< 0.5	< 2	2.46	10	22	2.45	< 10	< 1	0.56	11
1123453 Orig		< 0.2	< 0.5	25	579	1	50	4	44	2.08	30	< 10	90	< 0.5	3	3.38	16	42	3.74	< 10	< 1	0.53	15
1123453 Dup		< 0.2	< 0.5	25	582	1	49	< 2	43	2.15	32	< 10	93	< 0.5	3	3.38	17	42	3.76	< 10	< 1	0.55	16
1123454 Orig	24																						
1123454 Dup	36																						
1123465 Orig	138																						
1123465 Dup	131																						
1123476 Orig		< 0.2	< 0.5	98	1140	5	72	3	69	2.35	5	< 10	39	< 0.5	3	5.40	34	82	5.57	< 10	< 1	0.22	< 10
1123476 Dup		< 0.2	< 0.5	95	1130	5	68	2	68	2.31	4	< 10	39	< 0.5	4	5.31	34	81	5.42	< 10	< 1	0.22	< 10
1123479 Orig	< 5																						
1123479 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	< 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	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	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
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
OREAS 904 (Aqua Regia) Meas	0.22		0.099	0.05	3	5	21		< 20		< 2	< 10	35		21	
OREAS 904 (Aqua Regia) Cert	0.143		0.0950	0.0340	0.780	3.83	16.5		7.56		0.150	5.20	21.7		17.2	
OREAS 922 (AQUA REGIA) Meas	1.38	0.032	0.064	0.39	3	4	18		< 20		< 2	< 10	38	< 10	20	20
OREAS 922 (AQUA REGIA) Cert	1.33	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3
OREAS 923 (AQUA REGIA) Meas	1.47		0.060	0.69	3	4	15		< 20		< 2	< 10	37	< 10	20	25
OREAS 923 (AQUA REGIA) Cert	1.43		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5
OREAS 520 (Aqua Regia) Meas	1.20	0.068	0.070	0.93	6	11	33	0.17	< 20	6	< 2	< 10	246	30	14	31
OREAS 520 (Aqua Regia) Cert	1.14	0.0520	0.0740	1.03	1.97	11.8	36.0	0.135	8.03	0.33	0.0900	14.9	247	29.6	14.3	28.0
OREAS 218 Meas																
OREAS 218 Cert																
OREAS 218 Meas																
OREAS 218 Cert																
OREAS 218 Meas																
OREAS 218 Cert																
OREAS 218 Meas																
OREAS 218 Cert																
Oreas 621 (Aqua Regia) Meas	0.47	0.183	0.034	4.96	105	3	19		< 20		< 2	< 10	14	< 10	9	50
Oreas 621 (Aqua Regia) Cert	0.436	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0
Oreas 221 (Fire Assay) Meas																
Oreas 221 (Fire Assay) Cert																
Oreas 221 (Fire Assay) Meas																
Oreas 221 (Fire Assay) Cert																
Oreas 221 (Fire Assay) Meas																
Oreas 221 (Fire Assay) Cert																
1123412 Orig																

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	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
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
1123412 Dup																
1123413 Orig	2.97	0.058	0.025	0.10	< 2	29	62	0.01	< 20	1	< 2	< 10	212	< 10	4	3
1123413 Dup	2.91	0.058	0.025	0.10	3	29	62	0.01	< 20	< 1	2	< 10	214	< 10	4	3
1123420 Orig																
1123420 Dup																
1123427 Orig	0.93	0.083	0.038	0.53	4	4	47	< 0.01	< 20	2	< 2	< 10	20	773	5	19
1123427 Dup	0.94	0.084	0.038	0.53	6	4	46	< 0.01	< 20	2	< 2	< 10	21	812	5	20
1123430 Orig																
1123430 Dup																
1123440 Orig	1.35	0.091	0.020	2.79	< 2	1	7	< 0.01	< 20	2	< 2	< 10	3	< 10	2	4
1123440 Dup	1.32	0.088	0.020	2.81	< 2	1	7	< 0.01	< 20	4	< 2	< 10	3	< 10	2	4
1123445 Orig																
1123445 Dup																
1123450 Orig	1.11	0.106	0.037	0.40	< 2	4	45	< 0.01	< 20	< 1	< 2	< 10	28	11	5	9
1123450 Split PREP DUP	1.14	0.106	0.038	0.41	< 2	5	48	< 0.01	< 20	< 1	< 2	< 10	30	25	5	11
1123453 Orig	1.73	0.132	0.046	0.16	< 2	6	57	< 0.01	< 20	2	< 2	< 10	33	< 10	6	4
1123453 Dup	1.75	0.137	0.045	0.16	< 2	6	57	< 0.01	< 20	< 1	< 2	< 10	34	< 10	7	6
1123454 Orig																
1123454 Dup																
1123465 Orig																
1123465 Dup																
1123476 Orig	2.49	0.223	0.029	0.37	3	14	59	< 0.01	< 20	< 1	< 2	< 10	75	< 10	3	8
1123476 Dup	2.45	0.218	0.029	0.37	< 2	14	59	< 0.01	< 20	< 1	< 2	< 10	74	< 10	3	8
1123479 Orig																
1123479 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	0.009	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank																
Method Blank																
Method Blank																
Method Blank																
Method Blank																
Method Blank																



Date Submitted: 04-Dec-18
Invoice No.: A18-18849
Invoice Date: 14-Dec-18
Your Reference: 2001-07

Benton Resources Inc.
684 Squier Street
Thunder Bay ON P7B 4A8
Canada

ATTN: Mike Stares

CERTIFICATE OF ANALYSIS

50 Rock samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-Tbay Au - Fire Assay AA (QOP Fire Assay Tbay)

Code 1E3-Tbay Aqua Regia ICP(AQUAGEO)

REPORT **A18-18849**

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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, somewhat stylized font.

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

Results

Activation Laboratories Ltd.

Report: A18-18849

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
1123351	28	0.2	< 0.5	123	1170	2	123	< 2	81	4.96	5	< 10	14	< 0.5	3	6.05	34	193	8.63	10	1	0.06	< 10
1123352	12	0.2	< 0.5	114	1160	3	112	< 2	74	3.43	18	< 10	35	< 0.5	3	5.98	36	167	7.96	< 10	2	0.29	< 10
1123353	39	0.5	< 0.5	133	1010	4	98	5	98	2.84	28	< 10	42	< 0.5	4	4.79	33	130	7.20	< 10	3	0.42	< 10
1123354	308	1.2	< 0.5	157	1090	9	82	13	63	1.67	14	< 10	22	< 0.5	5	4.62	34	87	6.47	< 10	3	0.27	< 10
1123355	259	0.9	< 0.5	128	1130	8	70	10	51	1.57	14	< 10	28	< 0.5	4	4.87	26	74	5.59	< 10	3	0.39	< 10
1123356	346	1.1	< 0.5	154	1060	8	85	14	62	2.21	15	< 10	29	< 0.5	3	4.55	32	109	6.57	< 10	1	0.47	< 10
1123357	162	0.6	< 0.5	164	1210	2	106	7	81	2.88	26	< 10	22	< 0.5	3	5.17	35	133	7.85	< 10	< 1	0.38	< 10
1123358	144	2.6	< 0.5	107	964	6	74	51	60	1.94	19	< 10	24	< 0.5	28	4.35	30	101	5.92	< 10	3	0.36	< 10
1123359	65	0.5	< 0.5	114	1120	4	89	7	69	2.39	34	< 10	21	< 0.5	3	4.99	32	110	6.81	< 10	3	0.36	< 10
1123360	187	0.9	< 0.5	136	968	6	67	19	57	1.77	17	< 10	22	< 0.5	4	4.35	28	88	5.83	< 10	3	0.34	< 10
1123361	102	1.3	< 0.5	150	874	6	61	26	48	1.16	26	< 10	22	< 0.5	8	4.25	25	74	4.90	< 10	1	0.29	< 10
1123362	115	0.5	< 0.5	60	621	5	27	7	40	1.29	22	< 10	51	< 0.5	3	3.55	15	49	3.54	< 10	< 1	0.40	25
1123363	165	0.4	< 0.5	52	481	5	20	7	34	1.13	23	< 10	35	< 0.5	< 2	2.65	12	32	2.96	< 10	< 1	0.31	30
1123364	422	7.5	< 0.5	80	742	8	46	134	38	1.18	21	< 10	24	< 0.5	42	3.62	24	75	4.35	< 10	< 1	0.32	< 10
1123365	193	0.4	< 0.5	100	999	4	73	6	62	2.10	30	< 10	21	< 0.5	< 2	4.83	27	84	5.95	< 10	3	0.36	< 10
1123366	133	0.6	< 0.5	69	967	6	78	7	65	1.94	26	< 10	22	< 0.5	3	4.57	31	100	5.96	< 10	2	0.34	< 10
1123367	112	0.4	< 0.5	69	753	9	45	7	35	1.26	19	< 10	21	< 0.5	2	3.80	19	73	3.65	< 10	< 1	0.33	< 10
1123368	141	0.5	< 0.5	91	840	6	63	10	57	1.84	22	< 10	25	< 0.5	4	4.20	25	89	5.38	< 10	< 1	0.39	< 10
1123369	397	0.9	0.6	75	919	8	74	19	70	2.09	26	< 10	21	< 0.5	5	4.33	30	97	6.21	< 10	2	0.34	< 10
1123370	986	0.9	< 0.5	5	146	< 1	103	90	35	0.21	4	< 10	23	< 0.5	< 2	0.17	6	25	2.88	< 10	< 1	0.04	< 10
1123371	< 5	< 0.2	< 0.5	4	16	< 1	8	< 2	< 2	0.02	< 2	< 10	11	< 0.5	< 2	0.04	< 1	16	0.06	< 10	< 1	< 0.01	< 10
1123372	268	1.5	< 0.5	132	880	9	70	36	66	2.09	23	< 10	29	< 0.5	5	4.23	26	92	5.61	< 10	2	0.46	< 10
1123373	483	1.2	< 0.5	69	781	6	73	28	67	1.91	24	< 10	24	< 0.5	4	3.64	24	79	5.09	< 10	< 1	0.33	< 10
1123374	545	1.9	< 0.5	100	932	6	80	44	61	1.99	27	< 10	26	< 0.5	19	4.27	28	90	5.75	< 10	1	0.38	< 10
1123375	208	1.1	< 0.5	115	806	5	67	23	65	1.85	36	< 10	23	< 0.5	6	3.83	26	82	5.56	< 10	2	0.34	< 10
1123376	419	20.2	< 0.5	174	892	6	65	440	64	1.76	38	< 10	20	< 0.5	57	4.23	30	87	6.02	< 10	1	0.30	< 10
1123377	292	4.2	< 0.5	83	770	6	65	92	60	1.72	43	< 10	22	< 0.5	22	3.66	28	92	5.31	< 10	4	0.30	< 10
1123378	86	0.5	< 0.5	71	706	7	45	11	52	1.44	22	< 10	23	< 0.5	2	3.34	18	62	4.11	< 10	< 1	0.31	< 10
1123379	392	4.8	< 0.5	91	890	9	80	112	69	2.08	34	< 10	26	< 0.5	15	4.07	28	110	5.69	< 10	1	0.38	< 10
1123380	123	2.9	< 0.5	76	939	8	81	82	68	2.14	50	< 10	26	< 0.5	24	4.47	30	82	6.01	< 10	1	0.41	< 10
1123381	384	1.6	< 0.5	94	995	5	90	36	73	2.46	56	< 10	29	< 0.5	7	4.86	33	111	6.59	< 10	2	0.48	< 10
1123382	231	2.0	0.5	151	994	4	95	48	82	2.59	54	< 10	28	< 0.5	7	4.75	32	132	6.80	< 10	2	0.42	< 10
1123383	256	7.7	< 0.5	89	717	3	49	202	63	1.78	35	< 10	30	< 0.5	25	3.39	23	73	4.69	< 10	3	0.36	< 10
1123384	56	0.7	< 0.5	61	479	4	25	16	54	1.69	17	< 10	36	< 0.5	3	2.42	14	36	3.36	< 10	< 1	0.40	18
1123385	406	1.3	< 0.5	93	862	7	75	26	71	2.05	44	< 10	29	< 0.5	3	4.11	28	102	5.82	< 10	2	0.41	< 10
1123386	64	0.8	< 0.5	108	796	11	52	20	56	1.69	34	< 10	30	< 0.5	3	4.06	23	80	4.74	< 10	< 1	0.42	< 10
1123387	161	1.1	< 0.5	102	701	7	38	22	57	1.70	31	< 10	31	< 0.5	11	3.27	20	51	4.57	< 10	3	0.39	11
1123388	320	0.9	< 0.5	75	703	6	40	14	48	1.57	34	< 10	32	< 0.5	5	3.60	20	51	4.48	< 10	< 1	0.40	11
1123389	2550	15.8	< 0.5	148	608	5	29	225	54	1.64	30	< 10	28	< 0.5	225	3.08	16	36	4.23	< 10	< 1	0.33	14
1123390	937	0.9	0.6	6	153	< 1	104	88	35	0.21	4	< 10	13	< 0.5	< 2	0.18	5	26	2.94	< 10	< 1	0.04	< 10
1123391	< 5	< 0.2	< 0.5	< 1	5	< 1	8	< 2	< 2	0.02	< 2	< 10	10	< 0.5	< 2	0.04	< 1	16	0.05	< 10	< 1	< 0.01	< 10
1123392	229	3.7	< 0.5	67	559	9	36	82	46	1.26	35	< 10	26	< 0.5	70	2.93	18	44	3.74	< 10	< 1	0.29	< 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
1123393	214	0.6	< 0.5	54	554	7	31	19	51	1.70	21	< 10	39	< 0.5	15	2.82	18	45	4.06	< 10	< 1	0.33	21
1123394	29	0.9	< 0.5	104	702	4	38	15	69	2.09	19	< 10	23	< 0.5	9	2.64	21	73	5.03	< 10	< 1	0.16	12
1123395	8	< 0.2	< 0.5	36	1160	4	66	< 2	70	2.45	51	< 10	22	< 0.5	< 2	4.57	28	101	5.96	< 10	2	0.13	< 10
1123396	6	0.3	< 0.5	52	1180	5	81	< 2	47	1.66	98	< 10	27	< 0.5	< 2	5.75	37	95	4.95	< 10	3	0.18	< 10
1123397	7	0.3	< 0.5	157	884	5	64	< 2	65	2.68	15	< 10	30	< 0.5	< 2	3.28	27	91	5.31	< 10	< 1	0.12	13
1123398	< 5	< 0.2	< 0.5	12	718	1	48	< 2	63	1.98	2	< 10	35	< 0.5	< 2	2.68	14	61	3.98	< 10	< 1	0.13	20
1123399	< 5	< 0.2	< 0.5	17	666	2	48	< 2	56	2.25	< 2	< 10	67	< 0.5	< 2	2.87	14	55	3.94	< 10	< 1	0.26	20
1123400	< 5	< 0.2	< 0.5	24	709	3	46	< 2	51	2.12	3	< 10	91	< 0.5	< 2	2.90	14	59	3.50	< 10	< 1	0.30	22

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	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
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
1123351	4.09	0.041	0.027	0.14	4	26	48	< 0.01	< 20	< 1	< 2	< 10	203	< 10	4	3
1123352	3.80	0.133	0.026	0.42	2	17	52	< 0.01	< 20	< 1	< 2	< 10	116	< 10	4	3
1123353	3.32	0.067	0.024	0.97	3	14	50	< 0.01	< 20	< 1	< 2	< 10	80	15	4	4
1123354	2.87	0.038	0.023	2.24	3	10	60	< 0.01	< 20	< 1	< 2	< 10	41	20	4	4
1123355	2.63	0.046	0.024	1.98	< 2	11	66	< 0.01	< 20	< 1	3	< 10	43	56	4	5
1123356	2.90	0.048	0.025	2.37	3	12	63	< 0.01	< 20	< 1	< 2	< 10	59	94	4	5
1123357	3.71	0.041	0.028	1.05	3	16	65	< 0.01	< 20	< 1	< 2	< 10	87	30	5	4
1123358	2.77	0.044	0.022	1.64	< 2	11	61	< 0.01	< 20	2	< 2	< 10	51	< 10	4	6
1123359	3.27	0.040	0.028	0.92	3	13	66	< 0.01	< 20	2	< 2	< 10	69	< 10	4	5
1123360	2.59	0.040	0.029	1.67	2	11	66	< 0.01	< 20	3	< 2	< 10	52	21	4	6
1123361	2.17	0.037	0.021	1.64	2	9	66	< 0.01	< 20	< 1	< 2	< 10	32	59	3	5
1123362	1.56	0.075	0.081	0.57	< 2	6	56	< 0.01	< 20	2	< 2	< 10	28	< 10	7	6
1123363	1.25	0.070	0.085	0.47	< 2	4	42	< 0.01	< 20	3	< 2	< 10	21	< 10	8	5
1123364	1.79	0.041	0.038	1.51	2	7	54	< 0.01	< 20	5	2	< 10	33	< 10	4	10
1123365	2.84	0.045	0.037	0.83	< 2	11	64	< 0.01	< 20	3	< 2	< 10	56	< 10	6	8
1123366	2.77	0.043	0.023	1.26	2	11	60	< 0.01	< 20	< 1	< 2	< 10	58	< 10	4	5
1123367	1.92	0.046	0.047	0.71	2	7	48	< 0.01	< 20	< 1	2	< 10	31	41	5	11
1123368	2.52	0.048	0.039	1.39	< 2	10	58	< 0.01	< 20	2	< 2	< 10	46	628	6	5
1123369	2.82	0.041	0.030	1.40	2	11	57	< 0.01	< 20	4	< 2	< 10	59	< 10	4	6
1123370	1.32	0.088	0.021	2.85	< 2	1	7	< 0.01	< 20	< 1	< 2	< 10	3	< 10	2	5
1123371	< 0.01	0.017	< 0.001	< 0.01	< 2	< 1	2	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
1123372	2.67	0.052	0.046	1.48	2	11	61	< 0.01	< 20	< 1	< 2	< 10	55	< 10	5	10
1123373	2.50	0.052	0.033	1.21	< 2	9	57	< 0.01	< 20	3	< 2	< 10	48	< 10	4	12
1123374	2.77	0.048	0.033	1.45	< 2	11	66	< 0.01	< 20	< 1	< 2	< 10	55	< 10	4	6
1123375	2.36	0.046	0.052	1.34	< 2	10	58	< 0.01	< 20	1	< 2	< 10	51	< 10	5	8
1123376	2.63	0.045	0.037	1.79	3	11	69	< 0.01	< 20	6	< 2	< 10	51	< 10	4	6
1123377	2.30	0.046	0.031	1.46	2	10	59	< 0.01	< 20	4	< 2	< 10	49	13	4	7
1123378	1.92	0.049	0.041	0.89	< 2	7	55	< 0.01	< 20	3	< 2	< 10	37	< 10	5	11
1123379	2.74	0.045	0.030	1.36	< 2	11	63	< 0.01	< 20	2	< 2	< 10	56	25	4	5
1123380	2.80	0.049	0.025	1.28	2	12	68	< 0.01	< 20	< 1	< 2	< 10	59	< 10	4	5
1123381	3.19	0.051	0.026	1.26	4	13	73	< 0.01	< 20	2	< 2	< 10	67	< 10	4	6
1123382	3.36	0.044	0.023	1.18	3	13	76	< 0.01	< 20	2	< 2	< 10	69	15	4	4
1123383	2.10	0.064	0.035	0.95	3	8	59	< 0.01	< 20	4	< 2	< 10	44	< 10	4	18
1123384	1.49	0.087	0.063	0.55	< 2	5	47	< 0.01	< 20	3	< 2	< 10	30	< 10	7	12
1123385	2.64	0.049	0.033	1.53	< 2	10	73	< 0.01	< 20	4	< 2	< 10	52	16	4	11
1123386	2.28	0.051	0.040	1.02	< 2	9	69	< 0.01	< 20	< 1	3	< 10	45	< 10	5	15
1123387	1.86	0.070	0.078	1.23	< 2	7	60	< 0.01	< 20	2	2	< 10	35	43	7	17
1123388	1.90	0.069	0.077	1.16	< 2	6	66	< 0.01	< 20	< 1	< 2	< 10	33	21	7	16
1123389	1.73	0.076	0.087	0.83	3	5	59	< 0.01	< 20	9	< 2	< 10	31	< 10	8	8
1123390	1.34	0.094	0.020	2.99	2	1	7	< 0.01	< 20	< 1	< 2	< 10	3	< 10	2	5
1123391	< 0.01	0.022	< 0.001	< 0.01	< 2	< 1	1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
1123392	1.54	0.061	0.059	1.04	< 2	5	58	< 0.01	< 20	4	< 2	< 10	29	< 10	6	18

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	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
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
1123393	1.65	0.072	0.092	0.86	2	6	56	0.01	< 20	2	< 2	< 10	37	< 10	8	8
1123394	1.83	0.090	0.101	0.65	< 2	8	41	< 0.01	< 20	3	< 2	< 10	43	< 10	7	8
1123395	2.85	0.160	0.076	0.22	2	16	58	< 0.01	< 20	1	< 2	< 10	75	69	5	9
1123396	2.72	0.204	0.067	0.11	3	20	71	< 0.01	< 20	< 1	< 2	< 10	83	118	3	4
1123397	2.51	0.191	0.104	0.34	< 2	12	49	< 0.01	< 20	< 1	< 2	< 10	69	14	6	9
1123398	1.97	0.150	0.047	0.08	< 2	7	36	< 0.01	< 20	1	< 2	< 10	41	< 10	8	8
1123399	2.06	0.172	0.047	0.06	< 2	6	42	< 0.01	< 20	< 1	< 2	< 10	37	< 10	8	10
1123400	1.94	0.176	0.041	0.08	< 2	7	39	< 0.01	< 20	1	< 2	< 10	37	< 10	9	9

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
OREAS 904 (Aqua Regia) Meas		0.4	< 0.5	5980	440	2	35	10	26	2.08	97		79	7.6	2	0.05	90	26	6.16	< 10		1.05	40
OREAS 904 (Aqua Regia) Cert		0.366	0.0580	6300	410	2.02	36.6	8.49	22.4	1.25	91.0		68.0	6.54	3.74	0.0404	82.0	17.5	6.40	3.40		0.603	33.9
OREAS 904 (Aqua Regia) Meas		0.3	< 0.5	6150	452	2	33	8	26	2.07	95		79	7.7	4	0.05	92	27	6.09	< 10		1.03	40
OREAS 904 (Aqua Regia) Cert		0.366	0.0580	6300	410	2.02	36.6	8.49	22.4	1.25	91.0		68.0	6.54	3.74	0.0404	82.0	17.5	6.40	3.40		0.603	33.9
OREAS 922 (AQUA REGIA) Meas		1.5	< 0.5	2110	739	< 1	32	54	266	2.96	5		84	0.8	7	0.40	16	46	4.91	< 10		0.54	36
OREAS 922 (AQUA REGIA) Cert		0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62		0.376	32.5
OREAS 922 (AQUA REGIA) Meas		1.1	< 0.5	2180	771	< 1	33	57	278	3.05	8		83	0.8	9	0.42	17	47	5.07	< 10		0.54	37
OREAS 922 (AQUA REGIA) Cert		0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62		0.376	32.5
OREAS 923 (AQUA REGIA) Meas		1.8	< 0.5	4350	885	< 1	32	75	363	3.12	7		67	0.7	18	0.42	20	43	6.01	< 10		0.47	35
OREAS 923 (AQUA REGIA) Cert		1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01		0.322	30.0
OREAS 923 (AQUA REGIA) Meas		1.8	< 0.5	4310	878	< 1	33	76	357	3.04	6		66	0.7	25	0.42	20	43	5.92	< 10		0.45	34
OREAS 923 (AQUA REGIA) Cert		1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01		0.322	30.0
OREAS 520 (Aqua Regia) Meas				2830	2030	56	69	< 2	21	1.58	150			0.6	4	3.49	170	34	15.9	10		0.54	67
OREAS 520 (Aqua Regia) Cert				2960	2280	62.0	73.0	5.22	20.7	1.56	152			0.540	2.90	3.84	196	37.4	15.74	13.7		0.506	83.0
OREAS 520 (Aqua Regia) Meas				2840	2060	56	71	3	23	1.58	141			0.6	2	3.51	172	34	15.8	10		0.53	66
OREAS 520 (Aqua Regia) Cert				2960	2280	62.0	73.0	5.22	20.7	1.56	152			0.540	2.90	3.84	196	37.4	15.74	13.7		0.506	83.0
OREAS 218 Meas	517																						
OREAS 218 Cert	531																						
OREAS 218 Meas	521																						
OREAS 218 Cert	531																						

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
Oreas 621 (Aqua Regia) Meas		67.9	295	3640	549	14	26	> 5000	> 10000	1.92	80			0.6	7	1.69	30	37	3.35	10	3	0.43	19
Oreas 621 (Aqua Regia) Cert		68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93	0.333	19.4
Oreas 621 (Aqua Regia) Meas		66.0	287	3490	539	14	25	> 5000	> 10000	1.85	78			0.6	10	1.68	30	33	3.26	10	3	0.41	20
Oreas 621 (Aqua Regia) Cert		68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93	0.333	19.4
Oreas 221 (Fire Assay) Meas	1030																						
Oreas 221 (Fire Assay) Cert	1060																						
Oreas 221 (Fire Assay) Meas	1040																						
Oreas 221 (Fire Assay) Cert	1060																						
1123358 Orig		2.5	< 0.5	107	969	6	74	52	60	1.94	19	< 10	24	< 0.5	29	4.38	30	101	5.93	< 10	4	0.36	< 10
1123358 Dup		2.6	< 0.5	107	959	6	74	51	59	1.94	19	< 10	24	< 0.5	27	4.32	30	101	5.91	< 10	1	0.36	< 10
1123360 Orig	157																						
1123360 Dup	217																						
1123372 Orig	305																						
1123372 Dup	231																						
1123380 Orig	135																						
1123380 Dup	111																						
1123388 Orig		0.9	< 0.5	75	691	6	40	14	48	1.56	34	< 10	32	< 0.5	5	3.58	20	51	4.44	< 10	< 1	0.40	11
1123388 Dup		0.8	< 0.5	75	715	6	40	14	49	1.57	34	< 10	31	< 0.5	5	3.62	20	52	4.52	< 10	< 1	0.40	11
1123395 Orig	9																						
1123395 Dup	7																						
1123400 Orig	< 5	< 0.2	< 0.5	24	709	3	46	< 2	51	2.12	3	< 10	91	< 0.5	< 2	2.90	14	59	3.50	< 10	< 1	0.30	22
1123400 Split PREP DUP	12	< 0.2	< 0.5	25	724	2	46	< 2	51	2.11	< 2	< 10	90	< 0.5	< 2	2.97	15	59	3.55	< 10	< 1	0.29	23
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		< 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		< 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																						

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	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
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
OREAS 904 (Aqua Regia) Meas	0.23		0.098	0.04	3	5	20		< 20		< 2	< 10	33		22	
OREAS 904 (Aqua Regia) Cert	0.143		0.0950	0.0340	0.780	3.83	16.5		7.56		0.150	5.20	21.7		17.2	
OREAS 904 (Aqua Regia) Meas	0.23		0.100	0.04	3	5	20		< 20		< 2	< 10	33		22	
OREAS 904 (Aqua Regia) Cert	0.143		0.0950	0.0340	0.780	3.83	16.5		7.56		0.150	5.20	21.7		17.2	
OREAS 922 (AQUA REGIA) Meas	1.42	0.039	0.061	0.35	< 2	4	16		< 20		< 2	< 10	34	< 10	22	25
OREAS 922 (AQUA REGIA) Cert	1.33	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3
OREAS 922 (AQUA REGIA) Meas	1.44	0.039	0.064	0.36	4	4	16		< 20		< 2	< 10	35	< 10	23	19
OREAS 922 (AQUA REGIA) Cert	1.33	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3
OREAS 923 (AQUA REGIA) Meas	1.56		0.061	0.65	< 2	4	15		< 20		< 2	< 10	34	< 10	21	30
OREAS 923 (AQUA REGIA) Cert	1.43		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5
OREAS 923 (AQUA REGIA) Meas	1.53		0.061	0.66	3	4	15		< 20		< 2	< 10	34	< 10	22	32
OREAS 923 (AQUA REGIA) Cert	1.43		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5
OREAS 520 (Aqua Regia) Meas	1.22	0.072	0.071	0.85	5	11	29	0.15	< 20	2	< 2	< 10	221	27	13	35
OREAS 520 (Aqua Regia) Cert	1.14	0.0520	0.0740	1.03	1.97	11.8	36.0	0.135	8.03	0.33	0.0900	14.9	247	29.6	14.3	28.0
OREAS 520 (Aqua Regia) Meas	1.22	0.069	0.071	0.86	6	11	28	0.15	< 20	2	< 2	< 10	222	28	14	35
OREAS 520 (Aqua Regia) Cert	1.14	0.0520	0.0740	1.03	1.97	11.8	36.0	0.135	8.03	0.33	0.0900	14.9	247	29.6	14.3	28.0
OREAS 218 Meas																
OREAS 218 Cert																
OREAS 218 Meas																
OREAS 218 Cert																

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	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
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
Oreas 621 (Aqua Regia) Meas	0.49	0.195	0.035	4.66	119	3	18		< 20		< 2	< 10	13	< 10	9	75
Oreas 621 (Aqua Regia) Cert	0.436	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0
Oreas 621 (Aqua Regia) Meas	0.47	0.192	0.033	4.46	115	3	18		< 20		< 2	< 10	13	< 10	9	75
Oreas 621 (Aqua Regia) Cert	0.436	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0
Oreas 221 (Fire Assay) Meas																
Oreas 221 (Fire Assay) Cert																
Oreas 221 (Fire Assay) Meas																
Oreas 221 (Fire Assay) Cert																
1123358 Orig	2.77	0.044	0.022	1.65	3	11	61	< 0.01	< 20	2	< 2	< 10	51	< 10	4	6
1123358 Dup	2.76	0.044	0.022	1.63	< 2	11	61	< 0.01	< 20	1	< 2	< 10	51	< 10	4	6
1123360 Orig																
1123360 Dup																
1123372 Orig																
1123372 Dup																
1123380 Orig																
1123380 Dup																
1123388 Orig	1.88	0.069	0.077	1.17	< 2	6	66	< 0.01	< 20	< 1	< 2	< 10	33	21	7	17
1123388 Dup	1.91	0.069	0.078	1.16	< 2	6	67	< 0.01	< 20	< 1	2	< 10	33	21	7	16
1123395 Orig																
1123395 Dup																
1123400 Orig	1.94	0.176	0.041	0.08	< 2	7	39	< 0.01	< 20	1	< 2	< 10	37	< 10	9	9
1123400 Split PREP DUP	1.99	0.177	0.043	0.09	< 2	6	39	< 0.01	< 20	3	< 2	< 10	37	< 10	9	12
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	0.015	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank																
Method Blank																
Method Blank	< 0.01	0.015	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank																



Date Submitted: 17-Dec-18
Invoice No.: A18-19205
Invoice Date: 25-Feb-19
Your Reference: 2001-07

Benton Resources Inc.
684 Squier Street
Thunder Bay ON P7B 4A8
Canada

ATTN: Mike Stares

CERTIFICATE OF ANALYSIS

59 Rock samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-Tbay Au - Fire Assay AA (QOP Fire Assay Tbay)

Code 1E3-Tbay Aqua Regia ICP(AQUAGEO)

REPORT **A18-19205**

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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.

We recommend reanalysis by fire assay Au, Pt, Pd Code 8 if values exceed upper limit.

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is stylized with a large, sweeping 'E' and 'M'.

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: 17-Dec-18
Invoice No.: A18-19205
Invoice Date: 25-Feb-19
Your Reference: 2001-07

Benton Resources Inc.
684 Squier Street
Thunder Bay ON P7B 4A8
Canada

ATTN: Mike Stares

CERTIFICATE OF ANALYSIS

59 Rock samples were submitted for analysis.

The following analytical package(s) were requested: Code 1C-Exp Fire Assay-ICP/MS

REPORT **A18-19205**

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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.

We recommend reanalysis by fire assay Au, Pt, Pd Code 8 if values exceed upper limit.

CERTIFIED BY:



Emmanuel Esemé, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
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Results

Activation Laboratories Ltd.

Report: A18-19205

Analyte Symbol	Au	Pd	Pt	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga
Unit Symbol	ppb	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	1	1	2	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
Method Code	FA-AA	FA-MS	FA-MS	FA-MS	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1123484	70				< 0.2	0.5	104	1720	< 1	352	2	62	1.49	434	< 10	37	< 0.5	< 2	6.99	62	143	6.65	< 10
1123485	210				< 0.2	< 0.5	101	1310	< 1	334	< 2	74	2.49	257	< 10	34	< 0.5	< 2	6.22	65	164	6.30	< 10
1123486	75				< 0.2	< 0.5	87	1190	< 1	193	< 2	95	1.68	146	< 10	21	< 0.5	< 2	6.61	47	96	5.82	< 10
1123487	39				< 0.2	< 0.5	89	1120	< 1	75	< 2	47	1.32	106	< 10	22	< 0.5	2	7.40	36	75	5.96	< 10
1123488	6				< 0.2	0.8	148	1280	< 1	113	< 2	74	1.70	24	< 10	12	< 0.5	< 2	6.25	38	74	6.99	< 10
1123489	130				< 0.2	< 0.5	145	1310	< 1	102	< 2	78	1.67	127	< 10	22	< 0.5	< 2	6.55	37	65	7.24	< 10
1123490	226				0.2	< 0.5	128	1430	< 1	54	5	97	0.98	291	< 10	34	< 0.5	< 2	5.64	22	15	5.43	< 10
1123491	372				< 0.2	< 0.5	163	908	< 1	50	3	97	1.25	170	< 10	29	< 0.5	< 2	5.38	27	35	5.43	< 10
1123492	10				< 0.2	< 0.5	137	1340	< 1	76	< 2	66	1.41	111	< 10	< 10	< 0.5	< 2	6.28	39	75	6.03	< 10
1123493	33				< 0.2	< 0.5	143	1190	< 1	73	< 2	70	1.85	67	< 10	13	< 0.5	< 2	5.97	37	103	6.06	< 10
1123494	86				< 0.2	< 0.5	172	1410	< 1	63	< 2	71	2.02	90	< 10	< 10	< 0.5	< 2	5.49	36	110	6.65	< 10
1123495	104				< 0.2	< 0.5	179	1470	< 1	67	< 2	75	2.07	103	< 10	< 10	< 0.5	< 2	6.31	39	109	6.78	< 10
1123496	30				< 0.2	< 0.5	172	1380	< 1	66	< 2	88	2.70	90	< 10	< 10	< 0.5	< 2	5.85	37	120	7.39	< 10
1123497	27				< 0.2	< 0.5	174	1640	< 1	65	< 2	58	1.41	132	< 10	10	< 0.5	< 2	6.51	36	72	6.05	< 10
1123498	111				< 0.2	< 0.5	167	1940	< 1	66	< 2	50	1.05	169	< 10	10	< 0.5	< 2	6.92	36	37	5.62	< 10
1123499	144				< 0.2	< 0.5	167	1630	< 1	68	< 2	61	1.21	168	< 10	< 10	< 0.5	< 2	6.57	38	60	6.15	< 10
1123500	77				< 0.2	< 0.5	171	1400	< 1	76	< 2	73	1.84	110	< 10	< 10	< 0.5	< 2	6.22	40	100	6.23	< 10
390401	64				< 0.2	< 0.5	147	1350	< 1	77	< 2	70	1.48	144	< 10	13	< 0.5	< 2	6.33	37	72	6.09	< 10
390402	80				< 0.2	< 0.5	166	1530	< 1	91	< 2	57	1.60	163	< 10	12	< 0.5	< 2	6.40	40	81	6.07	< 10
390403	9				< 0.2	< 0.5	177	1530	< 1	85	< 2	81	2.45	68	< 10	< 10	< 0.5	< 2	6.26	41	125	7.42	< 10
390404	958				0.8	< 0.5	5	145	< 1	120	101	40	0.21	3	< 10	< 10	< 0.5	3	0.18	5	27	3.16	< 10
390405	< 5				< 0.2	< 0.5	< 1	8	< 1	11	< 2	< 2	0.02	< 2	< 10	11	< 0.5	< 2	0.06	< 1	17	0.08	< 10
390406	118				< 0.2	< 0.5	162	1380	< 1	75	< 2	73	2.00	10	< 10	11	< 0.5	< 2	6.32	36	89	6.69	< 10
390407	5				< 0.2	< 0.5	93	1330	< 1	138	< 2	62	1.42	45	< 10	11	< 0.5	3	6.63	36	110	4.90	< 10
390408	< 5				< 0.2	< 0.5	87	1680	< 1	143	< 2	55	2.19	4	< 10	< 10	< 0.5	< 2	6.91	36	151	5.15	< 10
390409	< 5				< 0.2	< 0.5	94	1430	< 1	156	< 2	46	3.87	3	< 10	11	< 0.5	< 2	7.24	39	249	5.05	< 10
390410	< 5				< 0.2	< 0.5	78	1540	< 1	148	< 2	53	4.63	17	< 10	< 10	< 0.5	< 2	7.40	36	253	5.98	< 10
390411	< 5				< 0.2	< 0.5	82	1560	< 1	141	< 2	47	4.21	6	< 10	< 10	< 0.5	< 2	7.45	35	254	5.50	< 10
390412	9				< 0.2	< 0.5	99	1390	< 1	142	< 2	46	3.96	3	< 10	11	< 0.5	3	8.36	36	251	5.57	< 10
390413	5				< 0.2	< 0.5	80	1850	< 1	137	< 2	47	3.88	6	< 10	46	< 0.5	< 2	8.77	35	247	5.72	< 10
390414	< 5				< 0.2	< 0.5	108	1810	< 1	144	< 2	52	4.12	5	< 10	17	< 0.5	< 2	8.38	34	244	6.02	< 10
390415	5				< 0.2	< 0.5	85	2020	< 1	137	< 2	49	3.67	26	< 10	< 10	< 0.5	< 2	8.48	32	274	5.21	< 10
390416	< 5				< 0.2	< 0.5	93	1680	< 1	152	< 2	53	4.29	7	< 10	< 10	< 0.5	< 2	6.46	36	276	5.55	< 10
390417	< 5				< 0.2	< 0.5	79	1720	< 1	128	< 2	54	3.31	< 2	< 10	< 10	< 0.5	< 2	8.89	30	235	4.52	< 10
390418	6				< 0.2	< 0.5	110	1040	< 1	155	< 2	53	3.78	3	< 10	< 10	< 0.5	< 2	4.24	39	286	4.81	< 10
390419	< 5				< 0.2	< 0.5	106	893	< 1	128	< 2	46	3.58	2	< 10	< 10	< 0.5	< 2	3.60	32	255	4.40	< 10
390420	< 5				< 0.2	< 0.5	109	1360	< 1	185	< 2	73	3.60	16	< 10	< 10	< 0.5	2	4.94	46	337	5.27	< 10
390421	< 5				< 0.2	< 0.5	108	1480	2	159	< 2	215	3.42	33	< 10	15	< 0.5	< 2	5.83	39	310	9.33	< 10
390422	9				< 0.2	< 0.5	86	1580	< 1	139	< 2	56	4.57	44	< 10	14	< 0.5	< 2	6.89	34	262	5.94	< 10
390423	< 5				< 0.2	< 0.5	82	1970	< 1	136	< 2	53	4.48	51	< 10	14	< 0.5	< 2	8.99	33	241	5.66	< 10
390424	958				0.9	< 0.5	6	159	< 1	126	103	36	0.22	4	< 10	< 10	< 0.5	< 2	0.19	5	28	3.38	< 10
390425	< 5				< 0.2	< 0.5	< 1	6	< 1	11	< 2	< 2	0.02	< 2	< 10	< 10	< 0.5	< 2	0.05	< 1	17	0.06	< 10

Analyte Symbol	Au	Pd	Pt	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga
Unit Symbol	ppb	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	1	1	2	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
Method Code	FA-AA	FA-MS	FA-MS	FA-MS	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
390426	92				< 0.2	< 0.5	86	1510	< 1	142	< 2	49	4.53	65	< 10	16	< 0.5	< 2	7.64	34	240	5.49	< 10
390427		1	1	< 2	< 0.2	< 0.5	131	517	< 1	240	< 2	41	1.49	< 2	23	55	< 0.5	< 2	0.87	57	630	3.88	< 10
390428		1	< 1	< 2	< 0.2	< 0.5	84	1070	< 1	387	3	65	0.59	< 2	76	40	< 0.5	< 2	0.84	97	521	7.92	< 10
390429		< 1	< 1	< 2	< 0.2	< 0.5	132	1090	< 1	385	< 2	60	0.64	< 2	72	39	< 0.5	< 2	0.88	99	545	7.58	< 10
390430		< 1	< 1	2	< 0.2	< 0.5	84	972	< 1	388	2	57	0.58	< 2	114	39	< 0.5	< 2	0.92	101	536	7.87	< 10
390431		< 1	< 1	< 2	< 0.2	< 0.5	19	335	< 1	191	< 2	37	1.87	< 2	< 10	94	< 0.5	< 2	0.59	47	618	3.04	< 10
390432		< 1	< 1	3	< 0.2	< 0.5	22	363	< 1	194	< 2	34	1.65	< 2	14	90	< 0.5	3	0.65	49	522	3.28	< 10
390433		< 1	< 1	2	< 0.2	< 0.5	123	1090	< 1	391	< 2	64	0.58	< 2	76	39	< 0.5	< 2	0.98	99	513	7.75	< 10
390434		1320	449	114	1.5	< 0.5	3760	663	< 1	262	5	59	3.54	< 2	< 10	51	< 0.5	4	2.90	53	109	6.95	< 10
390435		< 1	< 1	< 2	< 0.2	< 0.5	3	6	< 1	10	< 2	< 2	0.02	< 2	< 10	10	< 0.5	< 2	0.05	< 1	16	0.06	< 10
390436		< 1	< 1	3	< 0.2	< 0.5	88	1110	< 1	391	2	64	0.62	< 2	76	40	< 0.5	< 2	1.15	98	568	7.94	< 10
390437		< 1	1	< 2	< 0.2	< 0.5	99	998	< 1	379	3	59	0.65	< 2	113	40	< 0.5	< 2	1.20	94	544	7.54	< 10
390438		1	< 1	2	< 0.2	< 0.5	112	1020	< 1	385	< 2	55	0.64	< 2	100	35	< 0.5	< 2	1.37	97	543	7.57	< 10
390439		1	< 1	2	< 0.2	0.7	89	891	< 1	366	< 2	57	0.59	< 2	138	36	< 0.5	< 2	1.22	89	487	6.93	< 10
390440		< 1	< 1	< 2	< 0.2	< 0.5	159	578	< 1	250	4	57	1.46	< 2	< 10	45	< 0.5	< 2	1.85	60	548	3.97	< 10
390441		< 1	< 1	< 2	< 0.2	< 0.5	2	653	< 1	76	5	76	2.59	< 2	< 10	114	1.0	< 2	0.79	24	327	3.99	< 10
390442		< 1	< 1	2	< 0.2	< 0.5	2	546	< 1	118	9	56	2.55	< 2	< 10	161	1.4	< 2	0.93	33	504	3.65	10

Results

Activation Laboratories Ltd.

Report: A18-19205

Analyte Symbol	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	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
1123484	< 1	0.23	< 10	3.04	0.178	0.024	0.54	4	18	91	< 0.01	< 20	< 1	< 2	< 10	57	< 10	3	3
1123485	2	0.17	< 10	3.50	0.276	0.019	0.59	3	22	74	< 0.01	< 20	< 1	< 2	< 10	81	< 10	3	4
1123486	< 1	0.09	< 10	3.47	0.233	0.016	0.33	4	21	66	< 0.01	< 20	< 1	< 2	< 10	59	< 10	3	3
1123487	< 1	0.10	< 10	3.12	0.288	0.016	0.35	2	19	70	< 0.01	< 20	< 1	< 2	< 10	44	< 10	2	3
1123488	2	0.08	< 10	2.61	0.202	0.019	0.05	3	24	32	< 0.01	< 20	< 1	< 2	< 10	82	< 10	2	2
1123489	4	0.18	< 10	2.70	0.184	0.018	0.43	3	22	54	< 0.01	< 20	< 1	< 2	< 10	72	< 10	3	2
1123490	< 1	0.25	< 10	1.81	0.143	0.036	0.69	3	9	47	< 0.01	< 20	< 1	< 2	< 10	25	< 10	6	3
1123491	< 1	0.15	< 10	2.07	0.175	0.022	0.88	4	16	39	< 0.01	< 20	< 1	< 2	< 10	48	< 10	4	11
1123492	2	0.04	< 10	2.74	0.230	0.021	0.15	3	28	30	< 0.01	< 20	1	< 2	< 10	81	< 10	4	2
1123493	1	0.06	< 10	2.68	0.227	0.024	0.19	4	27	26	< 0.01	< 20	< 1	< 2	< 10	102	< 10	3	4
1123494	2	0.04	< 10	3.11	0.221	0.023	0.24	3	28	25	< 0.01	< 20	< 1	< 2	< 10	117	< 10	4	2
1123495	1	0.04	< 10	2.95	0.218	0.021	0.20	4	29	25	< 0.01	< 20	< 1	< 2	< 10	116	< 10	4	2
1123496	2	0.04	< 10	3.25	0.239	0.022	0.18	3	30	23	< 0.01	< 20	< 1	< 2	< 10	143	< 10	3	2
1123497	2	0.04	< 10	2.73	0.292	0.022	0.54	< 2	28	27	< 0.01	< 20	< 1	< 2	< 10	72	< 10	3	2
1123498	< 1	0.04	< 10	2.70	0.302	0.023	0.48	3	27	29	< 0.01	< 20	< 1	< 2	< 10	53	< 10	4	2
1123499	1	0.03	< 10	2.68	0.251	0.022	0.61	3	27	30	< 0.01	< 20	< 1	< 2	< 10	65	< 10	3	2
1123500	< 1	0.04	< 10	2.84	0.260	0.020	0.14	3	28	29	< 0.01	< 20	< 1	< 2	< 10	99	< 10	4	2
390401	2	0.05	< 10	2.72	0.235	0.031	0.30	4	25	32	< 0.01	< 20	< 1	< 2	< 10	77	< 10	4	2
390402	< 1	0.06	< 10	2.98	0.251	0.018	0.44	< 2	27	32	< 0.01	< 20	< 1	< 2	< 10	84	< 10	4	2
390403	1	0.04	< 10	3.22	0.225	0.020	0.39	2	30	22	< 0.01	< 20	1	< 2	< 10	133	< 10	3	2
390404	< 1	0.04	< 10	1.21	0.091	0.020	2.88	2	1	7	< 0.01	< 20	< 1	< 2	< 10	3	< 10	2	4
390405	< 1	< 0.01	< 10	< 0.01	0.022	< 0.001	< 0.01	< 2	< 1	1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
390406	2	0.03	< 10	2.83	0.209	0.026	0.15	2	26	24	< 0.01	< 20	< 1	< 2	< 10	111	< 10	3	4
390407	< 1	0.04	< 10	3.08	0.233	0.011	0.24	3	22	20	< 0.01	< 20	< 1	< 2	< 10	56	< 10	2	1
390408	< 1	0.04	< 10	2.93	0.253	0.011	0.21	2	21	24	< 0.01	< 20	< 1	< 2	< 10	74	< 10	2	1
390409	1	0.03	< 10	2.87	0.194	0.012	0.09	3	24	26	< 0.01	< 20	< 1	< 2	< 10	116	< 10	1	1
390410	2	0.02	< 10	3.65	0.109	0.011	< 0.01	6	23	25	< 0.01	< 20	< 1	< 2	< 10	128	< 10	1	1
390411	1	0.02	< 10	3.30	0.117	0.011	0.03	4	22	28	< 0.01	< 20	< 1	< 2	< 10	120	< 10	1	1
390412	< 1	0.03	< 10	2.84	0.114	0.011	0.06	4	22	35	< 0.01	< 20	< 1	< 2	< 10	117	< 10	1	1
390413	< 1	0.03	< 10	2.59	0.128	0.011	0.09	3	21	36	< 0.01	< 20	< 1	< 2	< 10	118	< 10	2	1
390414	1	0.05	< 10	2.80	0.107	0.011	0.06	4	20	34	< 0.01	< 20	< 1	< 2	< 10	117	< 10	2	2
390415	< 1	< 0.01	< 10	3.35	0.041	0.012	0.13	< 2	21	23	0.14	< 20	< 1	< 2	< 10	142	< 10	6	2
390416	2	< 0.01	< 10	4.05	0.031	0.012	0.04	4	17	40	0.20	< 20	< 1	< 2	< 10	130	< 10	5	2
390417	< 1	< 0.01	< 10	2.86	0.036	0.010	0.10	4	12	48	0.18	< 20	< 1	< 2	< 10	98	< 10	4	3
390418	1	< 0.01	< 10	2.92	0.051	0.013	0.08	5	11	63	0.25	< 20	1	< 2	< 10	105	< 10	5	4
390419	< 1	< 0.01	< 10	2.52	0.042	0.012	0.04	4	11	61	0.23	< 20	< 1	< 2	< 10	90	< 10	5	5
390420	1	< 0.01	< 10	3.03	0.068	0.011	0.07	4	20	22	0.25	< 20	< 1	< 2	< 10	146	< 10	6	3
390421	1	0.03	< 10	2.71	0.066	0.011	0.31	6	20	15	0.17	< 20	< 1	< 2	< 10	145	< 10	7	3
390422	1	0.04	< 10	3.91	0.118	0.013	0.26	3	21	25	< 0.01	< 20	< 1	< 2	< 10	123	< 10	3	2
390423	< 1	0.04	< 10	3.72	0.128	0.012	0.09	< 2	20	30	< 0.01	< 20	< 1	< 2	< 10	119	< 10	4	1
390424	< 1	0.04	< 10	1.29	0.097	0.022	3.04	3	1	7	< 0.01	< 20	< 1	< 2	< 10	3	< 10	2	5
390425	< 1	< 0.01	< 10	< 0.01	0.020	< 0.001	0.01	< 2	< 1	1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1

Analyte Symbol	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	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
390426	1	0.05	< 10	3.83	0.128	0.014	0.11	3	21	33	< 0.01	< 20	< 1	< 2	< 10	115	< 10	3	1
390427	< 1	1.17	< 10	5.56	0.051	0.009	0.15	4	6	6	0.06	< 20	< 1	< 2	< 10	37	< 10	< 1	2
390428	< 1	0.14	< 10	10.3	0.080	0.015	0.10	5	7	20	0.04	< 20	< 1	< 2	< 10	37	< 10	1	4
390429	< 1	0.26	< 10	10.2	0.086	0.016	0.22	5	8	21	0.04	< 20	< 1	< 2	< 10	36	< 10	1	4
390430	< 1	0.13	< 10	10.6	0.088	0.016	0.12	4	8	24	0.04	< 20	< 1	< 2	< 10	38	< 10	1	4
390431	< 1	1.51	< 10	4.95	0.044	0.002	< 0.01	4	4	6	0.07	< 20	3	< 2	< 10	35	< 10	< 1	2
390432	< 1	1.46	< 10	5.07	0.044	0.005	0.03	3	5	9	0.07	< 20	< 1	< 2	< 10	38	< 10	< 1	2
390433	1	0.17	< 10	10.5	0.081	0.016	0.17	5	8	24	0.04	< 20	< 1	< 2	< 10	35	< 10	1	4
390434	2	0.17	17	1.80	0.671	0.161	0.79	4	4	269	0.21	< 20	4	< 2	< 10	222	< 10	7	7
390435	< 1	< 0.01	< 10	< 0.01	0.020	< 0.001	< 0.01	< 2	< 1	1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
390436	2	0.12	< 10	10.8	0.106	0.015	0.09	6	10	27	0.04	< 20	< 1	< 2	< 10	39	< 10	1	4
390437	< 1	0.23	< 10	10.3	0.078	0.016	0.15	4	9	29	0.04	< 20	< 1	< 2	< 10	37	< 10	1	4
390438	< 1	0.16	< 10	10.2	0.073	0.019	0.33	6	9	27	0.04	< 20	< 1	< 2	< 10	39	< 10	1	4
390439	1	0.19	< 10	9.43	0.074	0.015	0.25	4	8	25	0.04	< 20	< 1	< 2	< 10	35	< 10	1	4
390440	< 1	1.17	< 10	4.23	0.039	0.027	0.44	4	9	13	0.08	< 20	3	< 2	< 10	37	< 10	2	3
390441	< 1	1.54	< 10	5.10	0.097	0.084	< 0.01	2	9	16	0.15	< 20	3	< 2	< 10	45	< 10	10	9
390442	< 1	1.80	< 10	4.46	0.104	0.037	< 0.01	3	8	12	0.12	< 20	2	< 2	< 10	51	< 10	8	11

Analyte Symbol	Au	Pd	Pt	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga
Unit Symbol	ppb	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	1	1	2	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
Method Code	FA-AA	FA-MS	FA-MS	FA-MS	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
PK2 Meas		6170	5050	5140																			
PK2 Cert		5918	4749	4785																			
OREAS 904 (Aqua Regia) Meas					0.3	< 0.5	6510	481	1	32	9	27	2.10	95		83	8.0	< 2	0.05	97	27	6.75	< 10
OREAS 904 (Aqua Regia) Cert					0.366	0.0580	6300	410	2.02	36.6	8.49	22.4	1.25	91.0		68.0	6.54	3.74	0.0404	82.0	17.5	6.40	3.40
OREAS 904 (Aqua Regia) Meas					0.2	< 0.5	6400	445	2	36	10	25	1.99	96		77	7.8	8	0.06	95	26	6.46	< 10
OREAS 904 (Aqua Regia) Cert					0.366	0.0580	6300	410	2.02	36.6	8.49	22.4	1.25	91.0		68.0	6.54	3.74	0.0404	82.0	17.5	6.40	3.40
OREAS 922 (AQUA REGIA) Meas					0.7	< 0.5	2280	809	< 1	31	68	278	3.08	5		90	0.8	3	0.44	18	47	5.33	< 10
OREAS 922 (AQUA REGIA) Cert					0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62
OREAS 922 (AQUA REGIA) Meas					0.9	< 0.5	2390	788	< 1	37	72	266	3.09	2		87	0.8	11	0.45	19	49	5.58	< 10
OREAS 922 (AQUA REGIA) Cert					0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62
OREAS 923 (AQUA REGIA) Meas					1.8	0.5	4660	931	< 1	29	81	367	3.14	7		72	0.7	11	0.45	21	45	6.30	< 10
OREAS 923 (AQUA REGIA) Cert					1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01
OREAS 923 (AQUA REGIA) Meas					1.6	< 0.5	4570	897	< 1	33	87	349	3.07	6		59	0.7	23	0.45	20	44	6.27	< 10
OREAS 923 (AQUA REGIA) Cert					1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01
OREAS 520 (Aqua Regia) Meas							2940	2110	54	64	6	19	1.50	137			0.6	< 2	3.34	171	34	15.3	10
OREAS 520 (Aqua Regia) Cert							2960	2280	62.0	73.0	5.22	20.7	1.56	152			0.540	2.90	3.84	196	37.4	15.74	13.7
OREAS 520 (Aqua Regia) Meas							2860	2040	55	73	11	18	1.51	136			0.6	4	3.47	183	34	15.6	10
OREAS 520 (Aqua Regia) Cert							2960	2280	62.0	73.0	5.22	20.7	1.56	152			0.540	2.90	3.84	196	37.4	15.74	13.7
OREAS 214 Meas	2890																						
OREAS 214 Cert	3030																						

Analyte Symbol	Au	Pd	Pt	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga
Unit Symbol	ppb	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	1	1	2	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
Method Code	FA-AA	FA-MS	FA-MS	FA-MS	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 214 Meas	2960																						
OREAS 214 Cert	3030																						
OREAS 218 Meas	527																						
OREAS 218 Cert	531																						
OREAS 218 Meas	522																						
OREAS 218 Cert	531																						
Oreas 621 (Aqua Regia) Meas					67.0	302	3800	557	14	24	> 5000	> 10000	1.84	78			0.6	< 2	1.66	29	31	3.55	10
Oreas 621 (Aqua Regia) Cert					68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29
Oreas 621 (Aqua Regia) Meas					69.3	284	3700	559	15	28	> 5000	> 10000	1.87	78			0.6	10	1.47	32	33	3.63	10
Oreas 621 (Aqua Regia) Cert					68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29
1123496 Orig	35				< 0.2	< 0.5	170	1360	< 1	65	< 2	88	2.67	88	< 10	< 10	< 0.5	< 2	5.79	36	118	7.31	< 10
1123496 Dup	25				< 0.2	< 0.5	174	1390	< 1	67	< 2	89	2.73	92	< 10	10	< 0.5	< 2	5.91	37	123	7.47	< 10
390405 Orig	< 5																						
390405 Dup	< 5																						
390410 Orig					< 0.2	< 0.5	80	1530	< 1	146	< 2	54	4.59	19	< 10	< 10	< 0.5	2	7.36	35	251	5.91	< 10
390410 Dup					< 0.2	< 0.5	75	1550	< 1	149	< 2	52	4.67	15	< 10	< 10	< 0.5	< 2	7.44	36	254	6.05	< 10
390414 Orig	< 5																						
390414 Dup	< 5																						
390424 Orig					0.9	< 0.5	6	159	< 1	127	102	35	0.22	4	< 10	< 10	< 0.5	< 2	0.19	5	28	3.34	< 10
390424 Dup					0.9	< 0.5	6	159	< 1	125	103	37	0.22	4	< 10	< 10	< 0.5	< 2	0.19	5	28	3.42	< 10
390433 Orig		< 1	< 1	2	< 0.2	< 0.5	123	1090	< 1	391	< 2	64	0.58	< 2	76	39	< 0.5	< 2	0.98	99	513	7.75	< 10
390433 Split PREP DUP		< 1	< 1	2	< 0.2	< 0.5	120	1070	< 1	378	< 2	59	0.57	< 2	71	39	< 0.5	< 2	0.96	98	504	7.58	< 10
390433 Orig		< 1	< 1	2																			
390433 Split PREP DUP		< 1	< 1	2																			
390436 Orig		< 1	< 1	3																			
390436 Dup		< 1	< 1	2																			
390436 Orig		< 1	< 1	3																			
390436 Dup		< 1	< 1	3																			
390437 Orig					< 0.2	< 0.5	99	993	< 1	378	3	59	0.65	< 2	113	39	< 0.5	< 2	1.20	93	542	7.58	< 10
390437 Dup					< 0.2	< 0.5	99	1000	< 1	380	3	59	0.65	< 2	113	40	< 0.5	< 2	1.20	95	547	7.50	< 10
Method Blank					< 0.2	< 0.5	2	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	0.01	< 1	< 1	< 0.01	< 10
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank		< 1	< 1	< 2																			
Method Blank		< 1	< 1	< 2																			

Analyte Symbol	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	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
PK2 Meas																			
PK2 Cert																			
OREAS 904 (Aqua Regia) Meas		1.03	41	0.23		0.103	0.04	4	5	21		< 20		< 2	< 10	37		21	
OREAS 904 (Aqua Regia) Cert		0.603	33.9	0.143		0.0950	0.0340	0.780	3.83	16.5		7.56		0.150	5.20	21.7		17.2	
OREAS 904 (Aqua Regia) Meas		0.93	40	0.21		0.098	0.04	4	5	20		< 20		< 2	< 10	35		19	
OREAS 904 (Aqua Regia) Cert		0.603	33.9	0.143		0.0950	0.0340	0.780	3.83	16.5		7.56		0.150	5.20	21.7		17.2	
OREAS 922 (AQUA REGIA) Meas		0.55	38	1.45	0.037	0.066	0.36	3	4	17		< 20		< 2	< 10	40	< 10	24	29
OREAS 922 (AQUA REGIA) Cert		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3
OREAS 922 (AQUA REGIA) Meas		0.53	39	1.37	0.038	0.065	0.38	3	4	17		< 20		< 2	< 10	40	< 10	23	17
OREAS 922 (AQUA REGIA) Cert		0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3
OREAS 923 (AQUA REGIA) Meas		0.47	36	1.57		0.064	0.68	< 2	4	15		< 20		< 2	< 10	39	< 10	22	34
OREAS 923 (AQUA REGIA) Cert		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5
OREAS 923 (AQUA REGIA) Meas		0.45	36	1.46		0.062	0.69	3	4	16		< 20		< 2	< 10	39	< 10	21	30
OREAS 923 (AQUA REGIA) Cert		0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5
OREAS 520 (Aqua Regia) Meas		0.51	68	1.18	0.075	0.068	0.83	7	11	30	0.15	< 20	< 1	< 2	< 10	245	26	13	35
OREAS 520 (Aqua Regia) Cert		0.506	83.0	1.14	0.0520	0.0740	1.03	1.97	11.8	36.0	0.135	8.03	0.33	0.0900	14.9	247	29.6	14.3	28.0
OREAS 520 (Aqua Regia) Meas		0.48	70	1.07	0.071	0.069	0.88	5	11	31	0.16	< 20	< 1	< 2	< 10	235	24	13	38
OREAS 520 (Aqua Regia) Cert		0.506	83.0	1.14	0.0520	0.0740	1.03	1.97	11.8	36.0	0.135	8.03	0.33	0.0900	14.9	247	29.6	14.3	28.0
OREAS 214 Meas																			
OREAS 214 Cert																			

Analyte Symbol	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	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
OREAS 214 Meas																			
OREAS 214 Cert																			
OREAS 218 Meas																			
OREAS 218 Cert																			
OREAS 218 Meas																			
OREAS 218 Cert																			
Oreas 621 (Aqua Regia) Meas	4	0.41	19	0.48	0.205	0.034	4.52	132	2	18		< 20		< 2	< 10	14	< 10	8	69
Oreas 621 (Aqua Regia) Cert	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0
Oreas 621 (Aqua Regia) Meas	3	0.40	19	0.46	0.201	0.034	4.44	117	3	18		< 20		< 2	< 10	14	< 10	8	62
Oreas 621 (Aqua Regia) Cert	3.93	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0
1123496 Orig	2	0.04	< 10	3.23	0.236	0.021	0.18	3	29	22	< 0.01	< 20	< 1	< 2	< 10	140	< 10	3	2
1123496 Dup	2	0.04	< 10	3.26	0.242	0.022	0.18	3	31	24	< 0.01	< 20	< 1	< 2	< 10	145	< 10	3	2
390405 Orig																			
390405 Dup																			
390410 Orig	2	0.02	< 10	3.60	0.108	0.012	0.01	6	23	26	< 0.01	< 20	< 1	< 2	< 10	127	< 10	1	1
390410 Dup	2	0.02	< 10	3.70	0.110	0.011	< 0.01	5	23	25	< 0.01	< 20	< 1	< 2	< 10	128	< 10	1	1
390414 Orig																			
390414 Dup																			
390424 Orig	< 1	0.04	< 10	1.29	0.097	0.021	3.02	3	1	7	< 0.01	< 20	< 1	< 2	< 10	3	< 10	2	5
390424 Dup	< 1	0.04	< 10	1.29	0.097	0.022	3.07	3	1	7	< 0.01	< 20	2	< 2	< 10	3	< 10	2	5
390433 Orig	1	0.17	< 10	10.5	0.081	0.016	0.17	5	8	24	0.04	< 20	< 1	< 2	< 10	35	< 10	1	4
390433 Split PREP DUP	< 1	0.17	< 10	10.3	0.081	0.015	0.16	6	8	22	0.04	< 20	< 1	< 2	< 10	35	< 10	1	4
390433 Orig																			
390433 Split PREP DUP																			
390436 Orig																			
390436 Dup																			
390436 Orig																			
390436 Dup																			
390437 Orig	< 1	0.23	< 10	10.3	0.078	0.016	0.15	5	9	29	0.04	< 20	< 1	< 2	< 10	36	< 10	1	4
390437 Dup	3	0.23	< 10	10.2	0.078	0.015	0.15	4	8	29	0.04	< 20	< 1	< 2	< 10	37	< 10	1	4
Method Blank	< 1	< 0.01	< 10	< 0.01	0.015	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank																			
Method Blank																			
Method Blank																			
Method Blank																			
Method Blank																			

Appendix III – Maps and Sections

BENTON RESOURCES INC.

Bolton Bay
2018 Diamond Drill Hole Locations

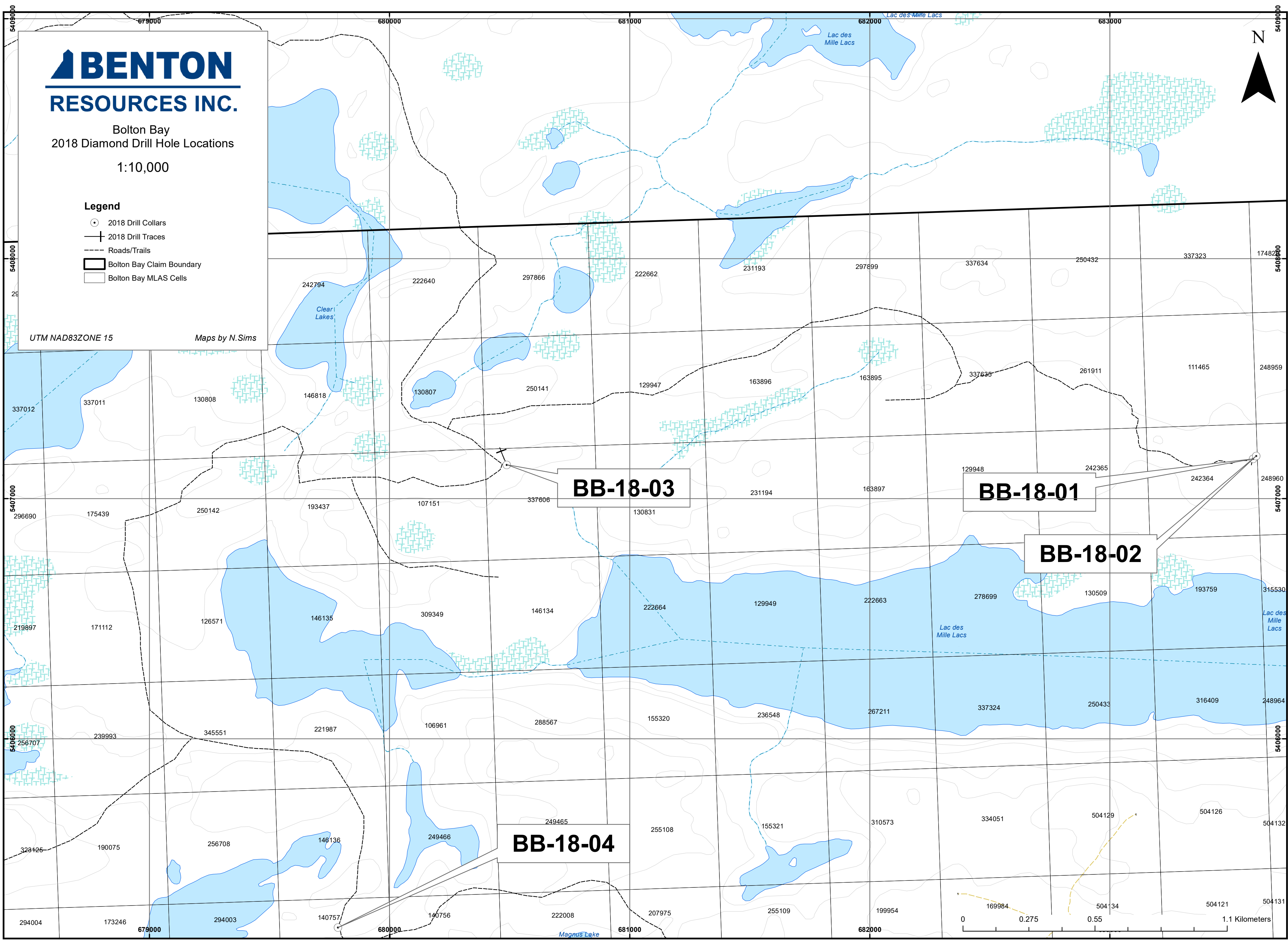
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Legend

- 2018 Drill Collars
- +— 2018 Drill Traces
- - - Roads/Trails
- ▭ Bolton Bay Claim Boundary
- ▭ Bolton Bay MLAS Cells

UTM NAD83ZONE 15

Maps by N.Sims

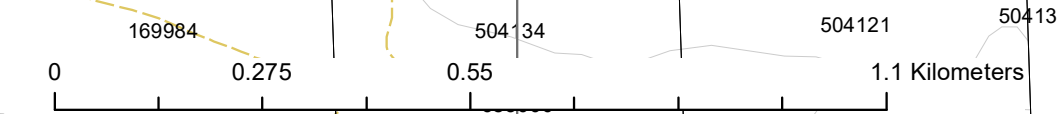


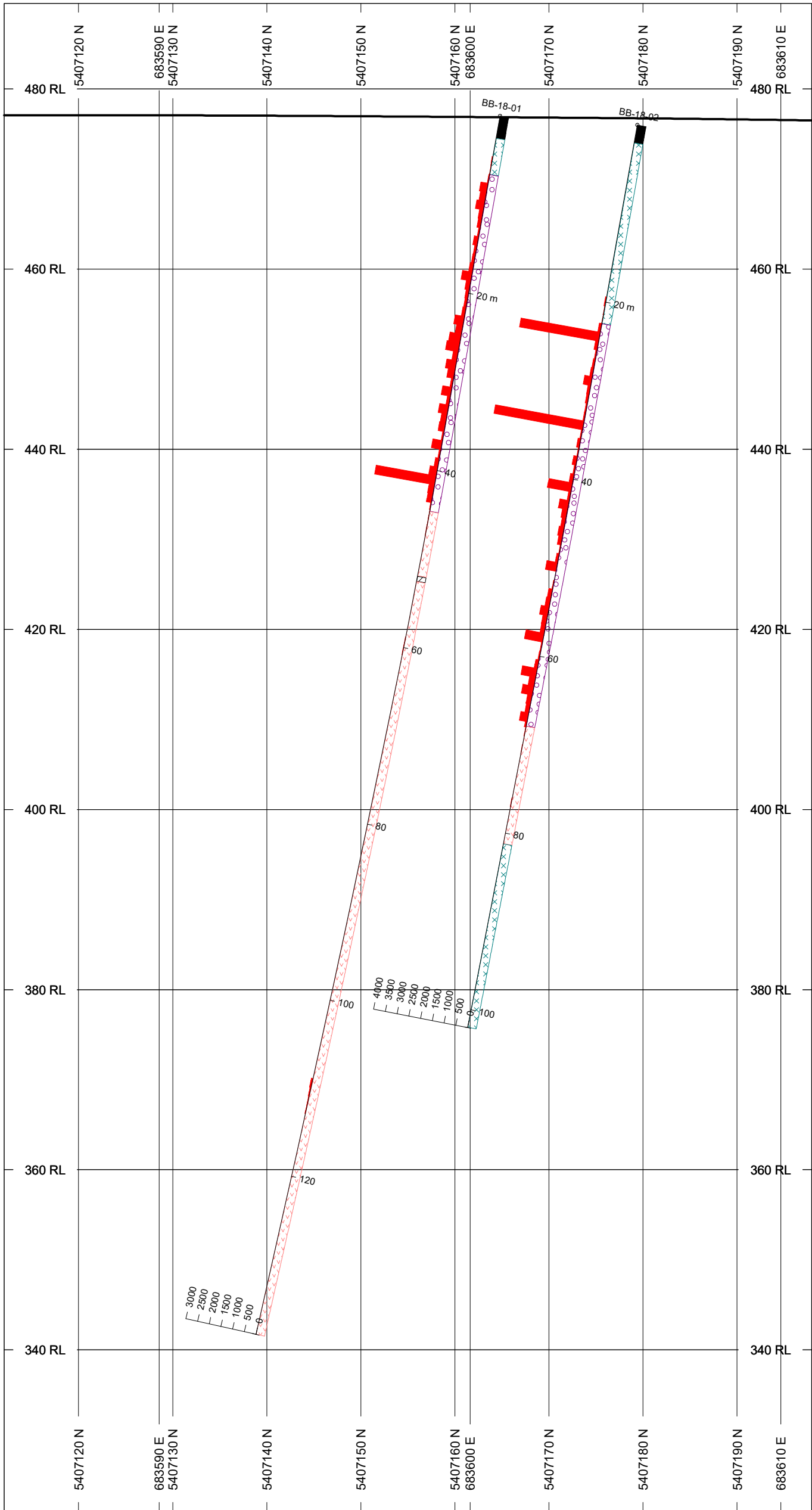
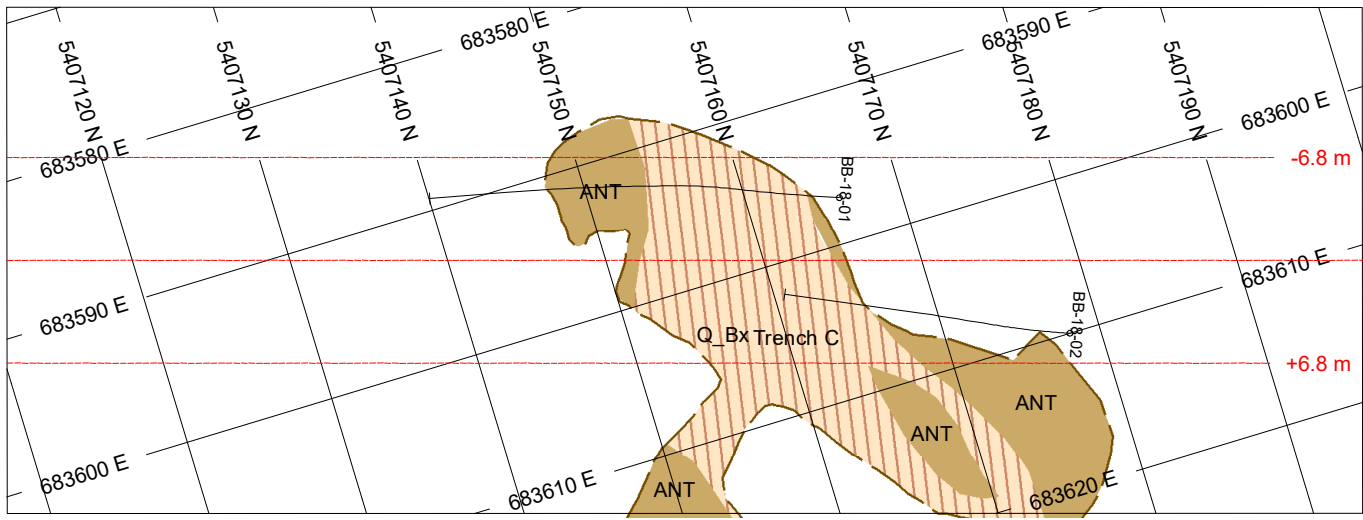
BB-18-03

BB-18-01

BB-18-02

BB-18-04





1:500



TOPOGRAPHY

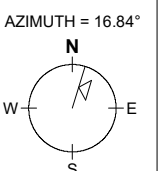
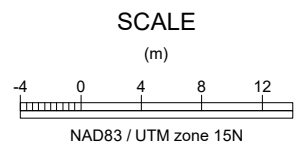
LNDEM83.GRD

BAR GRAPHS L/R COL
Au_ppb_ L [Red Box]

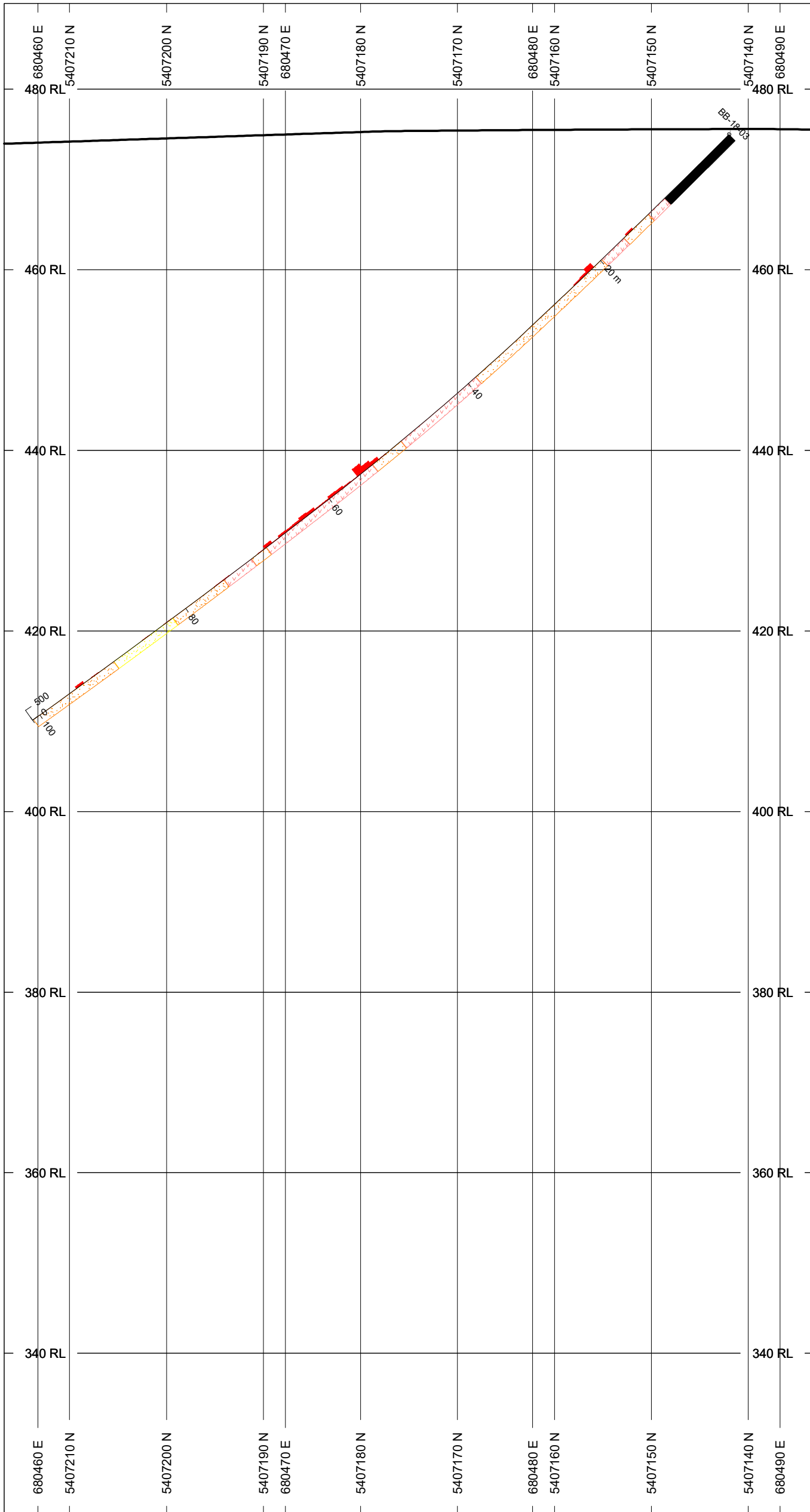
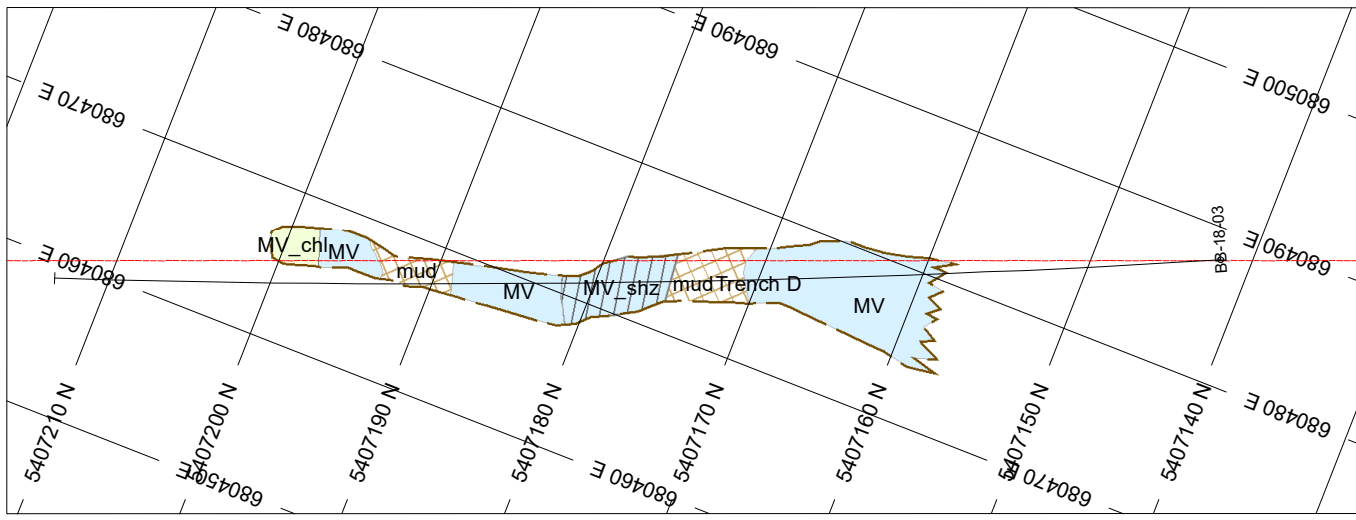
ROCK CODES Summary	PAT	LABEL	DESCRIPTION
	[GAB Pattern]	GAB	gabbro
	[IVOL Pattern]	IVOL	intermediate volcanic
	[QZBX Pattern]	QZBX	quartz breccia
	[Shear Zone Pattern]	Shear Zone	Shear Zone
	[Ovb Pattern]	Ovb	Overburden

SECTION SPECS:

REF. PT. E, N	683598 m	5407155 m
EXTENTS	89.7 m	167.4 m
SECTION TOP, BOT	489.5 m	322.1 m
TOLERANCE +/-	6.805 m	



Bolton Bay
2018 Drilling



1:500



TOPOGRAPHY

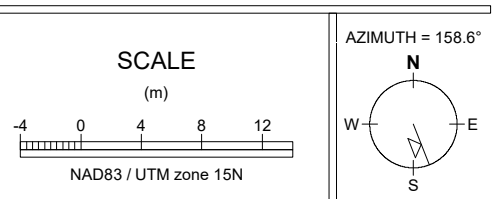
— LNDEM83.GRD

BAR GRAPHS L/R COL
Au_ppb_ L [Red Box]

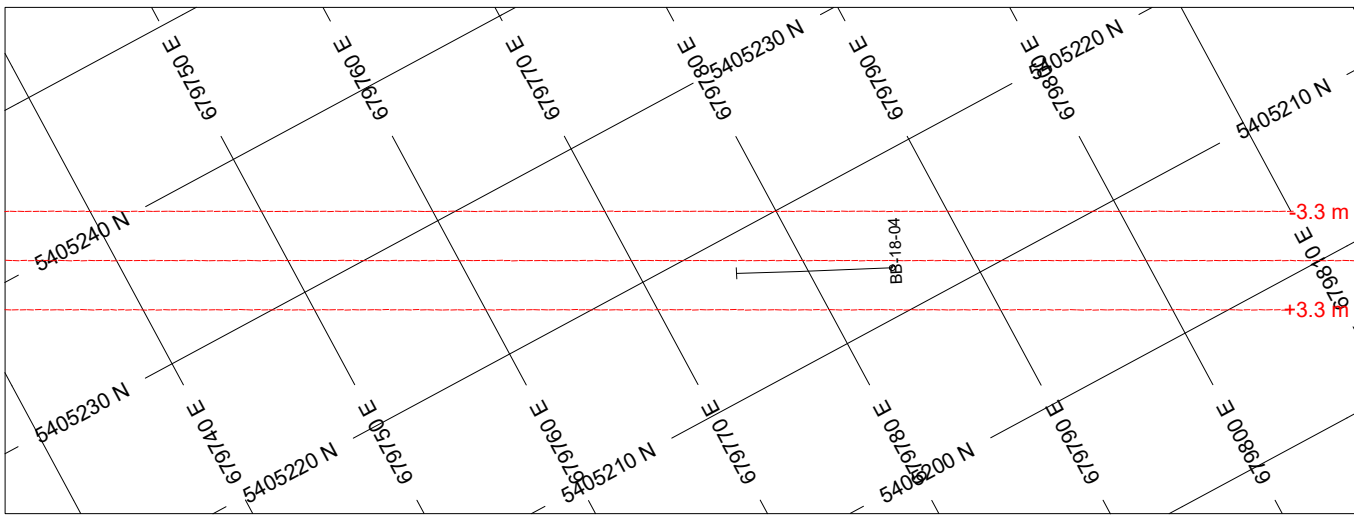
ROCK CODES	PAT	LABEL	DESCRIPTION
Summary	[Red Dotted Pattern]	IVOL	intermediate volcanic
	[Black Box]	Ovb	Overburden
	[Yellow Dotted Pattern]	Vt_fel	Felsic Tuff
	[Orange Dotted Pattern]	Vt_int	Intermediate Tuff

SECTION SPECS:

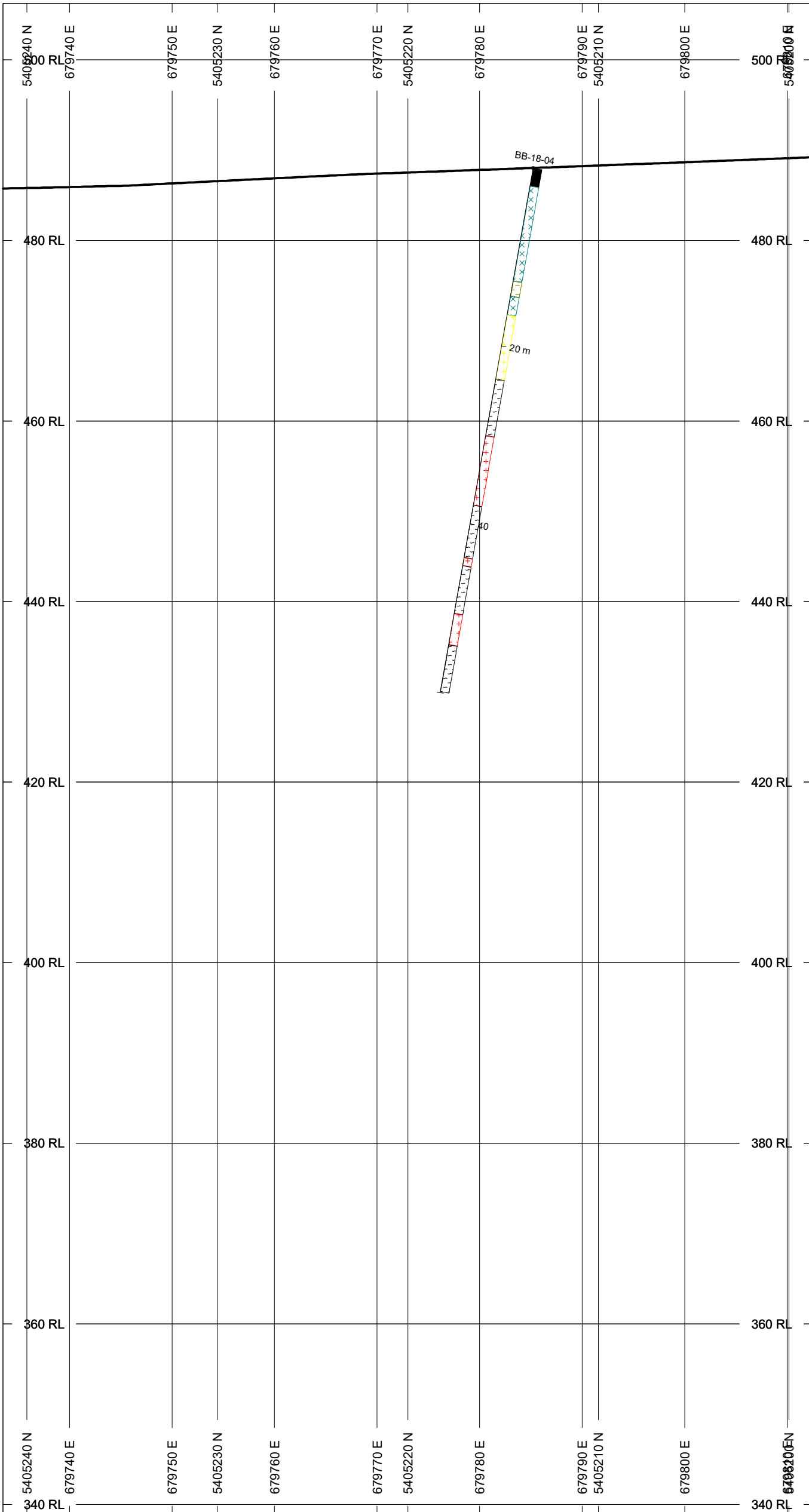
REF. PT. E, N	680475 m	5407175 m
EXTENTS	89.7 m	167.4 m
SECTION TOP, BOT	489.5 m	322.1 m
TOLERANCE +/-	19.92 m	



Bolton Bay
2018 Drilling



1:500



TOPOGRAPHY

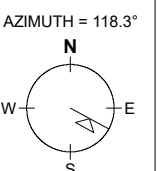
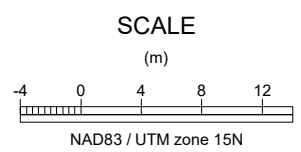
LNDEM83.GRD

BAR GRAPHS L/R COL
Au_ppb_ L

ROCK CODES Summary	PAT	LABEL	DESCRIPTION
	++++	FIRK	felsic intrusive
	xxxx	GAB	gabbro
	++++	GRD	granodiorite
	Ovb	Ovb	Overburden
	Sch_bio	Sch_bio	Biotite Schist
	Sch_ChIBio	Sch_ChIBio	Chlorite-Biotite Schist

SECTION SPECS:

REF. PT. E, N	679773 m	5405220 m
EXTENTS	89.7 m	167.4 m
SECTION TOP, BOT	506.2 m	338.8 m
TOLERANCE +/-	3.259 m	



Bolton Bay
2018 Drilling

Appendix IV – Bolton Bay MLAS Cells

Cell ID	Cell Type	Anniversary	Legacy Claim ID	Township
106311	Single Cell	2019-02-28	4280699	BOOT BAY
106961	Single Cell	2019-10-30	4280774	BOOT BAY
107151	Single Cell	2019-10-30	4280773	BOOT BAY
109484	Single Cell	2019-03-27	4282619	HENDERSON LAKE
109485	Single Cell	2019-03-27	4282619	HENDERSON LAKE
111465	Single Cell	2019-03-03	4242912	BOOT BAY ,HENDERSON LAKE
123398	Single Cell	2019-02-28	4280699	BOOT BAY
126571	Single Cell	2019-10-30	4272498	BOOT BAY
128760	Single Cell	2019-03-27	4282619	HENDERSON LAKE
129281	Single Cell	2019-10-30	4280695	BOOT BAY
129382	Single Cell	2019-04-05	4279372	BOOT BAY
129947	Single Cell	2019-10-30	4280772	BOOT BAY
129948	Single Cell	2019-10-30	4242912	BOOT BAY
129949	Single Cell	2019-10-30	4280695	BOOT BAY
130509	Single Cell	2019-03-03	4242912	BOOT BAY
130807	Single Cell	2019-10-30	4280773	BOOT BAY
130808	Single Cell	2019-10-30	4279372	BOOT BAY
130831	Single Cell	2019-10-30	4280772	BOOT BAY
134893	Single Cell	2019-02-28	4280699	BOOT BAY
134894	Boundary Cell	2019-02-28	4280699	BOOT BAY
140290	Single Cell	2019-03-27	4282619	HENDERSON LAKE
140756	Single Cell	2019-10-30	4280774	BOOT BAY
140757	Single Cell	2019-10-30	4280774	BOOT BAY
146134	Single Cell	2019-10-30	4280695	BOOT BAY
146135	Single Cell	2019-10-30	4280773	BOOT BAY
146136	Single Cell	2019-10-30	4280774	BOOT BAY
146148	Single Cell	2019-10-30	4280774	BOOT BAY
146260	Single Cell	2019-03-27	4282619	HENDERSON LAKE
146261	Single Cell	2019-03-27	4282619	HENDERSON LAKE
146262	Single Cell	2019-03-27	4282619	HENDERSON LAKE
146263	Single Cell	2019-03-27	4282619	HENDERSON LAKE
146817	Single Cell	2019-10-30	4279372	BOOT BAY
146818	Single Cell	2019-10-30	4280773	BOOT BAY
146869	Single Cell	2019-04-05	4279372	BOOT BAY
150852	Single Cell	2019-02-28	4280699	BOOT BAY
150853	Single Cell	2019-02-28	4280699	BOOT BAY
150854	Boundary Cell	2019-02-28	4280699	BOOT BAY
155128	Single Cell	2019-02-28	4272498	BOOT BAY
155320	Single Cell	2019-04-18	4280695	BOOT BAY
155321	Single Cell	2019-04-18	4280695	BOOT BAY
155322	Single Cell	2019-04-18	4280695	BOOT BAY
163895	Single Cell	2019-10-30	4280772	BOOT BAY
163896	Single Cell	2019-10-30	4280772	BOOT BAY
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169984	Single Cell	2019-04-18	4280695	BOOT BAY
171112	Single Cell	2019-04-05	4272498	BOOT BAY

171113	Single Cell	2019-02-28	4272498	BOOT BAY
171114	Single Cell	2018-11-18	4272498	BOOT BAY
173246	Single Cell	2018-11-18	4272498	BOOT BAY
173247	Single Cell	2019-02-28	4272498	BOOT BAY
173248	Single Cell	2019-10-30	4272498	BOOT BAY
174829	Single Cell	2019-03-27	4242912	HENDERSON LAKE
174830	Single Cell	2019-03-27	4282619	HENDERSON LAKE
175439	Single Cell	2019-04-05	4279372	BOOT BAY
180100	Boundary Cell	2019-02-28	4280699	BOOT BAY
180101	Single Cell	2019-02-28	4280699	BOOT BAY
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192804	Single Cell	2019-03-27	4282619	HENDERSON LAKE
193437	Single Cell	2019-10-30	4280773	BOOT BAY
193759	Single Cell	2019-03-03	4242912	BOOT BAY ,HENDERSON LAKE
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199954	Single Cell	2019-04-18	4280695	BOOT BAY
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239993	Single Cell	2018-11-18	4272498	BOOT BAY
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