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**Assessment Report: 2019 Drilling - Dixie Halo Property
Red Lake, Ontario.**

BTU Metals Corp.

TSX.V BTU

By: Douglas Hunter, P.Geo.
Project Consultant

Tel: 1 (705) 705-932-3130
Cell:1(705) 705-750-8735
dhunter@nexicom.net

Home office
581 Elgar Drive
Millbrook, Ontario, Canada
L0A 1G0

Corporate office
BTU Metals Corp.
1240-789 W. Pender Street
Vancouver, B.C. V6C 1H2

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1) Summary

During the period July 9 to September 9, 2019 an initial phase of diamond drilling was completed on the property of BTU Metals Corp. (BTU) in the Dixie Lake Area, Red Lake District. A total of 1954 meters of core drilling in 10 holes was completed and 995 samples of cut core were analyzed. The objective of the program was to test geophysical targets derived from airborne geophysics and from ground follow-up of these by IP surveying. The writer directed this work as VP Exploration of BTU and the drilling contractor was M3 Drilling from Hawkesbury, Ontario. The property is in UTM Zone 15N and all co-ordinates cited are in NAD 83.

The program has helped the company to understand the underlying geology in an area almost devoid of outcrop. The targets tested lie near the boundary of the property of Great Bear Resources (GBR) where a significant new gold development is occurring. Employing knowledge gained from the adjoining GBR property exploration results BTU targeted similar structures to those being drilled by that company; principally magnetic lows where the magnetic fabric is disrupted by zones of shearing.

A stratigraphic target that is believed to extend onto the property of BTU from that of the GBR ground has also seen a preliminary drill test. This is the LP Fault Zone of GBR, which is a newly recognized important gold target. The next stage of drilling is planned to follow-up drill additional IP targets and to drill test further the LP Zone stratigraphy.

2) Introduction

The Herbert portion of the BTU Metals Corp. (BTU) "Dixie Halo Project", known as the South Property is located in the Red Lake Mining Camp of northwestern Ontario and is centered at coordinates 456,000 m E and 5,629,000 m N, UTM Zone 15N. The site appears on NTS map sheet 52K/13. Exploration permits PR-18-000294 and PR-18-000295 were granted to the company on April 11, 2019. The Property is comprised of 363 unpatented, single cell, mining claims located in the Red Lake Area of Ontario, Canada, covering 6,740 hectares in a single contiguous block, comprised of 2 separate properties. Claim renewal anniversaries range from November 10, 2019 through October 11, 2020. Mining claims for which assessment credits are being applied, are currently held by Larry Kenneth Herbert (100%) and Nathan Herbert (100%). BTU has unrestricted access to their claims to perform exploration work or any other works required to investigate the land. In order to maintain the claims, \$134,800 worth of work must be applied to the Property between November 10, 2019 and August 01,

2020. There is currently \$51,871 reserve on the Property, which can be applied to annual work requirements."

3) Location, Access and Physiography

The Property is located in the Red Lake Area of Ontario, Canada. The nearest major population center is the town of Red Lake, with 4,100 inhabitants, located approximately 17 km north of the property by Provincial Highway 105. The property can be accessed year-round. Exploration can be conducted all year, while snow cover restricts surface exposure for mapping from mid-October through May.

Highway #105 passes about 5 km along the north side of the property, from which the Dixie Lake Road, an unpaved but well maintained gravel road, 50 km in length, can be accessed at two points from the highway and encircles the property, terminating again at the highway. Several secondary roads and logging trails branch off from Dixie Lake Road providing good access to most of the property.

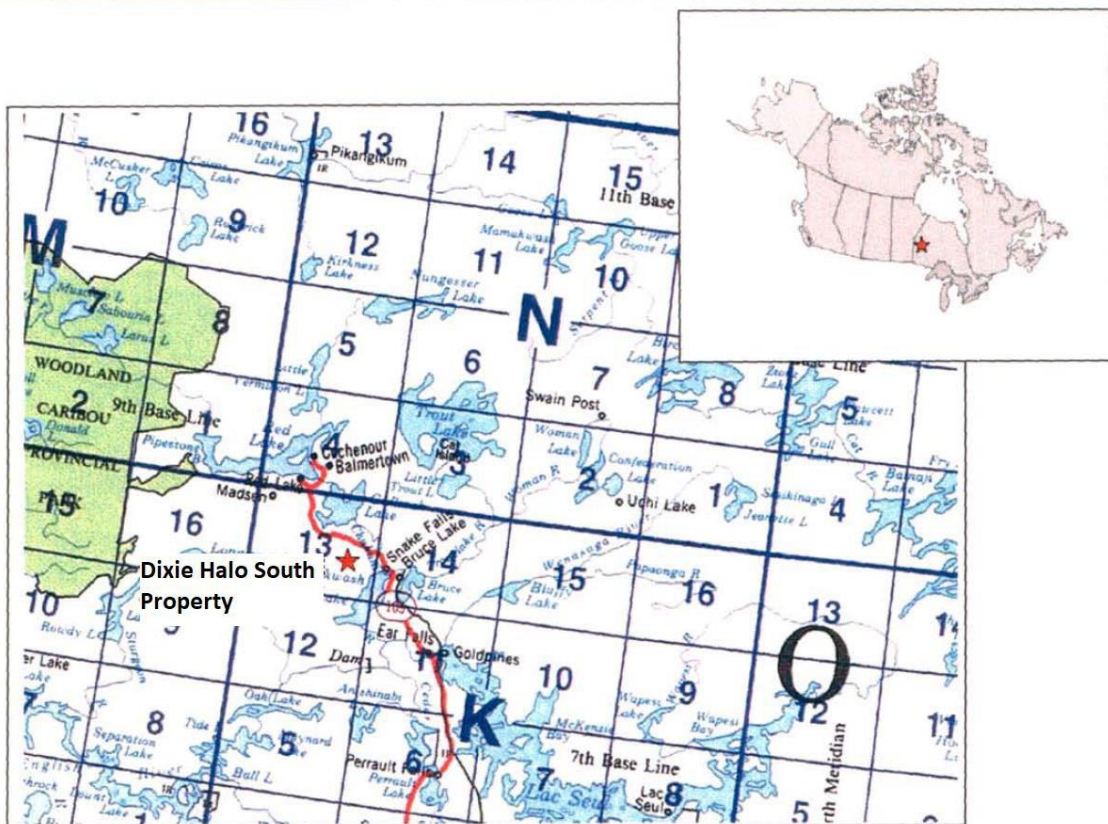


Figure 1: Dixie Halo South Property Location Map

The property area is covered by mature boreal forest consisting of mostly black spruce and lesser stands of poplar, birch, jackpine, and balsam. Large areas on the property have been deforested over the years and have been replanted with spruce and pine. The topography of the area is characteristic of the southern part of the Canadian Shield with low rolling hills and intervening lowlands with lakes, muskeg and marsh. Relief on the property is subdued with elevations ranging from 350 to 400 m.

There is very little outcrop and large areas of the property are devoid of it. What exposures there are, are the result of prospecting and local excavations, outcrop stripping and washing operations. The area is extensively covered with thick glacial outwash gravel deposits (up to 10m thick) as witnessed by active gravel pit operations. Other areas of the property, such as around Dixie Creek, are covered by thick deposits of clay. This meandering waterway flows through a broad lowland; likely a flood plain dating from glacial times.

4) Summary of work applied to claims

Figure 2: Key Map Dixie South Part of Property

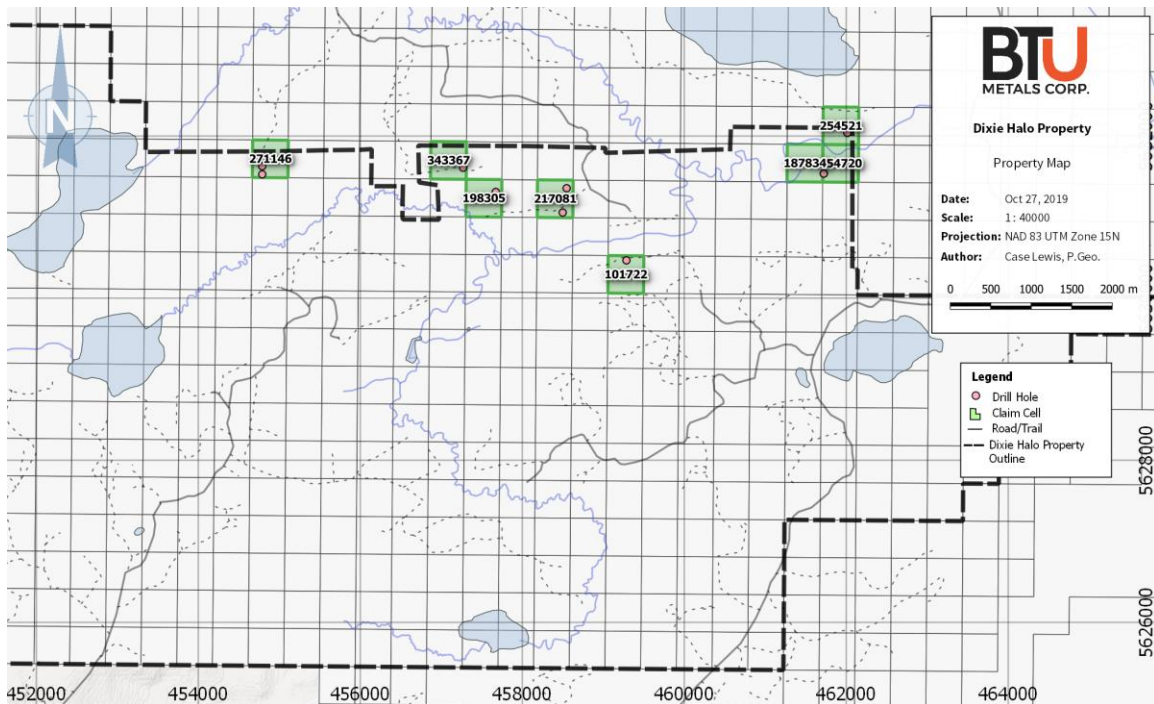


Figure 2: Location for Area of Claim Cells where drilling was performed

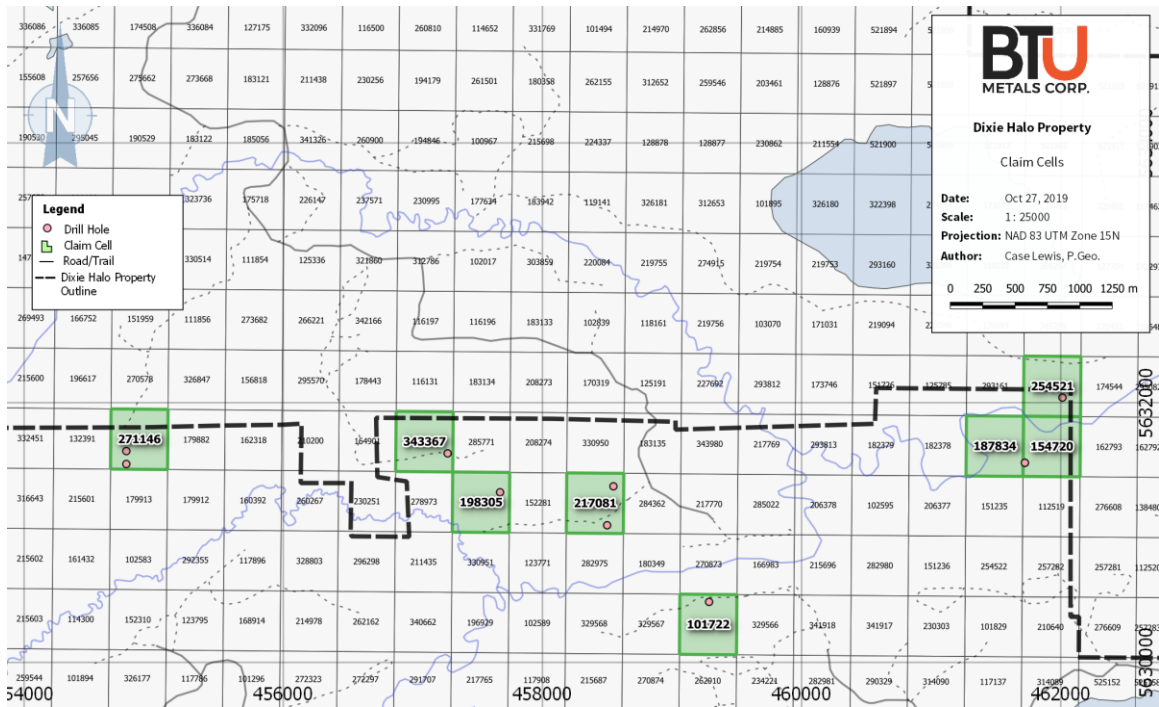


Figure 3: Detail for Area of Claim Cells where drilling was performed

5) Regional Geological Setting

The Red Lake metavolcanic/metasedimentary belt in Northwestern Ontario forms part of the Uchi Sub-province of the Archean Superior Province. The Dixie Greenstone Belt lies about 20 km south of the Red Lake Belt being separated from it by granitic plutons.

The rocks of the historic Red Lake belt record a protracted (ca. 300 Ma) history of episodic magmatism, sedimentation, and techno-thermal activity (Sanborn-Barrie, et al., 2001). The greenstone belt assemblages have been sub-divided into seven distinct units, comprising tholeiitic and calc-alkaline basalts, komatiite, intermediate through felsic tuffs and flows, interlayered or disconformable with quartz-magnetite iron formation, fine to coarse grained clastic rocks and polymictic conglomerates.

Mesoarchean (3200-2800 Ma) and Neoarchean (2800-2500 Ma) rocks are separated by a regionally extensive angular unconformity, marked by the basal polymictic conglomerate of the Heyson Assemblage (Sanborn-Barrie, et al., 2001). This stratigraphic horizon is believed to play an important role in gold mineralization in the belt, since more than 90% of the belt's 27.6 Mozs Au are found adjacent to this unconformity (Dube, et al. 2003).

The Balmer assemblage rocks “...host several of the largest and most prolific gold mines” (Fingler and Middleton, op cit. p. 14), including the Campbell, Red Lake, and Cochenour mines, whereas, the Madsen mine occurs at the contact between Balmer and Confederation assemblage rocks (Dube et al. 2000). Rocks of the Confederation assemblage dominate the region south of the main Red Lake Belt, including the area of the Dixie Halo South property.

Formations in the Red Lake area have been profoundly affected by events leading up to, and culminating in, the Kenoran Orogeny, which marks collision of the Winnipeg River Terrane, to the south, at ca. 2718 Ma (Sanborn-Barrie, et al., 2001). There are two important ductile deformation events (D_1 and D_2) recorded by two generations of folds and penetrative L-S fabrics throughout the belt. D_1 fabrics and folds generally strike northerly, whereas, D_2 structures are dominantly east to northeast striking, except in the Cochenour-Campbell-Red Lake ‘mine trend’, where a high D_2 strain zone strikes east-southeast. Subsequent brittle and semi-brittle structures occur at micro to macro scales and have both localized and offset gold mineralization (Dube et al., 2003).

By comparison, the Dixie Belt has not been well studied and poorly explored for its mineral potential. This despite the fact that gold occurrences have been known there since 1940. The belt is extensively covered by glacial outwash, thick gravel, and and clay deposits. Large areas are essentially devoid of outcrop. Recent prospecting, concomitant with logging active since 2008 have led to new rock exposures and a better understanding of the underlying geology on BTU property.

The predominant lithology is mafic volcanic rocks with interflow iron formation and some felsic pyroclastic and tuffaceous - sedimentary rocks. Mafic intrusive rocks; including, pyroxenite, gabbro and leuco-gabbro units as well as felsic sub-volcanic units are also present.

Sulphide and magnetite mineralization occurs in geophysically, “mappable” units and a few small gold occurrences in quartz veins are known from prospecting since the 1990s. No significant deposits of either gold or base metals have been found to date

Structurally, D_2 shear zones at Dixie are thought to be important for the localization of the high grade gold “Hinge Zone” of GBR. Structures of this orientation trending almost east - west have been recognized on the BTU property close the common boundary of the two companies.

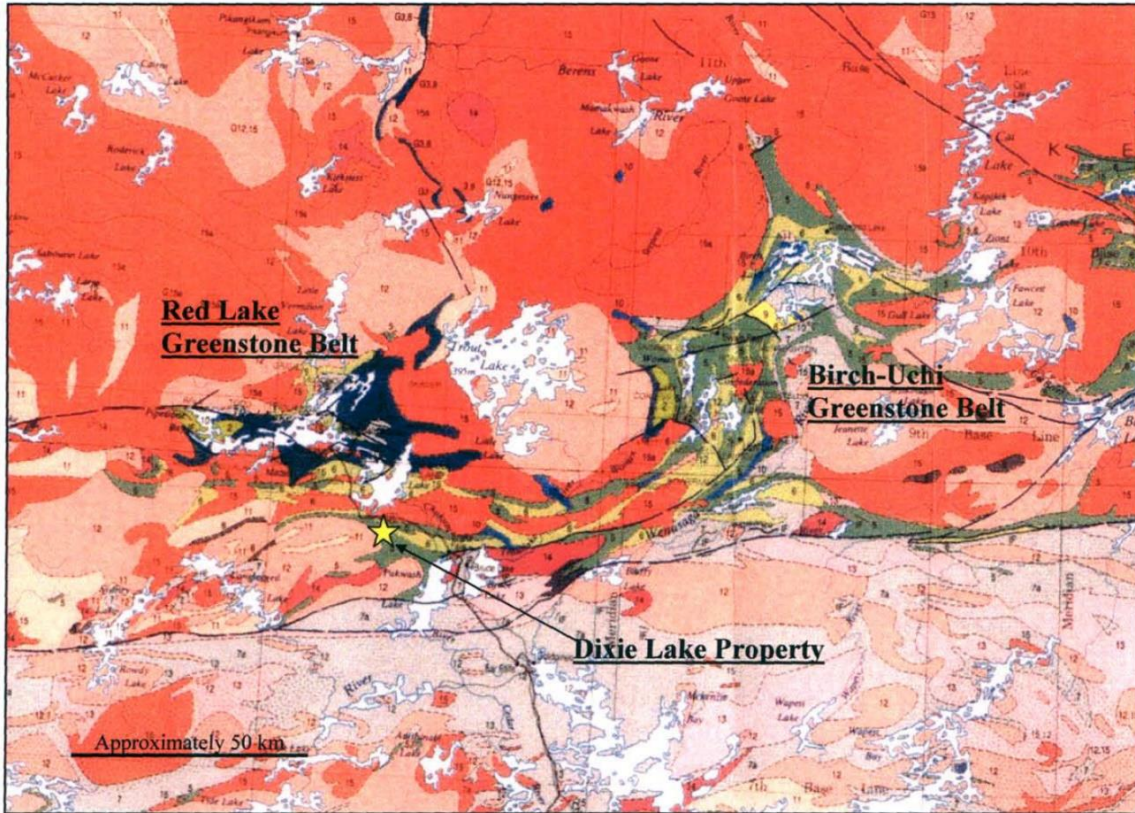


Figure 4: Regional Geologic Setting of the Dixie Lake Property: Pink and Red are granite and gneissic domains contrasting with the Greenstone belts.

6) Property Geology

The underlying geology of the Dixie Halo project area is typical of Archean greenstone belts. The property is underlain rocks that form the southern limb of the Dixie Fold Belt and trend northeasterly with near vertical dips. Outcrops are in general rare but recent clear cutting logging activity and concomitant prospecting has created new exposures.

What we know of the property geology has been learned largely over the last dozen years when the property was systematically prospected by Larry Herbert and the resulting exposures then mapped in detail by geologist Tony Pryslak, between 2011 and 2015, see Figure 5 below. The predominant rock type is mafic volcanics; mainly flows/flow breccia units, which are often pillowed, and amgdaloidal.

There are also narrow interflow iron formation units with magnetite, silica and sulphides. Their extent is largely inferred from localized outcrops, but two bands extend southwesterly across the central portion of the Dixie Halo South property and are interbedded with dacitic tuffs and volcanic sediments. These have a clear expression on historic AEM and Magnetic surveys. Such bands present targets for more detailed exploration and analysis, as on the GBR property, sulphide rich iron formation is known to host important gold mineralization.

There are a number of gabbroic units, which are probably sub-volcanic, and also which may represent coarse grained flow centers. Felsic tuffaceous units are present and traceable for many kilometers and other sub-volcanic dacitic bodies have been mapped on the project area particularly the central block of the property held by Mr. Herbert.

The southeastern portion of the property is not known in detail and was interpreted formerly to be mainly granitic intrusive type. However, with recent mapping, the area is now known to be underlain largely, by bands of sediments, dacitic tuffs and mafic flows.

Plutonic intrusive rocks of the granitic clan occupy the western portion of the property and are characterized as foliated tonalite and gneissic tonalite.

The general geologic trend on the Property is roughly 045 to 070 degrees. A series of faults in the north-central section of the Property has been interpreted from local mapping and property-wide geophysics, trending roughly northwest - southeast, offsetting the rock types identified on the property shown in the map below (Figure: 5).

In general, the geology is similar to that described for the units on the Dixie property of GBR to the north. There is a considerably more detailed differentiation of the volcanic rock units there due to the large amount of drilling and multi-element geochemical analysis that has been performed by GBR on 10s of thousands of meters of drill cores. By contrast BTU has relied to some extent on recent geological mapping carried out on the Dixie Halo South property and very little geochemical data was available.

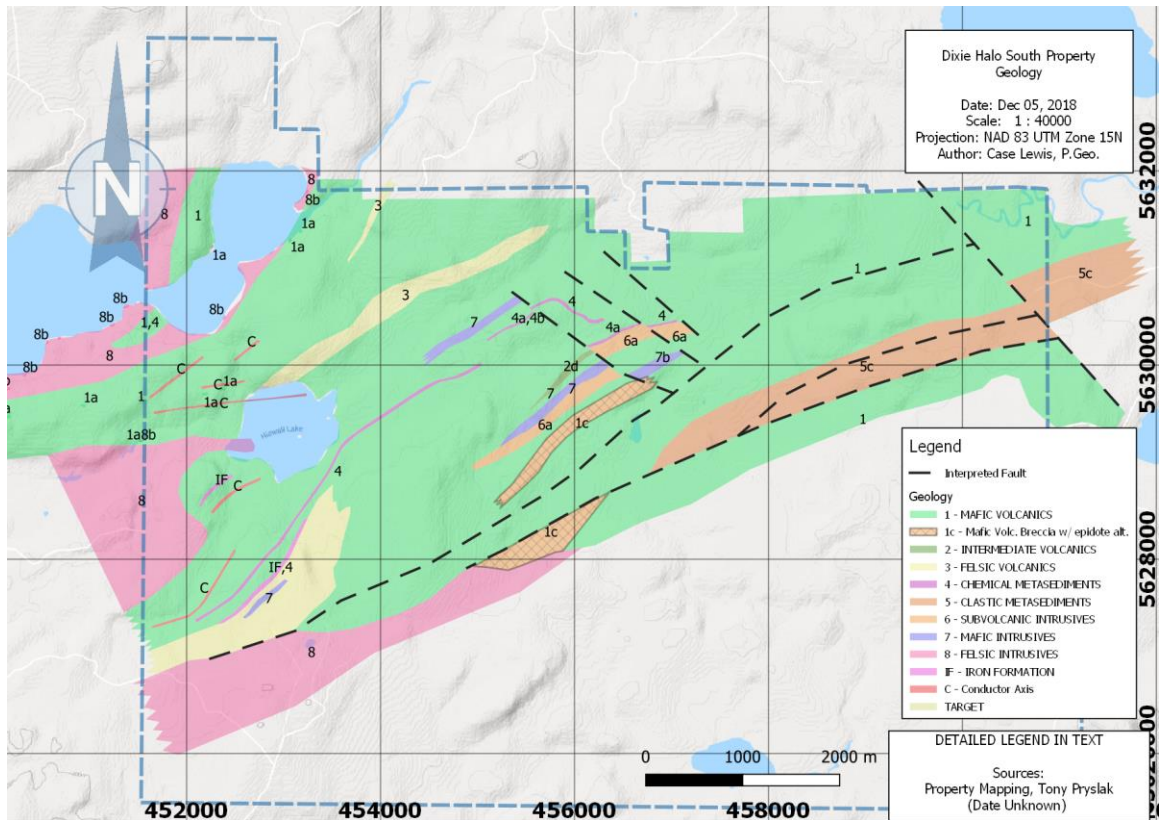


Figure 5: Dixie Halo - South Property geology (after Pryslak, 2015)

7) Previous work

The property was explored, notably by Caravelle Mines in the late 1960s-70s, with Newmont, then by Cominco in the 70s, Golden Terrace Resources Ltd in 80s, Canadian Patricia Explorations and Teck in early 1990s, Fronteer Development Group in early 2000s, and Grandcru Resources Corp in mid 2000s. The current claim holder is Larry Herbert who owns and operates Esker Logging.

A detailed account of previous work can be found in a NI43-101 report written for BTU in February, 2019. Also, descriptions of the agreements with both these claim holders can be found in the same report. In November 2018, BTU entered into an agreement with both Larry Herbert and his son Nathan Herbert, in which BTU may earn up to a 100% interest in both their claim groups hereby know as the Dixie South Property.

8) Exploration History

The Dixie Halo South area has been the location of numerous exploration programs since the 1960's. Early exploration included soil, lake water and lake sediment sampling, geophysical surveys, and diamond drilling. The detailed record of this historical work is contained in the Ontario MNM Assessment file archives and in other public documents generated by explorers in the area. The assessment files do not contain digital data, but in some cases useful images of the primary geophysical data and interpreted outcomes are included. A NI43-101 report was prepared for BTU and is referenced below.

The focus of exploration on the subject property has been until very recently on base metals. Iron formation, which is represented by strong airborne geophysical anomaly systems (magnetics and electromagnetics) has been tested by a number of short drill holes and other more discrete conductors have been tested at various times. No significant base metal intersections have been recorded although the iron formation contains in addition to abundant magnetite, pyrrhotite, pyrite and minor chalcopyrite and sphalerite. It may be markedly graphitic as well.

The primary zone of interest, for BTU where much of the historical work on the property has focused, is the area directly adjacent to the Dixie property to the north, covering the projected possible extension of the Dixie property mineralized zone. Here strong magnetic low features in some cases represent altered- carbonatized shear zones, which may host gold mineralization.

9) Tabulated Expenditure Statement

10) Diamond drilling Program 2019

Drill Hole #	Azimuth /Dip/EO H	UTM Co-ordinates		Sample series	Dates drilled	Claim cell	EO H	Provincial cell grid number	% of total drilling by hole	Drill Pro-rated Cost per Hole	% of Total Drilling by Claim	Total Drilling cost on each claim	Assay Costs Pro-rated by Claim	Geology Costs Pro-rated by Claim	Other Associated Costs Pro-rated by Claim (Supervision, Mob, Core Shack Rental)
BTU-19-01	315/45 /170m	459468 mE	5630429 mN	254001-254111	10/07/10 to 10/07/19	101722	170	52K13A 048	8.70 %	\$25,875.41	8.70 %	\$25,875.41	\$ 1,049.47	\$ 3,702.10	\$ 2,564.73
BTU-19-02	000/45 /204	457271 mE	5631609 mN	254112-254246	10/07/20 to 10/07/23	343367	204	52K13H 383	10.4 4%	\$31,050.49	10.4 4%	\$31,050.49	\$ 1,259.37	\$ 4,442.52	\$ 3,077.67
BTU-19-03	000/45 /206.5	457670 mE	5631321 mN	254247-254326	03//08/19 to 04/08/23	198305	206 .5	52K13A 004	10.5 7%	\$31,431.01	10.5 7%	\$31,431.01	\$ 1,274.80	\$ 4,496.96	\$ 3,115.39
BTU-19-04	000/45 /230	458494 mE	5631064 mN	254327-254436	05/08/19 to 07/08/19	217081	230	52K13A 006	11.7 7%	\$35,007.91	19.5 5%	\$58,143.57	\$ 2,358.22	\$ 8,318.83	\$ 5,763.09
BTU-19-05	180/45 /152	458553 mE	5631329 mN	254437-254506	07/08/19 to 10/08/19	217081	152	52K13A 006	7.78 %	\$23,135.66			\$ -	\$ -	\$ -

BTU-19-06	000/45/125	454780 mE	5631735 mN	25507-254558	12/08/19 to 14/08/19	271146	125	52K13G 398	6.40 %	\$19,026.04	13.14 %	\$39,087.09	\$ 1,585.32	\$ 5,592.34	\$ 3,874.24
BTU-19-07	000/45/131.8	454797 mE	5631592 mN	254559-254626	15/08/19 to 16/08/19	271146	131.8	52K13G 398	6.75 %	\$20,061.05			\$ -	\$ -	\$ -
BTU-19-08	212/50/293	462013 mE	5632039 mN	254627-254762	18/08/19 to 21/08/19	254521	293	52K13H 374	14.99 %	\$44,597.03	14.99 %	\$44,597.03	\$ 1,808.80	\$ 6,380.67	\$ 4,420.38
BTU-19-09	032/45/221	461723 mE	5631537 mN	254763-254857	22/08/19 to 25/08/19	154720	221	52K13H 394	11.31 %	\$33,638.03	22.62 %	\$67,276.06	\$ 2,728.63	\$ 9,625.45	\$ 6,668.29
BTU-19-10	212/50/221	461723 mE	5631537 mN	254858-254995	26/08/19 to 30/08/19	154720	221	52K13H 393	11.31 %	\$33,638.03			\$ -	\$ -	\$ -
							1954		100 %	\$297,460.66	100 %	\$297,460.66	\$ 12,064.60	\$ 42,558.87	\$ 29,483.79

This report describes work done and the results for BTU's Phase 1 drilling program. Between July 6th and September 9, 2019 a total of 10 drill holes were put down on select targets on its Dixie Halo property. The total meters drilled 1,954 and core size is "Thin Wall" (between BQ and NQ, 4cm in diameter). Almost 1000 gold geochemical analyses were completed and some multi-analysis ICP where performed as well. All final lab certificates are appended to this report.

Drill hole locations are show in Figure 6 below and drill hole co-ordinates and data relating to the holes are tabulated in Table 2.

Detailed logging was done on Excel Spreadsheets and are attached as an appendix. To date no logging program has been employed so that drill sections are hand drawn. All assay data is entered in the drill logs.

Targets were selected for drilling largely by selective ground follow-up IP surveying of airborne survey data (AEM/Mag) and resultant anomalies. No grid was established. The drilling was done near the northern boundary of the property, which adjoins the property of Great Bear Resources, the site of a important recent gold discoveries. These were reported in GBR press release over the last year.

The initial program can be seen largely as prospecting with a drill as the property is almost devoid of out crop. There are no significant results to report as only a few sample registered weakly anomalous gold.

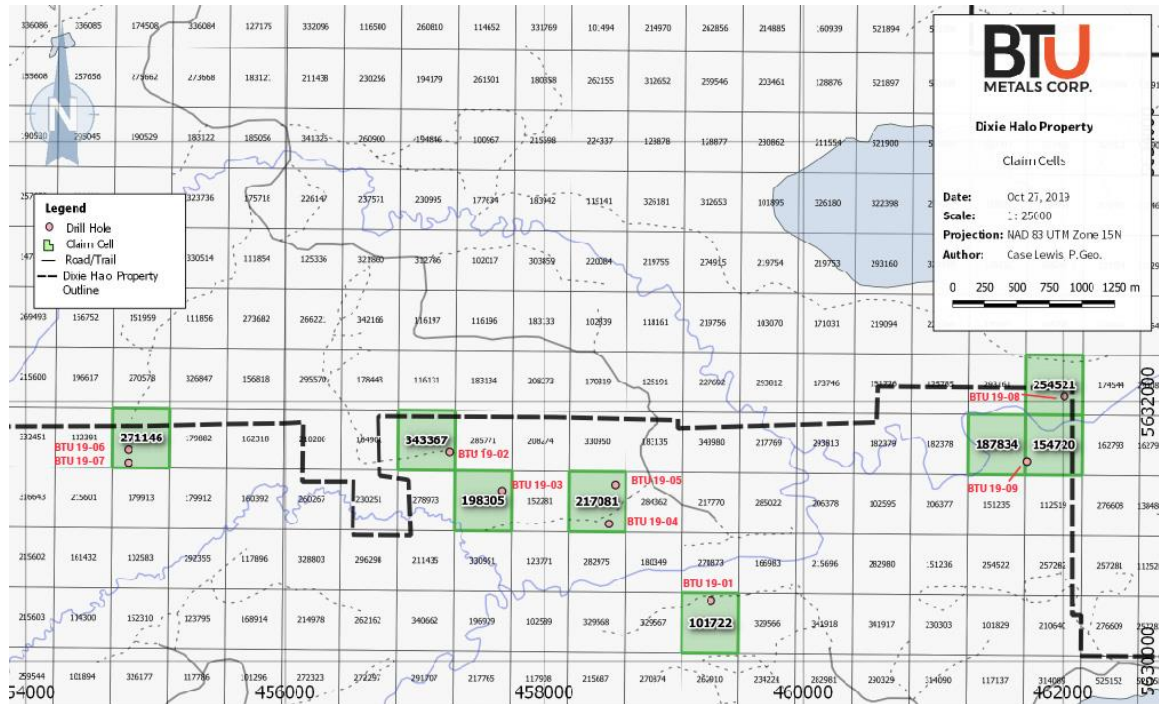


Figure 6: Locations of diamond drill holes in relation to claim cells.

Table 2: BTU Dixie drill hole data

Drill Hole #	Azimuth/Dip/EOH	UTM Co-ordinates	Sample series	Dates drilled
BTU-19-01	315/45 /170m	459468mE 5630429mN	254001-254111	10/07/10 to 10/07/19
BTU-19-02	000/45 /204	457271mE 5631609mN	254112-254246	10/07/20 to 10/07/23
BTU-19-03	000/45 /206.5	457670mE 5631321mN	254247-254326	03//08/19 to 04/08/23
BTU-19-04	000/45 /230	458494mE 5631064mN	254327-254436	05/08/19 to 07/08/19
BTU-19-05	180/45 /152	458553mE 5631329mN	254437-254506	07/08/19 to 10/08/19
BTU-19-06	000/45 /125	454780mE 5631735mN	25507-254558	12/08/19 to 14/08/19
BTU-19-07	000/45 /131.8	454797mE 5631592mN	254559-254626	15/08/19 to 16/08/19
BTU-19-08	212/50 /293	462013mE 5632039mN	254627-254762	18/08/19 to 21/08/19

BTU-19-09	032/45 /221	461723mE	5631537mN	254763-254857	22/08/19 to 25/08/19
BTU-19-10	212/50 /221	461723mE	5631537mN	254858-254995	26/08/19 to 30/08/19

11) References

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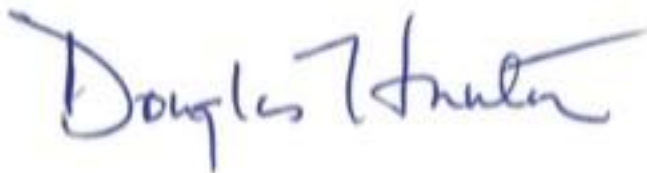
12

12) Certificate of Author

- i) I am currently a consulting exploration advisor to BTU Metals Corp.
- ii) I am a graduate, majoring in geology, of Carleton University, Ottawa (H.BSc.1975, and M.Sc. 1980).
- iii) I have worked on a consulting basis for BTU since November 2017. My independent consulting business Earthunt Resources was established in 1984.
- iv) I am a practicing member of the APGO (Membership #0629 - 2002)
- v) I am not aware of any material fact or material change with respect to the subject matter of this report, the omission to disclose which may make this report misleading.
- vi) I reside at 581 Elgar Drive, Millbrook, Ontario L0A 1G0 where I have lived since 1981.

Dated

Signed:



Allyne Douglas Hunter

Appendices

- i) Drill logs
- ii) Assay certificates
- iii) Drill sections (BTU-19-01 to BTU-19-10)
- iv) List of claim cells Herbert properties.

Diamond Drill Logs - Dixie Project

(Holes BTU-19-01 to BTU-19-10)

SURVEY DATA		
DDH	BTU-19-01	
Page	1	of 1
Project	DIXIE	Dixie Lake
Date Drilled	July 10 - July 17, 2019	
Date Logged	July 22 - July 23, 2019	
Geologist/Geotech	C.St.Louis	
Core Diameter	BQW	
Storage Location	Esker Logging	
Contractor	M3 Drilling	
Collar Azimuth/Dip	315/-45	
EOH(m)	170	
Overburden (m)	13.5	
Casing	15m	
Artesian Water	no	

UTM Projection	NAD 83
UTM Zone	15

Collar Locations		Claim Cell Number	Provincial cell grid number
Approximate Coordinates (hand-held GPS)			
Easting (m)	Northing (m)		
459468	5630429	101722	52K13A048

Coordinates (differential GPS) Not Taken

Easting (m)	Northing (m)

Surv. No.	Dist from collar	hole dip	Uncorrected Adjusted		Magnetic Field
			hole azimuth	hole azimuth	
1	0	-47.6	348.4	315	36995
2	9	-46.6	359.1	314.1	49658
3	18	-45.8	313.2		57642
4	27	-45.4	315.1		57308
5	36	-45.2	314.1		57323
6	45	-45	314.6		57282
7	54	-44.8	314.5		57701
8	63	-44.8	314.4		57885
9	72	-44.6	314		57666
10	81	-44	310.6	314.2	57817
11	90	-43.6	320.3	314.4	56011
12	99	-43.3	311.8	314.6	57195
13	108	-43.1	314.8		56885
14	117	-42.9	315.5		56937
15	126	-42.6	313	315.8	56795
16	135	-42.5	316.2		56840
17	144	-42.1	316.6		56895
18	153	-41.9	312	316.6	56608
19	162	-41.8	316.7		56842
20	171	-41.6	316.3		56898

Samples BTU-19-01

Sample#	From	To	Width	Au	Au
				ppb	g/tonne
				5	0.03
				<u>FA-AA</u>	<u>FA-GRA</u>
00254001	15	16	1	< 5	
00254002	20	21	1	< 5	
00254003	25	26	1	8	
00254004	30	31	1	< 5	
00254005	35	36	1	< 5	
00254006	40	41	1	5	
00254007	46.25	47	0.75	5	
00254008	50	51	1	< 5	
00254009	51	51.85	0.85	< 5	
00254010	51.85	52.6	0.75	< 5	
00254011	52.6	53.3	0.7	5	
00254012	53.3	54.1	0.8	< 5	
00254013	54.1	54.7	0.6	< 5	
00254014	54.7	55.6	0.9	< 5	
00254015	58.45	59	0.55	6	
00254016	59	59.65	0.65	26	
00254017	59.65	60.5	0.85	7	
00254018	60.5	61.3	0.8	9	
00254019	61.3	61.8	0.5	13	
00254020				1050	
00254021	61.8	62.2	0.4	< 5	
00254022	62.2	63.2	1	10	
00254023	63.2	63.8	0.6	8	
00254024	63.8	64.45	0.65	12	
00254025	64.45	65.25	0.8	21	
00254026	65.25	66.25	1	10	
00254027	66.25	67.15	0.9	28	
00254028	67.15	67.75	0.6	18	
00254029	67.75	68.3	0.55	30	
00254030	68.3	69.25	0.95	22	
00254031	69.25	70.25	1	14	

00254032	70.25	71	0.75	49
00254033	71	71.45	0.45	12
00254034	71.45	72.15	0.7	31
00254035	72.15	73	0.85	233
00254036	73	74	1	26
00254037	74	75	1	41
00254038	75	75.9	0.9	37
00254039	75.9	76.55	0.65	48
00254040				< 5
00254041	76.55	77.25	0.7	< 5
00254042	77.25	78.1	0.85	< 5
00254043	78.1	78.95	0.85	
00254044	78.95	79.55	0.6	
00254045	79.55	80.25	0.7	< 5
00254046	80.25	80.9	0.65	
00254047	80.9	81.55	0.65	< 5
00254048	81.55	82.45	0.9	< 5
00254049	82.45	83.2	0.75	
00254050	83.2	83.85	0.65	< 5
00254051	83.85	84.6	0.75	27
00254052	84.6	85.4	0.8	13
00254053	85.4	86.05	0.65	6
00254054	86.05	86.8	0.75	64
00254055	86.8	87.6	0.8	< 5
00254056	87.6	88	0.4	80
00254057	88	88.6	0.6	7
00254058	88.6	89.5	0.9	19
00254059	89.5	90.15	0.65	18
00254060				> 5000 9.76
00254061	90.15	90.85	0.7	15
00254062	90.85	91.5	0.65	< 5
00254063	91.5	92.1	0.6	< 5
00254064	92.1	93	0.9	< 5
00254065	96	97	1	< 5
00254066	101	102	1	< 5
00254067	104	105	1	
00254068	105	105.5	0.5	13
00254069	105.5	106.35	0.85	
00254070	106.35	107.1	0.75	
00254071	107.1	107.6	0.5	58
00254072	107.6	108.1	0.5	19

00254073	108.1	109	0.9	
00254074	109	110	1	
00254075	110	110.6	0.6	
00254076	110.6	111.4	0.8	< 5
00254077	111.4	111.9	0.5	< 5
00254078	111.9	112.4	0.5	< 5
00254079	112.4	112.9	0.5	< 5
00254080				> 5000 8.61
00254081	112.9	113.7	0.8	< 5
00254082	113.7	114.5	0.8	< 5
00254083	114.5	115.35	0.85	< 5
00254084	115.35	115.9	0.55	< 5
00254085	115.9	116.5	0.6	5
00254086	116.5	117.5	1	
00254087	117.5	118.25	0.75	
00254088	118.25	119.25	1	< 5
00254089	119.25	120.25	1	< 5
00254090	120.25	121.25	1	< 5
00254091	121.25	122	0.75	
00254092	126	127	1	< 5
00254093	132	132.9	0.9	
00254094	132.9	133.55	0.65	< 5
00254095	133.55	134.25	0.7	
00254096	140.5	141.5	1	< 5
00254097	141.5	142.1	0.6	
00254098	142.1	143	0.9	< 5
00254099	143	143.6	0.6	< 5
00254100				< 5
00254101	143.6	144.6	1	< 5
00254102	144.6	145.6	1	< 5
00254103	145.6	146.4	0.8	
00254104	146.4	147.35	0.95	< 5
00254105	151	152	1	< 5
00254106	156	157	1	< 5
00254107	160.15	161.15	1	< 5
00254108	162.75	163.65	0.9	< 5
00254109	163.65	164.5	0.85	< 5
00254110	166	167	1	< 5
00254111	169	170	1	< 5

111	#SAMPLES	83.75	metres sampled
5	#QA/QC	49.26	percent sampled
116	Total # of samples		

Description

well banded wacke tuff; 0.5-2% py disseminations and along fabric planes
same; 1-2% py disseminations; trace po; blue quartz eyes
same;
same; darker green; 2-5% fine py disseminations throughout; chlorite/sericite alteration
same; 1-5% py disseminations; round clasts (up to 15mm) within fabric
same; trace to 0.5% py disseminations
same; 30% yellow buff sericite alteration; medium to dark green grey; 35 dtca
20% irreg quartz +/- calcite/chlorite; 2-5% py disseminations; 0.5% po disseminations; brown cast (biotite?)
greener banded tuff; 1% py disseminations; one xcutting quartz veinlet (8mm) with coarser 1-2mm py; trace cp on fabric planes
same; granular quartz (2-5%) more discernible; trace garnets adjacent blue quartz bands at 30 tca
banded tuff; translucent granular quartz; fine (0.5mm) non-magnetic black specks; 1-3% py disseminations and as smears on xcutting joints/fractures; trace garnets; blocky ground
same; 2 quartz veinlets (10mm/20mm) in fabric with coarse blebs of py; 2-5% py disseminations in grey bands of host; increased fine greenish black specks (chlorite/biotite?)
same; blocky ground along fabric (20-25 dtca) and joints (-80 dtca); minor irregular pinkish red garnets (.5-3mm); two 35mm quartz/carb/chlorite veinlets at 35 dtca with minor py blebs; 0.5-1% py disseminations in host
banded tuff; 1-5% fine py; trace garnets
irreg 30mm light grey quartz/chlorite veinlet at 30 dtca; barren looking; irregular host fabric at <15 dtca; 1-2% py disseminations
2 quartz veinlets (10mm) at 35 dtca sub parallel fabric at 30 tca; trace py in and adjacent to veinlets in chlorite rims; more blue quartz; coarser; 1-2% py disseminations in greener chloritic bands; trace fine po (0.5mm) green to grey chloritic/siliceous bands (1cm) at 30 dtca; 1-2% fine py/trace po disseminations; one 10mm quartz/chlorite veinlet at 40 dtca; trace garnets
same; greener; 5% garnets; 30 deg fabric; trace py
10mm and 50mm quartz at 30/25 dtca contacts; 40 degree fabric; trace scheelite specks (<2mm) as distinct to diffuse specks; up to 5% coarse irregular po within veinlets with trace py contained within po; trace py in host
STANDARD - CDN-GS-1W
10% irreg quartz stringers; barren looking; coarser less well banded host
70% white quartz veinlets at 10/25 dtca; trace specks of scheelite; barren looking
greyer; more siliceous granular texture; weaker banding at 30-35 dtca; trace chlorite; weak sericite
same; 1-2% po as thin bands at 25 dtca; 5cm grey quartz veinlet at 50/40 dtca with irregular blebs/threads of py/po
granular tuff; weak sericite; trace py/po
30% light grey quartz/chlorite veinlets (1-15cm) at 20-40 dtca; predominantly irregular coarse 2-3% po blebs in veinlets; trace py;
granular tuff; weak pervasive sericite; trace garnets/po/py in 10cm chloritic band
granular tuff; weak pervasive sericite; trace garnets/po/py
60% dark green chlorite bands with 0.5-2mm garnets; 1% magnetite grains (0.5mm) and trace fine po disseminations
medium greenish grey granular tuff; weak sericite; trace chlorite; trace po/py as fine disseminations and smears along fabric planes
same; trace to 0.5% po; moderate sericite

same

pyroclastic band; 33/40 degree upper/lower contacts; 1% fine py disseminations; strong pervasive sericite alteration; trace fuchsite alteration in one fragments 1% py disseminations
strong sericite alteration; 2-5% py disseminations and as threads parallel fabric
moderate pervasive sericite; 1-2% py disseminations; 0.5% po
same; 1-2% po/trace py in chloritic bands +/-quartz stringers (<3mm) parallel fabric; trace magnetite grains (<0.5mm)

greyer; granular; 1mm quartz grains; 1-2mm blue quartz; 2-5% po; 1-2% py disseminations in host and along along blue quartz bands (<10mm) parallel fabric
moderate to strong sericite alteration; buff yellow; 5% py disseminations (<0.5mm)

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greener; fabric at 20 dtca; 1% fine py disseminations; trace po
dark green mafic volcanic (tuff?); 1-3% fine py disseminations
same; banded (1cm) grey siliceous; green chloritic +/-fine black bio? flecks; 1-3% fine py/po
same

same with 25% white quartz/<carb veinlets 0.5-15cm wide with adjacent black biotite alteration/<chlorite; 3-5% irreg disseminations patches/blebs of po up to 5mm; 1% fine py; rare speck of cp
banded/laminated (<5mm) at 45 dtca; 1% calcite stringers; trace fine po disseminations
same; 15% light grey quartz/white carb veinlets with adjacent biotite alteration; 0.5% py; trace po

laminated tuff; 1-2% po; 1% py; greyer; more siliceous; 1% calcite stringers; weak chlorite/trace biotite
same; 1-2% po; 1% py; weak chlorite/trace biotite
20% light grey to grey quartz veinlets (2-5cm) at 40-50 dtca; moderate chlorite/carb; weak biotite bands; trace po/py disseminations; one xcutting calcite stringer at -35 dtca

1-2% coarse irreg po disseminations patches with 1% py adj to and within quartz/chlorite veinlets; mottled texture with 1-5mm grey siliceous 'blebs'

blocky ground; 15% irregular quartz veinlets (<2cm) sub parallel fabric at 20-28 dtca; 5-10% coarse irregular po seams/bands; minor py (<1%); trace cp; fabric down to 18 dtca

same

same

sheared' mafic tuff; 2-3% po disseminations; fabric at 5 dtca
10% irreg grey quartz veinlets and 5-10% irregular disseminations po bands/seams
mineralized tuff at 15 dtca; 3-5% po disseminations
25% irregular quartz veinlets (5-20 dtca) with 10% irregular disseminated bands/seams of po; trace cp; trace py within po

same

DUPLICATE (PULP)

as from 88.6-89.5m

as from 88.6-89.5m

f.g. green laminated tuff; 35 dtca; 1-2% fine po
same; 45 dtca parallel 1% calcite threads; moderate chlorite; trace biotite
more massive looking; pervasive chlorite; 5% calcite stringers parallel to the fabric at 40 dtca; fine magnetite grains (<1mm); trace py; trace cp associated with the stringers

laminated/banded mafic tuff at 30 dtca with 1-3% calcite stringers; medium to dark grey to green chlorite bands (<5mm) with trace biotite adjacent to the stringers; 0.5% magnetite grains (<0.5mm)

finely laminated mafic tuff (<5mm); moderate chlorite with trace biotite alteration; 1-2% calcite threads parallel fabric at 25 dtca; trace fine po disseminations

30% irregular sub planar quartz/<carb veinlets adjacent to moderate chlorite/weak biotite alteration; 1-2% coarse disseminations po patches with trace cp/py within po; one 2mm speck of scheelite

laminated tuff at 30 dtca; pervasive chlorite alteration; trace biotitic bands (<2mm)

same

same; 5% calcite stringers (<5mm) at 45 dtca truncating fabric (at 25 dtca); trace py
greyer; weakly silicified adjacent to 20% irreg quartz/chlorite/carbonate veinlets; moderate chlorite alteration; 2-5% disseminations patches of po with trace py/cp blebs within po; trace threads of red sphalerite; mottled texture with 1-2mm dark grey quartz grains

laminated tuff (1-5mm bands); up to 15% greyer silicified bands; chloritic bands; 1-2% calcite threads parallel fabric; fabric steepens from 20-50 dtca at vein contact
same as above
same as above

same with 1mm biotite alteration along fabric; 1-3% magnetite as fine grains associated with calcite threads

felsic tuff with 50% white translucent quartz +/-carb +/-chlorite at 25 dtca vein contact; fabric at 65 dtca dark buff grey; moderate sericite alteration; fabric at 55 dtca
50% quartz/<chlorite vein at 40 dtca (one at 25 dtca); moderate sericite alteration of host; 0.5% py blebs in vein

STANDARD - CDN-GS-9B

felsic tuff; weak to moderate sericite alteration; fabric from 75 dtca to 35 dtca moving downhole
same; rod count; block correction carried uphole to collar (1.2m)
greyer; more siliceous; weak sericite alteration; trace sphalerite threads (25 dtca) shallower than the fabric at 45 dtca;
60% quartz/<carb/<chlorite veins (20cm/10cm) with trace py blebs; variable contacts (60-20dtca) sub parallel fabric at 33 dtca
35% white quartz/<carb veinlets at 20 dtca with 1-2% threads of sphalerite
darker grey; weak sericite; 37 dtca; patch of garnets at contact at 45 dtca
dark grey laminated (<5mm); very siliceous; weak sericite; trace py
same; very siliceous; dark grey laminated and yellow green sericite laminations (moderate to strong); trace magnetite in 1-3mm dark green to black chlorite/biotite bands; 15% irregular quartz veinlets (0.5-5cm); trace sphaeritel in one veinlet
same with trace py
same; trace py/po
more buff grey; weak sericite alteration
medium grey to buff; weak to moderate sericite alteration; weak chlorite alteration as fine specks; trace py dissem;
weak sericitic tuff; more feldspars below 125.4m; fabric 30 dtca
20% irregular white quartz/<carb veinlets with adjacent chlorite alteration at 15-20 dtca; bands of yellow sericite (<1cm)
0.5mm round feldspars; weak sericite alteration; 1-5% fine black non-magnetic grains/specks
grey tuff
blocky ground; 30% white bull quartz veinlets (+chlorite) @ 45 dtca sub parallel fabric at 22 dtca
tuff
blocky ground; 40% white bull quartz + chlorite; barren looking

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blocky ground; some sericite alteration; trace hematite(?) as opaque red 1mm grains adjacent quartz grains greener; weak chlorite; 0.5% magnetite grains
c.g. laminated tuff (?); 2-5mm green chloritic/<sericite bands and coarse sericitic bands with 1-3mm grey quartz grains; blocky ground
same
laminated grey green tuff; 1cm green chloritic bands with up to 5-10% magnetite within the bands; 0.5% magnetite overall
same; coarse 1-2mm dark grey quartz grains in grey siliceous bands; trace magnetite concentrated in greener more chloritic bands; trace py
same; 0.5% magnetite concentrated in green chloritic bands
same banded unit; 1% magnetite contained within green bands (10%) which are moderately to strongly magnetic; trace cp along one 5mm carbonate stringer
same; 1-2% magnetite; trace hematite adjacent to some magnetite grains
same; trace magnetite
same; 0.5% magnetite; EOH

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm
Detection Limit	0.3	0.01	3	7	1	2	0.01	0.3
Analysis Method	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
00254035	0.6	4.17	13	449	< 1	< 2	0.84	< 0.3
00254036	0.4	4.93	< 3	503	< 1	< 2	1.44	< 0.3

Co ppm 1 TD-ICP	Cr ppm 1 TD-ICP	Cu ppm 1 TD-ICP	Fe % 0.01 TD-ICP	Ga ppm 1 TD-ICP	Hg ppm 1 TD-ICP	K % 0.01 TD-ICP	Mg % 0.01 TD-ICP	Li ppm 1 TD-ICP	Mn ppm 1 TD-ICP
17	84	43	1.89	10	< 1	1.48	0.41	8	264
12	66	29	2.67	12	1	1.41	0.69	10	507

Mo	Na	Ni	P	Pb	Sb	S	Sc	Sr	Te
ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm
1	0.01	1	0.001	3	5	0.01	4	1	2
TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
2	0.29	26	0.01	17	< 5	0.95	5	51	< 2
2	0.5	29	0.018	16	< 5	0.26	9	73	< 2

Ti	Tl	U	V	W	Y	Zn	Zr
%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
0.01	5	10	2	5	1	1	5
TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
0.15	< 5	< 10	38	< 5	10	33	107
0.24	< 5	< 10	55	< 5	11	59	97

Core Box Tagging BTU-19-01

Box #	From	To
1	13.5	16.2
2	16.2	18.8
3	18.8	21.7
4	21.7	24.6
5	24.6	27.4
6	27.4	30.2
7	30.2	33.1
8	33.1	35.8
9	35.8	38.7
10	38.7	41.5
11	41.5	44.3
12	44.3	47.2
13	47.2	50.0
14	50.0	52.6
15	52.6	55.0
16	55.0	57.7
17	57.7	60.5
18	60.5	63.3
19	63.3	66.2
20	66.2	67.1
21	67.1	71.9
22	71.9	74.8
23	74.8	77.6
24	77.6	80.5
25	80.5	83.2
26	83.2	85.9
27	85.9	88.6
28	88.6	91.5
29	91.5	94.3
30	94.3	97.1
31	97.1	101.3
32	101.3	105.5
33	105.5	109.8
34	109.8	114.1
35	114.1	118.2
36	118.2	122.4
37	122.4	126.6
38	126.6	130.8
39	130.8	135.2
40	135.2	139.5
41	139.5	143.6
42	143.6	147.6
43	147.6	152.0
44	152.0	156.5
45	156.5	160.8
46	160.8	165.1
47	165.1	169.4
48	169.4	170.0

EOH

Point Data BTU-19-01

Depth	Type	Measurement	Comments
14.0	F	25	
15.0	JQ	-68	15MM
23.7	JC	-40	5MM
24.0	F	28	
25.0	J	-60	3/20CM
26.7	V	-32	3MM
30.0	F	30	
33.3	J	-27	2/10CM
34.2	JQ	-20	5MM; QTZ/CAL/PY
35.0	F	27	
39.7	JQ	-55	5MM QTZ/CAL
40.0	F	30	
41.1	JC	45	2MM; CAL COATING
42.6	J	-35	3/10 CM
44.6	J	-67	
46.0	F	35	
49.4	J	4/20CM	
50.0	F	40	
51.2	F	25	
51.3	JQ	-40	8MM; QTZ/PY
51.9	J	-60	2/10CM
52.0	F	25	
57.0	F	30	
62.5	V	25	BULL QTZ VNS PY/PO/SHEELITE
64.0	F	27	
70.0	F	35	
75.0	F	30	
75.7	J	-37	
77.2	V	32	
78.0	F	32	
79.0	F	25	
80.5	F	40	
81.5	J	-55	0.8/40CM; BLOCKY GROUND
83.0	F	30	
86.4	F	18	
86.8	F	50	
87.3	F	15	
89.6	V	20	
91.6	F	23	
92.8	F	35	
92.0	F	45	
94.0	F	35	
97.0	F	30	
101.0	V	27	
105.0	J	-55	
107.0	F	25	
107.3	F	45	
107.6	F	65	
108.1	F	23	
109.3	F	20	
110.7	F	30	

111.3	F	40	
111.4	F	50	
111.9	F	65	
112.2	F	55	
112.9	F	40	
113.1	F	75	
113.7	F	35	
114.5	F	45	
116.0	F	33	
117.0	F	37	
117.5	J	-35	
122.0	J	-53	
122.1	F	30	
126.0	F	35	
127.5	J	-45	BLOCKY GROUND 70CM
128.8	J	-55	BLOCKY GROUND 20CM
130.2	JQ	-20	15MM QTZ VLT
130.5	F	30	
132.7	F	42	
133.2	F	18	15-20 dtca 132.9-133.55m
135.0	F	30	
138.8	J	-60	8/90CM
140.0	J	-42	BLOCKY GROUND
142.0	F	20	
143.6	F	22	
144.8	F	55	
145.3	F	25	
149.9	JC	-70	
156.0	F	30	
163.0	F	25	
166.3	JC	30	SER/CARB ALTRN
168.8	JQ	-23	
169.0	F	32	

F-foliation

V-vein

J-joint

JQ-quartz filled

JC-calcite filled

C-contact

SURVEY DATA	
DDH	BTU-19-02
Page	1 of 1
Project	Dixie Lake
Date Drilled	July 18-31, 2019
Date Logged	July 24 - August 4, 2019
Geologist/Geotech	C. St.Louis
Core Diameter	BQW
Storage Location	Esker Logging
Contractor	M3 Drilling
Collar Azimuth/Dip	000/-45
EOH(m)	204
Overburden (m)	17.8
Casing	removed
Artesian Water	none

UTM Projection

NAD 83

UTM Zone

15

Collar Locations	Claim Cell Number	Provincial cell grid number
Approximate Coordinates (hand-held GPS)		
Easting (m) Northing (m)		
457271 5631609	343367	52K13H383

Coordinates (differential GPS) Not Taken

Easting (m) Northing (m) Elevation (m)

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Survey Data			Uncorrected	Adjusted	Magnetic
Surv. No.	Dist from collar	hole dip	hole azimuth	hole azimuth	Field
1	5	-45.1	355.5	357.5	35480
2	14	-43.5	11.3	357.5	29660
3	23	-43.1	357.7		57350
4	32	-43	357.9		56974
5	41	-42.8	357.9		56816
6	50	-41.9	357.4		56749
7	59	-41.5	358.2		56748
8	68	-40.9	358		56750
9	77	-40.7	355.8		58407
10	86	-40.5	358.1		56163
11	95	-40.1	358.4		56515
12	104	-39.8	358.9		56150
13	113	-39.3	355.3		54240
14	122	-38.9	358.9		55980
15	131	-38.4	360		55939
16	140	-37.4	359.8		55917
17	149	-36.7	359.8		55760
18	158	-36.2	0		55576
19	167	-35.5	359.8		56365
20	176	-34.7	2.2		54879
21	185	-34	0.2		55023
22	194	-33.4	0.6		54820
23	203	-33	0.7		53927

Samples BTU-19-02

Sample#	From	To	Width	Au	Au
				ppb	g/tonne
				5	0.03
				FA-AA	FA-GRA
00254112	20.00	21.00	1.00	5	
00254113	22.00	23.00	1.00	< 5	
00254114	26.55	27.45	0.90	6	
00254115	31.00	32.00	1.00	45	
00254116	36.20	37.00	0.80		
00254117	37.00	37.70	0.70		
00254118	37.70	38.65	0.95	< 5	
00254119	38.65	39.20	0.55	< 5	
00254120				< 5	
00254121	39.20	39.90	0.70		
00254122	39.90	40.65	0.75		
00254123	40.65	41.30	0.65		
00254124	41.30	41.85	0.55	< 5	
00254125	41.85	42.50	0.65	< 5	
00254126	42.50	43.10	0.60	< 5	
00254127	43.10	43.80	0.70	< 5	
00254128	43.80	44.55	0.75	< 5	
00254129	44.55	45.15	0.60	< 5	
00254130	45.15	45.70	0.55	< 5	
00254131	45.70	46.30	0.60		
00254132	46.30	47.00	0.70		
00254133	47.00	47.80	0.80		
00254134	47.80	48.50	0.70	6	
00254135	48.50	49.40	0.90	11	
00254136	49.40	50.35	0.95	8	
00254137	50.35	51.10	0.75	9	
00254138	51.10	52.00	0.90	9	
00254139	52.00	53.00	1.00	6	
00254140				1090	
00254141	53.00	54.00	1.00	< 5	
00254142	54.00	55.00	1.00	< 5	
00254143	55.00	56.00	1.00	< 5	
00254144	59.00	59.75	0.75	< 5	
00254145	59.75	60.50	0.75	< 5	
00254146	60.50	61.15	0.65	< 5	
00254147	61.15	62.00	0.85	< 5	
00254148	62.00	63.00	1.00	< 5	
00254149	66.00	67.00	1.00	< 5	
00254150	70.00	71.00	1.00	< 5	
00254151	73.00	74.00	1.00	< 5	
00254152	74.00	75.00	1.00	< 5	
00254153	75.00	75.65	0.65	5	
00254154	75.65	76.20	0.55	< 5	
00254155	76.20	76.80	0.60	< 5	
00254156	76.80	77.40	0.60	< 5	
00254157	77.40	78.30	0.90	< 5	
00254158	78.30	79.05	0.75	< 5	

00254159	79.05	80.00	0.95	< 5	
00254160				< 5	
00254161	80.00	81.00	1.00	< 5	
00254162	81.00	82.00	1.00	< 5	
00254163	84.00	85.00	1.00	< 5	
00254164	86.00	87.00	1.00	< 5	
00254165	87.00	88.00	1.00		
00254166	88.00	89.00	1.00		
00254167	89.00	90.00	1.00	< 5	
00254168	90.00	91.00	1.00		
00254169	91.00	92.00	1.00	< 5	
00254170	92.00	93.00	1.00	< 5	
00254171	93.00	94.10	1.10		
00254172	94.10	95.25	1.15		
00254173	95.25	95.85	0.60	< 5	
00254174	95.85	96.40	0.55	6	
00254175	96.40	97.40	1.00	< 5	
00254176	97.40	98.00	0.60	5	
00254177	100.10	101.00	0.90	5	
00254178	102.00	103.00	1.00	6	
00254179	103.00	104.00	1.00	7	
00254180				7	
00254181	104.00	104.65	0.65		
00254182	104.65	105.25	0.60		
00254183	105.25	106.50	1.25	5	
00254184	106.50	107.50	1.00		
00254185	107.50	108.60	1.10	6	
00254186	108.60	109.70	1.10		
00254187	109.70	110.45	0.75	7	
00254188	110.45	111.40	0.95	6	
00254189	111.40	112.25	0.85	7	
00254190	112.25	113.15	0.90	7	
00254191	113.15	114.20	1.05		
00254192	114.20	115.40	1.20		
00254193	115.40	116.40	1.00	7	
00254194	116.40	117.20	0.80	8	
00254195	117.20	118.15	0.95		
00254196	118.15	119.10	0.95		
00254197	119.10	120.00	0.90		
00254198	124.80	125.90	1.10	8	
00254199	127.00	128.00	1.00	12	
00254200				> 5000	8.65
00254201	128.00	129.10	1.10		
00254202	129.10	129.60	0.50	7	
00254203	129.60	130.60	1.00		
00254204	130.60	131.40	0.80	7	
00254205	131.40	132.40	1.00		
00254206	132.40	133.40	1.00	8	
00254207	133.40	134.50	1.10	< 5	
00254208	136.00	137.00	1.00	< 5	
00254209	137.00	138.00	1.00	< 5	
00254210	138.00	139.00	1.00	< 5	
00254211	139.00	140.00	1.00	< 5	
00254212	140.00	141.20	1.20	< 5	
00254213	141.20	142.00	0.80	< 5	

00254214	142.00	142.65	0.65	< 5
00254215	142.65	143.35	0.70	< 5
00254216	143.35	144.00	0.65	< 5
00254217	144.00	145.00	1.00	< 5
00254218	145.00	146.00	1.00	< 5
00254219	146.00	147.20	1.20	< 5
00254220				< 5
00254221	147.20	148.00	0.80	5
00254222	148.00	149.00	1.00	< 5
00254223	149.00	150.00	1.00	< 5
00254224	150.00	151.00	1.00	< 5
00254225	154.30	155.40	1.10	< 5
00254226	160.20	161.20	1.00	< 5
00254227	161.20	161.90	0.70	< 5
00254228	161.90	162.70	0.80	< 5
00254229	162.70	163.70	1.00	< 5
00254230	167.40	168.45	1.05	7
00254231	168.45	169.05	0.60	< 5
00254232	169.05	170.00	0.95	5
00254233	174.00	175.00	1.00	< 5
00254234	175.90	176.60	0.70	< 5
00254235	176.60	177.25	0.65	6
00254236	183.15	184.20	1.05	< 5
00254237	187.30	188.30	1.00	< 5
00254238	189.50	190.50	1.00	< 5
00254239	191.95	192.95	1.00	< 5
00254240				< 5
00254241	194.90	195.90	1.00	< 5
00254242	196.60	197.60	1.00	< 5
00254243	198.60	199.50	0.90	< 5
00254244	199.50	200.30	0.80	< 5
00254245	202.30	203.10	0.80	< 5
00254246	203.10	204.00	0.90	< 5

EOH

#samples		113.20	metres sampled
128	#core samples	55.4902	% sampled
7	#QA/QC		
135	Total samples		

Description

blocky ground; dark green; chloritic with 2-5mm amphibole phenos; weak fabric at 45 dtca; trace py disseminations; more massive looking

contact zone; biotite alteration in stronger fabric (shear zone) at 37 dtca
chloritic; slightly finer; weak fabric at 45-50 dtca

mod foliated at 40 dtca; xcutting calcite joints/threads at -45 to -50 dtca

same; trace py disseminations associated with xcutting calcite joints/fractures

same; weak biotite alteration; 1-3% fine py associated with the calcite joints/fractures

same; 0.5% py; weakly silicified

DUPLICATE PULP-00254119

same; 3-5% py disseminations and along fabric planes at 35 dtca; weakly silicified; weak biotite alteration

1-3% amphiboles elongated along moderate fabric at 40-50 dtca; weak local biotite alteration; 3-5% xcutting calcite
same

same

darker green; weakly silicified; weak biotite alteration; 5% light grey to red quartz/siderite? stringers (<5mm) parallel
same

browner; weak to moderate pervasive biotite alteration; weakly silicified; chloritic; 10-15% py disseminations throughout; lc
same

same

same

f.g. grey to greenish grey tuff?; weakly silicified; weak fabric 40-45 dtca with parallel quartz stringers with trace py; tr

same

same

same

same

tuffaceous; laminations more distinct locally at 42 tca; tr py disseminations associated with rare fabric parallel quartz thread
same

same

tuff; 37 dtca; 0.5-1% py disseminations and smears along fabric planes

STANDARD - CDN-GS-1W

as above but with localized white feldspar

same

same

tuff; greener; harder; more banded looking with buff brown and grey green bands (<2cm); trace to 0.5% py as smears

same

same

same

same

banded tuff similar to above

banded tuff similar to above

1-3% py disseminations and threads in siliceous tuff (sandstone?); fine diffuse white plagioclase;

same

possible argillite or very fine dark tuff?; bedding/banding at 37 dtca; 2-5% py threads/seams along fabric

same but with 5-8% coarse py disseminations; 1cm blebs over 30cm zone; contact

greenish brown banded tuff?; trace py disseminations

30cm contact zone with coarse garnets; 3-5% py; 1-3% po disseminations; garnets/calcite/epidote bands

basalt; 10% calcite stringers (<1cm) parallel moderate fabric at 35-40 dtca +/- py disseminations/tr po

same

same

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basalt; 10% calcite stringers (<1cm) parallel mod fabric at 35-40 dtca +/- py dissem/tr po
5% brown biotitic bands +/- fine 0.5mm garnets; 0.5% py/po dissem; 1cm patch of magnetite grains

same

10% quartz/calcite stringers (<5mm) at 37 dtca; 1% 1-2mm biotitic streaks with trace to 0.5% fine py dissem

10% biotitic bands (<10cm wide) with trace to 0.5% py dissem

5% quartz/calcite stringers; 5-10% biotitic bands (<1cm) with 0.5% py dissem; trace po

same

5% quartz/calcite stringers are fabric parallel; 10-15% biotitic bands (<10cm) with trace to 0.5% py dissem; py also

15% buff yellow carbonate/sericite alteration; hard;

10% buff yellow carbonate/sericite alteration at 40 dtca; hard

blocky ground with numerous xcutting joints at -55 dtca

f.g.; green; 35 degree fabric

15% quartz/carb/calcite stringer/veinlets at 35 dtca with 0.5% fine py dissem and along xcutting joints

moderately foliated at 35 dtca

15% quartz/calcite stringers at 35-40 dtca; 10% biotitic bands (to 4cm) +/- fine py dissem (5% py in patches)

5% stringers; trace py

10% quartz/calcite stringers (<5cm); 5% biotitic bands (<1cm); trace po on xcutting joints

1-3% calcite stringers parallel fabric at 40 dtca; trace to 0.5% py dissem

1% fabric parallel threads; trace py

DUPLICATE PULP - 00254179

1% fabric parallel threads; trace py

same but coarser; stronger biotite alteration

felsic dyke

basalt; trace py; weak biotite

basalt; trace py; weak biotite

basalt; trace py; weak biotite

70% felsic dyke; 30% basalt

70% felsic dyke; 30% basalt

felsic dyke; 1-3% py dissem

felsic dyke; 1-3% py dissem

basalt with trace py

basalt with trace py

basalt with trace py

quartz vein at 20 dtca with adjacent epidote/carb altrn; one patch of pink garnets; 0.5% fine py dissem at vein conta

basalt; biotitic streaks; tr py along xcutting calcite joints/fractures at -50 dtca

basalt; biotitic streaks; tr py along xcutting calcite joints/fractures at -50 dtca

basalt; biotitic streaks; tr py along xcutting calcite joints/fractures at -50 dtca

pillowed basalt; garnet/carbonate altrn; 1-2% py dissem

basalt

STANDARD - CDN-GS-9B

basalt

quartz vein at <20 dtca; 1-2% fine py at vein contacts

basalt

basalt

basalt

f.g. banded basalt at 40 dtca; patches of garnets; trace epidote; trace py/po

variable fabric from 45-65 dtca; shear zone?

f.g. green basalt; trace py/<po

f.g. green basalt; trace py/<po

as above with 5% biotite bands (<0.5cm) +/- py/trace po

as above with 5% biotite bands (<0.5cm) +/- py/trace po

as above with 5% biotite bands (<0.5cm) +/- py/trace po

pillow basalt; 5% biotitic bands (<0.5cm) with very fine po dissem; 5% epidote/carb altered patches; irregular calcite

same; one irregular 10cm qtz vein along core with 1-3% po/2-3%py and trace cp; 10% biotitic bands with 0.5% po d patches of carb/epidote alteration (<2%); 5% biotitic bands with fine po dissemin (0.5%); 1-3mm py blebs/splashes or 5% biotitic bands; <0.5% fine po

20% white quartz/minor carb stringers (3-6mm) parallel the fabric at 40 dtca; up to 1% po/trace py/trace cp in the st 65% tuff/35% basalt at 40 dtca; 1-2% fine po dissemin in weakly biotitic tuff; 5% biotitic bands in the basalt; (tuff at 14 60% basalt/40% tuff; 40% biotitic bands (<1cm) in host; <5% minor quartz/epidote/garnet veinlets; weak biotite alter

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basalt; f.g.; green; 5% biotitic bands; 1% quartz/carb stringers +/-py/po; 50 degree fabric with xcutting joints at -45 d same

same

basalt; 35% dark greenish brown biotitic bands; weak biotitic tuff band at 150-150.35m with 37/50 degree contact; 2

basalt; 5% quartz veinlets with trace cp/py; 0.5% fine po in host

base of flow?; coarser crystalline texture; 10% biotitic bands (<2cm) with 0.5% fine po/py dissemin

felsic dyke; 0.5% po dissemin; trace py as fine dissemin

pillowed basalt; one 10cm quartz/epidote/garnet vein (barren looking); 0.5% py dissemin in host

pillowed basalt; 35% biotitic bands (<1cm) with very fine po/<py dissemin (0.5-1%)

pillowed basalt; dark brown to green; 35% biotitic bands (<2cm); 10% white to pale green carb (<calcite) stringers (- felsic dyke; 0.5% po; <py; biotite alteration of host at upper contact with increased po/py dissemin

basalt; 25% biotitic bands; minor quartz/epidote/garnets veinlets with trace py/po dissemin; one py thread at 50 dtca s

basalt; 15% buff to light green bleached quartz/epidote/garnet veinlets (barren looking); 1-3% thin calcite threads/s

basalt; 15% calcite +/-quartz stringers/veinlets (<2cm) but barren looking; 15-20% biotitic bands (<1cm) with trace tr basalt; same; mostly calcite stringers/threads; 10% biotitic bands; trace to 0.5% py/po as fine dissemin

basalt with 5% quartz/epidote/garnet stringers (<1cm) with minor 1mm py dissemin; wispy calcite threads; dark green

basalt; as above; 5-8% quartz/epidote/garnet veinlets with trace py; one 2cm pink quartz veinlet at 37 dtca with trac

basalt; dark green chlorite alteration; 10% biotitic alteration; chalco thread associated with 5mm quartz/epidote/garr

basalt; chlorite/biotite alteration; amygds; 10-15% quartz/epidote/garnet veinlets with trace 1mm py/<po dissemin; 1% p

DUPLICATE PULP - 00254239

basalt; dark brownish green with pervasive biotite/chlorite alteration; 5% 2cm quartz/epidote/garnet veinlets with tra

basalt; 20% biotitic bands (to 10cm); 5% epidote/garnet veinlets with trace cp/py as 0.5mm dissemin; 0.5-1% py thre

basalt; 80% biotite alteration with 1-2% fine py wisps (<1mm) and fine dissemin; tr cp/po/py adjacent to 2cm quartz/ej 15% biotite bands with fine py dissemin; trace cp/py in 5cm zone of epidote/garnet veinlets

basalt; 3% veinletss with trace cp and 0.5% fine py

basalt; more massive f.g. trace py

joints/fractures (-50 to -55 dtca); 2-3% py disseminations; minor cubic py grains; quite hard; more siliceous

fabric at 50 dtca with adjacent coarser py; 5% disseminations py

mass of amphiboles; weak fabric at 45-50 dtca; 15% grey to red quartz/siderite? veinlets (1-13cm); 44.2m with epidote

trace sphalerite

streaks/splashes on fabric planes; trace py/cp disseminations in fabric parallel quartz threads/stringers (1%; <5mm)

on xcutting calcite joints/fractures at -55 dtca

cts

stringers (selvages?); tr py

dissem

1 fracture surfaces; trace cp on 2mm quartz/carb thread at 50 dtca

rings; 1-2% biotitic bands; blocky ground with xcutting joints at -47 to -65 dtca
5-145.6m)

ration of tuff with 1% fine po dissem (146.1-146.6m)

ltca; slightly blocky

!-5% py dissem/streaks in host; 0.5% fine po in tuff band

<1cm) along fabric; very fine po (<0.5%) and trace py

sub parallel the fabric at 45 dtca

weats'; 40% biotitic bands containing 1-2% fine py; <po dissem
o 0.5% very fine po dissem; 10cm mafic dyke at 176.5m

to brownish green chlorite/bio alteration with fine 0.5-1% fine po/<py dissem; 1 cm xcutting quartz veinlet at -22 dtca;
e cp

ret veinlet; trace to 1% fine py threads along fabric at 50 dtca
y threads/seams parallel fabric at 50 dtca

ce 1mm py grains; 1-2% fine py threads/dissemin; 0.5% po dissem in biotitic bands; dark grey 1cm magnetite band at
ads/<po dissem in biotitic bands
pidote/garnet veinlet

↗pink calcite in 13 cm vein

a at 184.1m with coarser py/po dissem

t 195.45m

Report Number: A19-12329

Date: 16/10/2019

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm
Detection Limit	0.3	0.01	3	7	1	2	0.01	0.3
Analysis Method	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP

00254175	0.4	7.08	< 3	92	< 1	2	6.13	1
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Co ppm 1 TD-ICP	Cr ppm 1 TD-ICP	Cu ppm 1 TD-ICP	Fe % 0.01 TD-ICP	Ga ppm 1 TD-ICP	Hg ppm 1 TD-ICP	K % 0.01 TD-ICP	Mg % 0.01 TD-ICP	Li ppm 1 TD-ICP	Mn ppm 1 TD-ICP
51	103	136	12.1	21	2	0.75	2.85	21	2280

Mo ppm 1 TD-ICP	Na % 0.01 TD-ICP	Ni ppm 1 TD-ICP	P % 0.001 TD-ICP	Pb ppm 3 TD-ICP	Sb ppm 5 TD-ICP	S % 0.01 TD-ICP	Sc ppm 4 TD-ICP	Sr ppm 1 TD-ICP	Te ppm 2 TD-ICP
11	1.7	69	0.044	< 3	< 5	0.74	41	79	13

Ti	Tl	U	V	W	Y	Zn	Zr
%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
0.01	5	10	2	5	1	1	5
TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
0.75	< 5	< 10	292	< 5	28	132	72

Core Box Tagging BTU-19-02

Box #	From	To	Interval
1	17.8	21.9	4.1
2	21.9	26.3	4.4
3	26.3	30.2	3.9
4	30.2	34.6	4.4
5	34.6	38.9	4.3
6	38.9	43.1	4.2
7	43.1	47.5	4.4
8	47.5	51.8	4.3
9	51.8	56.3	4.5
10	56.3	60.6	4.3
11	60.6	64.9	4.3
12	64.9	69.3	4.4
13	69.3	73.5	4.2
14	73.5	77.6	4.1 block error corrected at 74m; carried up hole
15	77.6	81.8	4.2
16	81.8	86.0	4.2
17	86.0	90.4	4.4
18	90.4	94.5	4.1
19	94.5	98.9	4.4 blocky error 92-95m 4.2m of core not 3m; carried down hole
20	98.9	103.1	4.2
21	103.1	107.5	4.4
22	107.5	110.7	3.2
23	110.7	116.1	5.4
24	116.1	120.3	4.2
25	120.3	124.8	4.5
26	124.8	129.1	4.3
27	129.1	133.4	4.3
28	133.4	137.7	4.3
29	137.7	141.2	3.5
30	141.2	145.4	4.2
31	145.4	149.6	4.2
32	149.6	153.7	4.1
33	153.7	158.1	4.4
34	158.1	162.3	4.2
35	162.3	166.7	4.4
36	166.7	171.1	4.4
37	171.1	175.5	4.4
38	175.5	179.9	4.4
39	179.9	184.2	4.3
40	184.2	188.6	4.4
41	188.6	192.9	4.3
42	192.9	197.4	4.5
43	197.4	201.6	4.2
44	201.6	204.0	2.4

EOH

Point Data BTU-19-02

Depth	Type	Measurement	Comments	
21.5	JC	-50		F-foliation
26.6	F	35		Ft-fault
27.2	F	37		V-vein
29.6	F	45		J-joint
31.6	JC	-50		JQ-quartz f
36.6	JC	-50		JC-calcite f
36.8	F	40		C-contact
41	F	50		BD-bedding
42	JC	-53		BN-banding
44.2	V	40		S-slip
44.4	F	37		B-blocky gr
46.5	BN	45		Sh-shear z
51	BD	42		
53.2	BD	35		
58.8	F	40		
64.6	F	37		
69	F	40		
71.5	F	40		
75	BD	37		
76.3	F	40		
77.1	JC	-45		
78.7	JC	-45		
82.8	F	37		
86.5	F	37		
88	JC	-50		
91	JC	-55		
92	F	40		
95	F	35		
95.2	JC	-55		
99.5	JC	-55		
103	F	40		
105.2	C	40		
106.5	C	35		
107	F	35		
109.7	C	40		
110.2	C	43		
110.5	C	40		
111	C	42		
111.4	C	40		
113.1	C	37		
114	F	40		
115.2	J	-50		
119.5	F	35		
125	BN	40		
127	JC	-50		
129.3	V	-10		
132.5	F	37		
133.6	F	45		
133.9	F	65	shear zone?	
134.5	F	60	shear zone?	
136	F	45		

140.8	F	45	
141	JC	-50	EOH TO DATE... drill broke down
142	F	53	
142.7	JC	-40	
145	C	35	
145.5	F	40	tuff
146.6	C	45	
147	F	45	
149.8	JC	-42	thin wispy xcutting calcite joints/threads
150	C	37	thin band of foliated tuff
150.4	C	50	
150.7	F	50	
153.6	C	45	
154.6	V	45	irreg quartz/carb veinlet; trace py/cp
154.8	J	-45	
156	F	50	
157.2	C	53	
157.7	JC	-47	
158	F	45	
159	F	50	
161.2	C	50	
161.9	C	47	felsic dyke
162.6	V	32	barren quartz/carb/epidote/garnet vein
164.5	F	43	
164.8	JC	-47	
168	F	45	
168.5	C	47	felsic dyke
168.9	C	42	
171.2	F	40	
174.5	F	43	
176.5	C	37	10cm v.f.g. mafic dyke
183	JC	-45	
187	F	55	
192	F	50	
192.4	J	-37	2mm chlorite filled
194.6	JC	-42	2mm calcite crystals
198	F	55	
200.5	C	47	flow top breccia contact

illed
illed

3
3

round
one

SURVEY DATA	
DDH	BTU-19-03
Page	1 of 1
Project	Dixie Lake
Date Drilled	August 3 - August 4, 2019
Date Logged	August 5 - August 8, 2019
Geologist/Geotech	C.St.Louis
Core Diameter	BQW
Storage Location	Esker Logging
Contractor	M3 Drilling
Collar Azimuth/Dip	000/-45
EOH(m)	206.5
Overburden (m)	2.5
Casing	removed
Artesian Water	none

UTM Projection

NAD 83

UTM Zone

15

Collar Locations		Claim Cell Number	Provincial cell grid number
Approximate Coordinates (hand-held GPS)			
Easting (m)	Northing (m)		
457670	5631321	198305	52K13A004

Coordinates (differential GPS) Not Taken

Easting (m) Northing (m) Elevation (m)

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Survey Data			Uncorrected	Adjusted	Magnetic
Surv. No.	Dist from collar	hole dip	hole azimuth	hole azimuth	Field
1	0				
2	8	-45.7	358.8		58327
3	17	-45.4	358.2		57360
4	26	-45.5	358.4		57167
5	35	-44.8	358.4		57102
6	44	-44.5	358.7		57004
7	53	-44.1	358.9		56892
8	62	-43.7	358.9		56886
9	71	-43.2	359		56747
10	80	-42.5	358.9		56669
11	89	-42	358.7		57057
12	98	-41.2	358.6		56562
13	107	-40.5	358		56468
14	116	-39.6	358.3		57004
15	125	-38.8	358.6		56592
16	134	-37.8	12.1	359.5	59344
17	143	-37.1	359.2		56181
18	152	-36.1	359.6		56228
19	161	-35.5	359.9		56159
20	170	-34.6	359.4		56428
21	179	-33.6	1.2		56952
22	188	-32.6	355.5	0.6	56812
23	197	-31.6	0		56736
24	206	-30.7	0.7		56299

GEOLOGY LOG					Project	Dixie Lake														
DDH	BTU-19-03				Date Drilled	August 3 - August 4, 2019					EOH	206.5								
Page	1 of 1				Date Logged	August 5 - August 8, 2019					Comments									
					Geologist	C.St.Louis														
Depth					"Alteration,(0 to 5), sulphides as %															
From	To	width	Lithology	Description	Quartz/Silicification	Sericite	Chlorite	Fe-carbonate	Calcite	Biotite	Actinolite	Garnet	Other:	Pyrrhotite (%)	Pyrite (%)	Sphalerite (%)	Chalcopyrite (%)			
0.00	2.50	2.50	Overburden	one 15 cm granite cobble																
2.50	32.95	30.45	Hornblendite?	coarse grained; medium to dark green; non-magnetic; pervasive chlorite/actinolite alteration of remnant 1cm phenocrysts; dark green smooth serpentine/chlorite matrix with minor white plagioclase?; weak fabric at 30-35 dtca resulting in augen like appearance; locally shallower chloritic/<calcite slips at 15-20 dtca +/- sulphides (<.5%); overall trace py/po/cp dissem on slips/fracture planes; xcutting calcite +/-quartz/py joints/threads every 1-1.5m at -50 dtca			2				2		0							
32.95	33.80	0.85	Diorite dyke	f.g.; medium brown biotitic with 1-2% wispy calcite threads along moderate fabric at 32 dtca; 0.5 % py dissem and as splashes/smears on fracture planes; sharp contacts (45/30) parallel overall fabric			1		0	2										
33.80	46.80	13.00	Hornblendite?	same; c.g.; non-magnetic; weaker sulphides; blocky ground 33.8-38.0m due to increased shallower chloritic slips at 5-20 dtca subparallel fabric at 30-35 dtca; 43.5-46.8m increase in biotite alteration ; 1-3% xcutting calcite filled joints/fractures at -50 dtca; 46.1m 10cm xcutting mafic dyke at -30 dtca			3		0	1	2			0.2	0.3					
46.80	47.70	0.90	Mafic dyke	same unit as dyke at 46.1m?; fg; dark brownish green; biotite/chlorite alteration; 3-10% opaque white flecks - leucoxene?; minor wispy calcite threads; trace po/py dissem (<0.5mm); pervasive fabric at 35 dtca			1			2				0.2	0.2					

		47.70	50.90	3.20	Hornblendite?	back into c.g. unit with chlorite/biotite alteration; trace py/cp along shallow calcite stringers; more massive looking			2		2	1				0.1	0.3			
		50.90	53.00	2.10	Mafic dyke	similar to 46.8-47.7m; medium to dark brownish green; weak internal fabric at 35 dtca; up to 0.5% py/po dissem in lower half			1		2					0.2	0.3			
		53.00	73.90	20.90	Hornblendite?	same; 53.0-53.9m coarse grained unit with chlorite/biotite alteration; dark green amphiboles up to 1cm in size; grey green to greenish white plagioclase? in matrix; 0.5-1% py dissem; up to 2% in patches; trace po dissem; trace cp; 71.5 -72.0m possible mafic dyke; gradational looking upper contact but sharp lower contact at 45 dtca or chill contact between intrusives?			2		0	1				0.2	0.5		0.1	
		73.90	74.30	0.40	Mafic dyke	f.g. medium greenish brown; biotitic; 2.5cm quartz veinlet at 55 dtca at upper contact; 32 deg lower contact; blocky ground														
		74.30	75.50	1.20	Hornblendite?	coarse grained 1cm amphiboles in 30-35% white plagioclase? matrix; more massive looking; 0.5% 1mm irregular py disseminations			1		0	1					0.5			
		75.50	77.00	1.50	Mafic dyke	f.g. brownish green; (brown when dry); non-magnetic; weak fabric 30-35 dtca; 1-2% random calcite stringers; upper contact 68 dtca; ragged lower contact approx 30 dtca; trace fine py dissem					2						0.2			
		77.00	86.30	9.30	Hornblendite?	c.g. unit as above but with moderate to strong pervasive fabric at 30-35 dtca; white plagioclase? matrix decreasing downhole; 0.5% py/po as fine to ragged 1mm dissem; non-magnetic; 0.4m finer grained sheared chill zone? at 25-37 dtca; 79.1-79.6m shear zone; strong fabric at 25-33 dtca with more banded appearance			2		0	2								
		86.30	106.30	20.00	Altered Gabbro?	m.g.; non-magnetic; dark green to dark brownish green (wet); more banded looking with a blue grey green cast when dry; harder than above; pervasive moderate to strong fabric at 30-35 dtca xcut by 1mm calcite joints/threads at -45 to -60 dtca; also shallow calcite/biotitic seams sub parallel to fabric at 20 dtca; 0.5-1% py and po as irregular ragged dissem up to 2mm; trace cp; trace magnetite with calcite stringers; rare quartz/epidote veinlets along fabric but barren looking; 20cm 'shear zone?' lower contact	0		2		1	2				0.3	0.3		0.1	
		106.30	111.00	4.70	Altrd Gabbro?	similar to above but with increasing magnetite content and strongly magnetic in sections; 106.3-111.0m more typical blue grey green when dry; dark green wet; trace weak biotite alteration; weaker pervasive fabric 30-35 dtca; 1-3% calcite/<quartz threads parallel fabric; xcutting calcite joints/threads at -47 dtca at 5-25cm spacing throughout; 0.5-1% fine po/py dissem	0		2		0	1	1			0.5	0.3			

			111.00	117.40	6.40	Magnetic Altrd Gabbro	same unit but 35% much finer and chloritic; moderate to strongly magnetic associated with zones of 5-10% 0.5-2mm magnetite grains; locally cubic looking; stronger pervasive fabric at 30 dtca; stronger localized biotite alteration; 2-5% po dissem/irregular threads often with magnetite;	0	3			2	1					3.0	0.5					
			117.40	129.00	11.60	Altered Gabbro?	similar to 106.3-111.0m; weakly magnetic in patches with 1% fine magnetite grains; minor xcutting calcite joints/threads +/- adjacent fine magnetite at 10-50cm spacing; patches of po/py; one 5cm zone of calcite/<quartz veinlets at 28 dtca with 2-5% as fine to 2mm silver grains at the top of a possible shear zone at 125.2-125.7m	0	2			0							0.5	0.2		0.1		
			129.00	139.00	10.00	Gabbro	f.g. to m.g. grain with 1-3mm feldspars in harder patches; 1-3% very fine to 1mm pinkish red garnets; quite hard; minor quartz veinlets (<1cm) parallel to moderate to strong fabric at 35-40 dtca; trace patches of fine magnetite in weakly magnetic patches ; trace po/py dissem overall	0	2			1		1					0.2	0.1				
			139.00	151.20	12.20	Mafic dyke?	or tuffaceous seds?? f.g. medium brownish grey; weak to moderate pervasive fabric at 35 dtca; biotitic alteration; sharp upper contact at 35 dtca parallel fabric; xcutting hairline calcite joints/threads at -47 dtca; trace po as fine dissem; trace py associated with some 3-5mm biotitic bands; 149.2-149.6m coarser; greener more like fine grained version of unit below (dyke?);					2		2						0.1	0.1			
			151.20	158.20	7.00	Gabbro	m.g. to c.g. chlorite/actinolite gabbro; augen looking with rounded crystals up to 1cm wide; non-magnetic; moderate pervasive fabric at 35 dtca but also with wavy chloritic slips at 15-20 dtca; minor xcutting calcite joints/threads at -45 dtca; trace po/py as irregular blebs in proximity to quartz/calcite stringers; again with very fine black patches (up to 5%) but not magnetic (ilmenite? or de-magnetized magnetite?) 151.2-151.7m shear zone; stronger fabric at 25 dtca with 10% calcite stringers; 157.8-158.2m shear zone; finer; more chloritic; stronger irregular fabric with 10cm irregular biotitic band; minor py/po blebs in calcite stringers					2		0	0	3					0.1	0.1		

		1.0						

Samples BTU-19-03

Au (g/t)

Sample#	From	To	Width	Au		Description
				ppb	g/tonne	
00254247	9	10	1	5		trace po associated with shallow chloritic slips
00254248	10	11	1	<5		trace po/py/cp dissem and on fracture planes
00254249	14	15	1	6		trace to <0.5% py/po dissem; one rusty calcite stringer at -23 dca
00254250	19	20	1	6		trace po/py/cp dissem and on fracture planes
00254251	24	25	1	9		trace cp/py on fabric planes; py also associated with calcite joints/threads
00254252	29	30	1	7		trace py in fabric; po on fracture planes
00254253	32	32.95	0.95	6		0.5% py/<po; weak biotitic alteration
00254254	32.95	33.3	0.85	7		mafic dyke with fine po dissem; biotitic
00254255	33.8	34.9	1.1	10		increase in chloritic slips; trace to <0.5% py dissem/cpo
00254256	34.9	36	1.1	8		increase in chloritic slips; trace to <0.5% py dissem/cpo
00254257	38.5	39.2	0.7	8		trace cp/py dissem and along chloritic slips
00254258	47.7	49	1.3	8		c.g. unit with biotite/chlorite alteration; trace pv/cp along slips/fractures
00254259	52	53	1	7		mafic dyke; biotitic; 0.5% py/po dissem
00254260				1030		STANDARD - CDN-GS-1W
00254261	53	53.9	0.9	6		c.g. unit with biotite/chlorite alteration; trace py/cp along slips/fractures; 1-3% calcite stringers/joints
00254262	58.4	59.4	1	10		0.5% total sulphides (pv/po/cp) associated with chloritic/carb slips/threads at 10 dca
00254263	60.25	61.25	1	7		up to 10% carb threads/stringers +/-pink hematite?; more random orientations; 0.5% py dissem
00254264	61.25	62.25	1	9		same; more carb alteration; 0.5-1% pv dissem; trace fine po
00254265	65	66	1	6		c.g. unit; more pervasive carb alteration in matrix; 1% py; 0.5% fine po; trace cp dissem
00254266	71	72	1	8		finer darker green; dyke? loss of carb in matrix several calcite joints/stringers at -57 dca; 1-2% py dissem;
00254267	74.3	75.3	1	9		more massive looking; 0.5% py; trace po dissem
00254268	79	80	1	8		strong fabric; shear zone; up to 1% py/po dissem; trace cp
00254269	83	84	1	9		weaker fabric at 35 dca; 0.5% py/po dissem up to 3% in patches
00254270	87.1	88.15	1.05	7		stronger fabric; more biotitic; 20cm zone of minor quartz stringers with adjacent epidote/carb alteration; barren looking but fine pv/po in host to 0.5%
00254271	90	91	1	7		patches of 2-5% py/po as 1-2mm dissem; trace cp
00254272	97	98	1	7		1-2% py/po dissem; slightly stronger biotite alteration along fabric
00254273	99.1	100.25	1.15	10		same; trace magnetite in one 5mm calcite stringer along the fabric
00254274	101.95	103	1.05	8		pervasive fabric; biotitic; 1-2% py/po dissem
00254275	106.3	107	0.7	45		weakly magnetic; weak biotite alteration; fine po dissem
00254276	107	107.8	0.8	13		chlorite/biotite alteration; minor po dissem
00254277	107.8	108.5	0.7	10		chlorite/biotite alteration; minor po dissem
00254278	108.5	109.2	0.7	12		chlorite/biotite alteration; minor po dissem
00254279	109.2	110.3	1.1	33		fine; more chloritic; 3-5% calcite stringers/veinlets
00254280				10		BLANK
00254281	110.3	111	0.7	8		coarser; minor po; trace cp
00254282	111	112.1	1.1	<5		magnetite starting; <1% magnetite grains with minor po dissem
00254283	112.1	113	0.9	<5		5-10% coarse 1-3mm magnetite grains; strongly magnetic; up to 1% po; trace py
00254284	113	113.9	0.9	<5		similar; 3-5% magnetite; minor po; trace py
00254285	113.9	114.8	0.9	<5		dark green; 1-2% magnetite; possible leucowene
00254286	114.8	115.75	0.85	<5		5-10% coarse 1-3mm magnetite grains; strongly magnetic; up to 1% po; trace py
00254287	115.75	116.55	0.8	<5		2-5% finer magnetite; more chloritic; 1-2% fine po
00254288	116.55	117.4	0.85	<5		finer grained; more chloritic with biotitic patches; 2-5% mt; 1% fine po
00254289	117.4	118.4	1	<5		back into coarser unit; 1-3% fine py dissem/threads; 1-2% magnetite in patches; moderately magnetic
00254290	118.4	119.5	1.1	<5		same with stronger fabric at 35 dca; 2-3% magnetite with <1% po; minor py
00254291	119.5	120.6	1.1	<5		much harder; greener; up to 1% magnetite in patches with trace po; possible leucowene
00254292	122.6	123.7	1.1	<5		finer; more chloritic; hard; weakly magnetic with minor fine po
00254293	123.7	124.8	1.1	5		moderate pervasive fabric at 35 dca; 0.5-1% po dissem/threads; black 2-3% non-magnetic ilmenite/de-magnetized magnetite?
00254294	124.8	125.8	1	82		1-2mm irregular aspy grains (5% over 3cm) adjacent to calcite/quartz stringers in weak shear zone; po/py/ilmenite? (2/1/5%) in adjacent weakly magnetic chloritic host;
00254295	125.8	127	1.2	6		f.g. chloritic; hard; 1-3% fine po dissem; 3-8% ilmenite?; trace py
00254296	129	130	1	<5		coarser; moderate fabric at 37 dca with rare 4mm quartz stringer; moderately magnetic in one 15cm band with 3% magnetite; introduction of fine pinkish red garnets (0.5mm)
00254297	134	135	1	<5		f.g. to m.g.; weakly magnetic chloritic bands with up to .5% magnetite; 2-5% ilmenite?; garnets/plaq porphs
00254298	137	138	1	5		coarser plagioclase rich unit; trace magnetite; weakly magnetic; weak biotite alteration
00254299	139	140	1	<5		f.g. mafic dyke; 0.5% fine po dissem
00254300				<5		DUPLICATE - PULP 00254299
00254301	143	144	1	<5		f.g. biotite/chloritic dyke or fine tuffaceous sed? trace fine py
00254302	146	147	1	<5		f.g. biotite/chloritic dyke or fine tuffaceous sed? trace fine py
00254303	150.2	151.2	1	6		f.g. biotite/chloritic dyke or fine tuffaceous sed? trace fine py
00254304	151.2	152	0.8	13		upper contact shear zone in gabbro; 0.5% irreg po/py blebs/threads in 10% calcite/quartz stringers
00254305	157.5	158.2	0.7	6		lower contact shear zone in gabbro; 0.5% irreg po/py blebs/threads; possible very fine black ilmenite; one irregular 15cm biotitic band
00254306	158.2	159.2	1	6		plaq. gabbro; 10% chloritic bands with fine pv/po; one 5cm band with magnetite
00254307	160.8	161.95	1.15	<5		40% weak to strongly magnetic chloritic bands with 1-5% magnetite grains; 0.5% py/po dissem
00254308	166	167	1	<5		25% mod-strongly magnetic chloritic bands with up to 5% fine magnetite grains;
00254309	168.4	169.4	1	7		10-15% waxy chloritic bands (<1cm) at 35 dca; minor po in chloritic bands
00254310	173	173.7	0.7	5		finer; more chloritic; stronger fabric; up to 0.5% py dissem and minor po along fabric
00254311	173.7	174.4	0.7	5		finer; more chloritic; stronger fabric; up to 0.5% py dissem and minor po along fabric; several hairline chlorite/calcite/cpy slips at 15-25 dca
00254312	174.4	175.4	1	<5		shear zone; distinct zone of stronger fabric; 1-2% py dissem/splashes on fabric planes; fine garnets
00254313	177	178	1	6		well foliated leuco gabbro; minor py dissem and rarely as fabric parallel threads
00254314	179	179.5	0.5	1800		same unit with 3cm buff grey quartz veinlet at 35 dca but not fabric parallel with up to 5% fine aspy in veinlet and coarser grains adjacent to veinlet in host; one 2mm quartz stringer parallel to fabric with coarse aspy grains as well
00254315	181	182	1	7		40% more chloritic bands (<2cm) with very fine py/po (up to 1%); fine magnetite grains in some (<.3%); py also as 2-5mm splashes on fracture planes
00254316	186	187	1	<5		40% chloritic bands; minor buff yellow green sericite/epidote seams? with very fine po/pv and trace magnetite;
00254317	187	187.5	0.5	108		same; one 1cm calcite/chlorite-quartz veinlet at 23 dca (NE sub vertical) with fine to 2mm irregular grains of aspy; 3cm adjacent zone of up to 10% py threads parallel fabric
00254318	187.5	188.25	0.75	5		25% chloritic bands (<1cm) with fine pv/po dissem
00254319	191.8	192.8	1	<5		more chloritic overall with greenish buff bands (<5mm) with sericite/epidote?; 0.5-1% fine py/<po and py as 2-5mm splashes on fracture planes
00254320				>5000	9.1	STANDARD - CDN-GS-9B
00254321	197	198	1	6		coarser grained; 10% wispy chloritic bands with 1-2% fine po; py dissem
00254322	200	201	1	<5		same; 5% calcite veinlets up to 10cm; fine po/py dissem up to 1%
00254323	201	202	1	<5		same
00254324	202	203	1	<5		dark green; f.g. 1-2% very fine po dissem; py on fracture planes; 15cm mafic dyke? at 202.6m
00254325	205	205.75	0.75	<5		coarser; patches of yellow green epidote/carbonate alteration; 0.5-1% dissem; 0.5% py
00254326	205.75	206.5	0.75	46		same; pervasive fabric a bit steeper at 43 dca;

EOH	
76	#core samples
4	#QA/QC
80	Total #samples
	72.15 metres sampled
	34.94 % sampled

ICP BTU-19-03

Report Number: A19-11462

Report Date: 23/9/2019

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	0.2	0.5	1	5	1	1	2
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
254247	5	< 0.2	< 0.5	100	631	< 1	106	< 2
254248	< 5	< 0.2	< 0.5	91	623	< 1	121	< 2
254249	6	0.2	< 0.5	121	616	< 1	137	4
254250	6	< 0.2	< 0.5	123	670	< 1	111	< 2
254251	9	< 0.2	< 0.5	146	618	< 1	158	< 2
254252	7	< 0.2	< 0.5	71	656	< 1	179	< 2
254253	6	< 0.2	< 0.5	103	630	< 1	180	< 2
254254	7	< 0.2	< 0.5	71	750	< 1	26	< 2
254255	10	< 0.2	< 0.5	96	682	< 1	166	< 2
254256	8	< 0.2	< 0.5	95	655	< 1	156	< 2
254257	8	< 0.2	< 0.5	160	695	< 1	145	< 2
254258	8	< 0.2	< 0.5	160	679	< 1	114	< 2
254259	7	< 0.2	< 0.5	72	848	< 1	50	2
254260	1030							
254261	6	< 0.2	< 0.5	152	646	< 1	63	< 2
254262	10	< 0.2	< 0.5	138	535	< 1	53	< 2
254263	7	< 0.2	< 0.5	192	565	< 1	45	< 2
254264	9	< 0.2	< 0.5	233	726	< 1	54	< 2
254265	6	< 0.2	0.5	261	602	< 1	50	< 2
254266	8	< 0.2	< 0.5	193	720	< 1	44	< 2
254267	9	< 0.2	< 0.5	247	682	< 1	39	< 2
254268	8	< 0.2	0.6	187	698	< 1	21	< 2
254269	9	< 0.2	< 0.5	200	682	< 1	16	< 2
254270	7	< 0.2	< 0.5	70	607	< 1	11	< 2
254271	7	< 0.2	< 0.5	35	631	< 1	7	< 2
254272	7	< 0.2	< 0.5	60	716	< 1	4	< 2
254273	10	< 0.2	< 0.5	66	661	< 1	4	< 2
254274	8	< 0.2	< 0.5	32	722	< 1	4	< 2
254275	45	< 0.2	< 0.5	66	773	< 1	3	< 2
254276	13	< 0.2	< 0.5	66	852	< 1	1	< 2
254277	10	< 0.2	< 0.5	20	781	< 1	2	< 2
254278	12	< 0.2	< 0.5	21	685	< 1	< 1	< 2
254279	33	< 0.2	< 0.5	32	966	< 1	1	< 2
254280	10	< 0.2	< 0.5	1	108	< 1	1	< 2
254281	8	< 0.2	< 0.5	16	1000	< 1	3	< 2
254282	< 5	< 0.2	< 0.5	15	972	< 1	< 1	< 2
254283	< 5	< 0.2	< 0.5	68	1060	< 1	< 1	< 2
254284	< 5	< 0.2	< 0.5	14	1390	1	2	3
254285	< 5	< 0.2	< 0.5	13	1210	< 1	2	3
254286	< 5	< 0.2	< 0.5	40	1320	1	2	< 2
254287	< 5	< 0.2	< 0.5	44	1250	< 1	3	< 2
254288	< 5	< 0.2	< 0.5	46	1430	< 1	< 1	2
254289	< 5	< 0.2	< 0.5	41	1340	< 1	3	2
254290	< 5	< 0.2	< 0.5	24	1250	< 1	< 1	< 2
254291	< 5	< 0.2	0.6	36	1270	< 1	< 1	< 2
254292	< 5	< 0.2	< 0.5	36	823	< 1	2	< 2

254293	5	< 0.2	< 0.5	35	973	< 1	2	3
254294	82	< 0.2	< 0.5	37	995	< 1	2	3
254295	6	< 0.2	< 0.5	28	1080	< 1	2	3
254296	< 5	< 0.2	< 0.5	8	940	< 1	1	2
254297	< 5	< 0.2	< 0.5	20	1160	< 1	1	< 2
254298	5	< 0.2	< 0.5	7	1110	< 1	2	< 2
254299	< 5	< 0.2	< 0.5	58	419	< 1	34	< 2
254300	< 5	< 0.2	< 0.5	59	427	< 1	33	< 2
254301	< 5	< 0.2	< 0.5	28	432	< 1	39	< 2
254302	< 5	< 0.2	< 0.5	10	405	< 1	44	< 2
254303	6	< 0.2	< 0.5	39	436	< 1	38	< 2
254304	13	< 0.2	< 0.5	130	803	< 1	33	< 2
254305	6	< 0.2	< 0.5	40	825	< 1	10	< 2
254306	6	< 0.2	< 0.5	28	1110	< 1	1	< 2
254307	< 5	< 0.2	< 0.5	34	1080	< 1	1	< 2
254308	< 5	< 0.2	< 0.5	29	1140	< 1	< 1	< 2
254309	7	< 0.2	< 0.5	24	1100	< 1	3	< 2
254310	5	< 0.2	< 0.5	32	917	< 1	1	< 2
254311	5	< 0.2	< 0.5	58	786	< 1	< 1	< 2
254312	< 5	< 0.2	< 0.5	31	1160	< 1	< 1	< 2
254313	6	< 0.2	< 0.5	10	1490	2	1	< 2
254314	1800	< 0.2	< 0.5	12	1190	2	< 1	< 2
254315	7	< 0.2	< 0.5	8	1230	< 1	2	< 2
254316	< 5	< 0.2	< 0.5	26	1090	< 1	2	< 2
254317	108	< 0.2	< 0.5	36	1110	< 1	2	< 2
254318	5	< 0.2	< 0.5	7	1170	< 1	< 1	< 2
254319	< 5	< 0.2	< 0.5	28	938	< 1	3	< 2
254320	> 5000							
254321	6	< 0.2	< 0.5	56	1000	< 1	2	< 2
254322	< 5	< 0.2	< 0.5	46	1000	< 1	< 1	< 2
254323	< 5	< 0.2	< 0.5	36	908	< 1	2	< 2
254324	< 5	< 0.2	< 0.5	36	787	< 1	7	< 2
254325	< 5	< 0.2	< 0.5	33	683	< 1	2	< 2
254326	46	< 0.2	< 0.5	36	727	< 1	3	< 2

Zn ppm 2 AR-ICP	Al % 0.01 AR-ICP	As ppm 2 AR-ICP	B ppm 10 AR-ICP	Ba ppm 10 AR-ICP	Be ppm 0.5 AR-ICP	Bi ppm 2 AR-ICP	Ca % 0.01 AR-ICP	Co ppm 1 AR-ICP	Cr ppm 1 AR-ICP
53	3.05	< 2	< 10	43	< 0.5	< 2	2.09	43	70
58	3.07	3	< 10	38	< 0.5	< 2	1.86	44	43
62	3.12	3	< 10	24	< 0.5	< 2	1.65	49	63
64	3.24	< 2	< 10	40	< 0.5	< 2	1.99	42	67
54	3.55	3	< 10	26	< 0.5	< 2	1.57	52	76
53	3.75	2	< 10	21	< 0.5	< 2	1.68	53	43
50	3.69	< 2	< 10	153	< 0.5	< 2	1.6	55	64
77	2.93	< 2	< 10	498	< 0.5	< 2	2.68	20	114
53	3.83	< 2	< 10	99	< 0.5	< 2	1.88	53	67
55	3.58	< 2	< 10	39	< 0.5	< 2	1.68	50	65
59	3.75	< 2	< 10	16	< 0.5	< 2	2.1	49	65
55	4.2	< 2	< 10	131	< 0.5	< 2	2.59	46	134
70	3.09	< 2	< 10	546	0.5	< 2	3.67	26	138
61	2.92	< 2	< 10	168	< 0.5	< 2	3.49	32	163
47	2.54	< 2	< 10	12	< 0.5	< 2	3	26	151
45	2.34	< 2	< 10	11	< 0.5	< 2	3.34	27	124
61	2.4	< 2	< 10	14	< 0.5	< 2	3.96	34	126
59	2.41	< 2	< 10	27	< 0.5	< 2	3.31	33	77
69	2.86	< 2	< 10	59	< 0.5	< 2	3.53	40	55
54	2.59	< 2	< 10	114	< 0.5	< 2	3.75	38	20
70	2.87	< 2	< 10	25	< 0.5	< 2	3.45	33	2
62	2.75	< 2	< 10	51	< 0.5	< 2	3.13	35	< 1
53	2.81	< 2	< 10	111	< 0.5	< 2	3.64	32	< 1
56	2.58	< 2	< 10	30	< 0.5	< 2	3.13	27	< 1
54	2.66	< 2	< 10	47	< 0.5	< 2	3.05	29	< 1
59	2.64	< 2	< 10	41	< 0.5	< 2	3.14	30	< 1
65	2.61	< 2	< 10	99	< 0.5	< 2	3.38	26	< 1
62	2.34	< 2	< 10	117	< 0.5	< 2	3.65	32	< 1
58	2.15	< 2	< 10	95	< 0.5	2	4.13	27	< 1
53	2.47	< 2	< 10	106	< 0.5	< 2	3.81	23	< 1
41	2.35	< 2	< 10	34	< 0.5	< 2	4.16	15	< 1
56	2.37	3	< 10	99	< 0.5	< 2	5.21	22	< 1
3	0.02	< 2	< 10	12	< 0.5	< 2	> 10.0	< 1	< 1
50	2.54	3	< 10	150	0.5	< 2	4.88	19	1
44	1.79	< 2	< 10	72	0.7	< 2	4.17	15	< 1
76	2.59	4	< 10	39	0.9	< 2	3.39	23	< 1
73	3.05	3	< 10	58	0.7	< 2	4.62	16	< 1
53	2.31	< 2	< 10	46	0.9	< 2	4.3	14	< 1
76	2.54	3	< 10	45	0.8	< 2	3.49	20	< 1
83	2.7	3	< 10	79	0.9	< 2	3.55	20	10
94	2.85	8	< 10	64	0.9	< 2	3.54	21	< 1
93	2.71	< 2	< 10	80	1	< 2	4.42	16	< 1
96	2	< 2	< 10	68	1	< 2	4.3	10	< 1
148	2.01	< 2	< 10	43	1.1	< 2	3.51	10	< 1
77	2.5	< 2	< 10	18	< 0.5	< 2	2.97	24	< 1

62	2.46	4	< 10	21	< 0.5	< 2	3.69	23	< 1
105	2.44	652	< 10	94	< 0.5	< 2	3.76	21	2
99	2.81	< 2	< 10	58	0.8	< 2	3.17	12	< 1
99	2.43	< 2	< 10	38	0.9	< 2	2.66	7	< 1
123	3.06	2	< 10	131	1.2	< 2	2.96	9	< 1
120	2.62	< 2	< 10	88	1.6	< 2	2.56	2	< 1
51	1.9	< 2	< 10	258	< 0.5	< 2	0.97	15	34
52	1.93	< 2	< 10	261	< 0.5	< 2	0.99	15	34
54	2.04	< 2	< 10	176	< 0.5	< 2	1.49	16	35
42	1.9	< 2	< 10	143	< 0.5	< 2	1.14	16	47
58	1.8	< 2	< 10	150	< 0.5	< 2	1.16	16	31
73	2.76	< 2	< 10	110	< 0.5	< 2	3.6	28	42
87	2.46	3	< 10	254	0.6	< 2	3.17	23	54
138	2.43	3	< 10	18	0.6	< 2	3.87	20	< 1
100	2.99	2	< 10	111	0.8	< 2	3.01	20	< 1
111	2.78	2	< 10	47	0.9	< 2	3.48	13	< 1
89	2.59	< 2	< 10	86	0.8	< 2	3.24	17	11
82	2.76	7	< 10	86	0.6	< 2	3.31	29	< 1
68	2.36	4	< 10	81	< 0.5	< 2	3.41	28	< 1
104	2.93	4	< 10	70	0.9	< 2	3.83	17	< 1
138	2.57	< 2	< 10	132	1.2	< 2	3.98	2	< 1
136	2.03	3860	< 10	217	1.2	< 2	3.26	6	< 1
140	2.7	5	< 10	77	1.3	< 2	3.21	6	< 1
111	2.6	< 2	< 10	80	0.7	2	3.13	18	< 1
103	2.49	717	< 10	138	0.8	< 2	3.57	19	< 1
103	2.34	3	< 10	35	1	< 2	3.24	7	< 1
80	2.65	3	< 10	134	0.9	< 2	3.09	18	8
73	2.38	4	< 10	60	0.6	< 2	3.4	25	< 1
73	2.43	< 2	< 10	37	< 0.5	< 2	3.92	26	< 1
76	2.63	< 2	< 10	21	0.6	< 2	3.03	24	< 1
72	2.63	4	< 10	89	0.5	< 2	2.93	22	17
74	2.64	4	< 10	51	< 0.5	< 2	2.95	21	< 1
72	2.5	3	< 10	47	< 0.5	< 2	2.98	20	< 1

Fe % 0.01 AR-ICP	Ga ppm 10 AR-ICP	Hg ppm 1 AR-ICP	K % 0.01 AR-ICP	La ppm 10 AR-ICP	Mg % 0.01 AR-ICP	Na % 0.001 AR-ICP	P % 0.001 AR-ICP	S % 0.01 AR-ICP	Sb ppm 2 AR-ICP
5.79	< 10	< 1	0.18	< 10	2.81	0.212	0.042	0.08	3
5.89	< 10	3	0.16	< 10	2.89	0.201	0.043	0.08	< 2
5.73	< 10	2	0.1	< 10	3.06	0.167	0.037	0.08	< 2
5.91	< 10	3	0.15	< 10	2.96	0.228	0.04	0.06	< 2
6.28	< 10	1	0.1	< 10	3.62	0.144	0.031	0.04	< 2
6.12	< 10	1	0.09	< 10	3.9	0.15	0.023	0.03	< 2
6.35	< 10	< 1	0.63	< 10	3.79	0.144	0.026	0.06	3
4.86	10	3	2.18	28	2.6	0.108	0.096	0.06	< 2
6.62	< 10	< 1	0.38	< 10	3.92	0.153	0.026	0.03	3
6.11	< 10	2	0.16	< 10	3.58	0.156	0.026	0.03	< 2
6.11	< 10	< 1	0.08	< 10	3.44	0.189	0.026	0.06	< 2
6.28	< 10	2	1.28	< 10	3	0.378	0.026	0.1	2
5.64	10	< 1	2.5	36	2.89	0.125	0.216	0.14	2
5.22	< 10	3	0.81	< 10	2.52	0.224	0.057	0.07	3
4.59	< 10	< 1	0.07	< 10	2.17	0.247	0.029	0.04	2
4.48	< 10	1	0.07	< 10	1.75	0.238	0.029	0.08	< 2
5.63	< 10	1	0.1	< 10	2.05	0.19	0.028	0.12	3
5.72	< 10	< 1	0.15	< 10	1.76	0.286	0.032	0.17	< 2
7.83	< 10	2	0.27	< 10	2.04	0.347	0.031	0.2	2
6.52	< 10	< 1	0.49	< 10	1.79	0.309	0.04	0.24	2
6.59	< 10	< 1	0.17	< 10	1.68	0.375	0.041	0.11	3
6.79	< 10	1	0.25	< 10	1.56	0.383	0.056	0.21	2
6.42	10	< 1	0.5	< 10	1.5	0.302	0.043	0.19	< 2
6.04	< 10	2	0.18	< 10	1.52	0.358	0.045	0.1	3
6.2	10	< 1	0.24	< 10	1.36	0.379	0.054	0.17	2
6.37	10	2	0.2	< 10	1.34	0.329	0.06	0.23	< 2
6.22	10	< 1	0.33	< 10	1.38	0.349	0.062	0.14	2
7.31	10	< 1	0.65	< 10	1.16	0.261	0.077	0.94	3
6.9	10	< 1	0.43	< 10	1.06	0.262	0.075	0.92	< 2
6.87	10	< 1	0.32	< 10	1.04	0.361	0.088	0.34	2
6.47	10	2	0.19	< 10	0.91	0.346	0.106	0.14	< 2
7.08	10	< 1	0.36	< 10	1.04	0.286	0.105	0.36	< 2
0.1	< 10	< 1	< 0.01	< 10	1.21	0.02	0.007	< 0.01	< 2
7.66	10	1	0.52	18	1.09	0.349	0.105	0.07	2
7.49	10	< 1	0.2	17	0.68	0.294	0.18	0.12	2
10.7	10	< 1	0.15	20	0.77	0.408	0.321	0.43	2
9.48	20	< 1	0.18	23	0.92	0.456	0.247	0.07	4
7.44	10	< 1	0.15	20	0.8	0.408	0.227	0.06	2
9.14	10	< 1	0.16	19	0.73	0.429	0.348	0.16	3
9	10	< 1	0.28	24	0.82	0.419	0.336	0.19	2
11	20	< 1	0.25	18	0.81	0.453	0.364	0.21	3
9.12	20	< 1	0.22	15	0.86	0.459	0.401	0.19	4
6.6	10	< 1	0.14	17	0.65	0.376	0.287	0.09	2
6.75	10	2	0.12	12	0.66	0.378	0.219	0.09	< 2
6.95	10	1	0.11	< 10	1.22	0.388	0.095	0.18	< 2

7.06	10	2	0.12	< 10	1.07	0.397	0.11	0.16	3
7.26	10	< 1	0.15	10	1.29	0.36	0.145	0.18	3
8.16	10	< 1	0.17	19	0.74	0.426	0.307	0.13	< 2
6.58	20	< 1	0.14	15	0.76	0.392	0.177	0.04	2
9.23	20	< 1	0.32	19	0.64	0.422	0.227	0.09	4
7.48	20	< 1	0.24	28	0.46	0.378	0.103	0.03	4
3.08	< 10	< 1	0.81	18	1.4	0.224	0.048	< 0.01	< 2
3.13	< 10	< 1	0.83	18	1.42	0.229	0.049	< 0.01	< 2
3.08	< 10	< 1	0.74	16	1.42	0.26	0.055	< 0.01	< 2
3.02	< 10	< 1	0.71	17	1.54	0.196	0.051	< 0.01	< 2
3.24	< 10	< 1	0.62	16	1.52	0.188	0.056	< 0.01	< 2
6.37	10	< 1	0.38	< 10	1.72	0.314	0.075	0.08	3
6.65	10	< 1	0.6	18	1.27	0.307	0.154	0.14	3
7.51	10	< 1	0.14	11	0.9	0.418	0.113	0.16	3
9.49	20	< 1	0.24	15	0.77	0.442	0.185	0.22	2
8.67	20	< 1	0.21	17	0.81	0.454	0.296	0.17	3
7.82	10	3	0.3	18	0.89	0.422	0.173	0.14	3
8.5	10	2	0.42	11	1.32	0.418	0.112	0.1	< 2
7.18	10	2	0.37	13	1.02	0.343	0.107	0.12	2
8.99	20	1	0.35	16	0.91	0.441	0.226	0.14	< 2
7.48	20	2	0.25	23	0.23	0.39	0.105	0.05	2
6.86	20	< 1	0.38	22	0.31	0.346	0.113	0.39	2
8.47	20	1	0.21	22	0.42	0.466	0.167	0.12	3
8.63	10	2	0.21	14	0.69	0.423	0.177	0.24	3
8.4	10	< 1	0.27	16	0.62	0.416	0.197	0.36	< 2
7.19	20	< 1	0.16	21	0.48	0.423	0.178	0.09	< 2
8.44	10	3	0.45	17	0.79	0.382	0.344	0.18	3
7.72	10	< 1	0.15	14	0.85	0.407	0.131	0.29	< 2
7.59	10	< 1	0.13	12	1.09	0.407	0.108	0.25	< 2
7.57	10	< 1	0.14	13	1.27	0.384	0.097	0.22	< 2
6.68	10	< 1	0.32	11	1.33	0.367	0.117	0.2	< 2
5.89	10	1	0.24	< 10	1.1	0.327	0.077	0.06	2
5.77	10	< 1	0.19	< 10	1.06	0.34	0.073	0.08	3

Sc ppm 1 AR-ICP	Sr ppm 1 AR-ICP	Ti % 0.01 AR-ICP	Th ppm 20 AR-ICP	Te ppm 1 AR-ICP	Tl ppm 2 AR-ICP	U ppm 10 AR-ICP	V ppm 1 AR-ICP	W ppm 10 AR-ICP	Y ppm 1 AR-ICP
9	21	0.18	< 20	< 1	< 2	< 10	90	< 10	8
9	12	0.18	< 20	5	< 2	< 10	92	< 10	8
6	11	0.15	< 20	4	< 2	< 10	69	< 10	6
8	15	0.18	< 20	< 1	< 2	< 10	82	< 10	7
6	10	0.15	< 20	2	< 2	< 10	62	< 10	5
5	16	0.16	< 20	4	< 2	< 10	54	< 10	4
5	13	0.19	< 20	2	< 2	< 10	59	< 10	5
11	32	0.27	< 20	3	< 2	< 10	125	< 10	27
6	16	0.18	< 20	2	< 2	< 10	68	< 10	5
5	13	0.16	< 20	< 1	< 2	< 10	57	< 10	5
5	25	0.18	< 20	< 1	< 2	< 10	60	< 10	5
8	64	0.26	< 20	3	< 2	< 10	84	< 10	5
13	123	0.33	< 20	3	< 2	< 10	152	< 10	14
17	36	0.26	< 20	7	< 2	< 10	122	< 10	8
17	16	0.25	< 20	4	< 2	< 10	133	< 10	7
17	22	0.25	< 20	< 1	< 2	< 10	158	< 10	6
18	26	0.21	< 20	< 1	< 2	< 10	195	< 10	6
20	19	0.28	< 20	< 1	< 2	< 10	289	< 10	7
25	14	0.28	< 20	5	< 2	< 10	471	< 10	8
21	33	0.33	< 20	5	< 2	< 10	333	< 10	8
22	19	0.3	< 20	4	< 2	< 10	322	< 10	8
21	16	0.27	< 20	2	< 2	< 10	307	< 10	11
20	43	0.3	< 20	2	< 2	< 10	250	< 10	10
18	16	0.29	< 20	< 1	< 2	< 10	226	< 10	10
19	18	0.27	< 20	4	< 2	< 10	158	< 10	13
20	15	0.27	< 20	4	< 2	< 10	141	< 10	14
19	14	0.25	< 20	2	< 2	< 10	128	< 10	15
19	20	0.26	< 20	< 1	< 2	< 10	75	< 10	20
17	21	0.24	< 20	6	< 2	< 10	60	< 10	20
19	25	0.23	< 20	6	< 2	< 10	60	< 10	21
17	35	0.24	< 20	2	< 2	< 10	54	< 10	22
19	45	0.23	< 20	2	< 2	< 10	49	< 10	23
< 1	52	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	2
20	45	0.26	< 20	3	< 2	< 10	57	< 10	23
20	41	0.16	< 20	5	< 2	< 10	7	< 10	37
19	19	0.14	< 20	< 1	< 2	< 10	4	< 10	42
19	31	0.16	< 20	3	< 2	< 10	6	< 10	44
19	37	0.16	< 20	4	< 2	< 10	6	< 10	42
18	24	0.15	< 20	< 1	< 2	< 10	4	< 10	48
19	23	0.14	< 20	< 1	< 2	< 10	13	< 10	46
17	18	0.15	< 20	3	< 2	< 10	4	< 10	48
16	31	0.14	< 20	< 1	< 2	< 10	4	< 10	55
18	39	0.17	< 20	3	< 2	< 10	4	< 10	49
16	26	0.17	< 20	5	< 2	< 10	3	< 10	50
19	13	0.21	< 20	2	< 2	< 10	54	< 10	21

19	24	0.22	< 20	< 1	< 2	< 10	44	< 10	23
18	24	0.15	< 20	1	< 2	< 10	47	< 10	27
16	20	0.14	< 20	3	< 2	< 10	3	< 10	42
14	15	0.15	< 20	< 1	< 2	< 10	2	< 10	50
13	22	0.16	< 20	2	< 2	< 10	2	< 10	49
14	22	0.16	< 20	6	< 2	< 10	2	< 10	63
7	20	0.21	< 20	4	< 2	< 10	75	< 10	8
8	21	0.21	< 20	< 1	< 2	< 10	75	< 10	9
7	32	0.21	< 20	4	< 2	< 10	78	< 10	7
7	18	0.19	< 20	2	< 2	< 10	74	< 10	7
6	17	0.2	< 20	2	< 2	< 10	75	< 10	6
19	21	0.24	< 20	4	< 2	< 10	152	< 10	19
16	26	0.19	< 20	< 1	< 2	< 10	70	< 10	21
22	32	0.23	< 20	1	< 2	< 10	36	< 10	32
15	16	0.16	< 20	5	< 2	< 10	4	< 10	40
21	25	0.15	< 20	< 1	< 2	< 10	4	< 10	49
20	29	0.17	< 20	5	< 2	< 10	11	< 10	39
23	23	0.24	< 20	2	< 2	< 10	48	< 10	28
22	30	0.23	< 20	3	< 2	< 10	62	< 10	27
20	31	0.16	< 20	4	< 2	< 10	28	< 10	40
13	38	0.17	< 20	< 1	< 2	< 10	2	< 10	54
15	39	0.1	< 20	1	< 2	< 10	3	< 10	55
16	23	0.14	< 20	4	< 2	< 10	2	< 10	53
19	22	0.17	< 20	3	< 2	< 10	12	< 10	37
16	32	0.11	< 20	< 1	< 2	< 10	6	< 10	40
19	36	0.16	< 20	3	< 2	< 10	3	< 10	50
14	25	0.14	< 20	6	< 2	< 10	13	< 10	44
22	28	0.2	< 20	1	< 2	< 10	18	< 10	31
24	33	0.22	< 20	< 1	< 2	< 10	60	< 10	27
23	15	0.22	< 20	1	< 2	< 10	62	< 10	32
20	18	0.23	< 20	5	< 2	< 10	75	< 10	24
17	17	0.26	< 20	3	< 2	< 10	74	< 10	16
17	16	0.23	< 20	4	< 2	< 10	74	< 10	17

Zr	Au
ppm	g/tonne
1	0.03
AR-ICP	FA-GRA
3	
3	
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Core Box Tagging BTU-19-03

Box #	From	To	Interval	
1		2.5	6.7	4.2
2		6.7	11	4.3
3		11	15.3	4.3
4		15.3	19.6	4.3
5		19.6	23.9	4.3
6		23.9	28.2	4.3
7		28.2	32.5	4.3
8		32.5	36.8	4.3
9		36.8	40.9	4.1
10		40.9	45.3	4.4
11		45.3	49.7	4.4
12		49.7	53.9	4.2
13		53.9	58.3	4.4
14		58.3	62.7	4.4
15		62.7	67.1	4.4
16		67.1	71.5	4.4
17		71.5	75.8	4.3
18		75.8	80.1	4.3
19		80.1	84.5	4.4
20		84.5	89	4.5
21		89	93.3	4.3
22		93.3	97.7	4.4
23		97.7	101.9	4.2
24		101.9	106.3	4.4
25		106.3	110.6	4.3
26		110.6	114.8	4.2
27		114.8	119	4.2
28		119	123.5	4.5
29		123.5	127.9	4.4
30		127.9	132.1	4.2
31		132.1	136.5	4.4
32		136.5	140.9	4.4
33		140.9	145.3	4.4
34		145.3	149.6	4.3
35		149.6	153.9	4.3
36		153.9	158.1	4.2
37		158.1	162.5	4.4
38		162.5	167	4.5
39		167	171.3	4.3
40		171.3	175.8	4.5
41		175.8	180.1	4.3
42		180.1	184.8	4.7
43		184.8	189	4.2
44		189	193.3	4.3
45		193.3	197.6	4.3
46		197.6	201.9	4.3
47		201.9	206.2	4.3
48		206.2	206.5	0.3

EOH

WHOLE ROCK SAMPLING BTU-19-03

Sample #	from (m)	to (m)	comments
C0000501	15.5	17	c.g. altered gabbro/pyroxenite?
C0000502	49.4	49.4	same with increase biotite alteration
C0000503	69.3	69.5	c.g unit; pervasive plagioclase? in matrix
C0000504	119.5	119.7	moderately foliated altered gabbro?
C0000505	128	128.2	moderately foliated altered gabbro?
C0000506	144.15	144.35	mafic dyke?/tuffaceous seds?

Report Number: A19-10170

Report Date: 23/8/2019

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.2	0.5	1	5	1	1	2	2
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
C0000501	< 0.2	< 0.5	128	615	< 1	149	< 2	61
C0000502	< 0.2	< 0.5	136	593	< 1	94	< 2	57
C0000503	< 0.2	< 0.5	234	548	< 1	43	< 2	60
C0000504	< 0.2	0.7	38	1390	< 1	4	< 2	219
C0000505	< 0.2	< 0.5	4	750	< 1	5	< 2	89

Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe
%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%
0.01	2	10	10	0.5	2	0.01	1	1	0.01
AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
3.48	< 2	< 10	40	< 0.5	< 2	1.88	51	34	6.46
3.66	4	< 10	144	< 0.5	< 2	2.56	39	90	5.5
2.49	< 2	< 10	39	< 0.5	3	3.05	32	47	5.51
2.18	< 2	< 10	21	1.2	< 2	4.42	10	2	6.86
2.43	< 2	< 10	15	0.8	< 2	2.91	10	< 1	6.43

Ga ppm	Hg ppm	K %	La ppm	Mg %	Na %	P %	S %	Sb ppm	Sc ppm
10	1	0.01	10	0.01	0.001	0.001	0.01	2	1
AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
< 10	1	0.17	< 10	3.47	0.2	0.047	0.1	2	7
< 10	< 1	1.24	< 10	2.45	0.386	0.025	0.1	< 2	9
< 10	< 1	0.2	< 10	1.62	0.34	0.03	0.15	< 2	19
10	< 1	0.13	15	0.72	0.407	0.213	0.07	2	21
20	< 1	0.12	16	1.05	0.42	0.298	0.01	3	19

Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
1	0.01	20	1	2	10	1	10	1	1
AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
10	0.16	< 20	< 1	< 2	< 10	67	< 10	8	2
58	0.33	< 20	2	< 2	< 10	130	< 10	4	2
24	0.28	< 20	1	< 2	< 10	316	< 10	7	4
35	0.16	< 20	< 1	< 2	< 10	3	< 10	58	4
12	0.13	< 20	< 1	< 2	< 10	3	< 10	52	3

SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5
%	%	%	%	%	%	%	%	%	%
0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01
FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP
44.85	12.99	17.1	0.212	11.38	9.12	1.3	0.28	1.102	0.1
46.77	15.76	13.63	0.176	7.63	10.39	2.11	1.61	1.07	0.06
46.12	13.87	16.51	0.184	6.33	11.46	2.15	0.34	2.106	0.08
56.27	11.09	14.14	0.316	1.6	8.42	3.82	0.2	1.609	0.5
55.64	11.56	16.74	0.283	3.41	6.6	3.41	0.18	1.658	0.67

LOI %	Total %	Ba ppm	Sr ppm	Y ppm	Sc ppm	Zr ppm	Be ppm	V ppm
GRAV	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP
2.33	100.8	61	110	16	27	57	< 1	185
1.08	100.3	215	288	10	34	34	< 1	301
0.93	100.1	68	186	14	53	47	< 1	701
1.97	99.94	42	105	80	31	280	2	9
0.02	100.2	36	147	71	31	255	1	6

Point Data BTU-19-03

Depth	Type	Measurement	Comments
6.00	F	30	weak fabric
7.70	JC	-50	1mm
10.00	S	10	chloritic slip along core
11.30	JC	-50	1-2mm
12.90	JC	-50	same
14.70	JC	23	rusty calcite stringer
16.30	S	17	2mm chloritic slip
17.20	JC	-50	3/10cm
20.40	F	35	
22.50	S	10	chloritic slip along core with cp/py/po dissem
23.20	S	10	same; trace py; very wk adj bio altrn
24.20	JC	-57	xcutting 1mm calcite
26.00	S	12	chloritic
27.30	JC	-55	3/20cm
27.50	S	10	chloritic
28.30	JC	-55	2/10cm
29.00	F	32	
29.40	JC	-50	4/25cm
30.50	S	5	blocky ground due to fabric and sips
32.20	JC	-60	6/25cm
32.95	C	45	upper contact of dyke
33.50	F	32	mod fabric within dyke
33.80	C	30	lower contact of dyke
34.40	S	15	more frequent chloritic slips; causing blocky ground 34-38m;
34.90	S	15	more frequent chloritic slips; causing blocky ground 34-38m;
35.80	S	15	more frequent chloritic slips; causing blocky ground 34-38m;
36.70	S	15	more frequent chloritic slips; causing blocky ground 34-38m;
37.50	S	15	more frequent chloritic slips; causing blocky ground 34-38m;
38.30	JC	-53	calcite joints/strs increasing in frequency 3-40cm spacing from 38-47
39.70	JC	-60	17/1.2m
40.50	S	5	chloritic slips along core
41.80	JC	-60	5/20cm
42.70	S	10	chloritic slip
45.50	JC	-50	10/1.4m
46.80	C	30	dyke upper contact
49.90	JC	-55	6/20cm at dyke contact
47.70	F	35	mod fabric within dyke
47.70	C	30	dyke lower contact
50.50	F	35	weaker pervasive fabric
50.90	C	37	upper contact of dyke
52.20	F	45	weaker pervasive fabric
53.00	C	30	lower contact of dyke
54.50	JC	-55	15/1.0m; 1mm calcite joints/threads with 1-3mm adjacent alteration
55.30	S	10	chloritic slips along core with calcite
55.70	S	5	same
57.20	S	5	same
59.00	S	10	same; minor py/po/tr cp
61.30	JC	-55	increase in number of joints/strs with stronger adj altrn from 60-64m
63.50	F	35	
66.20	S	10	chloritic slip
66.70	S	10	chloritic slip

67.30	JC	-50	6/60cm
67.90	S	10	chloritic slip
68.80	S	10	same; wavy; minor py
70.80	S	8	same; wavy; minor py
71.40	JC	-57	13/40cm; 1-2mm altrn rims
72.00	C	45	
73.90	V	55	2.5cm qtz vlt at upper contact of dyke
74.30	C	32	lower contact of dyke
75.30	C	68	upper contact of dyke
77.00	C	30	ragged lower contact
77.50	JC	45	5/15cm
79.20	SH	20	shear zone
80.30	JC	45	10/100CM
80.80	F	37	
86.00	JC	50	6/20CM
86.30	C	37	0.4m chill margin contact?; finer grained; 25 deg lower contact
88.00	V	23	minor qtz strs with adj epi/carb altrn; barren looking
89.40	F	37	
91.50	JC	50	6/100CM
94.30	F	33	
99.60	JC	50	7/100CM
103.00	F	32	
106.30	SH	32	narrow shear zone 20cm wide marking change in mineralization
107.20	JC	-47	4/20cm
108.00	F	30	
116.00	F	30	
120.40	JC	-50	5/40cm
122.50	F	35	
125.20	SH	28	125.2-125.5m weak shrz with vlts and coarse aspy over 3cm
127.40	JQ	-45	10mm qtz str with py/po parallel calcite joints/threads
128.40	JC	-45	4/20cm
129.00	F	37	
134.50	F	33	
139.00	C	35	upper contact of dyke
140.50	JC	-47	8/90CM
142.00	JC	-45	7/50cm
144.40	JC	-50	11/50cm
147.20	F	35	
151.20	C	25	sheared contact zone
155.50	F	40	
157.80	C	37	sheared contact zone
161.50	F	30	
169.20	SH	35	narrow shear zone 169-169.4m
175.00	SH	38	shear zone 174.6-175.4m
178.00	F	35	
179.10	V	35	3cm quartz veinlet with aspy; 315/90?; one 2mm quartz thread with 1
182.00	F	35	
187.40	V	25	1cm calcite/chlorite/quartz veinlet with aspy; 045/90?
182.40	B	35	start of blocky ground 182-185m
185.00	B	35	end of blocky ground
192.60	F	37	191.8-192.8m shear zone; f.g. chloritic strong fabric; one 10cm biotiti
195.00	F	35	
202.60	C	45	15cm dyke 45/40 degree contacts
206.00	F	43	

F-foliation
Ft-fault
V-vein
J-joint
JQ-quartz filled
JC-calcite filled
C-contact
BD-bedding
BN-banding
S-slip
B-blocky ground
Sh-shear zone

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1 mm aspy grains parallel fabric as well

ic band

SURVEY DATA	
DDH	BTU-19-04
Page	1 of 1
Project	Dixie Lake
Date Drilled	August 5 - August 7, 2019
Date Logged	August 8 - August 11, 2019
Geologist/Geotech	CAS
Core Diameter	BQW
Storage Location	Esker Logging
Contractor	M3 Drilling
Collar Azimuth/Dip	000/-45
EOH(m)	230
Overburden (m)	9.2
Casing	removed
Artesian Water	none

UTM Projection

NAD 83

UTM Zone

15

Collar Locations			Claim Cell Number	Provincial cell grid number
Approximate Coordinates (hand-held GPS)				
Easting (m)	Northing (m)	Elevation (m)		
458494	5631064		217081	52K13A006

Coordinates (differential GPS) Not Taken

Easting (m) Northing (m) Elevation (m)

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Survey Data			Uncorrected	Adjusted	Magnetic
Surv. No.	Dist from collar	hole dip	hole azimuth	hole azimuth	Field
1	0				
2	8	-45.3	2.5		57487
3	17	-44.9	2.8		57130
4	26	-44.3	3		57059
5	35	-43.8	3.3		57039
6	44	-43.2	3.3		57035
7	53	-42.8	3.3		57021
8	62	-42.4	3.6		57030
9	71	-42.2	4.1		57077
10	80	-41.7	4.7		57077
11	89	-41.2	5		57029
12	98	-40.4	5.1		57193
13	107	-39.8	5.8		57015
14	116	-39.3	6		56978
15	125	-38.8	7.1		57990
16	134	-38	7.1		57123
17	143	-37.1	7.2		57173
18	152	-36.1	7.1		57020
19	161	-35.5	6.9		56902
20	170	-34.5	7.9		56711
21	179	-33.7	5.5		56867
22	188	-32.9	7.6		57089
23	197	-32	8.3		57420
24	206	-30.9	6.7		57351
25	215	-30.1	7.7		56789
26	224	-29.1	7.2		57228

27

233

-35.2

358.8

7,2

89080

Samples BTU-19-04

Sample#	From	To	Width	Au		Description	Au (g/t)
				ppb	g/tonne		
				FA-AA	FA-GRA		
00254327	9.2	10	0.8	68		chlorite/carb altered volcanics	
00254328	10	11	1	7		chlorite/carb altered volcanics: 1-2% coarser py disseminated along calcite carb veinlets at 20 dtca	
00254329	11	12	1	5		chlorite/carb altered volcanics: 1-2% coarser py disseminated along calcite carb veinlets at 20 dtca	
00254330	12	13	1	5		chlorite/carb altered volcanics: 1-2% coarser py disseminated along calcite carb veinlets at 20 dtca	
00254331	13	14	1	<5		chlorite/carb altered volcanics: blocky ground; minor rust; trace py disse	
00254332	14	15	1	<5		chlorite/carb altered volcanics; trace py/po/magnetite along one 5mm calcite/carb veinlet at 20 dtca	
00254333	15	16	1	5		chlorite/carb altered volcanics; trace fine py	
00254334	16	17	1	<5		chlorite/carb altered volcanics; trace fine po/speck of cp	
00254335	17	18.2	1.2	6		same; very blocky ground; rusty; 5% calcite stringers/veinlets at <20 dtca	
00254336	18.2	19.2	1	6		10-15% both calcite and rusty iron carb stringers/veinlets at 10 dtca with bands of pink hematite in host; trace py	
00254337	19.2	20	0.8	9		rusty carb restricted to cutting stringers at -65 to -65 dtca; barren looking	
00254338	20	21.15	1.15	6		30% weakly silicified white carb veinlets at 30 dtca; barren looking	
00254339	21.15	22.3	1.15	<5		30% quartz/carb veinlets up to 3cm wide along core at 10 dtca; barren looking	
00254340				<5		BLANK	
00254341	22.3	23	0.7	<5		5 deformed quartz veinlets within fabric at 10-20 dtca	
00254342	23	23.65	0.65	<5		10cm quartz/carb-/tourmaline vein at 33 dtca subparallel shallower fabric at 10-15 dtca; barren looking	
00254343	23.65	24.65	1	<5		chlorite/carb altered volcanics at 20 dtca	
00254344	24.65	25.3	0.65	<5		30% banded carb-/quartz in fabric 22 dtca	
00254345	25.3	26	0.7	<5		10% banded carb veinlets at 30 dtca; barren looking	
00254346	28	29	1	<5		altered volcanics with 10 cm quartz/carb vein at 25 tca	
00254347	32	33	1	<5		altered volcanics: 5-10% fabric parallel veinlets/stringers at 23dtca; barren looking	
00254348	35	35.6	0.6	<5		25% white quartz/carb veinlets up to 10cm wide; barren looking	
00254349	41.6	42.6	1	8		5% quartz/carb veinlets; barren looking; strong fabric 27 dtca	
00254350	44	44.85	0.85	<5		altered volcanics	
00254351	44.85	45.85	1	<5		35-40% sheared/broken up quartz/carb veinlets up to 5cm; trace fine py disse in the veinlets	
00254352	45.85	46.65	0.8	<5		45-50% sheared/broken up quartz/carb veinlets up to 5cm; trace fine py disse in the veinlets	
00254353	46.65	47.3	0.65	<5		10% veinlets; trace cp along one veinlet	
00254354	47.3	48.25	0.95	<5		30-35% irreg sheared light grey/white quartz/carb veinlets; trace py disse	
00254355	48.25	49.25	1	<5		intense carb altered shear zone at 20 dtca	
00254356	49.25	50.35	1.1	<5		15% deformed/sheared veinlets; barren looking	
00254357	50.35	51.5	1.15	<5		5-10% sheared carb-/quartz veinlets/stringers in sheared basalt at 25 dtca; with trace py disse	
00254358	55	56	1	<5		5-10% calcite stringers/veinlets at 15 dtca; blocky with minor rust along cutting carb stringers at -60 dtca	
00254359	58	59	1	<5		5% wispy rusty carbonate/calcite stringers along strong fabric at 35 dtca; blocky ground	
00254360				<5		DUPLICATE PULP - 00254359	
00254361	63.6	64.6	1	<5		medium green volcanics at 15 dtca; 1-2% wispy calcite; rusty; minor hematite; trace fine py	
00254362	66.95	68	1.05	5		same; 1% 1mm py disse along carbonate veinlets at 15 dtca;	
00254363	68	69.6	1.6	<5		possible tuff?; 1.1m core recovered; very rusty ground water altered zone with shearing down to 0 deg along the core; limonite alteration in rust; minor vts; trace py	
00254364	69.6	70.6	1	24		tuff?; medium grey brown biotitic; strong fabric at 15-20 dtca; 0.5% 1mm py disse; rust with some streaks of red hematite	
00254365	70.6	71.3	0.7	<5		tuff?; medium grey brown biotitic; strong fabric at 15-20 dtca; 0.5% 1mm py disse	
00254366	71.3	72.6	1.3	<5		sheared altered volcanics at 30 dtca; trace py disse	
00254367	72.6	74	1.4	<5		rusty altered volcanics with 5% rusty carb veinlets at 10 dtca; wispy bands of red hematite; trace py	
00254368	76.6	77.4	0.8	<5		5% carb/quartz veinlets at 25 dtca; trace very fine py disse	
00254369	81.2	82.2	1	<5		80% medium grey brown strongly foliated (25 dtca) mafic tuff?/mafic dyke?; sharp contact at 20 dtca; 0.5-1% very fine py disse; fine py on cutting calcite joints/threads at -47 dtca	
00254370	87	88	1	22		altered volcanics (tuff?); 0.5-2% fine py grains along fabric; 3% veinlets	
00254371	92	93	1	<5		50% medium brown biotitic strongly foliated mafic dyke?/tuff?; sharp contacts at 28/34 dtca; up to 1% fine py disse throughout	
00254372	97.4	98.4	1	<5		f.g. dark green; more chloritic; 1-3% py along fabric; 2-3% 0.5-1mm magnetite grains locally;	
00254373	99.4	100.4	1	<5		more chloritic; stronger fabric; 1-2% py disse along fabric; 1cm quartz/tourmaline/chlorite veinlet at 22 dtca at 100.2m	
00254374	101.4	102.4	1	<5		same with up to 5% quartz-/carb veinlets along fabric; 1% py/trace po in host	
00254375	106.4	107.4	1	<5		same; up to 5% in lower part of sample; 1% overall	
00254376	108	109	1	<5		same; 1-2% fine py along fabric and in parallel calcite stringers; pervasive calcite	
00254377	110.8	111.8	1	6		mafic dyke?/tuff?; dark brown biotitic/calcite zone with sharp contacts at 30 dtca; 1-5% py disse throughout	
00254378	114	115	1	<5		f.g. green banded looking with 1-3mm bands of biotite seams and 1-2% quartz/carb stringers at 30 dtca; 0.5-1% py in host; trace po/cp within stringers	
00254379	117	118	1	<5			
00254380				1000		STANDARD CDN-GS-1W	
00254381	119	120	1	<5		same; 0.5% py up to 0.5% 0.5mm magnetite grains in spots; weakly magnetic	
00254382	122.1	123.1	1	<5		one grey 3cm calcite/magnetite band at 27 dtca; up to 1% fine py/0.5% magnetite in well banded host	
00254383	126	127	1	<5		same; 0.5-1% py along fabric; 1% calcite rich bands with fine magnetite at 30 dtca	
00254384	128	129	1	<5		same; 0.5-1% py along fabric;	
00254385	130	131	1	<5		same; 0.5% py up to 0.5-1% 0.5mm magnetite grains in spots; moderately magnetic	
00254386	131	132	1	<5		same; 0.5% py up to 0.5-1% 0.5mm magnetite grains in spots; moderately magnetic	
00254387	132	133	1	<5		same; 0.5% py up to 0.5-1% 0.5mm magnetite grains in spots; moderately magnetic	
00254388	135	136	1	<5		moderate fabric; 0.5% py along fabric and as splashes on fracture planes	
00254389	138	139	1	<5		moderate fabric; 0.5% py along fabric	
00254390	141	142	1	<5		pillowed; strong pervasive fabric at 35-40 dtca; elongated amygdules; cutting hairline calcite stringers at -40 dtca with hematite alteration; 0.5-1% py disse in more chloritic bands	
00254391	142	143	1	<5		pillowed; strong pervasive fabric at 35-40 dtca; elongated amygdules; cutting hairline calcite stringers at -40 dtca with hematite alteration; 0.5-1% py disse in more chloritic bands	
00254392	145	146	1	<5		same; 1-2% fine py in bands of stronger chlorite alteration	
00254393	146	146.7	0.7	<5		30 cm gabroic dyke at 30 dtca with 10cm biotitic alteration of host with 1% py disse/smears on fabric planes	
00254394	148.5	149.5	1	<5		35% brown biotite alteration; 10cm quartz/epidote/calcite veinlet at 149.2m (barren looking); 0.5% py disse in host	
00254395	153	154	1	<5		strong fabric 35 dtca with pervasive chlorite/calcite alteration; fabric parallel 0.5-2% po/py disse and trace cp;	
00254396	154	155	1	<5		strong fabric 35 dtca with pervasive chlorite/calcite alteration; fabric parallel 0.5-2% po/py disse and trace cp;	
00254397	155	156	1	<5		strong fabric 35 dtca with pervasive chlorite/calcite alteration; fabric parallel 0.5-2% po/py disse and trace cp;	
00254398	157	158	1	<5		more chloritic; one 5cm translucent pink quartz veinlet at 40 dtca with minor po/trace cp in adjacent fabric planes	
00254399	160	161	1	<5		chloritic with 5% calcite stringers/veinlets in pervasive 35 deg fabric; 0.5-1% py/cp on fabric planes and disse adjacent calcite stringers	
00254400				<5		BLANK	
00254401	162.4	163.4	1	<5		5-8% calcite stringers with minor epidote parallel strong fabric at 25 dtca; trace to 0.5% po disse with trace cp	
00254402	163.4	164.25	0.85	<5		35 dearee fabric; 0.5% py/po/trace cp along fabric planes and as fine disse	
00254403	164.25	165.1	0.85	<5		20% quartz vts; one 6cm translucent barren looking veinlet at 45 dtca; one 15cm zone of broken up translucent grey quartz vein at 25 dtca bounded by fabric at 50 dtca; also barren looking	
00254404	165.1	166.05	0.95	<5		165.5-165.8m; shear zone at 50 dtca; contorted fabric; one 6cm barren looking quartz veinlet in fabric	
00254405	166.05	167	0.95	<5		coarser 1mm darker green chlorite flecks; weakly magnetic grey calcite/magnetite bands at 35 dtca; minor py/po	
00254406	167	167.7	0.7	<5		15% biotite adjacent to 12cm pinkish grey translucent quartz vein at 42 dtca; minor py/po/trace cp in host as fine disse	
00254407	170	171	1	<5		coarser base of flow?; trace po/cp; less pervasive fabric at 37 dtca	
00254408	172	173	1	6		15% biotitic bands; 1-3% calcite stringers; one 1cm quartz stringer at 37 dtca in pervasive 42 degree fabric	
00254409	175	176	1	<5		1-2% biotitic bands with 10% calcite stringers in strong fabric at 40 dtca; coarser chloritic flecks; 0.5-1% py disse	
00254410	176	177	1	<5		same but weak to moderately magnetic with 1mm threads/seams of very fine magnetite (<0.5%); 0.5% py/po; trace cp	
00254411	178	179	1	5		weakly magnetic but no discernible magnetite; strong fabric at 45 dtca; coarse chlorite flecks	
00254412	181	182	1	6		slightly coarser; 0.5% fine py disse and as 1-5mm splashes on fabric planes	
00254413	185	186	1	<5		10% biotitic bands; 3-5% calcite stringers along 35 dearee fabric; 0.5% po/py disse; trace 1mm cp blebs with po	
00254414	186	186.5	0.5	5		20 cm translucent pale pink quartz vein with minor carbonate at 43/47 dtca; barren looking	
00254415	186.5	187.5	1	<5		strong fabric at 30 dtca; 0.5% py/trace po	
00254416	187.5	188.5	1	<5		35% biotitic bands with up to 5% py disse	
00254417	190.6	191.6	1	<5		15% biotitic bands; 1-3% calcite stringers; 1-5% po/py concentrated in biotitic bands	
00254418	192.8	193.3	0.5	<5		quartz/epidote/calcite veinlets (selvage?) barren looking but adjacent biotite alteration with 2-5% po/py	
00254419	194	195	1	<5		10% biotitic pillow breccia zone; slightly more chloritic; amygdules; 0.5-1% po mostly within biotite	
00254420				<5		DUPLICATE PULP - 00254419	
00254421	196.8	197.8	1	<5		weakly magnetic pillow breccia zone; 0.5% py disse in weakly biotitic bands	
00254422	199	200	1	7		one 2cm quartz veinlet at 40 dtca with up to 35% biotite alteration; pervasive calcite; 0.5% py disse; 'fety' looking brownish green bands	
00254423	202.2	203.2	1	5		more chloritic; weaker calcite; 10% biotite alteration containing up to 1% fine po disse; sharp lower contact at 45 dtca	
00254424	206.4	207.4	1	<5		up to 20% biotitic bands; dark green; very chloritic; 0.5-1% very fine py disse	
00254425	207.4	208.3	0.9	<5		50% biotitic; strong pervasive fabric 40 dtca; 1% fine po/py disse within biotitic bands	
00254426	210.45	211.45	1	<5		mm scale banded looking with 1-2mm calcite threads throughout parallel strong fabric at 48 dtca; trace po disse; rare cp	
00254427	217.55	218.6	1.05	5		25% biotitic zone with up to 1% fine py disse	
00254428	218.6	219.6	1	7		localized grey zones of increased carb alteration; green sections with calcite; 0.5% py	
00254429	219.6	220.45	0.85	7		f.g. green with a couple of quartz veinlets; barren looking	
00254430	220.45	221	0.55	<5		10% quartz+calcite at 45-50 dtca to 1cm wide; 1-2% fine py disse in host and adjacent to veinlets	
00254431	221	221.75	0.75	<5		35-40% white but quartz veinlets at 45-52 dtca; barren looking; trace blades of tourm?; trace to 0.5% very fine py in host	
00254432	221.75	222.9	1.15	<5		1-5% py within 15 cm of above veing; increased in ankerite carb alteration; weak calcite; 5% carb stringers at 45 dtca	
00254433	222.9	223.7	0.8	5		pervasive fabric 32 dtca; one 1cm calcite/py/po rich veinlet at 28 dtca	
00254434	223.7	224.7	1	<5		up to 20% weak biotite alteration with up to 1%po/py disse and in calcite stringers at 30 dtca	
00254435	224.7	225.3	0.6	<5		darker brown; slightly coarser with biotite alteration; minor quartz/epidote stringers at 35 dtca; 2-5% py disse in biotite alteration; 1" chill contact at 28 dtca	
00254436	227.5	228.5	1	6		10% quartz/epidote stringers to 1cm at 35 dtca; trace to 0.5% po/py disse	
		E0H					
#Samples			100.4	metres sampled			
105	#core samples		43.65	% sampled			
5	#QA/QC						
110	Total # of samples						

ICP BTU-19-04

Report Number: A19-11462

Print Date: 23/9/2019

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	0.2	0.5	1	5	1	1	2
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
254327	68	< 0.2	< 0.5	57	1050	< 1	67	< 2
254328	7	< 0.2	< 0.5	114	995	< 1	58	< 2
254329	5	< 0.2	< 0.5	62	1020	< 1	63	< 2
254330	5	< 0.2	< 0.5	69	847	< 1	64	< 2
254331	< 5	< 0.2	< 0.5	75	951	< 1	86	4
254332	< 5	< 0.2	< 0.5	45	983	< 1	62	< 2
254333	5	< 0.2	< 0.5	76	906	< 1	57	7
254334	< 5	< 0.2	< 0.5	43	1030	< 1	57	4
254335	6	< 0.2	< 0.5	44	1010	< 1	60	3
254336	6	< 0.2	< 0.5	64	811	< 1	83	< 2
254337	9	< 0.2	< 0.5	33	655	< 1	61	< 2
254338	6	< 0.2	< 0.5	66	1010	< 1	92	< 2
254339	< 5	< 0.2	< 0.5	24	1070	< 1	65	< 2
254340	< 5	< 0.2	< 0.5	< 1	147	< 1	< 1	< 2
254341	< 5	< 0.2	< 0.5	65	807	< 1	91	< 2
254342	< 5	< 0.2	< 0.5	38	936	< 1	74	< 2
254343	< 5	< 0.2	< 0.5	64	657	< 1	90	< 2
254344	< 5	< 0.2	< 0.5	40	932	< 1	78	< 2
254345	< 5	< 0.2	< 0.5	68	639	< 1	90	< 2
254346	< 5	< 0.2	< 0.5	58	973	< 1	89	< 2
254347	< 5	< 0.2	< 0.5	56	950	< 1	79	< 2
254348	< 5	< 0.2	< 0.5	81	925	< 1	78	< 2
254349	8	< 0.2	< 0.5	83	933	< 1	70	< 2
254350	< 5	< 0.2	< 0.5	45	746	< 1	79	< 2
254351	< 5	< 0.2	< 0.5	19	1360	< 1	60	< 2
254352	< 5	< 0.2	< 0.5	6	1210	< 1	75	< 2
254353	< 5	< 0.2	< 0.5	26	741	< 1	91	< 2
254354	< 5	< 0.2	< 0.5	17	1010	< 1	67	< 2
254355	< 5	< 0.2	< 0.5	11	1550	< 1	45	< 2
254356	< 5	< 0.2	< 0.5	22	893	< 1	94	< 2
254357	< 5	< 0.2	< 0.5	68	782	< 1	98	5
254358	< 5	< 0.2	< 0.5	63	1070	< 1	84	6
254359	< 5	< 0.2	< 0.5	46	864	< 1	92	< 2
254360	< 5	< 0.2	< 0.5	41	850	< 1	94	< 2
254361	< 5	< 0.2	< 0.5	51	750	< 1	49	< 2
254362	5	< 0.2	< 0.5	90	631	< 1	106	< 2
254363	< 5	< 0.2	< 0.5	26	853	< 1	199	3
254364	24	< 0.2	< 0.5	257	735	< 1	117	< 2
254365	< 5	< 0.2	< 0.5	95	718	< 1	96	< 2
254366	< 5	< 0.2	< 0.5	34	978	< 1	51	< 2
254367	< 5	< 0.2	< 0.5	12	692	< 1	41	< 2
254368	< 5	< 0.2	< 0.5	29	946	< 1	116	< 2
254369	< 5	0.4	< 0.5	77	856	< 1	150	6
254370	22	< 0.2	< 0.5	42	946	< 1	26	4
254371	< 5	< 0.2	< 0.5	52	772	< 1	15	2
254372	< 5	< 0.2	< 0.5	118	1900	< 1	111	< 2

254373	< 5	< 0.2	< 0.5	92	1520	< 1	50	< 2
254374	< 5	< 0.2	0.5	99	1340	< 1	42	< 2
254375	< 5	< 0.2	< 0.5	198	1960	< 1	45	3
254376	< 5	< 0.2	< 0.5	223	2510	< 1	43	< 2
254377	6	< 0.2	< 0.5	106	1630	< 1	73	3
254378	< 5	< 0.2	< 0.5	100	1790	< 1	42	< 2
254379	5	< 0.2	< 0.5	149	2240	< 1	56	< 2
254380	1080							
254381	< 5	< 0.2	< 0.5	79	2540	< 1	38	< 2
254382	< 5	< 0.2	< 0.5	146	2180	< 1	46	< 2
254383	< 5	< 0.2	< 0.5	102	1860	< 1	43	2
254384	< 5	< 0.2	< 0.5	89	1620	< 1	40	< 2
254385	< 5	< 0.2	< 0.5	90	2880	< 1	35	< 2
254386	< 5	< 0.2	< 0.5	94	1860	< 1	40	< 2
254387	< 5	< 0.2	< 0.5	105	2070	< 1	43	< 2
254388	< 5	< 0.2	< 0.5	98	1310	< 1	33	< 2
254389	< 5	< 0.2	< 0.5	93	1590	< 1	42	< 2
254390	< 5	< 0.2	< 0.5	183	1480	< 1	38	2
254391	< 5	< 0.2	< 0.5	99	1310	< 1	32	< 2
254392	< 5	< 0.2	< 0.5	128	1410	< 1	39	< 2
254393	< 5	< 0.2	< 0.5	62	1320	< 1	52	< 2
254394	< 5	< 0.2	< 0.5	101	1180	< 1	33	< 2
254395	< 5	< 0.2	< 0.5	106	1440	< 1	41	< 2
254396	< 5	< 0.2	< 0.5	162	1290	< 1	41	< 2
254397	5	< 0.2	< 0.5	141	1670	< 1	37	< 2
254398	< 5	< 0.2	< 0.5	83	1320	< 1	47	< 2
254399	< 5	< 0.2	< 0.5	93	1370	< 1	34	< 2
254400	< 5	< 0.2	< 0.5	2	129	< 1	1	< 2
254401	< 5	< 0.2	< 0.5	77	1470	< 1	37	< 2
254402	< 5	< 0.2	< 0.5	85	1380	< 1	41	< 2
254403	< 5	< 0.2	< 0.5	59	1390	< 1	35	< 2
254404	< 5	< 0.2	< 0.5	54	1420	< 1	118	< 2
254405	< 5	< 0.2	< 0.5	112	1350	< 1	45	< 2
254406	< 5	< 0.2	< 0.5	80	1180	< 1	43	< 2
254407	< 5	< 0.2	< 0.5	89	880	< 1	30	< 2
254408	6	< 0.2	< 0.5	107	1560	< 1	40	< 2
254409	< 5	< 0.2	< 0.5	88	1820	< 1	37	< 2
254410	< 5	< 0.2	< 0.5	87	2140	< 1	39	< 2
254411	5	< 0.2	< 0.5	93	1670	< 1	42	< 2
254412	6	< 0.2	< 0.5	124	1040	< 1	36	< 2
254413	< 5	< 0.2	< 0.5	76	1680	< 1	29	< 2
254414	5	< 0.2	< 0.5	71	1810	< 1	27	< 2
254415	< 5	< 0.2	< 0.5	79	1890	< 1	33	< 2
254416	< 5	< 0.2	< 0.5	128	1670	< 1	34	< 2
254417	< 5	< 0.2	< 0.5	147	1510	< 1	39	< 2
254418	< 5	< 0.2	< 0.5	120	1220	< 1	33	< 2
254419	< 5	< 0.2	< 0.5	230	1870	< 1	42	< 2
254420	< 5	< 0.2	< 0.5	137	1890	< 1	42	< 2
254421	< 5	< 0.2	< 0.5	116	2000	< 1	42	< 2
254422	7	< 0.2	< 0.5	105	1610	< 1	35	< 2
254423	5	< 0.2	< 0.5	88	1840	< 1	39	< 2
254424	< 5	< 0.2	< 0.5	67	1630	< 1	32	< 2
254425	< 5	< 0.2	< 0.5	82	1560	< 1	33	< 2
254426	< 5	< 0.2	< 0.5	101	1510	< 1	39	< 2
254427	5	< 0.2	< 0.5	123	1610	< 1	42	< 2

254428	7	< 0.2	< 0.5	75	1000	< 1	40	< 2
254429	7	< 0.2	< 0.5	67	1310	< 1	46	< 2
254430	< 5	< 0.2	< 0.5	11	1610	< 1	62	< 2
254431	< 5	< 0.2	< 0.5	6	2360	< 1	45	< 2
254432	< 5	< 0.2	< 0.5	146	1730	< 1	40	< 2
254433	5	< 0.2	2.2	177	1090	< 1	36	< 2
254434	< 5	< 0.2	< 0.5	110	1240	< 1	33	< 2
254435	< 5	< 0.2	< 0.5	131	1440	< 1	38	< 2
254436	6	< 0.2	< 0.5	104	827	< 1	40	< 2

Zn ppm 2 AR-ICP	Al % 0.01 AR-ICP	As ppm 2 AR-ICP	B ppm 10 AR-ICP	Ba ppm 10 AR-ICP	Be ppm 0.5 AR-ICP	Bi ppm 2 AR-ICP	Ca % 0.01 AR-ICP	Co ppm 1 AR-ICP	Cr ppm 1 AR-ICP
68	3.13	12	< 10	23	< 0.5	< 2	4.25	30	114
68	3.07	< 2	< 10	21	< 0.5	< 2	5.14	37	107
76	3.4	< 2	< 10	22	< 0.5	< 2	4.58	24	113
82	3.17	3	< 10	23	< 0.5	< 2	4.67	33	117
89	3.11	2	12	30	< 0.5	< 2	4.72	36	105
77	3.2	3	< 10	22	< 0.5	< 2	5.26	28	115
70	2.85	3	13	27	< 0.5	< 2	4.32	28	100
81	3.06	< 2	11	22	< 0.5	< 2	4.76	28	99
71	3.95	< 2	13	24	< 0.5	< 2	5.5	30	107
80	3.61	5	< 10	18	< 0.5	< 2	4.45	34	125
52	3.9	< 2	19	25	< 0.5	< 2	6.2	24	86
64	2.34	18	< 10	25	< 0.5	< 2	6.2	37	91
53	2.58	10	< 10	28	< 0.5	< 2	9.18	26	70
< 2	0.02	< 2	< 10	13	< 0.5	< 2	> 10.0	< 1	< 1
68	3.11	17	< 10	33	< 0.5	< 2	6.11	39	100
62	2.16	18	< 10	20	< 0.5	< 2	6.24	30	76
61	2.38	23	< 10	21	< 0.5	< 2	4.66	35	104
59	1.67	26	< 10	20	< 0.5	< 2	6.05	30	83
64	2.38	35	< 10	24	< 0.5	< 2	4.14	40	109
70	2.67	26	< 10	24	< 0.5	< 2	5.74	33	117
60	2.47	25	< 10	22	< 0.5	< 2	4.97	32	101
61	2.63	19	< 10	25	< 0.5	< 2	5.85	32	100
61	2.38	20	< 10	25	< 0.5	< 2	4.57	33	92
71	2.84	19	< 10	26	< 0.5	< 2	3.1	38	115
45	2.25	13	< 10	24	< 0.5	< 2	9.19	21	54
55	2.7	21	< 10	28	< 0.5	< 2	8.4	29	62
84	3.6	17	< 10	26	< 0.5	< 2	3.73	38	140
61	2.83	24	< 10	23	< 0.5	< 2	5.34	33	96
39	1.24	26	< 10	19	< 0.5	< 2	8.78	17	35
79	3.52	19	< 10	25	< 0.5	< 2	4.61	37	140
74	3.14	15	< 10	32	< 0.5	< 2	4.87	41	116
73	3.33	< 2	< 10	30	< 0.5	< 2	6.11	33	102
71	4.25	< 2	< 10	< 10	< 0.5	< 2	3.94	34	160
76	4.32	< 2	< 10	< 10	< 0.5	< 2	3.75	34	158
71	3.13	< 2	< 10	40	< 0.5	< 2	3.36	25	115
66	2.96	< 2	< 10	45	< 0.5	< 2	3.55	41	126
43	3.23	5	< 10	48	< 0.5	< 2	6.77	29	189
69	2.81	< 2	< 10	69	< 0.5	< 2	6.03	33	109
47	1.66	< 2	< 10	130	< 0.5	< 2	4.29	27	78
60	2.37	< 2	< 10	58	< 0.5	< 2	4.09	15	28
72	3.13	< 2	< 10	31	< 0.5	< 2	4.18	25	44
81	3.48	2	< 10	27	< 0.5	< 2	3.84	39	127
92	2.45	2	< 10	120	< 0.5	< 2	5.19	27	160
58	2.35	< 2	< 10	65	< 0.5	< 2	4.14	12	12
71	2.64	2	< 10	125	< 0.5	< 2	3.55	16	28
90	4.39	50	< 10	74	< 0.5	< 2	4.31	46	130

82	4.28	21	< 10	149	< 0.5	< 2	4.92	35	74
77	3.55	10	< 10	120	< 0.5	< 2	5.26	34	73
110	3.69	17	< 10	16	< 0.5	< 2	5.09	33	62
87	3.73	25	< 10	58	< 0.5	< 2	5.88	29	62
77	3.73	16	< 10	462	1.2	< 2	6.1	32	239
88	4	7	< 10	139	< 0.5	< 2	5.56	34	60
87	3.96	2	< 10	96	< 0.5	< 2	6.01	37	88
86	4.03	< 2	< 10	69	< 0.5	< 2	5.36	31	68
81	3.27	5	< 10	44	< 0.5	< 2	5.88	35	61
97	3.87	< 2	< 10	97	< 0.5	< 2	5.09	35	74
80	3.59	< 2	< 10	178	< 0.5	< 2	4.87	36	66
95	4.32	< 2	< 10	< 10	< 0.5	< 2	5.15	31	56
85	3.51	< 2	< 10	18	< 0.5	< 2	4.57	33	73
92	3.93	< 2	< 10	49	< 0.5	< 2	4.97	35	63
69	2.72	2	< 10	11	< 0.5	< 2	4.41	31	56
84	3.72	< 2	< 10	132	< 0.5	< 2	5.47	34	73
82	3.08	3	< 10	10	< 0.5	< 2	4.89	39	54
69	2.97	< 2	< 10	< 10	< 0.5	< 2	4.44	29	52
68	2.88	< 2	< 10	33	< 0.5	< 2	4.61	31	95
74	3.28	< 2	< 10	311	< 0.5	< 2	4.37	29	198
77	3.1	< 2	< 10	209	< 0.5	< 2	4	32	66
89	3.62	< 2	< 10	24	< 0.5	3	4.78	36	61
109	3.32	3	< 10	29	< 0.5	< 2	4.6	33	57
81	3.31	< 2	< 10	81	< 0.5	< 2	4.81	36	52
66	2.9	2	< 10	85	< 0.5	< 2	3.97	28	86
71	3.12	3	< 10	12	< 0.5	< 2	4.1	30	49
< 2	0.04	< 2	< 10	13	< 0.5	< 2	> 10.0	< 1	< 1
70	2.99	< 2	< 10	11	< 0.5	< 2	5.13	28	50
83	3.5	2	< 10	13	< 0.5	< 2	4.27	33	66
73	3.17	< 2	< 10	30	< 0.5	2	4.55	28	57
72	3.98	5	< 10	33	< 0.5	< 2	5.4	33	328
99	3.76	< 2	< 10	147	< 0.5	< 2	4.81	38	69
95	3.38	< 2	< 10	250	< 0.5	< 2	4.05	34	57
62	2.39	2	< 10	151	< 0.5	< 2	3.82	27	42
97	4.12	2	< 10	203	< 0.5	< 2	4.35	36	65
93	4.23	3	< 10	174	< 0.5	< 2	4.14	32	55
84	4.16	9	< 10	15	< 0.5	< 2	4.87	31	54
95	4.01	< 2	< 10	203	< 0.5	< 2	4.66	36	57
73	2.9	3	< 10	152	< 0.5	< 2	4.62	32	49
69	3.03	< 2	< 10	201	< 0.5	< 2	5.1	26	46
57	2.66	< 2	< 10	107	< 0.5	< 2	6.11	21	48
73	3.72	< 2	< 10	146	< 0.5	< 2	3.73	29	46
82	3.82	2	< 10	416	< 0.5	< 2	4.17	33	57
77	3.51	< 2	< 10	251	< 0.5	< 2	4.7	36	58
67	3.04	< 2	< 10	294	< 0.5	< 2	5.38	33	60
95	4.42	8	< 10	261	< 0.5	< 2	3.51	35	55
86	4.12	< 2	< 10	227	< 0.5	< 2	3.67	33	54
88	4.38	< 2	< 10	141	< 0.5	3	3.59	37	56
71	3.41	< 2	< 10	341	< 0.5	< 2	5.42	30	58
85	4.24	2	< 10	180	< 0.5	< 2	4.52	31	55
73	3.71	3	< 10	226	< 0.5	< 2	4.42	27	50
79	3.55	< 2	< 10	304	< 0.5	< 2	5.25	33	55
81	3.62	< 2	< 10	10	< 0.5	< 2	4.46	33	61
99	4.01	< 2	< 10	172	< 0.5	< 2	5.24	38	68

67	2.84	< 2	< 10	74	< 0.5	< 2	4.77	29	58
78	3.71	< 2	< 10	262	< 0.5	< 2	5.82	35	74
142	5.92	7	< 10	112	< 0.5	< 2	4.06	52	34
100	4.54	5	< 10	18	< 0.5	< 2	9.68	38	28
107	3.84	< 2	< 10	124	< 0.5	< 2	5.41	39	37
318	3.11	5	< 10	81	< 0.5	< 2	4.06	41	23
91	3.52	< 2	< 10	134	< 0.5	< 2	4.67	35	22
98	3.68	< 2	< 10	147	< 0.5	< 2	4.94	35	40
58	2.71	2	< 10	< 10	< 0.5	< 2	3.43	30	59

Fe % 0.01 AR-ICP	Ga ppm 10 AR-ICP	Hg ppm 1 AR-ICP	K % 0.01 AR-ICP	La ppm 10 AR-ICP	Mg % 0.01 AR-ICP	Na % 0.001 AR-ICP	P % 0.001 AR-ICP	S % 0.01 AR-ICP	Sb ppm 2 AR-ICP
5.75	< 10	1	0.11	< 10	1.82	0.042	0.03	0.02	2
6.62	< 10	2	0.09	< 10	1.7	0.039	0.03	0.5	2
6.89	< 10	< 1	0.09	< 10	2.09	0.041	0.031	0.34	3
6.38	< 10	3	0.09	< 10	2.1	0.046	0.03	0.32	3
6.56	< 10	2	0.13	< 10	2.78	0.046	0.032	0.14	2
6.47	< 10	< 1	0.08	< 10	2.68	0.041	0.028	0.07	3
6.12	< 10	2	0.11	< 10	3.33	0.039	0.027	0.04	< 2
6.63	< 10	< 1	0.09	< 10	3.82	0.035	0.026	0.05	2
6.36	10	< 1	0.1	< 10	2.54	0.031	0.029	0.02	3
6.85	10	< 1	0.07	< 10	2.89	0.053	0.034	0.05	3
5.85	< 10	< 1	0.12	10	2.18	0.028	0.025	< 0.01	< 2
6.12	< 10	2	0.1	< 10	3.43	0.047	0.029	0.13	3
5.22	< 10	< 1	0.12	< 10	2.13	0.041	0.024	0.03	< 2
0.12	< 10	< 1	< 0.01	< 10	2.55	0.02	0.006	< 0.01	< 2
6.31	< 10	1	0.15	< 10	2.63	0.056	0.031	0.09	3
6.03	< 10	2	0.08	< 10	3	0.037	0.025	0.02	< 2
5.62	< 10	2	0.08	< 10	2.57	0.049	0.033	0.02	2
5.42	< 10	< 1	0.09	< 10	2.97	0.043	0.028	< 0.01	< 2
5.7	< 10	3	0.1	< 10	2.49	0.052	0.03	0.01	4
6.36	< 10	< 1	0.09	< 10	2.33	0.045	0.03	0.07	3
5.68	< 10	2	0.1	< 10	2.38	0.043	0.03	0.01	2
5.34	< 10	< 1	0.14	< 10	1.83	0.041	0.029	0.02	< 2
4.87	< 10	2	0.13	< 10	2.02	0.046	0.031	0.04	3
5.29	< 10	2	0.09	< 10	2.04	0.045	0.038	0.01	2
5.18	< 10	2	0.16	< 10	2.76	0.04	0.038	< 0.01	3
5.72	< 10	< 1	0.22	< 10	2.57	0.037	0.038	< 0.01	< 2
6.88	10	1	0.15	< 10	2.96	0.043	0.037	< 0.01	3
6.26	< 10	< 1	0.12	< 10	2.94	0.035	0.025	< 0.01	< 2
6.22	< 10	< 1	0.11	< 10	4.25	0.031	0.02	0.02	2
6.45	< 10	2	0.09	< 10	2.83	0.034	0.034	0.01	2
5.66	< 10	1	0.13	< 10	2.12	0.033	0.029	0.09	< 2
6.37	< 10	< 1	0.17	< 10	2.38	0.037	0.028	0.07	3
6.74	10	2	0.02	< 10	3.82	0.03	0.027	0.01	2
6.88	10	< 1	0.02	< 10	3.93	0.029	0.028	0.01	3
5.16	< 10	< 1	0.15	< 10	1.99	0.034	0.032	< 0.01	2
5.65	< 10	< 1	0.28	< 10	2.28	0.037	0.051	0.22	< 2
5.45	< 10	< 1	0.28	16	2.25	0.03	0.068	< 0.01	2
5.38	< 10	2	0.54	17	2.57	0.036	0.066	0.41	< 2
4.6	< 10	1	1.1	17	2.74	0.073	0.07	0.46	< 2
4.28	< 10	2	0.33	14	1.84	0.043	0.052	0.05	< 2
5.86	< 10	1	0.13	13	1.95	0.039	0.077	< 0.01	2
6.92	< 10	3	0.13	< 10	4.02	0.044	0.029	0.02	< 2
4.93	10	3	1.14	21	3.09	0.057	0.072	0.28	2
4.33	< 10	2	0.57	19	1.48	0.037	0.044	0.15	< 2
4.49	10	1	0.99	21	1.8	0.055	0.116	0.12	< 2
10.4	10	< 1	0.41	< 10	2.4	0.027	0.032	0.34	4

8.81	10	< 1	0.47	< 10	3.07	0.028	0.033	0.13	3
7.99	10	1	0.54	< 10	2.93	0.033	0.031	0.19	2
8.75	10	3	0.04	< 10	2.46	0.027	0.04	0.26	2
9.58	20	2	0.12	< 10	2.23	0.029	0.043	0.44	4
7.14	10	2	2.59	53	3.55	0.06	0.193	0.18	3
8.81	20	1	0.54	< 10	2.9	0.028	0.043	0.22	5
9.49	10	1	0.3	< 10	2.61	0.027	0.042	0.31	< 2
10.5	10	< 1	0.21	< 10	2.52	0.026	0.042	0.11	3
10.7	10	< 1	0.15	< 10	2.59	0.028	0.042	0.31	4
9.93	10	< 1	0.36	< 10	2.94	0.028	0.047	0.24	< 2
8.05	10	< 1	0.59	< 10	2.65	0.033	0.046	0.11	2
11.8	10	< 1	0.01	< 10	2.83	0.02	0.041	0.17	2
8.89	20	< 1	0.04	< 10	2.26	0.031	0.047	0.16	3
10.3	10	3	0.13	< 10	2.62	0.024	0.043	0.2	3
5.87	10	< 1	0.05	< 10	2.21	0.119	0.044	0.09	< 2
8.27	10	< 1	0.43	< 10	2.75	0.038	0.049	0.21	2
6.91	10	< 1	0.06	< 10	2.38	0.121	0.045	0.33	3
6.72	10	3	0.06	< 10	2.32	0.124	0.045	0.12	2
6.22	10	3	0.13	< 10	2.19	0.133	0.05	0.22	3
6.53	10	< 1	0.92	< 10	2.68	0.067	0.054	0.1	2
6.51	10	< 1	0.55	< 10	2.38	0.094	0.064	0.19	< 2
7.9	10	< 1	0.07	< 10	2.81	0.092	0.048	0.18	3
7.4	10	2	0.09	< 10	2.69	0.104	0.05	0.2	< 2
7.62	10	1	0.17	< 10	2.37	0.11	0.044	0.29	3
6.02	10	< 1	0.19	< 10	2.21	0.149	0.064	0.06	2
6.84	10	< 1	0.07	< 10	2.27	0.161	0.046	0.12	< 2
0.13	< 10	< 1	< 0.01	< 10	1.62	0.019	0.005	< 0.01	< 2
6.72	10	2	0.08	< 10	2.25	0.185	0.049	0.09	3
7.49	10	< 1	0.06	< 10	2.74	0.105	0.048	0.13	3
6.61	10	2	0.12	< 10	2.48	0.115	0.045	0.03	< 2
7.05	10	2	0.11	16	3.83	0.026	0.092	< 0.01	3
8.75	10	2	0.52	< 10	2.7	0.045	0.045	0.15	3
8.02	10	2	0.91	< 10	2.42	0.054	0.044	0.17	< 2
5.71	10	< 1	0.52	< 10	1.7	0.189	0.048	0.09	2
9	10	4	0.66	< 10	3.1	0.086	0.051	0.1	2
10.2	10	< 1	0.56	< 10	2.89	0.061	0.067	0.08	3
11.1	10	< 1	0.05	< 10	2.82	0.056	0.042	0.11	4
9.24	10	< 1	0.64	< 10	2.74	0.052	0.042	0.12	< 2
6.59	10	< 1	0.51	< 10	2.31	0.15	0.049	0.11	2
7.28	10	3	0.48	< 10	1.95	0.138	0.042	0.19	2
6.28	< 10	< 1	0.26	< 10	1.71	0.109	0.051	0.18	< 2
9.28	10	< 1	0.37	< 10	2.41	0.166	0.042	0.2	4
9.12	10	2	1	< 10	2.47	0.111	0.043	0.31	< 2
8.69	10	3	0.59	< 10	2.4	0.138	0.047	0.47	4
6.82	10	3	0.64	< 10	2.17	0.107	0.047	0.3	2
11.2	10	< 1	0.56	< 10	2.88	0.159	0.047	0.43	4
10.2	10	< 1	0.54	< 10	2.7	0.173	0.049	0.32	< 2
10.5	10	2	0.35	< 10	3.07	0.173	0.048	0.19	2
7.85	10	2	0.88	< 10	2.4	0.143	0.045	0.12	3
10.1	10	< 1	0.44	< 10	2.84	0.143	0.044	0.15	3
8.73	10	< 1	0.57	< 10	2.39	0.209	0.046	0.11	3
8.13	10	2	0.79	< 10	2.4	0.096	0.043	0.12	3
7.65	10	2	0.04	< 10	2.76	0.099	0.047	0.18	3
9.11	10	3	0.69	< 10	3.07	0.035	0.046	0.21	2

5.87	10	< 1	0.29	17	2.07	0.048	0.044	0.07	2
8.12	10	2	0.99	< 10	2.82	0.042	0.029	0.01	3
13.6	20	< 1	0.4	< 10	4.67	0.026	0.03	0.02	5
10.1	20	< 1	0.05	< 10	3.51	0.022	0.044	< 0.01	4
10.4	10	< 1	0.4	< 10	3.15	0.036	0.035	0.45	3
8.12	10	< 1	0.29	< 10	2.49	0.213	0.046	0.51	3
8.24	10	< 1	0.39	< 10	2.73	0.109	0.041	0.4	4
9.04	10	< 1	0.39	< 10	2.59	0.097	0.035	0.54	< 2
5.54	< 10	1	0.05	< 10	2.07	0.139	0.031	0.09	< 2

Sc ppm 1 AR-ICP	Sr ppm 1 AR-ICP	Ti % 0.01 AR-ICP	Th ppm 20 AR-ICP	Te ppm 1 AR-ICP	Tl ppm 2 AR-ICP	U ppm 10 AR-ICP	V ppm 1 AR-ICP	W ppm 10 AR-ICP	Y ppm 1 AR-ICP
13	21	0.14	< 20	< 1	< 2	< 10	94	< 10	6
13	23	0.12	< 20	< 1	< 2	< 10	95	< 10	7
15	21	0.13	< 20	1	< 2	< 10	104	< 10	7
14	22	0.13	< 20	4	< 2	< 10	105	< 10	6
12	21	0.14	< 20	< 1	< 2	< 10	94	< 10	6
16	22	0.13	< 20	1	< 2	< 10	109	< 10	6
11	20	0.1	< 20	< 1	< 2	< 10	80	< 10	3
12	22	0.1	< 20	< 1	< 2	< 10	87	< 10	3
13	27	0.09	< 20	5	< 2	< 10	97	< 10	6
19	21	0.12	< 20	< 1	< 2	< 10	129	< 10	6
11	19	0.04	< 20	1	< 2	< 10	77	< 10	7
13	28	0.1	< 20	2	< 2	< 10	85	< 10	6
9	44	0.09	< 20	3	< 2	< 10	63	< 10	9
< 1	49	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	2
13	32	0.12	< 20	< 1	< 2	< 10	89	< 10	7
10	27	0.07	< 20	< 1	< 2	< 10	64	< 10	5
11	21	0.1	< 20	2	< 2	< 10	81	< 10	5
9	24	0.09	< 20	< 1	< 2	< 10	64	< 10	4
10	19	0.11	< 20	< 1	< 2	< 10	77	< 10	4
12	27	0.1	< 20	< 1	< 2	< 10	85	< 10	7
10	20	0.11	< 20	< 1	< 2	< 10	75	< 10	6
10	27	0.11	< 20	< 1	< 2	< 10	73	< 10	7
10	22	0.11	< 20	< 1	< 2	< 10	75	< 10	6
18	16	0.12	< 20	6	< 2	< 10	113	< 10	5
8	53	0.06	< 20	1	< 2	< 10	43	< 10	10
7	58	0.07	< 20	2	< 2	< 10	45	< 10	10
19	26	0.11	< 20	< 1	< 2	< 10	118	< 10	5
14	28	0.08	< 20	< 1	< 2	< 10	81	< 10	5
7	47	0.05	< 20	< 1	< 2	< 10	38	< 10	5
15	28	0.11	< 20	4	< 2	< 10	104	< 10	6
11	30	0.11	< 20	< 1	< 2	< 10	82	< 10	7
9	34	0.1	< 20	1	< 2	< 10	70	< 10	8
21	29	0.11	< 20	2	< 2	< 10	130	< 10	7
21	27	0.1	< 20	2	< 2	< 10	129	< 10	7
10	22	0.12	< 20	1	< 2	< 10	87	< 10	7
11	29	0.11	< 20	< 1	< 2	< 10	94	< 10	6
8	29	0.03	< 20	2	< 2	< 10	72	< 10	7
9	37	0.09	< 20	3	< 2	< 10	85	< 10	7
10	64	0.17	< 20	2	< 2	< 10	104	< 10	5
5	44	0.11	< 20	5	< 2	< 10	53	< 10	6
9	22	0.02	< 20	< 1	< 2	< 10	85	< 10	7
8	41	< 0.01	< 20	< 1	< 2	< 10	65	< 10	3
14	66	0.16	< 20	3	< 2	< 10	111	< 10	9
4	33	0.13	< 20	2	< 2	< 10	32	< 10	8
11	35	0.16	< 20	1	< 2	< 10	113	< 10	12
23	25	0.15	< 20	< 1	< 2	< 10	219	< 10	6

30	39	0.18	< 20	3	< 2	< 10	235	< 10	7
28	73	0.19	< 20	< 1	< 2	< 10	216	< 10	8
25	65	0.17	< 20	< 1	< 2	< 10	210	< 10	9
25	71	0.16	< 20	< 1	< 2	< 10	213	< 10	10
20	220	0.26	< 20	< 1	< 2	< 10	178	< 10	16
25	70	0.19	< 20	< 1	< 2	< 10	222	< 10	13
24	68	0.17	< 20	2	< 2	< 10	202	< 10	12
24	64	0.18	< 20	< 1	< 2	< 10	212	< 10	14
21	57	0.16	< 20	< 1	< 2	< 10	191	< 10	13
20	56	0.18	< 20	4	< 2	< 10	210	< 10	11
22	55	0.24	< 20	1	< 2	< 10	212	< 10	13
19	50	0.17	< 20	< 1	< 2	< 10	199	< 10	14
23	44	0.19	< 20	2	< 2	< 10	228	< 10	15
23	51	0.19	< 20	< 1	< 2	< 10	212	< 10	15
16	49	0.19	< 20	4	< 2	< 10	151	< 10	13
19	52	0.19	< 20	2	< 2	< 10	203	< 10	15
15	43	0.18	< 20	6	< 2	< 10	151	< 10	12
16	37	0.2	< 20	< 1	< 2	< 10	155	< 10	13
13	51	0.2	< 20	4	< 2	< 10	130	< 10	15
13	58	0.25	< 20	2	< 2	< 10	149	< 10	16
14	65	0.25	< 20	< 1	< 2	< 10	156	< 10	12
13	43	0.19	< 20	3	< 2	< 10	169	< 10	10
13	40	0.18	< 20	< 1	< 2	< 10	143	< 10	10
11	41	0.18	< 20	2	< 2	< 10	130	< 10	9
13	41	0.22	< 20	6	< 2	< 10	125	< 10	12
13	33	0.19	< 20	< 1	< 2	< 10	125	< 10	10
< 1	50	< 0.01	< 20	< 1	< 2	< 10	1	< 10	3
15	49	0.21	< 20	2	< 2	< 10	142	< 10	13
16	45	0.2	< 20	< 1	< 2	< 10	170	< 10	13
16	54	0.2	< 20	2	< 2	< 10	158	< 10	14
17	72	0.21	< 20	< 1	< 2	< 10	157	< 10	9
13	61	0.21	< 20	< 1	< 2	< 10	187	< 10	8
13	53	0.24	< 20	< 1	< 2	< 10	190	< 10	9
13	50	0.23	< 20	3	< 2	< 10	131	< 10	13
17	54	0.24	< 20	4	< 2	< 10	202	< 10	14
12	56	0.2	< 20	2	< 2	< 10	170	< 10	10
9	63	0.15	< 20	3	< 2	< 10	148	< 10	7
10	68	0.19	< 20	1	< 2	< 10	164	< 10	10
14	64	0.22	< 20	< 1	< 2	< 10	149	< 10	14
13	82	0.19	< 20	< 1	< 2	< 10	131	< 10	10
12	100	0.18	< 20	4	< 2	< 10	104	< 10	11
11	51	0.18	< 20	2	< 2	< 10	117	< 10	10
13	68	0.25	< 20	5	< 2	< 10	167	< 10	10
15	64	0.22	< 20	1	< 2	< 10	169	< 10	12
14	109	0.22	< 20	2	< 2	< 10	147	< 10	12
13	45	0.21	< 20	2	< 2	< 10	143	< 10	11
14	48	0.22	< 20	< 1	< 2	< 10	154	< 10	11
15	42	0.21	< 20	< 1	< 2	< 10	151	< 10	12
17	74	0.25	< 20	2	< 2	< 10	169	< 10	14
15	62	0.19	< 20	< 1	< 2	< 10	158	< 10	12
15	50	0.22	< 20	5	< 2	< 10	145	< 10	13
13	58	0.23	< 20	2	< 2	< 10	170	< 10	11
14	34	0.21	< 20	4	< 2	< 10	166	< 10	12
25	57	0.19	< 20	2	< 2	< 10	213	< 10	14

19	31	0.09	< 20	< 1	< 2	< 10	151	< 10	12
30	62	0.24	< 20	1	< 2	< 10	245	< 10	13
27	42	0.14	< 20	< 1	< 2	< 10	325	< 10	15
20	113	0.08	< 20	2	< 2	< 10	196	< 10	12
23	51	0.1	< 20	1	< 2	< 10	194	< 10	12
21	32	0.21	< 20	< 1	< 2	< 10	206	< 10	17
21	39	0.21	< 20	< 1	< 2	< 10	212	< 10	16
14	38	0.19	< 20	4	< 2	< 10	178	< 10	10
14	29	0.26	< 20	2	< 2	< 10	126	< 10	12

Zr	Au
ppm	g/tonne
1	0.03
AR-ICP	FA-GRA
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Analyte Syrr	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
Detection Lii	0.3	0.01	3	7	1	2	0.01	0.3	1
Analysis Me	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
00254330	0.4	6.57	< 3	142	< 1	< 2	6.06	0.4	32
00254432	0.4	5.66	< 3	236	< 1	< 2	5.38	0.7	44

Cr ppm 1 TD-ICP	Cu ppm 1 TD-ICP	Fe % 0.01 TD-ICP	Ga ppm 1 TD-ICP	Hg ppm 1 TD-ICP	K % 0.01 TD-ICP	Mg % 0.01 TD-ICP	Li ppm 1 TD-ICP	Mn ppm 1 TD-ICP	Mo ppm 1 TD-ICP
130	67	6.82	15	5	0.69	2.25	22	1000	< 1
34	123	10.5	20	< 1	0.66	3.42	19	2000	< 1

Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti
%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%
0.01	1	0.001	3	5	0.01	4	1	2	0.01
TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
1.84	68	0.034	< 3	< 5	0.33	23	181	3	0.42
1.55	39	0.044	< 3	< 5	0.48	29	81	12	0.67

Tl	U	V	W	Y	Zn	Zr
ppm	ppm	ppm	ppm	ppm	ppm	ppm
5	10	2	5	1	1	5
TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
< 5	< 10	135	< 5	9	88	59
< 5	< 10	229	< 5	20	114	61

Core Box Tagging BTU-19-04

Box #	From	To	Interval
1	9.2	13.6	4.4
2	13.6	17.7	4.1
3	17.7	21.9	4.2
4	21.9	26	4.1
5	26	30.5	4.5
6	30.5	34.8	4.3
7	34.8	38.8	4
8	38.8	43.1	4.3
9	43.1	47.3	4.2
10	47.3	51.5	4.2
11	51.5	56	4.5
12	56	60.3	4.3
13	60.3	64.6	4.3
14	64.6	68.8	4.2
15	68.8	73.1	4.3
16	73.1	77.4	4.3
17	77.4	81.7	4.3
18	81.7	86	4.3
19	86	90.4	4.4
20	90.4	94.8	4.4
21	94.8	98.9	4.1
22	98.9	103.3	4.4
23	103.3	107.4	4.1
24	107.4	111.7	4.3
25	111.7	116	4.3
26	116	120.2	4.2
27	120.2	124.5	4.3
28	124.5	128.7	4.2
29	128.7	133.1	4.4
30	133.1	137.5	4.4
31	137.5	141.9	4.4
32	141.9	146.1	4.2
33	146.1	150.5	4.4
34	150.5	154.8	4.3
35	154.8	159	4.2
36	159	163.4	4.4
37	163.4	167.7	4.3
38	167.7	172.1	4.4
39	172.1	176.3	4.2
40	176.3	180.7	4.4
41	180.7	185	4.3
42	185	189.4	4.4
43	189.4	193.7	4.3
44	193.7	198.1	4.4
45	198.1	202.5	4.4
46	202.5	206.7	4.2
47	206.7	211.2	4.5
48	211.2	215.4	4.2
49	215.4	219.7	4.3
50	219.7	224	4.3
51	224	228.5	4.5

52

228.5

230

1.5

EOH

Point Data BTU-19-04

Depth	Type	Measurement	Comments	
10	F	20		F-foliation
15.5	F	15		Ft-fault
16.9	JQ	-72	5mm xcutting quartz veinlet	V-vein
17.7	B	0	blocky ground 17.7-18.2m	J-joint
18.5	V	10	rusty veinlets with adjacent hematite alteration	JQ-quartz f
19.5	JQ	-55	rusty 1mm xcutting quartz/carb stringers at -55 to -65 dtca;	JC-calcite f
19.8	JQ	-65	quartz/calcite/carb veinlet	4 C-contact
21.5	V	10	veinlet zone	BD-bedding
24	F	20		BN-banding
25.9	JC	-63	rusty xcutting stringer	S-slip
26.2	F	33		B-blocky gr
26.5	JQ	-60		Sh-shear z
28.5	V	30	10 cm quartz/carb vein	
30	F	25		
32.4	F	23		
34.3	F	27		
35.4	V	30	quartz/carb veinlets up to 10cm wide at 30 dtca; barren looking	
37	F	20		
39.1	JC	60	3mm calcite stringer	
40	JQ	57	1cm quartz veinlet	
40.3	F	10		
42	F	27		
42.4	F	22		
43.6	JC	-42	calcite crystals in xcutting stringers; 20cm of sericite alteration	
44.85	F	60	change in fabric denoting start of veined zone	
46.5	V	40	irregular broken up veinlets with weak fabric at 35-40 dtca	
48.25	SH	33	sharp sheared lower contact	
	SH	20	intense carb altered shear zone 48.25-49.25m	
49.8	SH	50	20cm shear zone	
51	F	25	back into more typical sheared volcanics	
55.5	F	15		
58.6	JC	-47	calcite crystals in xcutting joints/stringers	
60	F	12	pervasive fabric with 2-5% ripped up calcite stringers within the fabric	
64	F	15		
66.2	F	18		
68	F	15		
68.8	F	10		
69.4	F	0	right down core axis	
69.6	V	65	5cm quartz vein	
70	F	15		
70.6	F	20		
71.3	C	25	contact of tuff/volcanics	
72	F	30		
73	F	20		
73.6	F	10		
74	V	70	8cm quartz vein with coarse chloritie; hematite bands	
75	F	15		
77.4	F	25		
80.7	F	15	20 cm shear zone	
82.4	C	20	upper contact of possible dyke?	
81.5	JC	-45	4/30cm	

82.2	C	20	lower contact of possible dyke?
85	F	30	
87.8	F	22	87.6-87.9m stronger shear zone
92.25	C	28	upper contact of possible dyke?
92.8	C	34	lower contact of possible dyke?
93.5	F	30	
94	JV	75	1cm xcutting white quartz/carb veinlets
96.5	F	35	
98	F	30	some magnetite grains in chloritic bands
98.7	V	20	2cm quartz/carb veinlet at 20dtca with trace py/po
100.2	V	22	1cm quartz/tourmaline/chloriter veinlet at 22 dtca with minor py
100.7	F	30	
104.5	F	22	
102.5	F	15	
104	F	15	
106.5	F	25	
108	F	20	
109.5	F	30	
111.5	F	30	
115	F	30	
115.1	JC	-30	5mm xcutting calcite stringer
119.5	F	30	
123.6	B	23	rusty blocky ground at 23 dtca; red hematite on fabric planes
124.5	F	25	
127	F	30	
132	F	27	
132.8	V	25	3-4cm quartz vein subparallel to fabric; 1-2mm threads/seams of py in a
134	F	35	
137	V	-25	5mm white to pinkish buff calcite/carb veinlet xcutting fabric; barren
139.3	SH	25	hairline calicte threads xcutting fabric and deforming it
142.5	F	35	
146	F	35	
149.2	V	45	10cm quartz/epidote/calcite vein; barren looking
151	JC	30	xcutting calcite joints/threads every 1-5cm over 1.5m
153	F	35	
158	F	32	
162	F	25	
164	F	35	
164.4	V	45	6cm quartz veinlet
164.6	V	25	shallow broken up quartz vein at 25 dtca bounded by fabric at 50 dtca
165.2	F	37	
165.6	SH	50	165.4-165.9m; shear zone at 50 dtca; contorted fabric with fabric planes
167	F	40	
167.6	V	40	12cm quartz vein
167.8	F	32	
169.6	F	45	within grabbroic base of flow
172.2	F	42	
174.2	F	28	
175.5	F	40	
178.4	F	45	
180.4	F	40	
183	F	40	
185.8	F	35	
186.3	V	45	20cm quartz vein with minor carbonate; barren looking
187	F	30	

191.5	F	35	
194	F	40	
197.3	F	40	
199.4	F	40	
201.5	F	42	
203.2	C	45	flow to base of flow
205.5	C	37	lower contact of base of flow
206.5	F	43	
209	F	40	
211	F	48	
212	F	43	
215	F	35	
216	F	48	
217.5	F	50	
218.7	JC	-37	xcutting calcite joints/threads associated with carb alteration
220	F	50	
220.6	V	45	veinlet zone
221.7	V	45	veinlet zone
223	F	32	
225	F	35	
225.3	C	28	gabbro contact
226.5	F	37	
228	V	35	quartz/epidote veinlets
229.5	F	35	very weak fabric
	EOH		

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SURVEY DATA	
DDH	BTU-19-05
Page	1 of 1
Project	Dixie Lake
Date Drilled	August 7 - August 10, 2019
Date Logged	August 12 - August 15, 2019
Geologist/Geotech	C.St.Louis
Core Diameter	BQTW
Storage Location	Esker Logging
Contractor	M3 Drilling
Collar Azimuth/Dip	180/45
EOH(m)	152
Overburden (m)	9.2
Casing	removed
Artesian Water	none

UTM Projection

NAD 83

UTM Zone

15

Collar Locations			Claim Cell Number	Provincial cell grid number
Approximate Coordinates (hand-held GPS)				
Easting (m)	Northing (m)	Elevation (m)		
458553	5631329		217081	52K13A006

Coordinates (differential GPS) Not Taken

Easting (m) Northing (m) Elevation (m)

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Survey Data			Uncorrected	Adjusted	Magnetic
Surv. No.	Dist from collar	hole dip	hole azimuth	hole azimuth	Field
1	0				
2	8	-45.1	303.9	176	14516
3	17	-44.7	176.6		57209
4	26	-43.8	177		56903
5	35	-43.1	176.9		57035
6	44	-42.5	177.1		57022
7	53	-41.6	176.3		56673
8	62	-40.9	176.9		56815
9	71	-40.2	180.1		57560
10	80	-39.2	5.7	179.66	98324
11	89	-38.1	194.1	179.22	58836
12	98	-37.4	166.2	178.78	54947
13	107	-36.6	171.9	178.34	57033
14	116	-36	177.9		56608
15	125	-35.4	178.3		56915
16	134	-34.8	179.6		56838
17	143	-34.3	180.3		56924
18	152	-34	181.1		56896

GEOLOGY LOG					Project	Dixie Lake														
DDH	BTU-19-05				Date Drilled	August 7 - August 10, 2019					EOH	152								
Page	1 of 1				Date Logged	August 12 - August 15, 2019					Comments									
					Geologist	C.St.Louis														
Depth					Alteration (0 to 5), sulphides as %															
From	To	width	Lithology	Description	Quartz/Silicification	Sericite	Chlorite	Fe-carbonate	Calcite	Biotite	Actinolite	Garnet	Other:	Pyrrhotite (%)	Pyrite (%)	Sphalerite (%)	Chalcopyrite (%)	Arsenopyrite (%)	Magnetite (%):	Other (%)
0	9.2	9.2	Overburden																	
9.2	12.8	3.6	Tuff	f.g. medium grey brown tuff; pervasive fabric at 55 dtca with 1-3% parallel calcite stringers; localized sericite alteration; trace fine py dissem		1			1	2					0.2					
12.8	14.5	1.7	Sheared Gabbro	coarser; greener; pervasive chloritie; more like gabbro of previous holes; non-magnetic; trace fine po dissem			2		1	1				0.2						
14.5	18.6	4.1	Tuff	f.g. medium grey brown tuff; pervasive fabric at 55 dtca with 1-3% parallel calcite stringers; minor xcutting calcite joints/threads at -28 to -47 dtca; 0.5% fine py dissem					1	2					0.2					
18.6	21.95	3.35	Basalt	f.g. green; non-magnetic; more basaltic looking; weaker calcite as 1% threads parallel fabric at 57 dtca; 21.3m with 20cm zone of barren looking white bull quartz veinlets			2		0						0.1					
21.95	27.65	5.7	Fragmental Tuff	f.g. med brown biotitic tuff to 23.9m into fragmental tuff below; strong pervasive fabric at 53-57 dtca; elongated fragments to 2cm long; trace to 0.5% po dissem/threads along fabric; 27.4m 13cm barren looking white bull quartz vein at 57/45 dtca		0			0	2				0.2						

Samples BTU-19-05

Au (g/t)

Sample#	From	To	Width	Au		Description
				ppb	g/tonne	
				5	0.03	
				FA-AA	FA-GRA	
00254437	9.2	10	0.8	5		trace to 0.5% py dissemin in tuff
00254438	12	12.8	0.8	< 5		tuff; greyer; some sericite; strong pervasive fabric 55 dtca; minor py
00254439	12.8	13.7	0.9	< 5		15% barren looking quartz veinlets up to 8cm wide; parallel fabric at 45 dtca; trace py in host
00254440				> 5000	8.35	STANDARD CND-GS-9B
00254441	13.7	14.5	0.8	7		coarser; green; trace py
00254442	14.5	15.3	0.8	6		f.g.; biotitic; 10% quartz/tourmaline/chlorite veinlets at upper contact with 0.5% py
00254443	15.3	16.3	1	5		f.g.; biotitic; stronger fabric at 57 dtca
00254444	16.3	17	0.7	5		brownish green; f.g.; granular texture; trace to 0.5% fine py
00254445	17	17.7	0.7	5		basaltic looking; fabric at 55 dtca; trace very fine py
00254446	17.7	18.6	0.9	7		more tuffaceous looking; green; minor biotite alteration with py dissemin
00254447	20.3	21.15	0.85	8		finer; greener; more basaltic looking;
00254448	21.15	21.95	0.8	8		15% white bull quartz veinlets up to 8cm wide; barren looking; trace to 0.5% py dissemin in biotitic bands
00254449	23.9	25	1.1	8		biotitic tuff; fine py/po dissemin to 1% in patches; 24.7m 5cm argillaceous looking bands with 10% py
00254450	25	26	1	9		biotite tuff; 0.5-1% po/py dissemin
00254451	26	27	1	6		same; 26.7m 2cm xcutting quartz with granular texture at 28 dtca; (NE strike?)
00254452	27	27.65	0.65	8		biotitic tuff; 27.4m 13cm white bull quartz vein with one 5mm patch of dissemin py
00254453	27.65	28.5	0.85	7		possible feldspar porphyry dyke; 0.5-1% fine po dissemin
00254454	28.5	29.5	1	11		biotitic tuff with minor py/po dissemin
00254455	29.5	30.5	1	9		same; greener; up to 5% py dissemin/threads within 40 cm of lower contact
00254456	30.5	31.2	0.7	8		f.g.; greener; more basaltic looking; 5% quartz/calcite veinlets/stringers with minor py
00254457	31.2	31.85	0.65	12		green; moderate fabric at 60 dtca;
00254458	31.85	32.9	1.05	9		20% white bull quartz veinlets up to 10cm wide with adjacent minor py/po dissemin
00254459	32.9	32.9	33.75			15% white bull quartz veinlets up to 15 cm wide; ragged contact; barren looking
00254460				< 5		BLANK
00254461	32.9	35	2.1	9		fault zone; locally contorted fabric 0-20 dtca; pervasive calcite; trace py in one 3cm chloritic band
00254462	37.7	38.55	0.85	8		gabbro getting finer grained to vein contact with increased biotite alteration;
00254463	38.55	39.6	1.05	9		75% translucent to white bull quartz/chlorite vein at 45-55 dtca; trace cubic py; one speck of cp
00254464	39.6	40.7	1.1	13		sheared gabbro; trace po
00254465	40.7	41.3	0.6	11		35% white bull quartz veinlets at 45 and 30 dtca; barren looking
00254466	41.3	42.2	0.9	9		basaltic looking; fabric at 57 dtca; trace very fine py; trace hematite on some fabric planes
00254467	44.2	45.1	0.9	10		pillow breccia; 2cm calcite/po band at 57 dtca at 44.5m; 10cm quartz vein at 40/30 dtca (barren looking)
00254468	47	48	1	12		sheared pillow breccia at 60 dtca with trace to 0.5% po dissemin and rare cp speck
00254469	48	49.15	1.15	14		same; 10cm translucent pink quartz vein at 48.3m (barren); 1-2% quartz/epidote veinlets; trace po in calcite patches
00254470	50	51	1	12		10cm quartz/carb veinlets along fabric; 0.5% py dissemin
00254471	53	54	1	12		10% quartz +/- epidote veinlets along fabric at 57 dtca with adjacent biotite alteration; trace t 0.5% py dissemin
00254472	56.8	57.95	1.15	314		increased shearing at 50 dtca; 40cm felsic dyke/tuff
00254473	57.95	59.15	1.2	798		increased shearing with biotite/calcite alteration; 0.5-1% fine py dissemin
00254474	61.85	63.05	1.2	23		shear zone; strong calcite alteration as 1-2mm fabric parallel stringers; 5% biotite bands with trace po
00254475	66.35	67.35	1	11		10% biotitic with trace fine po dissemin; 2% irregular quartz veinlets up to 2cm
00254476	72.6	73.5	0.9	11		1-3% po/py dissemin in calcite threads along 55 degree fabric
00254477	73.5	74.2	0.7	18		1-3% po/py concentrated along calcite/<quartz filled selvages
00254478	74.2	74.8	0.6	11		trace po dissemin
00254479	74.8	75.6	0.8	9		10% calcite/<quartz infill with up to 1% po/py infill dissemin/threads
00254480				< 5		DUPLICATE PULP - 00254479
00254481	75.6	76.35	0.75	6		35% calcite/<quartz infill with pervasive po/py minor cp in selvages
00254482	78	79	1	5		po minz in one 1cm calcite selvage
00254483	81.9	82.65	0.75	< 5		20% calcite infill with po/<cp along selvages; 2-5% po; 1% py; trace to 0.5% cp
00254484	82.65	83.25	0.6	< 5		trace po dissemin
00254485	83.25	84.2	0.95	< 5		25% calcite infill with po/<cp along selvages; 2-5% po; 1% py; trace to 0.5% cp
00254486	87.95	88.55	0.6	< 5		10 cm white bull quartz vein at 55/45 tca; barren looking; trace po in host
00254487	89.3	90.2	0.9	< 5		pillowed with up to 1% py in calcite stringers
00254488	90.2	91	0.8	< 5		gabbro at contact
00254489	92.5	93.35	0.85	< 5		25cm white bull quartz vein at 55 dtca with adjacent quartz stringers up to 1cm; barren looking overall; trace py in host
00254490	94.8	95.4	0.6	5		30cm dark grey quartz/<tourmaline vein at 43 dtca; minor later white quartz veinlets; 1mm grains of po/cp in white granular quartz
00254491	97	97.9	0.9	< 5		15% quartz/epidote/calcite veinlets at 50 dtca up to 1cm with trace po/cp
00254492	99.65	100.45	0.8	< 5		sheared pillows at 55 dtca; pervasive calcite; minor biotite; trace to 0.5% po dissemin/threads along fabric
00254493	100.45	101.3	0.85	6		same; trace po/<cp
00254494	103	104	1	< 5		sheared pillows; trace py
00254495	105	106	1	< 5		sheared pillows; trace py/po
00254496	107.25	108.25	1	< 5		blocky ground at lower contact; trace py
00254497	108.25	109.3	1.05	< 5		contact zone in gabbro
00254498	115.7	116.7	1	8		17cm quartz vein at 35 dtca; minor adjacent stringers; barren looking
00254499	120.4	121.4	1	6		weakly foliated pillows with 2-5% calcite/<quartz stringers
00254500				1020		STANDARD CND-GS-1W
00254501	128.6	129.6	1	< 5		15% white quartz/<carb veinlets up to 10 cm wide; trace fine py
00254502	138	139	1	< 5		5% calcite stringers/veinlets; trace py; finer grained; band of basalt?
00254503	143	144	1	< 5		moderate fabric at 70 dtca; calcitic
00254504	149	150	1	< 5		sheared gabbro; trace to 0.5% po/py dissemin approaching dyke contact (40cm)
00254505	150	151	1	5		felsic dyke and basalt; trace py near contact
00254506	151	152	1	5		sheared basalt

66 #core samples 93.4 meters sampled
 4 #QA/QC 61.45 % sampled
 70 Total Samples

Analyte Syrr	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
Detection Lii	0.3	0.01	3	7	1	2	0.01	0.3	1
Analysis Me	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
00254442	0.5	7.41	< 3	497	< 1	< 2	3.28	0.5	30
00254483	0.3	5.09	< 3	21	< 1	2	7.22	0.8	38

Cr ppm 1 TD-ICP	Cu ppm 1 TD-ICP	Fe % 0.01 TD-ICP	Ga ppm 1 TD-ICP	Hg ppm 1 TD-ICP	K % 0.01 TD-ICP	Mg % 0.01 TD-ICP	Li ppm 1 TD-ICP	Mn ppm 1 TD-ICP	Mo ppm 1 TD-ICP
68	73	6.13	19	2	1.22	2.83	25	740	< 1
56	80	10.8	17	4	0.06	3.43	13	3150	< 1

Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti
%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%
0.01	1	0.001	3	5	0.01	4	1	2	0.01
TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
2.59	55	0.042	< 3	< 5	0.18	18	339	3	0.45
0.79	48	0.033	< 3	< 5	0.5	29	68	11	0.56

Tl	U	V	W	Y	Zn	Zr
ppm	ppm	ppm	ppm	ppm	ppm	ppm
5	10	2	5	1	1	5
TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
< 5	< 10	141	< 5	11	81	58
< 5	< 10	211	< 5	19	147	21

Core Box Tagging BTU-19-05

Box #	From	To	Interval
1	9.2	13.4	4.2
2	13.4	17.7	4.3
3	17.7	22	4.3
4	22	26.3	4.3
5	26.3	30.7	4.4
6	30.7	35	4.3
7	35	39.5	4.5
8	39.5	43.8	4.3
9	43.8	48	4.2
10	48	52.5	4.5
11	52.5	56.8	4.3
12	56.8	61.2	4.4
13	61.2	65.5	4.3
14	65.5	70	4.5
15	70	74.4	4.4
16	74.4	78.8	4.4
17	78.8	83.1	4.3
18	83.1	87.6	4.5
19	87.6	92	4.4
20	92	96.3	4.3
21	96.3	100.7	4.4
22	100.7	104.9	4.2
23	104.9	109.3	4.4
24	109.3	113.5	4.2
25	113.5	117.9	4.4
26	117.9	122.2	4.3
27	122.2	126.6	4.4
28	126.6	131	4.4
29	131	135.4	4.4
30	135.4	139.9	4.5
31	139.9	144.2	4.3
32	144.2	148.6	4.4
33	148.6	152	3.4 EOH

Point Data BTU-19

Depth	Type	Measurement	Comments	
10	F	55		F-foliation
10.7	J	-40	5/40cm; some rust;	Ft-fault
12.8	C	60		V-vein
13	F	43		J-joint
13.6	V	42	20 cm bull quartz veinlet zone	JQ-quartz f
14.5	C	60	ground lower contact of gabbro	JC-calcite f
15.3	F	57		C-contact
18.5	F	57		BD-bedding
18.6	C	57	lower contact of tuff	BN-banding
21.3	V	55	20cm bull quartz veinlet zone	S-slip
21.95	C	62	lower contact of basalt	B-blocky gr
23.5	F	60		Sh-shear z
26	F	55		
27.65	C	53	upper contact of dyke	
28.5	C	57	lower contact of dyke	
31.5	F	53		
32	V	45	10cm quartz vein	
32.6	V	35	12 cm quartz/trace tourmaline veinlets; trace po/cp	
33.4	V	32	14cm white quartz veinlets; barren looking	
34	SH	15	33.75-37.5m sheared contact zone/fault in gabbro; irregular fabric along	
37.7	F	55	more typical fabric	
39	V	50	38.55-39.2m quartz vein with ragged contacts in fabric (slightly xcutting)	
40.9	V	50	25 cm quartz vein; barren	
42	F	57		
43.8	JC	-30	calcite crystals along xcutting joints	
45	V	35	quartz vein at 40/30 dtca; barren looking	
45	F	58		
48.3	V	50	10cm translucent pink quartz vein	
48.5	F	60		
53	F	53		
54.5	F	45		
56.1	F	57		
56.5	F	50		
56.9	C	50	sheared felsic dyke/tuff	
57.3	c	45	lower contact of sheared felsic dyke/tuff	
58	F	45		
61	F	48		
62.5	F	50	61.85-63.05m shear zone	
65	F	35		
67.5	JC	-30	xcutting hairline calcite joints/threads; 5/50cm	
68.5	JC	-30	blocky ground due to xcutting rusty calcite filled joints/fractures over 50c	
69.5	F	55		
71	F	50		
72.5	F	45		
76.5	F	45	becoming more irregular around pillow selvages	
70.3	F	60		
88.3	V	55	10cm quartz vein; barren looking	
88.6	F	60		
88.8	F	50		
90.2	C	57	basalt lower contact	
93.2	V	55	25cm quartz vein with adjacent veinlets; barren looking	

95.2	V	43	dark grey to black quartz/<tourmaline vein at 43 dtca; barren looking
97.2	V	50	quartz/epidote/calcite veinlet zone at 50 dtca up to 3cm wide; trace po/c
99.65	C	55	sheared lower contact of gabbro
102	F	55	
102.8	V	-35	vuggy open fracture with calcite crystals; parallel calcite joints/threads o
107	F	55	
107.8	V	-12	vuggy open fracture with calcite crystals along core for 40cm
108.25	B	55	blocky contact zone due to xcutting joints at -30 dtca
116.1	V	35	lower contact of 10 cm quartz vein
118.2	C	55	gabbro to basalt
119.5	F	60	
121.4	C	65	basalt to gabbro
123.5	F	65	
129	V	52	quartz veinlets at 52-70 dtca
131	F	70	
134.5	F	65	
139.2	SH	75	stronger fabric at 65-75 dtca; broad shear zone;
143.7	SH	70	
147.1	-30	-30	rusty xcutting calcite veinlet
149.5	F	67	
150	C	70	
150.55	C	75	felsic dyke
151	F	70	

EOH

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illed

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round
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core;

fabric?)

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p dissem

ver 1-10cm over 2m interval

SURVEY DATA	
DDH	BTU-19-06
Page	1 of 1
Project	Dixie Lake
Date Drilled	August 12- August 14, 2019
Date Logged	August 15-16, 2019
Geologist/Geotech	C.St.Louis
Core Diameter	BQW
Storage Location	Esker Logging
Contractor	M3 Drilling
Collar Azimuth/Dip	180/-45
EOH(m)	125
Overburden (m)	9.5
Casing	removed
Artesian Water	none

UTM Projection

NAD 83

UTM Zone

15

Collar Locations			Claim Cell Number	Provincial cell grid number
Approximate Coordinates (hand-held GPS)				
Easting (m)	Northing (m)	Elevation (m)		
454780	5631735		271146	52K13G398

Coordinates (differential GPS) Not Taken

Easting (m) Northing (m) Elevation (m)

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Survey Data			Uncorrected	Adjusted	Magnetic
Surv. No.	Dist from collar	hole dip	hole azimuth	hole azimuth	Field
1	0				
2	8	-46.1	9.3	180	81463
3	17	-46.1	180.6		58929
4	26	-45.5	182.6		56252
5	35	-44.8	184.9		56807
6	44	-44.6	183.8		57186
7	53	-44.1	177.7		54884
8	62	-43.3	178.5		56765
9	71	-42.4	179.2		58332
10	80	-41.7	127.2		58294
11	89	-40.9	182.7		56469
12	98	-40.1	182.9		56918
13	107	-39.4	183.7		56599
14	116	-38.7	185		56609
15	125	-37.9	185		56725

GEOLOGY LOG					Project	Dixie Lake													
DDH	BTU-19-06				Date Drilled	August 12- August 14, 2019					EOH	125							
Page	1 of 1				Date Logged	August 15-16, 2019					Comments								
					Geologist	C.St.Louis													
Depth					"Alteration,(0 to 5), sulphides as %														
	From	To	width	Lithology	Description	Quartz/Silicification	Sericite	Chlorite	Fe-carbonate	Calcite	Biotite	Actinolite	Garnet	Other:	Pyrrhotite (%)	Pyrite (%)	Sphalerite (%)	Chalcopyrite (%)	Arsenopyrite (%)
	0	9.5	9.5	Overburden															
	9.5	17	7.5	Basalt	f.g. green basalt with 2-5% irreg calcite stringers/veinlets +/- adjacent buff to pink carb/Kspar? alteration; non-magnetic;														
	17	26.2	9.2	Altered Gabbro	f.g. to 0.5mm; medium grey green; pink alteration adjacent to some stringers; buff where sericitized; quite hard; 17-17.8m strongly magnetic intensely altered contact zone; buff sericite alteration with adjacent magnetic 1cm garnets; contacts at 50/43 dtca; 23.1-23.5m strong sericite alteration with 0.5% fine magnetite grains; contacts 50/52 dtca; gradational lower contact		2		1		0		1			0.2			
	26.2	32.45	6.25	Altered Basalt	similar to above; blocky ground due to shallow xcutting joints at -35 dtca; trace py on fracture planes; 30.8-32.45m coarse garnets porphs up to 1cm; weak to mod magnetic; 5mm radiating blades of actinolite?/amph?; very hard; 2-3% py; 1-3% po dissem; trace cp and patches of fine magnetite; possibly pillows														
	32.45	36	3.55	Gabbro	similar to above gabbro; trace to 0.5% py dissem and splashes (to 5mm) on fracture planes; blocky locally; altered and mineralized contact zones as noted below; gradational contact zone into basalt at 57 dtca		2	1					1			1	2	0	

		Samples					
Magnetite (%):	Other (%)		Sample Number	From	To	Width	Comments
1							
1							

Samples BTU-19-06

Sample#	From	To	Width	Au		Description	Au (g/t)
				ppb	g/tonne		
				FAAA	FA-GRA		
00254507	13	14	1	<5		2-5% irreg calcite stringers/veinlets; trace to 0.5% fine py	
00254508	17	17.8	0.8	<5		strongly magnetic sericite/garnet/chlorite zone; very fine magnetite in sericite alteration; magnetite grains in large (to 1cm) garnet porphyroblasts;	
00254509	23	24	1	<5		40% sericitic band at 50/42 dcta with fine magnetite with adjacent 1cm garnets; buff pink alteration of gabbro adjacent to irregular carbonate threads	
00254510	24	26	1	<5		altered gabbro with trace py/ol/cp associated with carbonate threads and adjacent pink alteration (K-spar?); weak biotite as 1mm flecks in host	
00254511	29.8	30.8	1	5		f.g. basalt with trace to 0.5% py in wispy calcite stringers	
00254512	30.8	31.6	0.8	<5		mineralized altered contact zone; medium grey green chloritic with 5mm irregular pinkish garnets; 1-2% py dissemin and as coarse splashes on fracture planes; 1% fine po; weakly magnetic with trace fine magnetite	
00254513	31.6	32.45	0.85	<5		greyer; harder; one 1cm band of magnetite/py; one thread of chalcocite at -30 dcta; 1-2% po/py dissemin; epidote/garnets/radiating fibrous actinolite? at lower contact at 28 dcta	
00254514	36	37	1	<5		f.g. grey green basalt; 1% py dissemin and along calcite stringers/veinlets; fabric at 57 dcta	
00254515	41.45	42.5	1.05	<5		70% buff silicified/sericite altered zone; moderately magnetic with very fine magnetite and pervasive fine po; 1-3% coarser bands/strs of py; garnets/chlorite/actinolite at upper contact at 65 dcta; possibly pillowed??	
00254516	42.5	43.5	1	<5		60% same silicified/sericite altered zone as above; moderately magnetic; very fine po/trace magnetite in sericite alteration garnets/chlorite/actinolite? in remainder; 3-5% py; 2-5% po; 0.5% fine magnetite	
00254517	43.5	44.5	1	<5		moderately magnetic po-rich fragmental seds/tuff; up to 10% po; chlorite/calcite bands with up to 1% coarser py;	
00254518	44.5	45.05	0.55	19		black argillite; 5-10% py/ol seams/threads along fabric at 30-47 dcta	
00254519	45.05	46	0.95	<5		moderately magnetic po-rich fragmental seds/tuff; up to 10% dissemin po; up to 1% py	
00254520				<5		BLANK	
00254521	46	46.9	0.9	<5		same po-rich seds with 30% dark grey to black argillite bands with 3-8% coarser py/ol seams/threads; sharp lower contact at 20 dcta	
00254522	50	51	1	<5		altered basalt with 20% irregular quartz/calcite veinlets up to 15cm wide with adjacent trace cp/ol; some veinlets at 25 dcta	
00254523	51	52	1	<5		altered basalt with 20% irregular quartz/calcite veinlets up to 15cm wide; trace cp/ol adjacent to some	
00254524	52	53	1	<5		altered basalt with 20% irregular quartz/calcite veinlets up to 15cm wide; trace cp/ol adjacent to some	
00254525	58.8	59.7	0.9	<5		finer grained more basaltic looking; 1% fine py dissemin	
00254526	59.7	60.85	1.15	<5		50% finely laminated interstitial seds (fragmental?) at 20-45 dcta with what appears to be sericite/carb altered pillow rims; 2-3% po dissemin and trace cp; 1-2% py;	
00254527	60.85	61.65	0.8	<5		weakly mineralized mafic tuff?	
00254528	61.65	62.25	0.6	<5		25% seds with minor chert at 32 dcta with fine seams/laminations of po/py (1% overall)	
00254529	62.25	62.9	0.65	<5		looks pillowed with quartz infill with 0.5% py/ol/trace cp dissemin	
00254530	64	64.64	0.64	6		40% moderately magnetic black argillite with up to 10% po seams/threads along fabric at 45 dcta; minor quartz infill of possible selvages with 1% py	
00254531	67.6	69.55	0.95	5		40% weak biotite altered tuff with 5-10% dissemin po; 60% argillite (magnetic) with 10% py/ol/trace sphalerite seams/threads along fabric at 53 dcta; dark grey to black bands of very fine magnetite (1mm; <5%); moderately magnetic	
00254532	68.55	69.65	1.1	<5		30% argillites interbedded with biotitic/chloritic tuff seds; 5-10% py/ol in argillite bands; <1% py/ol in tuffs/seds	
00254533	74.8	75.5	0.7	<5		50% laminated argillite at 53 dcta; with 5-10% py; 1-3% po and trace sphal; moderately magnetic	
00254534	75.55	76.55	1	<5		banded looking basalt; up to 15% cm scale biotitic bands; 5% calcite bands; pervasive calcite in host; fine py/ol/trace cp concentrated in biotitic bands; one 5cm quartz/calcite/chlorite veinlet at 45 dcta at 75.5m	
00254535	79.55	80.55	1	<5		more pillowed looking banded looking basalt; up to 15% cm scale biotitic bands; 5% calcite bands; pervasive calcite in host; fine py/ol/trace cp concentrated in biotitic bands;	
00254536	80.55	81.6	1.05	<5		banded looking basalt; up to 15% cm scale biotitic bands; 5% calcite bands; pervasive calcite in host; fine py/ol/trace cp concentrated in biotitic bands;	
00254537	83	84	1	<5		medium greenish grey to green pillowed basalt; strong pervasive calcite; 10% biotitic bands (selvages) with fine py/ol/trace cp;	
00254538	84	85	1	<5		medium greenish grey to green pillowed basalt; strong pervasive calcite; 10% biotitic bands (selvages) with fine py/ol/trace cp;	
00254539	89.6	90.6	1	<5		20% light irregular light grey quartz veinlets in contorted biotite/calcite shear zone with 1% po dissemin/trace cp; fine cp/ol in biotite selvages	
00254540				<5		DUPLICATE PULP - 00254539	
00254541	92.4	93.4	1	<5		blocky ground in pillows; po/cp concentrated in biotitic selvages; a couple of veinlets at 48/50 dcta (1cm and 10cm) both barren looking	
00254542	94.5	95.5	1	<5		more banded looking with up to 10% calcite rich=quartz veinlets parallel fabric at 50-55 dcta; trace po/cp in biotitic bands	
00254543	98.15	97.15	1	<5		banded looking basalt; 0.5% py/ol dissemin in biotitic bands	
00254544	97.15	98.15	1	<5		banded looking basalt; 0.5% py/ol dissemin in biotitic bands	
00254545	101.9	103	1.1	<5		biotite/calcite shear zone with trace to 0.5% fine py/ol dissemin threads along fabric	
00254546	103	104	1	<5		biotite/calcite shear zone with trace to 0.5% fine py/ol dissemin threads along fabric	
00254547	104	105	1	<5		biotite/calcite shear zone with trace to 0.5% fine py/ol dissemin threads along fabric	
00254548	105	106	1	<5		biotite/calcite shear zone with trace to 0.5% fine py/ol dissemin threads along fabric	
00254549	106	107	1	<5		gradational contact back into pillows	
00254550	107	108	1	<5		pillows with up to 0.5% po dissemin; trace cp	
00254551	110	111	1	<5		pillows with up to 0.5% po dissemin; trace cp	
00254552	112.7	113.6	0.9	<5		15% quartz/calcite/carb veinlets (to 8cm) at 25-43 dcta; trace py/ol/cp adjacent to veinlets and in biotitic bands	
00254553	113.6	114.6	1	<5		30% biotite/calcite shear zone at 25 dcta; local biotite alteration	
00254554	115.5	116	0.5	<5		50% quartz vein with adjacent shearing at 48 dcta; lower vein contact at 55 dcta; vein barren looking; weak py/ol minz in adjacent host	
00254555	116	117.05	1.05	<5		20cm weakly magnetic band with 5% fine po dissemin; trace py in basalt	
00254556	120.9	122	1.1	<5		fine py/ol dissemin in irregular biotitic/calcite pillow selvages	
00254557	122	123	1	<5		fine py/ol dissemin in irregular biotitic/calcite pillow selvages	
00254558	124	125	1	<5		strongly calcitic; trace fine py/ol in calcite/chlorite selvages	
50	# core samples		47.09	metres sampled			
2	#QA/QC		37.672	% sampled			
52	Total Samples						

Analyte Syrr	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
Detection Lii	0.3	0.01	3	7	1	2	0.01	0.3	1
Analysis Me	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
00254518	2.7	3.17	7	75	< 1	4	2.85	9	93

Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo
ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm
1	1	0.01	1	1	0.01	0.01	1	1	1
TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
74	313	15.3	13	< 1	0.46	1.51	23	1840	4

Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti
%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%
0.01	1	0.001	3	5	0.01	4	1	2	0.01
TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
2.01	99	0.033	32	< 5	7.37	11	184	10	0.24

Tl	U	V	W	Y	Zn	Zr
ppm	ppm	ppm	ppm	ppm	ppm	ppm
5	10	2	5	1	1	5
TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
< 5	< 10	75	18	10	2510	75

Core Box Tagging BTU-19-06

Box #	From	To	Interval
1	9.5	13.8	4.3
2	13.8	18.1	4.3
3	18.1	22.5	4.4
4	22.5	26.8	4.3
5	26.8	30.8	4
6	30.8	35	4.2
7	35	39.5	4.5
8	39.5	44	4.5
9	44	48.2	4.2
10	48.2	52.5	4.3
11	52.5	56.9	4.4
12	56.9	61.3	4.4
13	61.3	65.5	4.2
14	65.5	69.9	4.4
15	69.9	74.2	4.3
16	74.2	78.6	4.4
17	78.6	82.9	4.3
18	82.9	87.2	4.3
19	87.2	91.6	4.4
20	91.6	95.7	4.1
21	95.7	100.1	4.4
22	100.1	104.3	4.2
23	104.3	108.8	4.5
24	108.8	113	4.2
25	113	117.4	4.4
26	117.4	121.7	4.3
27	121.7	125	3.3

EOH

Point Data BTU-19-06

Depth	Type	Measurement	Comments
17	F	50	fabric in alteration zone
18.5	F	52	non-pervasive fabric
20	JC	-43	xcutting calcite joints/fractures; 9/60cm
21.6	JC	-40	xcutting joints
23.1	C	50	alteration contact
26	F	50	weak fabric
32.45	C	28	basalt to slightly coarser gabbro
36.2	F	57	
38.5	B	-30	blocky ground over 1m due to xcutting joints
53.5	F	57	ground contact from basalt to sed
44.6	BD	30	
44.9	BD	45	
45.7	F	40	
46.7	BD	22	
46.9	C	20	
50.8	V	25	quartz/calcite veinlets
52.5	SH	73	10cm shear zone?; biotite/calcite veinlets
60.1	C	25	
60.3	BD	30	
60.8	BD	45	finely laminated with some fragments
61.65	BD	30	
62.25	F	55	
64.5	BD	45	
67	F	53	
68.2	BD	60	
69.1	BD	63	
69.7	F	55	
72.5	F	63	
75.2	BD	53	
77.2	F	50	
79.2	F	40	
79.5	V	47	6cm quartz/calcite veinlet
83.4	V	35	5cm quartz veinlet sub parallel fabric
87	F	50	weak non-pervasive fabric
90.3	SH	35	contorted looking shear zone; steeper outer contacts (65-58deg) bu
93.3	V	50	ground 10cm quartz vein
95.5	F	53	fabric/biotitic bands
97.6	BN	45	banded looking basalt/veinlets
100.7	V	50	8cm quartz/calcite/carb veinlet
101.9	SH	65	start of shear zone
104	SH	65	
106	SH	70	gradational contact over 50cm
107.2	V	65	5cm quartz /carb veinlet
112.8	V	43	8cm quartz/calcite/carb veinlet; odd yellow buff mineral; trace py/po.
114.4	SH	25	25 cm shear zone
115.7	V	55	25cm quartz vein with adjacent biotite/calcite shear zone at 48 dtca
124.5	F	50	weak non-pervasive fabric

EOH

F-foliation
Ft-fault
V-vein
J-joint
JQ-quartz filled
JC-calcite filled
C-contact
BD-bedding
BN-banding
S-slip
B-blocky ground
Sh-shear zone

it at 35 dtca within; 25% irregular light grey quartz veinlets/infill

/cp adjacent to veinlet

SURVEY DATA	
DDH	BTU-19-07
Page	1 of 1
Project	Dixie Lake
Date Drilled	August 15-16, 2019
Date Logged	August 17-18, 2019
Geologist/Geotech	C.St.Louis
Core Diameter	BQW
Storage Location	Larry Herbert's
Contractor	M3 Drilling
Collar Azimuth/Dip	180/-45
EOH(m)	131.8
Overburden (m)	1.5
Casing	removed
Artesian Water	none

UTM Projection

NAD 83

UTM Zone

15

Collar Locations			Claim Cell Number	Provincial cell grid number
Approximate Coordinates (hand-held GPS)				
Easting (m)	Northing (m)	Elevation (m)		
454797	5631592		271146	52K13G398

Coordinates (differential GPS) Not Taken

Easting (m) Northing (m) Elevation (m)

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Survey Data			Uncorrected	Adjusted	Magnetic
Surv. No.	Dist from collar	hole dip	hole azimuth	hole azimuth	Field
1	0				
2	4	-43.8	175.4		56972
3	13	-43.8	174.1		56666
4	22	-43	173.5		56835
5	31	-42.1	176.5		57480
6	40	-41.7	173.8		57084
7	49	-41	173.9		56783
8	58	-39.9	175.1		56652
9	67	-39.1	174.6		56704
10	76	-38.2	178.7		56683
11	85	-37.5	186.6	178.3	56532
12	94	-36.9	178		56740
13	103	-36.1	177.5		56798
14	112	-35.2	176.9		56799
15	121	-34.3	177.4		56888
16	130	-33.7	178.6		56949

GEOLOGY LOG					Project	Dixie Lake												
DDH	BTU-19-07				Date Drilled	August 15-16, 2019					EOH	131.8						
Page	1 of 1				Date Logged	August 17-18, 2019					Comments							
					Geologist	C.St.Louis												
Depth					"Alteration,(0 to 5), sulphides as %													
From	To	width	Lithology	Description	Quartz/Silicification	Sericite	Chlorite	Fe-carbonate	Calcite	Biotite	Actinolite	Garnet	Other:	Pyrrhotite (%)	Pyrite (%)	Sphalerite (%)	Chalcopyrite (%)	Arsenopyrite (%)
0	1.5	1.5	Overburden															
1.5	12.95	11.45	Pillowed Basalt	f.g. non-magnetic; green to greenish grey chlorite/calcite/ankerite? alteration; hard; moderate to strong pervasive calcite; biotite/calcite alteration of 0.5-1cm selvages with fine py/po/trace cp dissem; chlorite/carb alteration of amydule zones +/-py dissem; minor rusty carbonated jointing at random orientations; weak non-pervasive fabric at 50-55 dtca; trace epidote in quartz vein at collar			2	1	2	0				0.2	0.2		0	
12.95	17.1	4.15	Sheared Basalt	f.g. dark brown to greenish brown biotite/calcite/chlorite altered sheared basalt; rare remnant selvage; strong pervasive fabric at 70-80 dtca; up to 0.5% po/py dissem; trace cp;			1	0	2	3				0.2	0.1		0	
17.1	23	5.9	Pillowed Basalt	as above with 5-10% biotite/calcite altered selvages/bands with fine py/po dissem; trace cp;			2	2	2	1				0.2	0.3		0	
23	28.65	5.65	Banded Pillowed Basalt	as above but banded looking due to increased alteration and fabric intensity; more amygdules; up to 10% biotite/calcite selvages with py/po trace cp; 24.4-24.7m mafic dyke with sharp contacts at 45/55 dtca; weak internal fabric at 55 dtca; 5-10% 2-3mm biotite clots parallel fabric			2	2	2	1				0.2	0.3		0	
28.65	36.7	8.05	Recrystallized Basalt	coarser looking with 3-10mm dark green bladed amphibole/actinolite? at random orientations; weaker calcite in host; very hard; non-magnetic; rare biotite/calcite bands - remnant selvages??; 10 cm shear zone upper contact at 75 dtca; 15cm quartz filled shear zone at lower contact at 77 dtca			2		1	0				0.1				

Samples BTU-19-07

Sample#	From	To	Width	Au		Description
				ppb 5	g/tonne 0.03	
				FA-AA	FA-GRA	
00254559	1.5	2.75	1.25	< 5		hard pillowed basalt with calcite/carb alteration; biotite/calcite selvages with fine po/py dissemin (0.5% overall)
00254560				> 5000	8.35	STANDARD CDN-GS-9B
00254561	2.75	4	1.25	< 5		hard pillowed basalt with calcite/carb alteration; biotite/calcite selvages with fine po/py dissemin (0.5% overall)
00254562	5.8	6.8	1	< 5		hard pillowed basalt with calcite/carb alteration; biotite/calcite selvages with fine po/py dissemin (0.5-1% overall)
00254563	8.35	9.35	1	< 5		hard pillowed basalt with calcite/carb alteration; biotite/calcite selvages with fine po/py dissemin (0.5-1% overall); trace cp
00254564	9.35	10.35	1	< 5		hard pillowed basalt with calcite/carb alteration; biotite/calcite selvages with fine po/py dissemin (0.5-1% overall); trace cp
00254565	12.95	14	1.05	< 5		biotite/chlorite/calcite shear zone at 70 dtca; rare remnant selvage; fine po/py dissemin; trace cp
00254566	14	15	1	< 5		biotite/chlorite/calcite shear zone at 70 dtca; rare remnant selvage; fine po/py dissemin; trace cp
00254567	15	16	1	< 5		biotite/chlorite/calcite shear zone at 70 dtca; rare remnant selvage; fine po/py dissemin; trace cp
00254568	16	17.1	1.1	< 5		biotite/chlorite/calcite shear zone at 70 dtca; rare remnant selvage; fine po/py dissemin; trace cp
00254569	17.1	18.1	1	< 5		pillowed basalt with 5% biotite/calcite selvages with up to 0.5% po/py dissemin; carbonate altered; 2-5% wispy calcite stringers/threads
00254570	19.05	20	0.95	< 5		pillowed basalt with 10% biotite/calcite selvages with up to 1% po/py dissemin overall; carbonate altered
00254571	22	23	1	< 5		pillowed basalt with 10% biotite/calcite selvages with up to 1% po/py dissemin overall; carbonate altered
00254572	24.75	25.7	0.95	< 5		same; greyer with carb alteration in amygdules;
00254573	27.65	28.65	1	< 5		carb altered amygdule zone; 1-3% py dissemin concentrated in biotite/chlorite/calcite selvages
00254574	28.65	29.55	0.9	< 5		more massive; more chloritic; 0.5% po/py; trace cp
00254575	32.5	33.5	1	< 5		10cm sheared contact zone at 32.8m; biotite/calcite/chlorite alteration with minor quartz veinlets and py dissemin
00254576	35.7	36.7	1	< 5		recrystallized bladed basalt; 0.5% py; fine po in rare biotite/calcite band
00254577	36.7	37.7	1	< 5		back into pillowed basalt; slightly coarser due to above unit?; 10cm light grey to white quartz in 15cm sheared contact zone at 77 dtca
00254578	40.15	41.4	1.25	< 5		more banded looking due to 25% biotite/calcite stringers/ veinlets at 55 dtca; one 15mm quartz veinlet; py/po in biotite alteration
00254579	43	44.15	1.15	< 5		dark green; very hard (silicified?); 2-3% py dissemin; 0.5% po/trace cp
00254580				< 5		BLANK
00254581	44.15	45.3	1.15	< 5		dark green; very hard (silicified?); 2-3% py dissemin; 0.5% po/trace cp; rare selvage
00254582	45.3	46	0.7	< 5		45.5m 25cm biotite/calcite shear zone at 70 dtca with some quartz infill and fine po
00254583	47	48	1	< 5		20% irregular calcite veinlets/selvages with minor py/po dissemin
00254584	49	50	1	< 5		more banded looking with 15% white calcite veinlets up to 3cm at 47-50 dtca; weak biotite alteration; 0.5% py
00254585	52	53	1	< 5		chlorite/carb/calcite alteration; hard dark green; py/po/trace cp in selvages
00254586	56	57	1	< 5		pillowed; 0.5% py
00254587	57	58	1	< 5		pillowed; 0.5% - 1% py
00254588	58	58.9	0.9	< 5		50% greyer to buff; silicified/carb altered; trace magnetite; 1% py
00254589	58.9	59.7	0.8	< 5		50% carb altered breccia zone 30/45 deg contact; barren looking
00254590	64	65	1	< 5		altered basalt; 1% py
00254591	65	66.1	1.1	< 5		altered basalt; 1% py
00254592	66.1	67	0.9	< 5		altered basalt; 1% py
00254593	67	67.9	0.9	< 5		altered basalt; 1% py
00254594	67.9	68.9	1	< 5		basalt becoming coarser and more massive looking toward contact at 20 dtca
00254595	68.9	70	1.1	< 5		sheared contact zone with calcite veinlets at 15-20 dtca; weakly magnetic; 1% po/py dissemin
00254596	70	71.1	1.1	< 5		strong po mineralization (10%); 1% py; 30cm iron formation with po/sphal/py dissemin and threads along 20 deg banding
00254597	71.1	72	0.9	< 5		gabbro; moderately magnetic; 2-5% po dissemin; <1% py
00254598	73	74	1	< 5		gabbro; 5% calcite stringers along core; py/po/trace cp/sphal adjacent to 1-2mm quartz/calcite stringers at 40 and-35 dtca
00254599	75	76	1	< 5		gabbro; coarser; non-magnetic; 1-3% po dissemin; one 5cm quartz/carb veinlet at 65 dtca (barren) with adjacent garnets
00254600				< 5		DUPLICATE PULP - 00254599
00254601	77	78	1	< 5		gabbro; moderately magnetic; 2-5% po dissemin; <1% py; 77.3-77.5m buff carb/silica alteration in shear zone? at 35 dtca with py dissemin
00254602	80.45	81.45	1	< 5		gabbro; strongly magnetic; 2-5% magnetite grains; 1-2% po; 10% calcite veinlets at 20-35 dtca;
00254603	82.75	83.75	1	< 5		50% grey pillowed fragment? in strongly magnetic gabbro; 3-8% magnetite; 1-3% po dissemin
00254604	83.75	84.8	1.05	< 5		gabbro; magnetic; 3-5% magnetite grains and within irregular pink garnets; 1-2% po; up to 1% py in patches
00254605	84.8	85.9	1.1	< 5		pillowed lava; medium to dark grey with chloritic selvages with fine po/py/trace cp;
00254606	85.9	87	1.1	< 5		pillowed lava; medium to dark grey with chloritic selvages with fine po/py/trace cp;
00254607	89	90	1	< 5		pillowed lava; medium to dark grey with chloritic selvages with fine po/py
00254608	91	92	1	< 5		pillowed; greener; more chloritic with trace garnets; 1-2% py dissemin
00254609	93	94	1	< 5		pillowed; greener; more chloritic with trace garnets; 1-2% py dissemin; py also on fracture planes
00254610	95	96	1	< 5		30% buff carb/sericite alteration zone at 63 dtca with fine py dissemin;
00254611	96	97	1	< 5		30% light brownish buff carb alteration/bleaching associated with xcutting joints sets; very fine py/po in chloritic host
00254612	100	101	1	< 5		dark grey with chlorite; 15% calcite/<quartz stringers at 15 dtca; 0.5% fine py/po dissemin
00254613	101	102	1	< 5		pillowed; introduction of biotitic selvages with 1-3mm chloritic rims; fine py/po/trace cp concentrated in selvages
00254614	102	103	1	< 5		pillowed; introduction of biotitic selvages with 1-3mm chloritic rims; fine py/po/trace cp concentrated in selvages
00254615	104.6	105.6	1	< 5		50% more chloritic with 1-3% fine po dissemin; trace garnets in some selvages;
00254616	105.6	106.6	1	< 5		pillowed; stronger po/cp in selvages; quartz vein along core for 15 cm
00254617	108	109	1	< 5		pillowed; po/trace cp in selvages
00254618	110	111	1	< 5		pillowed; po/trace cp in selvages
00254619	112	113	1	< 5		pillowed; po/trace cp in selvages
00254620				1120		STANDARD CDN-GS-1W
00254621	114.2	115.2	1	< 5		stronger alteration in selvages below dyke; part of quartz/carb vein along contact;
00254622	116	117	1	< 5		1% coarser py in biotitic selvages; blocky contact into gabbro/coarser basalt below
00254623	120	121	1	< 5		gabbro?; trace fine po dissemin in host
00254624	125	126.05	1.05	< 5		gabbro; coarser; trace to 0.3% py dissemin in patches
00254625	126.05	127.1	1.05	< 5		gabbro; very coarse; green (actinolite); garnetiferous with 1-3% py dissemin and threads
00254626	131	131.8	0.8	< 5		basalt; EOH

64 # core samples 64.55 metres sampled
 4 # QA/QC 48.97572 % sampled
 68 Total samples

Analyte Syrr	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
Detection Lii	0.3	0.01	3	7	1	2	0.01	0.3	1
Analysis Me	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
00254573	0.7	5.4	< 3	369	< 1	< 2	6.92	1.1	68
00254596	0.7	5.28	4	29	< 1	3	4.93	6.9	67

Cr ppm 1 TD-ICP	Cu ppm 1 TD-ICP	Fe % 0.01 TD-ICP	Ga ppm 1 TD-ICP	Hg ppm 1 TD-ICP	K % 0.01 TD-ICP	Mg % 0.01 TD-ICP	Li ppm 1 TD-ICP	Mn ppm 1 TD-ICP	Mo ppm 1 TD-ICP
104	292	11.6	14	1	1.16	3.37	15	1940	< 1
41	259	17.7	18	5	0.13	2.47	11	3130	< 1

Na	Ni	P	Pb	Sb	S	Sc	Sr	Te	Ti
%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%
0.01	1	0.001	3	5	0.01	4	1	2	0.01
TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
2.26	132	0.045	< 3	< 5	1.09	25	511	10	0.67
1.53	134	0.05	< 3	< 5	2.91	20	226	< 2	0.4

Tl	U	V	W	Y	Zn	Zr
ppm	ppm	ppm	ppm	ppm	ppm	ppm
5	10	2	5	1	1	5
TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
< 5	< 10	191	< 5	16	114	57
< 5	< 10	147	21	15	1710	77

Core Box Tagging BTU-19-07

Box #	From	To	Interval
1	1.5	5.6	4.1
2	5.6	10	4.4
3	10	14.4	4.4
4	14.4	18.7	4.3
5	18.7	23	4.3
6	23	27.3	4.3
7	27.3	31.7	4.4
8	31.7	36	4.3
9	36	40.4	4.4
10	40.4	44.8	4.4
11	44.8	49.1	4.3
12	49.1	53.4	4.3
13	53.4	57.7	4.3
14	57.7	62	4.3
15	62	66.3	4.3
16	66.3	70.8	4.5
17	70.8	75.1	4.3
18	75.1	79.4	4.3
19	79.4	83.8	4.4
20	83.8	88.1	4.3
21	88.1	92.5	4.4
22	92.5	96.9	4.4
23	96.9	101.3	4.4
24	101.3	105.8	4.5
25	105.8	110.1	4.3
26	110.1	114.7	4.6
27	114.7	118.9	4.2
28	118.9	123	4.1
29	123	127.4	4.4
30	127.4	131.8	4.4

EOH

Point Data BTU-19-07

Depth	Type	Measurement	Comments
3.5	J	-50	rusty carbonate joint
4	J	-40	rusty carbonate joint
4.5	F	35	hairline grey silicified hairline fault
8.1	JC	-10	1mm calcite filled
10.7	JC	-5	1mm calcite filled
6.5	F	55	non-pervasive fabric
12.95	F	60	stronger fabric; start of shear zone
14.1	F	70	shear zone
15.3	F	80	shear zone
16	F	70	shear zone
17.1	F	70	lower contact of shear zone
18.3	JC	-25	hairline calcite filled closed joints; 5/40cm
24.4	C	45	upper contact of dyke
24.75	C	55	lower contact of dyke
24.9	JC	-5	1mm calcite filled
25.3	F	52	weak non-pervasive fabric
28.65	BN	45	lower contact of more banded basalt
32.8	SH	75	10cm contact shear zone/fault
36.8	SH	77	15cm quartz filled contact shear zone
38.3	F	55	weak fabric
40.4	SH	55	20cm biotite/calcite shear zone
41.2	BN	42	40cm silicified zone with carb stringers
45.5	SH	70	45.4-45.7m biotite/calcite shear zone with minor quartz infill
50	F	50	weak fabric
51	BX	35	1cm carb altered breccia zone;
52.5	V	50	1cm calcite veinlet along fabric
58.2	SH	50	58-58.4m sheared silicified/carb altered zone; trace magnetite; up to
59.3	BX	45	59-59.5m buff coloured carb altered breccia zone; 30/45 deg contact
63	F	55	banded appearance
64.5	JC	-40	6/50cm
66.7	J	-25	8/30cm; poorly developed
69	SH	20	sheared contact zone at 20-25 dtca with calcite veinlet infill
70.7	F	25	weak fabric in gabbro
70.9	BN	20	banded iron formation
71.1	C	40	lower contact of iron formation (floating fragment?)
75.6	V	65	5cm quartz/carbonate veinlet; barren
77.4	SH	35	mineralized altered shear zone? (15cm)
84.8	C	45	15mm brecciated contact zone with pillowed basalts below
85.2	F	45	weak non-pervasive fabric
89.3	JQ	-25	2/10cm; grey xcutting quartz/carb filled joints/fractures to 5mm wide
93.5	F	50	weak fabric
96	J	-40	1-2cm spacing over 1m with adjacent carb alteration/bleaching
96.4	J	23	hairline joints with adjacent carb alteration/bleaching; 3/25cm
104	F	65	weak non-pervasive fabric
105	V	-57	3cm smokey quartz veinlet
107.7	JC	-37	2/10cm; grey xcutting quartz/carb filled joints/fractures to 5mm wide
110.5	F	65	non-pervasive fabric
113.65	C	25	upper contact of dyke
114.5	C	20	lower contact of dyke
119.5	J	-30	119.0-122.5m blocky ground due to multiple joints
123	F	25	much shallower fabric

F-foliation
Ft-fault
V-vein
J-joint
JQ-quartz filled
JC-calcite filled
C-contact
BD-bedding
BN-banding
S-slip
B-blocky ground
Bx-breccia
Sh-shear zone

1% py dissemin

:s

SURVEY DATA	
DDH	BTU-19-08
Page	1 of 1
Project	Dixie Lake
Date Drilled	August 18-21, 2019
Date Logged	August 20-24, 2019
Geologist/Geotech	C.St.Louis
Core Diameter	BQW
Storage Location	Esker Logging
Contractor	M3 Drilling
Collar Azimuth/Dip	212/50
EOH(m)	293
Overburden (m)	16.3
Casing	removed
Artesian Water	none

UTM Projection

NAD 83

UTM Zone

15

Collar Locations			Claim Cell Number	Provincial cell grid number
Approximate Coordinates (hand-held GPS)				
Easting (m)	Northing (m)	Elevation (m)		
462013	5632039		227047	52K13H374

Coordinates (differential GPS) Not Taken

Easting (m) Northing (m) Elevation (m)

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Survey Data			Uncorrected	Adjusted	Magnetic
Surv. No.	Dist from collar	hole dip	hole azimuth	hole azimuth	Field
1	0				
2	14	-55.9	23.9	211.5	39968
3	23	-55.5	211.3		57197
4	32	-55	210.6		56843
5	41	-54.4	209.8		56864
6	50	-53.9	210.7		56789
7	59	-53.1	211.2		56938
8	68	-52.4	210.3		57150
9	77	-51.7	210.6		56814
10	86	-51.1	210.3		56818
11	95	-50.9	210.5		56844
12	104	-50.5	210.9		56830
13	113	-49.5	210.6		56781
14	122	-49.1	210.7		56826
15	131	-48.4	210.9		56859
16	140	-47.7	209.9		57060
17	149	-47.1	209		56628
18	158	-46.5	208.8		57408
19	167	-45.9	209.4		58094
20	176	-45.3	209.6		57135
21	185	-44.8	210		57747
22	194	-44.1	211		56515
23	203	-43.4	210.2		56583
24	212	-42.8	211.6		57305
25	221	-42.3	210.7		56760
26	230	-41.8	210.6		56628
27	239	-41.2	212		57031

28	248	-40.8	212.6	57000
29	257	-40.3	211.6	56969
30	266	-39.8	213.7	56764
31	275	-39.2	211	58721
32	284	-38.7	212.3	56608
33	293	-38.2	213.9	56710

		40.9	47	6.1	Banded Mudstone	finely laminated; medium grey brown to greenish grey; 5% garnet bearing bands up to 2cm wide along strong pervasive fabric/bedding at 45-53 dtca with 0.5% po/py dissem; 1-2% light grey to white quartz stringers up to 1cm wide parallel fabric; ground lower contact	1	1			2	0			0.1	0.5			
		47	52.1	5.1	Altered Mafic Tuff	f.g. to 1mm; medium green chloritic with pervasive 1-3mm irregular pink garnets; moderate fabric at 55-60 dtca; 49.55-50.55m altered quartz porph unit; light green carb altrn; to grey; more siliceous; 5% quartz stringers at 40-50 dtca sub parallel fabric; trace py and one thread of sphalerite; lower contact at 50 dtca	0	2			0	1				0.1	0		
		52.1	62.65	10.55	Quartz Porphyry Tuff	f.g. to 1mm; buff to med grey to green with garnets; banded at 50-55 dtca; up to 0.5% fine po dissem associated with zones of increased quartz veining (<1cm); minor py along some fabric planes; 55.45-55.7m quartz vein +/-biotite/chlorite with trace po/py dissem at 37/55 dtca; trace 1mm blue quartz eyes; sharp lower contact at 45 dtca	1	2			1	0			0.2	0.1			
		62.65	67.4	4.75	Mudstone	very fine grained; finely laminated/bedding at 55 dtca; minor light grey quartz veinlets subparallel to the fabric at 47-55 dtca; patches of garnets; lower contact at 57 dtca					1	0			0.1				
		67.4	69	1.6	Tuff	buff to grey banded quartz tuff; trace py/po dissem; lower contact at 65 dtca	2				1								
		69	75.8	6.8	Mafic Tuff	f.g. to 1mm; darker grey to brownish grey; trace blue quartz eyes; trace po/py; moderate fabric at 55 dtca; lower contact at 60 dtca		1			1								
		75.8	96	20.2	Tuff (Quartz)	buff grey to medium greenish grey; pervasive fabric at 50-60 dtca; up to 1% fine 1mm blue quartz eyes; garnets in more chloritic patches; silicified; minor xcutting joints at -25 to -35 dtca +/- py dissem; one 5mm quartz/carb stringer with coarser 1mm aspy grains at 81.7m at 48 dtca; 63 deg lower contact	1	2	1		0	2	0						
		96	105.1	9.1	Altered Tuff	f.g. banded appearance with equal parts medium green chloritic bands to 10cm +/-garnets and light pinkish brown biotitic bands at 55 dtca; non-magnetic; weak to mod calcitic concentrated in greener bands; minor shallow angle calcite stringers xcutting fabric; garnets in patches up to 5mm in size; overall trace po/py dissem concentrated in the greener bands; 55 deg veined lower contact			2		2	2	0						
		105.1	107.8	2.7	Tuff (Quartz)	similar to tuff unit above; up to 15% buff more sericitic zone; biotite/chlorite still banded with +/- garnets; weak to moderately magnetic throughout; 5-10% po dissem along pervasive fabric at 55-60 dtca; up to 5% py in sections; rare quartz veinlets along fabric; gradational contact back into chloritic tuff	1	1	2		1	2	0		5	2			

			107.8	110.8	3	Altered Tuff	f.g to 1mm chloritic tuff (mafic?); 15% fine brownish grey mudstone bands at 45 dtca; pervasive chlorite/biotite/calcite bands at 55 dtca with some bands up to 20% 1mm pinkish red garnets; weakly magnetic; 1-3% po dissem and 2-3% py dissem in greener bands; 5% dark grey quartz veinlets/bands generally along fabric; 109.85-110.2m finely laminated mudstone			3		2	2			1				2	1				
			110.8	113.15	2.35	Mudstone	medium grey to yellow buff where sericitic; chloritic where slightly coarser; trace py/po along fabric; 20 cm quartz/calcite/biotite veinlets/shear at 111.1m;																		
			113.15	115.3	2.15	Gabbro	f.g. to 1mm; blue grey to green gabbroic looking (coarser silicified mafic tuff?) with 2-3mm chlorite clots; relatively massive with 2-5% po dissem throughout but non-magnetic; sharp contacts at 45/53 dtca	1		2		0								2					
			115.3	120.4	5.1	Altered Tuff	f.g. to 0.5mm; medium to dark green with pervasive chlorite alteration with minor calcite; 15% browner bands with biotite; 5% calcite+/-quartz stringers to 1cm along fabric at 50-55 dtca; trace po with rare speck of chanco			3		1	2												
			120.4	123.9	3.5	Argillaceous Seds	aphanitic to very fine grained dark blackish grey bands/seds at 57 dtca; 15% green bands with chlorite/calcite alteration; very weak biotite; 1-3% po dissem and as threads along the fabric and within the greener bands with minor py			1		1	1							1	0.1				
			123.9	125.2	1.3	Tuff	f.g. greenish grey to brownish grey with chlorite/biotite alteration; relatively massive; sharp contacts at 50/57 dtca; 1% fine po dissem; trace aspy in one 5mm dark grey quartz rich band (veinlet?)			1			1							0.5					0.05
			125.2	129.6	4.4	Tuffs	more banded medium grey to brownish grey; very f.g. to 1mm distinct tuff bands up to 30cm; 10% quartz veinlets up to 5cm along fabric and at 30 dtca (NE strike?); up to 15% greener chloritic/calcite bands; 1-3% po dissem and 1mm seams/threads along fabric; trace py			1		1	2			0				1	0.1				
			129.6	144.8	15.2	Argillites	aphanitic to very fine grained dark grey black to brownish grey bands (mm to cm scale) at 45-60 dtca; weak to moderately magnetic throughout; trace garnets to 1mm in some of the greener more chloritic bands (<5%); 2-5% po dissem and 1-3mm seams/threads along the fabric; up to 10% locally; less py but up to 2-3% locally and as 1mm xcutting threads/joints at -50 dtca; blocky ground break up along fabric and where there are xcutting joints; fabric parallel lower contact at 60 dtca			1		0	1							3.5					

			144.8	159.4	14.6	Mudstone	medium grey to grey green bands with 1mm garnets; 20% as black argillites; po/trace cp minz contained in argillites; minor po in remainder; moderate fabric at 60-65 dtca; localized veining with alteration; blocky ground 147.8-150.6m due to fabric and xcutting joints at -45 to -55 dtca;				1		0	0		1		0.2		0.01			
			159.4	165.1	5.7	Tuffaceous Seds	f.g. brownish grey to greenish grey; 25% slightly coarser calcitic/garnetiferous bands (<0.5m) more like tuff in f.g. fine tuff/mudstone at banded at 50-65 dtca; weakly magnetic; trace fine po dissem			0	1		0	1		1		0.1					
			165.1	179.1	14	Argillaceous Seds	finely laminated at mm to cm scale dark blackish grey to greenish grey at 45-65 dtca; local folding/slumping visible; fine po dissem/threads along fabric throughout; weak magnetic; patches of 1-2mm irregular pinkish red garnets; lighter green with fine sericite adjacent to zones of quartz stringers generally along the fabric; trace amounts of 1mm aspy grains or rare bleb along some stringers			1	1		0			1		2	0.2			0.05	
			179.1	183.2	4.1	Tuffaceous Seds	medium grey; moderate fabric/banding at 55-60 dtca; fine grained seds/tuff; green sericite alteration adjacent zones of veinlets; weakly magnetic in patches; trace to 1% fine po dissem and as planar threads; po/trace cp in stringers;			1	1					0		0.5	0.05			0.05	
			183.2	191.3	8.1	Argillaceous Seds	f.g. blackish grey to medium greenish grey; very blocky ground; 65 deg banding; 1-2% boudinaged quartz stringers with coarse py blebs; fine po in host									0		0.2	0.2				
			191.3	197.85	6.55	Tuffaceous Seds	lighter grey; slightly coarser more tuffaceous looking bands up to 0.5m wide; 25% argillite; blocky ground; sericite/carb alteration in veinlet zones with po/py/trace cp/trace aspy			1		1						0.2	0.1			0.05	0.05
			197.85	206.9	9.05	Argillaceous Seds	well banded on mm to cm scale (6cm); very blocky ground; narrow zones of 1-2% stringers with weak sericite/carb alteration; very fine po; coarser py planar threads and along joint/fracture planes; lower contact at 53 dtca			0		0						0.2	0.1			0.05	0.05
			206.9	216.35	9.45	Tuffaceous Seds	more tuffaceous looking with half meter sections of finely laminated seds/tuffs at 55-60 dtca; local zones of some veining with adjacent sericite/carbonate/<biotite alteration with coarser po/trace cp; 20-40cm zones of more biotitic quartz porphyry bands			1		1		0				0.2				0.05	
			216.35	227.8	11.45	Tuff	f.g. medium greenish grey to brownish grey; more massive overall; weak fabric at 60 dtca; <1% veinlets; trace po dissem and trace py along joints; sections with possible fragments; blocky ground at lower contact			0				0				0.1	0.05				

Samples BTU-19-08

Sample#	From	To	Width	Au		Description
				ppb	g/tonne	
				5	0.03	
				FA-AA	FA-GRA	
00254627	16.3	17.3	1			altered medium brown tuff with trace to polpy disse
00254628	18	19	1			same; 10% quartz stringers (to 1cm) with arnular texture parallel fabric at 50-55 dtca; 0.5% fine py disse and as coarser splashes (to 5mm) on fabric planes
00254629	20	21	1			same; 50% yellow buff with sericite alteration; py on fabric planes; one 2cm quartz veinlet at 70 dtca
00254630	24	25	1			brown green; 0.5% py
00254631	26.2	27.2	1			weaker sericite; more carbonate alteration; one 25mm quartz/carb veinlet at 55 dtca; 0.5-1% py disse and on fabric planes
00254632	29.95	31	1.05			finer grained; greener at 40-47 dtca; up to 0.5% py
00254633	32.85	34	1.15			banded light brown to yellow green; 10% quartz veinlets at 40-65 dtca; py along fabric
00254634	35	36	1			stronger alteration; 0.5-2% py disse/splashes; trace to 0.5% po disse brown to green; garnets;
00254635	36	37	1			stronger alteration; 0.5-2% py disse/splashes; trace to 0.5% po disse brown to green; garnets;
00254636	37	38.15	1.15			stronger alteration; 0.5-2% py disse/splashes; trace to 0.5% po disse brown to green; garnets;
00254637	38.15	39.3	1.15			stronger alteration; 0.5-2% py disse/splashes; trace to 0.5% po disse brown to green; garnets;
00254638	39.3	40.3	1			10-15% darker grey quartz veinlets up to 2cm along fabric; silicified; 1-2% py; 1% finer po
00254639	43.2	43.9	0.7			15% quartz +/- chlorite stringers up to 1cm with po/trace cp mineralization; minor py; chloritic bands with garnets
00254640						BLANK
00254641	46	47	1			30% greener chloritic bands with garnets with 1-2% po disse; minor py in biotitic host
00254642	49.55	50.55	1			10% quartz stringers/veinlets along stroner fabric at 55 dtca; pervasive carb/silica alteration; 0.5% fine py; trace sphalerite
00254643	54.3	55.2	0.9			5% 5-10mm white quartz stringers along fabric; trace py
00254644	55.2	55.7	0.5			white quartz vein +/- biotite/chlorite flecks; trace fine po/trace disse; gradational upper contact 37 dtca; sharper lower contact at 55 dtca
00254645	55.7	56.9	1.2			10% fabric parallel (40-53 dtca) quartz stringers up to 1cm wide with fine po disse in stringers and adjacent host;
00254646	61.6	62.65	1.05			20% white to light grey quartz veinlets up to 5cm wide along fabric with fine po and trace cp within veinlets and in adjacent host;
00254647	65.65	66.7	1.05			60% blue grey more silicified - possible iron formation? 5% 1cm white quartz stringers; coarse py disse in more chloritic patches; garnets up to 5mm adjacent to vuggy veinlets with coarse py
00254648	66.7	67.4	0.7			8% 1cm white quartz stringers along fabric; coarser patches of py/po in chloritic patches
00254649	72	73.1	1.1			14% white quartz veinlets up to 10cm wide; barren looking
00254650	73.9	75.1	1.2			up to 30% white quartz veining up to 15 cm wide; trace po/cp disse; py along xcutting joint at -20 dtca;
00254651	75.1	76	0.9			5% quartz stringers; trace po
00254652	76	77	1			20% green bands with garnets and coarse py/po disse
00254653	81	82	1			xcutting joints at -30 dtca with fine py disse; one 5mm quartz/calcite stringer at 48 dtca with aspy grains
00254654	85	86	1			py on joint surfaces
00254655	88	89	1			5% quartz/calcite stringers at 47 dtca with minor po
00254656	90.1	91.1	1			10% quartz stringers to 1cm wide along fabric at 52 dtca with minor po
00254657	93	94	1			greener bands up to 5cm containing up to 5% py disse; overall 0.5% py; trace po
00254658	96	97.2	1.2			mostly chloritic; 10% quartz/calcite stringers up to 2cm wide with minor po and trace cp
00254659	99.9	101	1.1			75% chloritic green bands with minor garnets up to 5mm in size; minor po disse; trace
00254660				14		DUPLICATE PULP - 00254659
00254661	102.9	104	1.1	156		1% very fine po disse
00254662	104	105.3	1.3	102		10% po disse along fabric; moderately magnetic;
00254663	105.3	106.3	1	9		5-10% po disse to 106m; 10% py disse 106-106.3m
00254664	106.3	107	0.7	20		trace py/po adjacent irregular veinlet
00254665	107	108.15	1.15	9		banded chlorite/calcite/garnets; 20% siliceous tuff; 1-2% fine po; minor py
00254666	108.15	109.3	1.15	12		3-5% po disse; weakly magnetic; dark grey siliceous bands/veins? along fabric
00254667	111	112.1	1.1	7		f.g. grey mudstone with 15% quartz/calcite veinlets with minor po; 0.5% po in host;
00254668	113.15	114.25	1.1	<5		gabbroic looking; blue grey to green with 15% 1-3mm biotite flecks; 2-5% po disse throughout
00254669	114.25	115.3	1.05	<5		gabbroic looking; blue grey to green with 15% 1-3mm biotite flecks; 2-5% po disse throughout
00254670	119.4	120.4	1	5		chloritic tuff; 15% biotitic; calcite with chlorite; 1-2% fine po disse
00254671	120.4	121.55	1.15	10		2% po threads/seams along fabric in argillite
00254672	121.55	122.7	1.15	7		argillite with up to 15% quartz+/calcite at 53 dtca to along fabric; 2-3% po disse; blocky ground
00254673	122.7	123.9	1.2	50		up to 35% greener more tuffaceous looking bands with chlorite/calcite alteration; weaker biotite; 1% po/ tr py
00254674	123.9	125.2	1.3	8		more massive tuffaceous unit with fine 1% po disse
00254675	126.2	127.2	1	7		25% chlorite/weak calcite alteration bands with up to 3% very fine py disse; 0.5-1% fine po disse and threads along fabric at 45-60 dtca
00254676	127.2	128.25	1.05	6		10% dark grey quartz bands/veinlets? along fabric; 2-3% po disse/threads within fabric and quartz
00254677	128.25	129.25	1	<5		15% light grey quartz+/calcite veinlets up to 5cm wide along fabric and at 25 dtca (NE trending?); in biotitic tuff with 1-3% po disse
00254678	130.25	131.45	1.2	13		finely laminated mudstone/argillite at 60 dtca; moderately magnetic; 3-8% po disse/seams along fabric; minor py along xcutting fractures/joints
00254679	132.75	133.75	1	7		dark black grey to green with trace garnets; fabric 65 dtca; moderately magnetic; 1-2% po/ py along fabric
00254680				> 5000	9.31	STANDARD CDN-GS-9B
00254681	134.7	135.7	1	10		very f.g. black argillaceous unit; weakly magnetic; 1-3% po; threads of py (<0.5mm) in xcutting joints at -50 dtca
00254682	137	138.15	1.15	6		same; 10% greener chloritic/weakly calcitic bands with minor fine garnets and minor quartz stringers (<1cm);
00254683	138.15	139.15	1	7		moderately magnetic argillite with 3-5% po
00254684	140.15	141.15	1	7		moderately magnetic argillite with 3-5% po
00254685	141.15	142.05	0.9	7		moderately magnetic argillite with 3-5% po
00254686	143	144.2	1.2	9		argillite/mudstone at 60-65 dtca; 10% granular looking quartz veinlets with coarser po disse
00254687	144.8	145.8	1	8		buff brown to light grey green mudstone; sericite/chlorite/biotite alteration; xcutting joints at -47 dtca
00254688	150	150.8	0.8	16		15% fabric parallel quartz veinlets up to 8cm wide; fine py at contacts; two 5mm veinlets with a couple of specks of 1mm aspy grains; blocky ground due to fabric
00254689	150.8	151.6	0.8	6		5% quartz stringers with minor po/ py; 3 specks of 0.5mm aspy grains in host
00254690	152.6	153.6	1	8		35cm more argillaceous zone containing 30% quartz stringers <1cm with 1-2% fine threads of po and trace cp; py in calcite joints at -50dtca
00254691	155	156.6	1	<5		10% white quartz/calcite veinlets up to 5cm with trace py/po; py along xcutting joints at -45 dtca
00254692	158	159	1	8		blocky argillite at 57 dtca; 1-2% py along fabric planes and along fractures; trace <1mm grains aspy along dark grey quartz bands;
00254693	162.3	163.35	1.05	7		tuffaceous looking; pale green sericite/brown biotite/patches of fine garnets; 15cm white quartz vein with minor po/trace cp
00254694	167.3	167.8	0.5	6		20% white to light grey quartz veinlets up to 3cm wide along fabric with irregular blebs of po; weak green sericite alteration; minor bleaching;
00254695	167.8	168.8	1	9		1% po/minor py; trace 1mm aspy grains over a 1cm zone
00254696	168.8	169.45	0.65	15		15% dark grey more siliceous bands/veins?; 2-5% po threads/wisps along fabric
00254697	169.45	170.3	0.85	14		med to dark grey; 0.5% po
00254698	170.3	171.1	0.8	15		3-5% po; weak to moderate magnetic; one 3mm band with coarser aspy
00254699	171.1	172.05	0.95	11		5% quartz stringers along fabric with minor po; 1-2% planar po
00254700				5		BLANK
00254701	172.05	172.65	0.6	8		3% quartz stringers with internal and adjacent po; one speck of 1mm aspy
00254702	174	175	1	9		folded bands in argillite at 45-55 dtca; 1% fine po; trace cp
00254703	177	177.5	0.5	10		10% quartz veinlets with adjacent sericite/carb alteration; po/trace py in veinlets; fine po in host
00254704	179.1	180.1	1	21		25% wispy quartz stringers along fabric in sericite/carb altered host; 2-5% po disse; trace cp
00254705	180.1	181	0.9	7		0.5% fine po; trace py
00254706	181	182	1	7		10% dark grey quartz bands/veinlets? along fabric; 2-3% po disse/threads within fabric and quartz; trace cp; patches of fine garnets
00254707	183	184.65	0.95	8		5% fabric parallel quartz stringers; 1% po disse/threads within fabric and quartz
00254708	185.7	186.6	0.9	9		5% fabric parallel quartz stringers; 0.5-1% po disse/threads; 0.5% planar py threads(<0.5mm)
00254709	186.6	187.6	1	32		10% quartz stringers along fabric; 1-2% coarser py; 0.5-1% fine po
00254710	187.6	188.6	1	8		5% boudinaged stringers along fabric with up to 1% coarser py; very blocky ground
00254711	190.3	191.3	1	10		1-2% po disse/threads/ 0.5% py;
00254712	195.6	196.2	0.6	7		altered stringer zone at 50 dtca; 10% str with up to 1% po/cpy; green sericite/carb alteration
00254713	196.2	196.75	0.55	8		altered; trace po
00254714	196.75	197.85	1.1	8		50% altered veinlet zone at 45-50 dtca; sericite/carb alteration; 1-2% coarse po disse/blebs; trace 1mm aspy grains in one stringer; minor py
00254715	197.85	199	1.15	10		darker grey; 1-2% py planar threads and along xcutting joints
00254716	204.05	205	0.95	9		20% pale green sericite/carb alteration and one 15cm stringer zone with po/trace cp and trace aspy grains
00254717	207.35	208.35	1	12		altered tuff with up to 20% white to light grey quartz veinlets with minor po/trace cp; weak sericite/carb alteration; trace biotite
00254718	212.55	213.55	1	10		10% quartz stringers/veinlets along fabric at 45-55 dtca; across mudstone/tuff contact; weak sericite/biotite/carb alteration; up to 0.5% po with trace cp
00254719	213.55	214.6	1.05	18		tuff with 1% finely disse po
00254720				8		DUPLICATE PULP - 00254719
00254721	215.35	216.36	1.01	8		10% stringers up to 3cm with adjacent sericite/carb/bio alteration; 0.5% coarser po
00254722	220	221	1	7		5% stringers with minor po/trace cp
00254723	223.8	224.3	0.5	7		20% light grey quartz stringers to 3cm along 60 deg fabric; <0.5% po disse
00254724	226	227	1	6		quartz tuff; 5% stringers with adjacent sericite/weak carb alteration; trace po disse
00254725	231.3	232.3	1	8		increased alteration associated with 10cm quartz/calcite vein at 53 dtca; 2-5% po disse/threads over 40cm across vein
00254726	237	238	1	9		2-3% po in finely laminated mudstone
00254727	239.4	240.4	1	13		10% slightly irregular stringers up to 6cm along fabric; 3-5% po threads; 0.5% py; trace 1mm aspy grains adjacent to one quartz veinlet
00254728	240.4	241.45	1.05	10		3-5% po in argillite
00254729	241.5	242.3	0.8	9		1-3% po disse
00254730	242.3	243.55	1.25	14		two med grey quartz/po veinlets; one at 20 dtca; the other irregular; folded pattern in argillite
00254731	246.45	247.45	1	9		light greenish grey weakly altered tuff; trace po
00254732	247.45	248.45	1	8		40% finer mudstone with 1-2% 2% po
00254733	252.3	253.3	1	1		local calcite alteration; 1% fine po
00254734	253.3	254.3	1	9		80% argillite with 3-5% po disse/seams; weakly magnetic
00254735	254.3	255.3	1	7		blue quartz eye porphyry tuff; weak py min
00254736	255.3	256.3	1	7		blue quartz eye porphyry tuff; weak py min
00254737	256.3	257.3	1	8		shear zone; 10% calcite/quartz veinlets; pervasive calcite; trace po
00254738	257.3	258.4	1.1	7		shear zone; 10% calcite/quartz veinlets; pervasive calcite; trace po
00254739	259	260	1	11		shear blue quartz tuff parallel fabric at 60 dtca; biotitic; <0.5% po; trace py one fracture planes
00254740				1080		STANDARD CDN-GS-1W
00254741	260	260.9	0.9	14		shear blue quartz tuff parallel fabric at 60 dtca; biotitic; <0.5% po; trace py one fracture planes
00254742	262	263	1	14		30% more stronger biotite/calcite alteration bands; 5% stringers; trace to <0.5% fine po/ py disse
00254743	265	265.9	0.9	8		biotitic sheared tuff with grey calcite rich bands; 0.5% fine po
00254744	266.7	267.25	0.55	8		30cm quartz vein zone; 50% quartz veinlets/calcite at 65 dtca; sheared; trace po
00254745	269	269.6	0.6	8		30cm quartz vein zone; 50% quartz veinlets/calcite at 65 dtca; sheared; trace po/ py
00254746	271	272.1	1.1	6		blue quartz eye porphyry tuff; trace very fine po disse; trace py
00254747	272.1	272.65	0.55	10		BIF?; moderately magnetic; medium to pale grey; hard; 10-15% coarse po band/disse; trace cp
00254748	272.65	273.8	1.15	8		argillite; 1-3% po disse/threads along fabric
00254749	273.8	274.85	1.05	8		argillite with 25% BIF? bands with coarser po/ py over 15cm zones; py also on xcutting joints at -30 dtca

00254750	274.85	276	1.15	8	50% argillite and 50% very blocky BIF? with zones of semi-massive py (5mm grains/blebs)
00254751	276.75	277.4	0.65	10	BIF?; moderately magnetic; pale buff to light grey; 5-10% coarse po and as 2cm bands; minor py
00254752	277.4	278.3	0.9	8	argillite with 3-5% po
00254753	278.3	279.15	0.85	7	well banded argillite at 50 dtca with 2-5% po dissem/seams along fabric
00254754	279.15	279.75	0.6	8	same but xcut by medium grey quartz veinlet at 20 dtca with coarse po
00254755	279.75	280.6	0.85	7	banded argillite at 58 dtca; 2-5% po
00254756	281.7	282.6	0.9	6	paler grey green with weak sericite alteration adjacent to some 2cm quartz stringers; trace py/po
00254757	288.4	289.05	0.65	11	fault zone?; yellow buff sericite/carb alteration; fault at 17 dtca;
00254758	289.05	290	0.95	14	very blocky broken up ground; open calcite crystal lined joints along core; often with py
00254759	290	291	1	8	blocky sheared quartz porph tuff with 1mm blue quartz eyes
00254760				5	BLANK
00254761	291	292	1	6	blocky sheared quartz porph tuff with 1mm blue quartz eyes
00254762	292	293	1	6	blocky sheared quartz porph tuff with 1mm blue quartz eyes
129	# core samples		124.71		metres sampled
7	# QA/QC		42.56		% sampled
136	Total samples				

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm
Detection Limit	0.3	0.01	3	7	1	2	0.01	0.3
Analysis Method	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
254628	0.7	6.97	< 3	573	1	< 2	1.4	0.4
254627	0.7	7.43	5	534	1	< 2	1.48	< 0.3
254629	0.5	6.13	3	429	< 1	< 2	1.96	< 0.3
254630	0.6	6.98	< 3	497	< 1	< 2	1.42	0.6
254631	0.6	6.45	< 3	387	< 1	< 2	1.86	0.7
254632	0.6	8.52	15	507	1	< 2	1.02	0.3
254633	0.7	7.11	17	352	1	< 2	1.27	1.8
254634	0.8	4.76	9	461	1	< 2	1.62	2.2
254635	0.9	6.11	6	556	1	< 2	3.19	3.5
254636	0.6	7.76	19	505	1	< 2	1.9	0.4
254637	0.8	7.22	27	468	1	< 2	2.87	1.1
254638	0.6	6.68	26	403	1	< 2	3.88	0.5
254639	0.7	8.95	31	695	2	< 2	2.05	0.5
254640	< 0.3	0.08	< 3	14	< 1	< 2	27.1	< 0.3
254641	0.6	7.16	< 3	438	1	< 2	2.09	0.4
254642	0.6	7.56	17	295	1	3	1.93	< 0.3
254643	0.4	8.35	< 3	318	1	2	2.3	< 0.3
254644	0.4	4.23	< 3	269	< 1	< 2	1.4	< 0.3
254645	0.5	6.01	10	303	1	< 2	4.63	0.3
254646	0.6	7.58	14	373	1	< 2	4.52	< 0.3
254647	0.8	7.31	17	404	1	3	4.7	0.5
254648	0.5	6.87	13	265	2	< 2	3.1	0.4
254649	0.6	7.4	< 3	453	1	< 2	3.09	< 0.3
254650	0.4	7.84	< 3	504	1	3	3.24	< 0.3
254651	0.6	8.09	< 3	324	2	< 2	2.85	< 0.3
254652	0.5	7.86	< 3	228	1	3	3.07	< 0.3
254653	0.6	7.95	24	430	1	3	2.53	< 0.3
254654	0.5	8	< 3	500	1	< 2	2.56	< 0.3
254655	0.6	8.04	< 3	427	1	< 2	2.84	< 0.3
254656	0.5	8.02	< 3	422	1	< 2	3.2	< 0.3
254657	0.6	7.23	< 3	396	1	< 2	2.83	< 0.3
254658	0.4	7.42	36	322	< 1	2	5.81	0.7
254659	0.5	7.83	80	421	1	3	5.53	0.5
254660								
254661	0.6	7.85	44	401	< 1	2	5.57	0.7
254662	1.2	6.11	29	148	< 1	3	5.28	1.5
254663	1	6.6	< 3	86	< 1	< 2	2.69	0.4
254664	0.6	8.23	14	681	2	< 2	2.72	< 0.3
254665	0.6	7.12	< 3	903	1	< 2	3.05	< 0.3
254666	0.6	5.5	20	471	< 1	4	7.42	0.9
254667	0.4	6.8	11	451	2	2	2.16	< 0.3
254668	0.7	7.24	< 3	561	2	< 2	5.06	0.4
254669	0.8	7.91	< 3	592	2	< 2	4.58	0.3
254670	< 0.3	7.08	27	284	< 1	4	6.41	0.7
254671	0.6	5.2	16	322	1	< 2	2.24	< 0.3
254672	0.5	7.02	42	259	1	< 2	4.4	< 0.3
254673	0.5	7.36	63	245	1	2	5.03	< 0.3
254674	0.5	7.96	54	655	1	< 2	4.19	< 0.3
254675	0.5	7.91	35	382	1	< 2	3.33	0.4
254676	0.5	7.82	< 3	382	1	< 2	3.52	< 0.3

254677	0.4	7.55	18	295	< 1	< 2	4.66	< 0.3
254678	0.6	8.86	20	288	1	2	2.38	0.4
254679	0.5	8.14	7	270	1	< 2	2.4	0.3
254680								
254681	0.6	8.75	27	369	1	4	1.29	< 0.3
254682	0.6	5.31	8	356	1	< 2	0.96	< 0.3
254683	0.6	6.79	18	303	1	< 2	1.67	0.6
254684	0.6	8.72	22	348	1	< 2	2.12	< 0.3
254685	0.6	9.16	12	347	1	5	1.92	0.3
254686	0.6	8.91	28	332	1	5	1.99	< 0.3
254687	0.5	8.59	14	379	1	2	2.5	< 0.3
254688	0.5	8.87	185	301	1	4	2.73	< 0.3
254689	0.4	8.72	110	203	< 1	2	2.29	< 0.3
254690	0.5	9.52	21	290	< 1	3	2.55	< 0.3
254691	0.6	7.7	54	365	< 1	< 2	3.64	< 0.3
254692	0.7	8.71	367	295	1	< 2	2.02	0.3
254693	0.4	8.32	8	337	< 1	< 2	3.21	< 0.3
254694	0.5	8.72	11	454	< 1	< 2	2.04	< 0.3
254695	0.5	9.43	135	408	1	6	1.99	< 0.3
254696	0.6	9.51	< 3	331	< 1	4	2.24	< 0.3
254697	0.5	9.76	< 3	352	1	< 2	1.22	< 0.3
254698	0.6	8.84	550	295	1	2	1.68	0.3
254699	0.5	5.56	6	312	1	2	1.04	< 0.3
254700	< 0.3	0.11	< 3	19	< 1	< 2	25.6	< 0.3
254701	0.5	9.29	6	330	< 1	5	2.13	< 0.3
254702	0.6	9.22	4	278	1	5	2.53	< 0.3
254703	0.5	8.65	7	286	1	< 2	2.37	< 0.3
254704	0.5	8.77	9	293	2	3	2.87	< 0.3
254705	0.4	8.27	23	310	1	< 2	3.49	0.3
254706	0.4	7.37	18	248	< 1	< 2	2.83	< 0.3
254707	0.4	8.41	11	248	< 1	< 2	3.12	< 0.3
254708	0.5	8.21	4	299	1	< 2	1.73	< 0.3
254709	0.6	5.6	< 3	317	1	3	1.6	< 0.3
254710	0.6	7.38	< 3	286	1	2	1.53	< 0.3
254711	0.5	8.87	< 3	372	1	4	1.56	< 0.3
254712	0.5	9.45	14	302	1	3	1.88	< 0.3
254713	0.4	9.9	11	303	1	< 2	1.92	< 0.3
254714	0.3	8.55	102	301	1	< 2	2.08	< 0.3
254715	0.6	9.28	< 3	310	1	2	2.31	0.3
254716	0.7	9.77	28	420	1	4	1.77	< 0.3
254717	0.5	8.29	15	343	1	< 2	2.32	< 0.3
254718	0.6	8.35	34	469	1	6	2.92	< 0.3
254719	0.5	5.84	44	318	< 1	< 2	4.32	0.3
254720	0.4	7.36	49	327	< 1	< 2	4.42	< 0.3
254721	0.5	8.79	< 3	445	1	4	2.7	< 0.3
254722	0.4	8.63	< 3	323	< 1	3	2.28	< 0.3
254723	0.5	8.15	< 3	318	< 1	< 2	3.2	< 0.3
254724	0.4	8.98	< 3	255	< 1	< 2	4.44	< 0.3
254725	0.5	7.77	69	357	1	< 2	3.27	< 0.3
254726	0.5	9.13	37	349	1	3	2.13	0.7
254727	0.7	8.94	51	303	1	5	2.27	1.2
254728	0.6	8.9	28	388	1	8	1.97	< 0.3
254729	0.6	8.29	18	357	1	< 2	2.16	< 0.3
254730	0.7	7.69	9	293	1	< 2	2.58	0.4
254731	0.5	9.33	< 3	226	< 1	< 2	2.88	< 0.3

254732	0.5	8.82	41	249	< 1	< 2	2.67	< 0.3
254733	0.5	7.33	23	513	1	< 2	3.38	< 0.3
254734	0.5	7.58	26	424	1	< 2	1.87	< 0.3
254735	0.7	4.77	10	275	1	< 2	2.5	< 0.3
254736	0.5	6.8	5	338	< 1	4	3.43	< 0.3
254737	0.5	6.06	14	217	< 1	< 2	5.22	0.9
254738	0.5	5.95	< 3	142	< 1	< 2	6.66	0.4
254739	0.4	6.03	20	287	< 1	< 2	6.5	0.8
254740								
254741	0.4	6.33	< 3	253	< 1	< 2	5.4	1
254742	0.8	6.46	< 3	671	1	3	4.8	0.4
254743	0.6	7.22	4	419	1	< 2	4.59	< 0.3
254744	0.4	5.76	9	436	< 1	< 2	4.22	< 0.3
254745	0.4	6.31	< 3	360	1	< 2	3.24	< 0.3
254746	0.6	4.79	3	286	1	< 2	4.17	< 0.3
254747	0.9	7.12	78	160	< 1	4	2.56	0.8
254748	0.5	8.06	82	282	1	< 2	2.27	< 0.3
254749	0.6	8.47	19	138	1	3	2.61	< 0.3
254750	0.9	6.64	34	87	< 1	4	2.9	7.1
254751	0.4	8.16	22	143	2	4	2.92	0.5
254752	0.4	8.49	4	236	1	< 2	2	< 0.3
254753	0.4	6.43	46	378	1	< 2	3.82	< 0.3
254754	0.3	6.95	25	152	1	< 2	2.78	< 0.3
254755	0.4	7.59	19	315	1	< 2	3.13	< 0.3
254756	0.4	9.25	18	499	1	< 2	2.95	< 0.3
254757	0.4	9.69	14	398	2	< 2	4.94	< 0.3
254758	0.7	10.4	30	422	2	< 2	5.65	< 0.3
254759	0.4	8.68	16	558	1	< 2	2.36	< 0.3
254760	< 0.3	0.12	< 3	17	< 1	< 2	28.5	< 0.3
254761	0.7	7.48	< 3	445	1	< 2	2.03	0.6
254762	0.7	7.6	11	493	1	< 2	2.05	< 0.3

Co ppm 1 TD-ICP	Cr ppm 1 TD-ICP	Cu ppm 1 TD-ICP	Fe % 0.01 TD-ICP	Ga ppm 1 TD-ICP	Hg ppm 1 TD-ICP	K % 0.01 TD-ICP	Mg % 0.01 TD-ICP	Li ppm 1 TD-ICP	Mn ppm 1 TD-ICP
21	89	64	4.25	19	< 1	1.68	1.37	40	621
23	106	71	4.42	19	< 1	1.68	1.42	38	570
17	82	56	3.42	15	< 1	1.52	1.16	34	471
21	98	66	4.51	18	< 1	1.57	1.32	41	531
20	95	71	3.65	15	< 1	1.4	1.18	37	466
24	114	50	5.11	23	5	1.35	1.74	43	558
23	106	62	4.41	20	< 1	1.34	1.42	37	514
18	141	63	5.75	18	< 1	1.05	1.22	37	455
19	141	40	5.35	20	< 1	1.52	1.44	46	489
19	137	41	5.83	19	< 1	1.74	1.41	42	476
14	109	36	9.13	19	3	1.83	1.58	51	592
18	126	41	6.65	20	< 1	1.84	1.57	41	917
16	92	36	7.01	24	2	2.38	1.33	53	773
< 1	3	1	0.11	< 1	< 1	0.02	2.26	< 1	122
12	67	26	6.15	19	< 1	1.91	1.26	45	896
9	51	6	1.81	18	< 1	1.38	0.44	26	615
2	27	6	1.2	20	1	1.28	0.28	19	495
4	102	12	1.71	15	< 1	1.04	0.51	23	517
13	143	23	5.23	16	< 1	1.47	1.77	45	1650
10	84	36	4.52	19	< 1	1.61	0.85	28	1220
19	89	65	7.33	20	4	1.66	1.48	46	1200
15	94	61	3.36	19	< 1	1.31	0.94	25	504
11	49	14	3.03	20	1	1.61	1.09	42	500
10	73	30	2.3	20	< 1	1.64	0.91	27	418
11	50	26	3.71	21	< 1	1.47	1	37	546
9	54	36	4.2	19	2	0.98	0.56	26	838
10	44	20	2.5	22	< 1	1.78	0.41	28	536
10	55	23	2.93	21	< 1	1.54	0.51	36	552
8	57	24	2.64	21	1	1.73	0.54	38	523
8	58	24	3.03	22	< 1	1.76	0.6	39	619
11	34	26	3.67	18	< 1	1.65	0.85	40	760
39	90	62	8.27	19	3	0.75	1.98	36	1700
44	123	83	8.49	20	5	0.93	2.01	45	1710
52	156	102	7.83	22	6	1.19	1.76	57	1570
51	162	147	12.3	18	5	1.12	2.09	56	2170
21	146	76	5.59	20	< 1	1.11	0.78	35	826
16	69	33	3.09	22	< 1	1.36	1.01	41	489
10	27	25	5.34	20	< 1	1.37	1.07	47	1340
20	58	147	12.3	15	4	0.98	2.82	48	3450
11	24	33	2.83	18	< 1	1.85	1.04	44	461
26	124	55	6.25	20	< 1	0.63	3.34	33	1100
24	96	85	6.05	21	1	0.79	3.04	39	1060
37	108	89	8.49	18	5	0.74	2.92	40	1340
16	52	32	3.96	21	< 1	0.99	0.8	34	569
17	48	28	3.66	21	1	0.97	1.06	35	775
16	46	30	4.89	21	1	1.24	1.32	44	918
22	111	38	3.61	20	1	1.14	2.52	46	550
19	101	40	5.52	21	< 1	1.64	2.44	58	843
15	54	40	3.96	20	< 1	1.49	1.32	46	588

13	47	22	3.55	18	< 1	1.27	1.38	48	736
17	46	44	5.49	21	< 1	1.37	0.84	35	1090
15	43	38	5.01	20	< 1	1.36	0.9	42	1010
18	49	42	4.3	23	< 1	2.1	0.77	38	907
20	75	41	4.41	21	< 1	1.01	0.88	46	1090
14	43	46	4.56	20	< 1	1.16	0.74	36	962
17	46	39	4.67	22	< 1	1.74	0.78	35	1090
18	42	41	4.36	24	< 1	1.94	0.73	35	920
20	63	37	3.98	22	< 1	1.97	0.96	39	695
16	42	36	3.53	23	< 1	1.74	0.88	48	665
18	55	38	3.86	23	< 1	1.13	0.76	105	771
20	44	32	3.85	22	< 1	1.02	0.75	48	772
18	54	41	3.74	20	< 1	1.13	0.67	58	685
19	76	31	3.21	21	< 1	1.2	1.46	49	726
17	45	34	3.64	24	< 1	1.57	0.82	49	748
18	41	34	3.26	20	< 1	1.12	0.62	34	672
17	42	38	3.08	22	< 1	1.75	0.68	53	633
17	41	37	3.42	23	< 1	1.72	0.71	37	671
18	59	48	4.1	23	< 1	1.59	0.68	45	686
19	56	43	3.78	26	< 1	2.1	0.72	58	582
26	55	54	4.11	22	< 1	1.79	0.81	49	610
18	65	42	3.18	24	< 1	0.93	0.7	51	634
< 1	6	1	0.15	< 1	< 1	0.03	3.4	1	177
19	52	63	3.97	23	< 1	1.59	0.69	44	806
20	65	40	3.95	22	< 1	1.29	0.86	43	735
26	48	60	3.96	22	< 1	1.36	0.58	46	597
21	50	48	4.12	21	< 1	1.17	0.69	65	760
19	68	21	4.08	21	1	1.01	1.5	51	985
12	31	28	2.57	19	< 1	1.21	0.58	30	732
16	39	29	3.09	23	< 1	1.09	0.75	42	787
17	40	34	3.28	21	< 1	1.86	0.8	44	649
17	60	43	3.21	23	< 1	0.95	0.91	51	681
19	56	43	3.7	22	< 1	0.89	0.77	47	686
18	48	39	3.36	25	< 1	1.43	0.71	44	623
20	42	32	3.3	22	1	1.45	0.82	42	568
16	35	26	2.79	24	< 1	1.6	0.74	41	575
17	37	31	3.12	21	< 1	1.23	0.74	65	611
17	45	36	3.75	24	< 1	1.23	0.79	45	689
24	53	45	4.31	25	< 1	1.96	0.96	39	653
18	56	65	4.09	20	1	1.42	1.16	41	644
22	88	47	3.99	21	< 1	1.92	1.7	54	568
23	101	32	3.92	20	1	0.91	1.64	58	850
23	96	31	4.05	18	< 1	1.29	1.69	58	840
17	54	38	2.97	23	< 1	1.76	0.98	47	502
16	36	33	3.41	21	< 1	1.24	1.07	46	549
20	50	40	3.57	22	< 1	1.39	0.84	38	665
13	24	22	3.05	21	< 1	1.01	1.06	45	692
22	168	37	4.59	20	< 1	1.3	2.22	39	772
23	61	49	4.61	23	2	1.63	1.05	43	833
24	58	54	5.6	23	3	1.24	0.95	58	1020
18	52	45	4.91	23	< 1	1.86	0.93	35	891
14	72	35	4.13	23	< 1	1.69	0.82	31	857
14	60	31	4.73	21	< 1	1.63	0.8	27	752
20	62	35	3.77	21	< 1	0.94	0.83	24	751

22	62	37	4.41	22	< 1	1.08	0.91	25	925
24	111	51	4.8	21	< 1	1.43	2.29	36	766
14	60	54	4.04	20	< 1	2.5	1.23	30	578
14	94	23	3.02	20	< 1	1.26	1.16	37	596
20	157	37	3.87	17	< 1	0.95	1.97	35	619
39	217	62	5.5	14	< 1	0.63	3.95	42	880
33	165	60	5.59	14	< 1	0.57	3.48	40	961
47	183	67	6.87	14	2	1.39	4.87	59	1140
39	147	77	6.41	14	< 1	1.3	4.35	64	1020
27	137	42	4.41	17	< 1	2.15	2.84	55	887
21	161	47	4.48	17	< 1	2.02	2.34	56	878
10	89	25	2.17	14	< 1	1.91	0.84	27	534
9	58	17	2.25	17	< 1	1.96	0.75	29	436
14	68	22	2.82	18	< 1	1.23	1.1	33	721
20	62	97	12.5	17	5	1.16	1.06	24	993
13	68	23	4.16	20	< 1	1.28	1.07	26	999
11	55	43	6.3	21	1	1.12	1.14	31	1010
14	44	84	8.86	19	< 1	1.23	1.03	30	860
79	71	53	8.82	23	< 1	0.87	1.44	38	960
14	44	37	5.13	23	< 1	1.39	0.95	27	1010
19	132	33	5.03	20	< 1	1.43	1.63	29	1210
11	101	30	4.77	20	< 1	0.74	1.21	24	678
14	71	33	5.43	22	< 1	1.36	1	24	1120
21	54	45	4.35	25	< 1	1.82	1.45	39	567
14	34	4	2.61	22	< 1	2.27	0.78	34	656
16	45	7	3.53	25	< 1	2.38	0.97	43	625
16	68	34	3	27	< 1	2.29	1.07	40	379
< 1	4	< 1	0.1	< 1	< 1	0.03	1.65	< 1	108
14	58	24	2.48	18	< 1	1.99	0.81	28	339
15	63	27	2.68	20	< 1	2.17	0.88	28	392

Mo ppm 1 TD-ICP	Na % 0.01 TD-ICP	Ni ppm 1 TD-ICP	P % 0.001 TD-ICP	Pb ppm 3 TD-ICP	Sb ppm 5 TD-ICP	S % 0.01 TD-ICP	Sc ppm 4 TD-ICP	Sr ppm 1 TD-ICP	Te ppm 2 TD-ICP
< 1	1.85	55	0.047	15	< 5	0.31	14	272	3
1	1.85	57	0.051	12	< 5	0.39	13	272	< 2
1	1.48	52	0.045	27	5	0.25	11	225	5
1	2.18	54	0.046	13	< 5	0.27	14	237	7
1	2.34	54	0.039	27	< 5	0.35	12	195	4
1	1.39	69	0.065	14	< 5	0.19	18	276	7
2	1.81	65	0.048	22	< 5	0.26	15	243	3
< 1	1.17	59	0.059	26	< 5	0.64	8	193	< 2
1	1.18	62	0.069	52	< 5	0.69	11	243	3
1	1.7	66	0.071	15	6	0.38	14	341	9
< 1	1.45	54	0.072	90	< 5	0.36	13	331	< 2
< 1	0.84	53	0.066	4	< 5	0.58	14	261	5
1	1.43	54	0.067	49	< 5	0.42	14	326	4
< 1	0.05	< 1	0.007	< 3	< 5	< 0.01	< 4	65	< 2
< 1	1.23	35	0.073	39	< 5	0.25	11	258	4
1	2.76	20	0.036	10	< 5	0.07	4	315	< 2
2	3.44	6	0.029	6	< 5	0.01	< 4	352	2
< 1	2.59	11	0.027	5	< 5	0.08	< 4	231	< 2
< 1	1.64	42	0.075	< 3	< 5	0.18	10	318	5
< 1	1.24	32	0.052	5	< 5	0.31	8	387	< 2
< 1	0.91	48	0.078	12	< 5	1.34	11	273	< 2
< 1	1.38	35	0.05	7	< 5	0.46	7	315	2
< 1	2.63	20	0.095	5	< 5	0.06	7	414	3
< 1	2.43	27	0.034	6	< 5	0.08	8	501	< 2
< 1	2.89	20	0.061	5	< 5	0.16	8	468	< 2
< 1	2.79	22	0.042	< 3	< 5	0.43	5	496	< 2
< 1	2.65	22	0.058	5	< 5	0.09	8	452	< 2
< 1	3.02	23	0.062	14	< 5	0.1	7	434	5
< 1	2.53	20	0.063	7	< 5	0.11	8	493	6
< 1	2.77	19	0.084	4	< 5	0.11	8	402	3
< 1	2.51	25	0.074	< 3	< 5	0.2	9	375	5
< 1	1.97	85	0.074	< 3	< 5	0.18	22	348	< 2
< 1	2.05	113	0.084	< 3	< 5	0.16	26	411	6
< 1	2.31	135	0.088	< 3	< 5	0.57	26	427	7
5	1.9	184	0.07	< 3	< 5	2.8	24	397	10
< 1	3.55	98	0.069	10	< 5	2.52	9	837	6
1	3.04	41	0.056	3	< 5	0.62	11	667	5
3	2.17	34	0.036	7	< 5	0.61	8	358	4
< 1	1.19	97	0.054	< 3	< 5	0.87	13	286	< 2
< 1	1.7	29	0.026	6	< 5	0.43	8	251	6
< 1	2.9	44	0.111	< 3	< 5	0.18	20	658	< 2
< 1	3.06	32	0.127	< 3	< 5	0.32	18	721	3
< 1	1.25	113	0.041	< 3	< 5	0.13	22	181	< 2
1	2.44	36	0.049	5	< 5	1.08	7	237	3
< 1	2.3	41	0.048	3	< 5	0.67	9	264	< 2
< 1	2.02	40	0.046	< 3	< 5	0.49	10	254	3
< 1	2.87	120	0.084	4	< 5	0.22	11	621	8
< 1	1.65	80	0.066	6	< 5	0.63	12	288	3
< 1	2.02	41	0.059	< 3	< 5	0.52	9	325	6

< 1	2.09	48	0.056	4	< 5	0.18	9	315	4
< 1	2.31	45	0.033	< 3	< 5	1.63	12	305	< 2
< 1	2.07	40	0.043	< 3	< 5	1.06	11	217	< 2
< 1	2.13	47	0.032	4	< 5	1.18	14	286	< 2
< 1	1.76	55	0.038	4	< 5	0.92	9	193	6
< 1	1.79	41	0.035	6	< 5	1.39	10	185	< 2
< 1	1.78	48	0.033	5	< 5	1.2	13	241	3
< 1	1.89	45	0.032	6	< 5	1.13	13	233	3
< 1	1.76	46	0.04	6	< 5	1	14	227	3
< 1	2.52	39	0.03	5	< 5	0.34	11	235	4
< 1	2.25	54	0.027	< 3	< 5	0.7	12	244	< 2
< 1	2.88	46	0.029	6	< 5	0.44	11	231	3
< 1	2.84	52	0.027	6	< 5	0.58	13	254	3
< 1	2.11	75	0.05	5	< 5	0.36	10	354	2
< 1	2.31	43	0.026	< 3	< 5	0.59	12	231	3
< 1	2.65	41	0.028	4	< 5	0.34	10	269	< 2
< 1	2.13	41	0.03	6	< 5	0.53	12	294	5
< 1	2.5	41	0.029	6	< 5	0.55	12	298	3
< 1	2.17	54	0.028	6	< 5	0.85	14	239	3
< 1	2.33	50	0.026	3	< 5	0.75	14	251	< 2
< 1	2.34	61	0.028	< 3	< 5	0.95	14	245	< 2
< 1	2.21	48	0.026	4	< 5	0.6	9	179	7
< 1	0.05	< 1	0.006	< 3	< 5	< 0.01	< 4	64	2
< 1	2.5	52	0.032	3	< 5	0.7	13	233	4
< 1	2.65	58	0.035	< 3	< 5	0.73	13	279	3
< 1	2.4	61	0.028	< 3	< 5	0.92	12	244	< 2
1	2.31	62	0.025	< 3	< 5	0.82	12	254	3
< 1	2.07	35	0.05	< 3	< 5	0.26	14	220	< 2
< 1	2.17	31	0.037	< 3	< 5	0.33	8	181	4
< 1	2.51	35	0.036	5	< 5	0.36	10	246	4
< 1	1.96	38	0.024	3	< 5	0.51	11	201	4
< 1	2.42	46	0.032	3	< 5	0.77	8	196	4
< 1	2.68	53	0.026	< 3	< 5	0.74	11	222	3
< 1	2.27	51	0.023	4	< 5	0.67	12	233	4
< 1	2.81	45	0.023	5	< 5	0.35	12	254	2
< 1	2.89	41	0.021	4	< 5	0.25	11	251	< 2
< 1	2.29	38	0.026	< 3	< 5	0.39	10	217	< 2
1	2.54	45	0.03	< 3	< 5	0.65	12	234	2
< 1	2.5	59	0.029	3	< 5	0.8	13	268	< 2
1	2.39	56	0.047	4	< 5	0.56	12	347	< 2
< 1	2.3	77	0.056	< 3	< 5	0.46	13	334	13
< 1	2.63	89	0.063	< 3	< 5	0.36	7	239	5
< 1	2.56	88	0.064	< 3	< 5	0.31	10	273	3
< 1	2.81	49	0.031	9	< 5	0.3	11	334	2
< 1	3.09	42	0.027	< 3	< 5	0.27	10	320	< 2
< 1	2.7	52	0.027	< 3	< 5	0.53	11	300	< 2
< 1	3	28	0.04	3	< 5	0.15	8	298	< 2
< 1	1.79	124	0.048	< 3	< 5	0.72	12	270	< 2
1	2.01	62	0.038	3	< 5	0.95	14	280	4
1	1.92	65	0.028	10	< 5	1.27	14	287	< 2
< 1	1.8	53	0.029	3	< 5	1.36	14	289	3
< 1	1.82	39	0.034	4	< 5	1.37	11	285	3
< 1	1.66	37	0.036	3	< 5	1.8	10	305	2
1	3.02	47	0.035	4	< 5	0.61	10	296	2

3	2.4	57	0.029	< 3	< 5	0.81	12	286	3
< 1	1.44	91	0.088	< 3	< 5	0.66	15	311	2
< 1	1.26	40	0.04	6	< 5	1.41	9	227	2
< 1	2.48	40	0.078	7	< 5	0.23	5	229	6
< 1	2.78	83	0.081	4	< 5	0.18	12	237	8
< 1	1.8	184	0.102	< 3	< 5	0.1	18	237	5
< 1	1.64	155	0.106	< 3	< 5	0.12	18	377	7
< 1	1.3	207	0.151	8	< 5	0.09	24	366	10
< 1	1.12	192	0.114	< 3	< 5	0.04	21	279	3
< 1	2.42	102	0.155	8	< 5	0.18	14	635	8
< 1	2.22	47	0.087	6	< 5	0.13	16	348	7
< 1	1.18	31	0.044	4	< 5	0.08	7	176	3
< 1	1.45	27	0.054	5	< 5	0.09	7	196	4
< 1	2	39	0.055	10	< 5	0.26	5	167	11
< 1	1.69	73	0.035	6	< 5	3.71	9	263	3
1	1.88	31	0.034	6	< 5	1.52	10	287	2
< 1	2	42	0.033	8	< 5	2.75	12	269	3
1	1.51	66	0.034	9	< 5	7.13	7	196	5
1	1.72	49	0.069	< 3	< 5	3.44	10	250	8
1	1.95	37	0.033	< 3	< 5	1.84	9	300	12
< 1	1.61	76	0.05	4	< 5	1.63	8	279	11
1	1.73	49	0.046	6	< 5	1.55	7	265	12
< 1	1.92	44	0.049	7	< 5	1.54	8	272	13
< 1	2.44	35	0.078	6	< 5	0.5	12	412	15
< 1	3	41	0.064	7	< 5	0.12	9	287	< 2
< 1	3.43	44	0.075	22	< 5	0.32	10	300	< 2
< 1	2.36	41	0.065	21	< 5	0.17	10	287	2
< 1	0.05	1	0.007	< 3	< 5	< 0.01	< 4	63	< 2
< 1	2.48	35	0.056	152	< 5	0.17	9	256	< 2
< 1	2.23	38	0.06	35	< 5	0.2	10	263	10

Ti % 0.01 TD-ICP	Tl ppm 5 TD-ICP	U ppm 10 TD-ICP	V ppm 2 TD-ICP	W ppm 5 TD-ICP	Y ppm 1 TD-ICP	Zn ppm 1 TD-ICP	Zr ppm 5 TD-ICP
0.35	< 5	< 10	93	< 5	13	155	128
0.34	< 5	< 10	89	< 5	13	101	137
0.31	< 5	< 10	78	< 5	12	177	117
0.34	< 5	< 10	93	< 5	12	194	121
0.32	< 5	< 10	81	< 5	14	248	122
0.41	< 5	< 10	125	< 5	12	112	139
0.39	< 5	< 10	106	6	11	539	144
0.31	< 5	< 10	85	6	8	339	116
0.35	< 5	< 10	95	11	12	848	116
0.36	< 5	< 10	95	< 5	13	170	127
0.34	< 5	< 10	93	5	14	434	112
0.33	< 5	< 10	88	< 5	15	77	113
0.38	< 5	< 10	93	< 5	14	173	139
< 0.01	< 5	< 10	< 2	< 5	2	3	< 5
0.33	< 5	< 10	71	< 5	14	164	138
0.19	< 5	< 10	29	< 5	5	78	99
0.17	< 5	10	25	< 5	4	31	96
0.13	< 5	< 10	26	< 5	2	35	64
0.39	< 5	< 10	64	< 5	12	82	121
0.31	< 5	< 10	55	< 5	10	53	128
0.4	< 5	< 10	68	< 5	14	83	133
0.27	< 5	< 10	52	6	7	60	102
0.25	< 5	< 10	52	< 5	11	62	129
0.19	< 5	< 10	48	< 5	7	56	95
0.25	5	< 10	56	< 5	8	76	106
0.19	< 5	10	34	64	6	61	96
0.19	< 5	< 10	44	< 5	8	71	98
0.29	< 5	< 10	52	< 5	8	72	118
0.3	< 5	< 10	51	< 5	9	71	120
0.26	< 5	< 10	52	< 5	10	64	110
0.25	< 5	< 10	53	< 5	10	61	102
0.26	< 5	< 10	99	< 5	16	105	56
0.23	< 5	< 10	96	< 5	20	99	49
0.34	< 5	< 10	81	< 5	19	115	45
0.65	< 5	< 10	173	8	15	156	80
0.34	< 5	< 10	72	< 5	9	37	144
0.38	< 5	< 10	75	< 5	13	41	135
0.28	< 5	< 10	56	< 5	11	71	112
0.33	< 5	< 10	102	< 5	14	105	85
0.21	< 5	< 10	49	< 5	11	55	94
0.43	< 5	< 10	143	< 5	36	99	141
0.44	< 5	10	141	< 5	39	87	165
0.18	< 5	< 10	65	< 5	15	97	32
0.35	< 5	< 10	75	< 5	6	85	134
0.34	< 5	10	73	< 5	8	75	111
0.32	< 5	< 10	64	< 5	11	78	106
0.34	< 5	10	74	< 5	10	72	108
0.35	< 5	< 10	80	< 5	12	98	123
0.33	< 5	< 10	68	< 5	9	71	103

0.28	< 5	< 10	58	< 5	9	75	86
0.36	< 5	< 10	80	< 5	9	78	120
0.33	< 5	< 10	70	< 5	11	92	127
0.41	< 5	< 10	85	< 5	12	103	162
0.42	< 5	< 10	96	< 5	9	106	154
0.32	< 5	< 10	67	< 5	11	186	135
0.38	< 5	< 10	79	< 5	14	111	155
0.38	< 5	< 10	80	< 5	13	124	157
0.39	< 5	< 10	84	< 5	10	131	145
0.25	< 5	< 10	57	< 5	7	85	100
0.39	< 5	< 10	85	10	8	86	117
0.27	< 5	< 10	55	< 5	7	89	97
0.39	< 5	< 10	85	< 5	7	97	114
0.29	6	< 10	67	< 5	8	71	106
0.38	< 5	< 10	76	< 5	11	93	168
0.26	< 5	< 10	56	< 5	8	66	94
0.37	< 5	< 10	81	< 5	7	65	115
0.39	< 5	< 10	81	< 5	7	78	122
0.4	< 5	< 10	93	< 5	7	77	117
0.42	< 5	< 10	99	< 5	5	86	123
0.4	< 5	< 10	97	< 5	6	80	122
0.42	< 5	< 10	99	< 5	4	80	126
< 0.01	< 5	< 10	< 2	< 5	2	2	< 5
0.4	< 5	< 10	88	< 5	7	84	128
0.41	5	< 10	89	< 5	7	81	121
0.38	< 5	< 10	87	< 5	6	74	110
0.4	< 5	< 10	90	< 5	7	82	114
0.3	< 5	< 10	90	< 5	17	89	102
0.24	< 5	< 10	44	< 5	7	71	105
0.25	< 5	< 10	59	< 5	7	68	100
0.35	< 5	< 10	76	< 5	7	87	117
0.4	< 5	< 10	93	< 5	6	98	139
0.42	< 5	< 10	97	< 5	5	107	125
0.38	< 5	< 10	89	< 5	7	87	119
0.33	< 5	< 10	73	< 5	7	87	111
0.21	< 5	< 10	56	< 5	6	75	84
0.25	< 5	< 10	49	< 5	7	73	91
0.37	< 5	< 10	79	< 5	9	84	126
0.4	< 5	< 10	88	< 5	7	87	116
0.36	< 5	< 10	78	< 5	9	77	109
0.4	< 5	< 10	93	< 5	10	88	122
0.37	< 5	< 10	72	< 5	7	81	115
0.37	< 5	< 10	72	< 5	9	81	117
0.25	< 5	< 10	63	< 5	7	63	101
0.19	< 5	< 10	42	< 5	7	70	83
0.35	< 5	< 10	71	< 5	7	71	101
0.23	< 5	< 10	49	< 5	7	67	92
0.31	< 5	< 10	74	< 5	9	77	109
0.41	< 5	< 10	94	< 5	9	105	130
0.4	< 5	< 10	94	< 5	9	92	130
0.41	6	< 10	95	< 5	10	102	134
0.36	< 5	< 10	77	< 5	9	73	139
0.31	< 5	< 10	68	< 5	9	60	117
0.36	< 5	< 10	64	< 5	8	78	112

0.35	< 5	< 10	75	< 5	7	81	109
0.37	< 5	< 10	101	< 5	11	87	117
0.29	< 5	< 10	62	< 5	10	74	130
0.38	< 5	< 10	64	< 5	8	72	188
0.39	< 5	< 10	82	< 5	15	63	155
0.38	< 5	< 10	116	< 5	15	69	90
0.31	< 5	< 10	108	< 5	15	73	66
0.31	< 5	< 10	122	< 5	17	85	66
0.19	< 5	< 10	82	< 5	15	76	46
0.39	< 5	< 10	94	< 5	18	74	181
0.33	< 5	< 10	94	< 5	17	74	125
0.21	< 5	< 10	40	< 5	13	49	111
0.2	< 5	< 10	39	< 5	14	57	138
0.35	< 5	< 10	52	< 5	9	63	166
0.25	< 5	< 10	62	< 5	8	65	116
0.31	< 5	< 10	66	< 5	9	88	122
0.34	< 5	< 10	75	< 5	10	108	122
0.21	< 5	< 10	54	6	9	2320	102
0.26	7	< 10	77	< 5	9	106	121
0.27	< 5	< 10	72	< 5	9	92	124
0.3	< 5	< 10	78	< 5	7	78	120
0.26	< 5	< 10	64	< 5	7	70	104
0.34	< 5	< 10	76	< 5	8	76	109
0.47	< 5	< 10	104	< 5	13	79	158
0.17	< 5	< 10	45	< 5	17	124	142
0.29	< 5	< 10	48	< 5	18	108	174
0.19	< 5	< 10	49	< 5	13	137	145
< 0.01	< 5	< 10	2	< 5	2	2	< 5
0.19	< 5	< 10	38	< 5	15	163	156
0.18	< 5	< 10	37	< 5	15	147	147

Core Box Tagging BTU-19-08

Box #	From	To	Interval
1	16.3	20.5	4.2
2	20.5	24.5	4
3	24.5	29	4.5
4	29	33.4	4.4
5	33.4	37.7	4.3
6	37.7	42	4.3
7	42	46.4	4.4
8	46.4	50.6	4.2
9	50.6	55	4.4
10	55	59.3	4.3
11	59.3	63.8	4.5
12	63.8	68.1	4.3
13	68.1	72.8	4.7
14	72.8	77.4	4.6
15	77.4	81.8	4.4
16	81.8	86	4.2
17	86	90.4	4.4
18	90.4	94.7	4.3
19	94.7	99	4.3
20	99	103.4	4.4
21	103.4	107.8	4.4
22	107.8	112.1	4.3
23	112.1	116.3	4.2
24	116.3	120.7	4.4
25	120.7	125.2	4.5
26	125.2	129.6	4.4
27	129.6	134	4.4
28	134	138.5	4.5
29	138.5	142.9	4.4
30	142.9	147.3	4.4
31	147.3	151.3	4
32	151.3	155.6	4.3
33	155.6	160	4.4
34	160	164.3	4.3
35	164.3	168.9	4.6
36	168.9	173	4.1
37	173	177.5	4.5
38	177.5	181.9	4.4
39	181.9	186.3	4.4
40	186.3	190.3	4
41	190.3	194.4	4.1
42	194.4	198.5	4.1
43	198.5	202.5	4
44	202.5	206.7	4.2
45	206.7	211.1	4.4
46	211.1	215.5	4.4
47	215.5	219.9	4.4
48	219.9	224.3	4.4
49	224.3	228.5	4.2
50	228.5	233	4.5
51	233	237.4	4.4

52	237.4	241.7	4.3
53	241.7	245.7	4
54	245.7	250.2	4.5
55	250.2	254.5	4.3
56	254.5	258.8	4.3
57	258.8	263.2	4.4
58	263.2	267.6	4.4
59	267.6	272	4.4
60	272	276.3	4.3
61	276.3	280.8	4.5
62	280.8	285.1	4.3
63	285.1	289.5	4.4
64	289.5	293	3.5

EOH

Point Data BTU-19-08

Depth	Type	leasuremei	Comments
16.5	F	45	
18.8	V	55	stringers over 10cm
20	B	-45	blocky ground 19.6-22.2m due to xcutting joints
22.4	JC	-25	
24	F	50	
28.4	F	55	
30	F	40	
31	F	47	
31.2	F	55	
32.5	F	55	
33.2	F	45	
35.1	JC	5	shallow joint causing blocky ground
36.3	JC	5	shallow joint causing blocky ground
37	J	-37	
37.2	F	47	
37.6	V	57	5cm light grey quartz vein
38	F	57	
40.3	C	45	
40.9	c	55	
41.2	F	50	
43.4	V	50	veinlet zone
46	F	55	
49.55	C	60	
50.9	C	55	gradational contact
52.1	C	50	
53	F	50	
52.5	V	37	gradational contact; fabric parallel lower contact at 53 dtca
56.3	V	47	veinlet zone
58.7	F	55	
60.8	V	50	6cm light grey quartz veinlet
61.4	F	47	
62.3	V	47	veinlet zone
63.5	F	55	
67.4	C	57	
69	C	65	
70.4	F	55	
72.1	V	57	10 cm quartz vein
72.5	F	57	
73.9	V	57	possible 10cm shear zone at upper contact
74.8	V	40	
75	V	25	1cm quartz veinlet within quartz zone
75.8	C	60	
77	F	60	
88.6	J	-30	joints with py dissem; aspy in 5mm q/c str at 48 dtca
83.4	J	-25	
84.9	J	-20	
85	F	57	
86.5	J	-45	86-87m blocky ground due to xcutting joints across the fabric
89	JC	-35	
90.9	JC	-40	calcite joints with cubic py grains to 1mm
91.5	F	60	

95.5	F	60	
97.25	V	45	1cm quartz stringers at 45 dtca
98	F	53	
100.1	JC	-32	1mm calcite filled joints/fractures; one with trace aspy
101	F	60	
104.6	F	65	
107.1	V	52	5cm light grey quartz vein
108	F	55	
110.2	BD	45	mudstone banding/bedding
111.1	SH	55	20cm zone of calcite/biotite with quartz stringers at 55 dtca; possible shear zone
112	F	55	
113.15	C	45	gabbro
115.3	C	53	gabbro
118.8	F	50	
120.4	C	58	going into argillites
121.8	V	53	veinlets up to 5cm
123.9	C	50	
125.2	C	57	massive tuff
126	F	60	
127	BN	45	
129.8	V	55	quartz veinlets
130.2	BN	60	
135.5	J	-50	hairline threads of py along joints
136.2	B	0	blocky ground 135.7-137m
138.15	BN	65	
142.3	F	65	
145	J	-45	142.5-blocky ground due to cross jointing;
150.4	V	50	150-150.8m quartz veinlets at 40-53 dtca; trace aspy
152	JQ	-20	3cm xcutting quartz veinlet (E-W sub horizontal dipping south)
154.8	BN	65	
155.7	V	60	10 cm quartz vein
158.7	J	-47	several xcutting py-filled joints
160.5	BN	60	banding/bedding at 60 dtca
163.2	V	40	13cm quartz vein with minor po and trace cp
164	F	50	
165.6	JC	-25	weak deformation adjacent to xcutting veinlet
167.5	V	55	35cm veinlet zone
171.3	BN	65	
173	BN	60	
174.5	BN	55	
176.5	BN	45	
177.2	V	57	10 cm quartz vein
177.5	BN	47	
157	BN	57	
179.6	V	60	1m veinlet zone
185.8	V	55	stringers over 10cm zone
188	BN	65	
188.5	B	60	187-190m very blocky ground due to strong fabric and xcutting joints; py/<po on t
195.3	B	50	195.0-195.6m very blocky ground
197.7	V	50	50cm veinlet zone
199.9	BN	55	
201.2	BX	45	banding/bedding brecciated; possible fault zone or sed. feature?
201.5	B	45	201.2-202.2m very blocky ground; some graphite
204.5	B	45	202.8-206.3m blocky ground along fabric; some xcutting joints
207.5	V	50	50cm veinlet zone

210	F	50	
212.7	V	60	20cm veinlet zone
215.2	F	55	
216	V	55	veinlets over 1m zone
219	F	55	
224	V	60	20cm veinlet zone
224.8	V	55	2cm veinlet with trace po
227.8	F	60	
231.9	V	53	10cm quartz vein with adjacent alteration
232.3	F	55	
233.5	BN	63	finely banded
236.4	BN	50	
237.6	BD	60	
239.3	BN	55	
239.7	V	45	6cm light grey quartz veinlet; minor calcite; coarser po disseminations/threads; minor py;
241	BN	55	in argillite
242.4	V	-20	2cm veinlet with coarse po at -20 dtca truncated by the fabric
244.7	F	63	
249	F	65	
250.7	JC	-20	hairline joints
253.7	BD	60	
256.6	SH	45	upper contact of shear zone
258.4	SH	45	lower contact of shear zone
259.1	F	67	
260.8	V	40	10 cm veinlet zone at 40-50 dtca with trace po/cp
262.7	F	50	biotite/calcite alteration bands
265.5	F	58	
267	V	65	30 cm quartz vein zone
269.3	V	55	30 cm quartz vein zone
271.5	F	67	
272.65	C	57	lower contact of BIF?
273.8	BN	55	
274.5	BD	60	
275.2	BN	43	
275.5	J	-40	275-276m very blocky ground; poor recovery
277.5	BN	55	
279.4	V	-20	2cm medium grey quartz veinlet with coarser po
280.5	C	56	
282.6	F	60	
286.2	F	65	
288.6	FT	17	fault zone along core axis
290.7	V	45	20cm altered quartz vein zone; py minz and in open fracture
292.8	F	60	

EOH

F-foliation

Ft-fault

V-vein

J-joint

JQ-quartz filled

JC-calcite filled

C-contact

BD-bedding

BN-banding

S-slip

B-blocky ground

Bx-breccia

Sh-shear zone

fabric/joint planes

; trace 1mm aspy grains adjacent to veinlet

SURVEY DATA	
DDH	BTU-19-09
Page	1 of 1
Project	Dixie Lake
Date Drilled	August 22- 25, 2019
Date Logged	August 26, September 27-28, 2019
Geologist/Geotech	C.St.Louis
Core Diameter	BQW
Storage Location	Esker Logging
Contractor	M3 Drilling
Collar Azimuth/Dip	032/-45
EOH(m)	221
Overburden (m)	9.1
Casing	removed
Artesian Water	none

UTM Projection

NAD 83

UTM Zone

15

Collar Locations			Claim Cell Number	Provincial cell grid number
Approximate Coordinates (hand-held GPS)				
Easting (m)	Northing (m)	Elevation (m)		
461723	5631537		154720	52K13H394

Coordinates (differential GPS) Not Taken

Easting (m) Northing (m) Elevation (m)

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Survey Data			Uncorrected	Adjusted	Magnetic
Surv. No.	Dist from collar	hole dip	hole azimuth	hole azimuth	Field
1	0				
2	5	-48	318		47115
3	14	-47.7	43.2		55768
4	23	-47.3	42.1		55904
5	32	-47	39.8		56734
6	41	-46.4	34.3		56639
7	50	-45.9	35		56233
8	59	-45.3	33.3		56413
9	68	-44.7	33.2		56524
10	77	-44	33.2		56665
11	86	-43.4	33.9		56732
12	95	-42.7	34.2		56790
13	104	-41.9	34.8		56781
14	113	-41.1	35.2		56703
15	122	-40.7	35.1		56739
16	131	-40.1	35.2		56693
17	140	-39.2	35.3		56709
18	149	-38.5	35.6		56712
19	158	-37.8	35.9		56767
20	167	-37.2	36.2		56806
21	176	-36.6	36.5		56876
22	185	-36	37.3		56957
23	194	-35.2	37.7		56903
24	203	-34.4	37.9		57107
25	212	-33.8	37.1		57073
26	221	-33.1	39.6		57121

GEOLOGY LOG				Project															
DDH	BTU-19-09			Date Drilled		August 22- 25, 2019					EOH	221.0							
Page	1 of 1			Date Logged		August 26, September 27-28, 2019					Comments								
				Geologist		C.St.Louis													
Depth						"Alteration,(0 to 5), sulphides as %													
	From	To	width	Lithology	Description	Quartz/Silicification	Sericite	Chlorite	Fe-carbonate	Calcite	Biotite	Actinolite	Garnet	Other:	Pyrrhotite (%)	Pyrite (%)	Sphalerite (%)	Chalcopyrite (%)	Arsenopyrite (%)
	0	9.1	9.1	Overburden															
	9.1	25.1	16	Sheared Gabbro	f.g. to m.g. to 3mm; sheared gabbro; moderate to strongly magnetic with 5-10% disseminated magnetite throughout; pervasive calcite; more chloritic patches with 1-3% py disseminated and minor po; strong pervasive fabric at 25 dtca though weaker from 18-23m where epidote alteration occurs; trace 1mm blue quartz eyes			2	2	1				1	0.1	0.2			
	25.1	28.35	3.25	Sheared Gabbro	strongly sheared; loss of texture; appears f.g. green with strong fabric at 20 dtca with up to 5% calcite stringers; non-magnetic; rare blue quartz eye			2	1										
	28.35	36.45	8.1	Sheared Gabbro	as from 9.1-25.1; blue quartz eyes still present; loss of magnetism at 34.7m to lower contact; 35.0-35.3m zone of calcite washed out with only chlorite and blue quartz eyes remaining; pervasive moderate to strong fabric at 22-25 dtca; lower contact at 32 dtca; 28.35-29.7m light grey f.g. raft/frag of tuff;			2	2	1						0.1			
	36.45	39.2	2.75	Tuff	f.g. medium grey; hard silicified patches; calcite in greener more chloritic patches; much weaker fabric at 25-30 dtca;	1		1	1										
	39.2	49.6	10.4	Mafic tuff	f.g. grey to green to brownish green; grey silicified patches; chloritic/calcite in green sections; weakly magnetic in sections; moderate fabric 35-40 dtca; possibly basalt with hints of remnant pillows?; 5-10cm patches of up to 5% 1mm py disseminated/grains; fine magnetite in patches	1		2	2	1						0.2			

			49.6	79	29.4	Quartz Porphyry Tuff	f.g.; medium grey; greener where chloritic/calcite bands; also with 1mm blue quartz eyes (<1%); weak to moderate fabric at 20-35 dtca; gradational contacts;	1	0	1		1	0					0.1	0.1				
			79	85	6	Felsic Tuff	similar to above but more massive texture; rare blue quartz eye; moderate fabric at 25 dtca; weak calcite; trace py/po in greener bands; sericite alteration associated with xcutting joints/stringers at -60 dtca	1	0	0		1	0					0.1	0.1				
			85	93.5	8.5	Quartz Porphyry Tuff	similar to 49.6-79; gradational contacts along moderate fabric at 25-30 dtca; local sericite alteration/bleaching often associated with xcutting fractures at 37-45 dtca; zones of white to translucent quartz veinlets (to 5cm) with trace to 3% py; trace po/red sphalerite and one grain of aspy; py/po dissem in greener bands of calcitic; rare blue 0.5mm quartz eye	1	1	0		1	0					0.1	0.1	0		0	
			93.5	121	27.5	Felsic Tuff	medium grey to greenish grey felsic tuff; weak to moderate fabric at 22-30 dtca; trace py/po in localized greener calcite bands; py dissem and cubic grains along xcutting fractures/calcite threads at -30 to -45 dtca; gradational contact; localized quartz veinlets generally along fabric	1	0	1		1	0					0.1	0.1				
			121	133.75	12.75	Sheared Tuff	increased fabric intensity at 10-30 dtca and increased veining as white bull quartz veins to 60cm wide; weak py/po dissem in some calcite bands; trace py and blue grey galena in larger bull quartz vein which appear to be xcutting the fabric	1	1	0		1	0					0.1	0.1				0
			133.75	142.5	8.75	Tuff	greyer; biotite/calcite/<sericite alteration; mod fabric at 35 dtca; zone of up to 5% parallel veinlets with trace py/po/cp		0	0		1	1					0.1	0.1				
			142.5	151.8	9.3	Sheared Tuff	stronger fabric; greyish brown biotite/calcite/green sericite zones with fine py dissem; greener bands with po/trace cp; zones of stronger yellow buff sericite alteration	1	1			2	2					0.2	0.3			0	0
			151.8	165.85	14.05	Banded Tuffs	50% siliceous grey bands +/- 1mm quartz porphs and 50% calcitic brownish grey to greenish grey tuff bands to 2m widths; moderate to strong pervasive fabric at 30-35 dtca; 2-5% calcite stringers; up to 0.5% fine po; trace py; rare 0.5mm cp dissem in less siliceous bands;		1		0	2	1					0.5	0.1			0	
			165.85	174	8.15	Fragmental Tuffs	f.g. medium to dark grey with 25% greener bands with medium grey sub-angular fragments; moderate to strong pervasive fabric at 30 dtca; trace to 0.5% po/py dissem along fractures and fabric planes; trace cp often associated with the po; much more siliceous and only weakly calcitic; sharp lower contact at 35 dtca		0	1		0	0					0.3	0.2			0	

Samples						
Magnetite (%)	Other (%)	Sample Number	From	To	Width	Comments
10						
7						
0						

3						

Samples BTU-19-09

Sample#	From	To	Width	Au		Description
				ppb	g/t	
				FA-AA	FA-GRA	
0254783	8.1	10	0.9	7		sheared moderately magnetic gabbro with 5-10% magnetite; patches of 1-2% py; minor po; 5% sheared granular looking quartz stringers along fabric
0254784	11.55	12.6	1.05	5		sheared moderately magnetic gabbro with 5-10% magnetite; patches of 1-2% py; minor po; 5% sheared granular looking quartz stringers along fabric
0254785	12.6	13.8	1.2	5		sheared moderately magnetic gabbro with 5-10% magnetite; patches of 1-2% py; minor po; 5% sheared granular looking quartz stringers along fabric
0254786	13.8	14.9	1.1	5		sheared moderately magnetic gabbro with 5-10% magnetite; patches of 1-2% py; minor po; 5% sheared granular looking quartz stringers along fabric
0254787	17	18	1	5		sheared moderately magnetic gabbro with 5-10% magnetite; patches of 1-2% py; minor po; 5% sheared granular looking quartz stringers along fabric
0254788	21	22	1	5		coarser with epidote alteration; 10% magnetite with trace py
0254789	24	25.1	1.1	11		shearing stronger again; 10% magnetite; trace po/py
0254790	29	30	1	5		minor magnetite/py adjacent to contact of tuff
0254791	34	35	1	5		5% magnetite and up to 2% py in sheared gabbro
0254792	42	43	1	5		1-3% disseminated py in patches; mafic tuff or basalt
0254793	47.6	48.6	1	18		weakly magnetic; calcitic; 1-2% py;
0254794	48.6	49.7	1.1	5		sheared quartz porph; very fine py
0254795	55	56	1	12		sheared quartz porph; minor sericite adjacent cutting calcite joints at -50; trace py
0254796	60	61	1	5		sheared quartz porph; very fine py
0254797	63.65	64.6	1.05	5		same; 20% calcite/greenish quartz sheared bands with fine py disse
0254798	67.5	68.65	1.15	5		same; 50% sheared chlorite/calcite/quartz bands with trace fine py
0254799	71.9	73.05	1.15	265		same; 30% calcite/greenish quartz sheared bands with fine py/po disse
0254800				392		DUPLICATE - PULP 00254799
0254801	75.05	76.2	1.15	6		same; 30% calcite/greenish quartz sheared bands with fine py/po disse
0254802	77	78	1	5		medium grey; silicified with two cutting white bull quartz veinlets
0254803	78	79	1	11		same; 10% quartz/calcite/biotite stringers at 25 dcca; trace py along fabric planes as 2-5mm splashes
0254804	80	81	1	124		2-5% calcite stringers at 15 dcca; 0.5% py/po disse concentrated in darker green chloritic bands
0254805	84.2	85.15	0.95	8		weakly calcitic; sericite alteration adjacent to cutting carb stringers at -50 dcca with trace py/po
0254806	86.15	87.2	1.05	6		silicified weak shear zone at 35-40 dcca with up to 10% quartz veinlets; 15% buff sericite alteration adjacent to fractures; cubic py along some fracture planes
0254807	89	89.9	0.9	9		25% dark green calcite/chlorite bands with up to 5% py/po disse; <1% overall
0254808	89.9	90.75	0.85	8		foliated tuff
0254809	90.75	91.55	0.8	6		25% irregular white quartz veinlets (to 5cm) at 30-45 dcca with trace py disse; adjacent coarse black biotite; minor white calcite
0254810	91.55	92.1	0.55	5		45% white to translucent quartz veining; <0.5% py in greener calcite patches in quartz; trace aspy as one 2mm grain in quartz veinlet
0254811	92.1	92.75	0.65	7		sericite altered quartz porph tuff with 5% quartz veinlets (to 2cm); coarser py in veinlets with minor red sphalerite; trace po
0254812	92.75	93.75	1	9		same; sericite associated with cutting fractures/joints at -25 dcca; trace po/cp/red sphalerite in 2-3% quartz stringers (<1cm)
0254813	93.75	94.6	0.85	6		foliated tuff
0254814	94.6	95.6	1	10		same tuff with greener calcitic bands with minor py/po; trace py/red sphalerite in rare quartz/calcite stringer along fabric; bleaching/weak sericite alteration assoc; with cutting joints/fractures at -37 dcca
0254815	99	99.85	0.85	9		weak to moderate sericite alteration; trace py/ourm/blue grey oolite in 5cm white bull quartz vein at 50 dcca;
0254816	99.85	100.4	0.55	8		tuff with irregular banding; trace py along fractures
0254817	100.4	101	0.6	7		30cm white to medium grey quartz vein; appears to xcut fabric at -30 dcca (dips shallow to SW?) with trace py along some fractures; 10cm breccia zone at 50 dcca at 104.5m with white calcite infill; angular fragments 2mm-2cm; appears later than quartz vein;
0254818	101	102	1	7		tuff with 5% white quartz veinlets (to 1cm) along fabric with trace po/cp
0254819	104	105	1	5		tuff with py along fractures; trace po/cp in rare quartz stringer
0254820				>5000	8.68	STANDARD CON-SIS-98
0254801	105	106	1	8		same; one 20cm white to light green carbonate vein/cutting at 105.9m at 37/22 dcca
0254802	106	107	1	5		same; trace po/cp along rare white quartz stringer at 25 dcca
0254803	111.5	112.5	1	5		10% white calcite/ankerite/quartz stringers along fabric at 22 dcca; barren looking
0254804	115	116	1	5		trace po/cp and red sericite adjacent to bleaching alteration of cutting py bearing calcite stringer at -40 dcca
0254805	117.2	118.5	1.3	11		15% white to translucent quartz/calcite veinlets (to 8cm) generally along or slightly steeper than the fabric at 30 dcca; trace py/po disse; py along cutting calcite stringers at -18 dcca
0254806	122	122.6	0.6	10		calcitic shear zone at 20 dcca;
0254807	122.6	123.3	0.7	5		hairline structure along core; truncated by slip plane; 1mm grains of aspy; 1% po and trace cp in foliated part of core
0254808	123.3	123.8	0.5	7		40% as white bull quartz vein at -40 dcca which appears to be cutting the fabric at 15 dcca; trace py at vein contact
0254809	123.8	124.6	0.8	6		65% white bull quartz vein also cutting the fabric with more irregular contacts; trace py and one 1mm speck of blue grey oolite
0254810	124.6	125.4	0.8	6		buff sericite altered quartz porph; cutting calcite threads at -25 dcca; fabric at 30 dcca
0254811	125.4	126	0.6	17		trace fine po/po disse
0254812	126	127	1	7		stronger fabric at 20 dcca; pervasive calcite; coarse biotite adjacent to rare quartz veinlet
0254813	127	128	1	8		10% white quartz veinlets; trace po
0254814	128	128.9	0.9	11		grey tuff; fabric at 25 dcca;
0254815	128.9	130.15	1.25	11		shear zone at 10-18 dcca; calcitic; trace po/cp in shearing; one 1mm speck of aspy
0254816	131	132	1	16		calcite/sericite alteration; strong fabric at 23 dcca; trace po/cp in rare quartz veinlet
0254817	132	132.9	0.9	5		medium grey; moderate fabric at 27 dcca;
0254818	132.9	133.75	0.85	10		30% quartz/calcite/biotite veinlets to 20cm at 10-15 dcca shallower than the fabric; adjacent sericite alteration; barren looking
0254819	133.75	134.75	1	5		trace py disse in altered tuff at 25 dcca with cutting calcite threads/joints at -30 to -40 dcca
0254820				5		BLANK
0254821	136.25	137.3	1.05	5		green oolite tuff at 25-30 dcca; trace po/po in 5% quartz/calcite veinlets to 1cm at 20-40 dcca
0254822	142.45	143.45	1	6		up to 1% very fine po; trace cp along strong fabric at 30 dcca
0254823	143.45	144.4	0.95	5		strong fabric at 30 dcca; biotite/calcite alteration; up to 1% py fine disse
0254824	144.4	145.3	0.9	6		same; stronger sericite alteration associated with cutting joints at -45 dcca; up to 0.5% py/po disse; trace cp
0254825	146.65	147.65	1	7		fine py in biotite/calcite zone; po/trace cp in greener bands; strong fabric at 35 dcca
0254826	147.65	149	1.35	5		same; 10% white quartz/calcite stringers at 37 dcca; trace py/po
0254827	149	150.35	1.35	5		same; 5% aspy calcite/quartz stringers at 37 dcca; trace py/po
0254828	150.35	151.4	1.05	5		same; 35% white quartz/carbonate/calcite veinlets to 10cm with variable contacts at 25-37 dcca; green to yellow green sericite alteration; trace to 0.5% py/po disse
0254829	151.4	152.1	0.7	10		browner; more siliceous; 0.5% po disse; fabric at 30 dcca
0254830	152.1	152.85	0.75	6		greener; siliceous; sericite patches; trace po
0254831	152.85	153.75	0.9	6		brownish grey; 10% white quartz/calcite veinlets to 2cm at 30-35 dcca; fine po/trace cp disse
0254832	156.35	157.35	1	5		brownish grey; moderate fabric at 25 dcca; pervasive calcite; one 2cm quartz vein at contact with py at 25 dcca
0254833	158.5	159.5	1	5		brownish grey; moderate fabric at 27-305 dcca; pervasive calcite; up to 1% very fine po and trace cp;
0254834	163.6	164.8	1.2	5		brownish grey; moderate fabric at 27-305 dcca; pervasive calcite; up to 0.5% very fine po and trace cp;
0254835	164.8	165.85	1.05	5		brownish grey; moderate fabric at 27-30% dcca; pervasive calcite; up to 0.5% very fine po and trace cp;
0254836	169	170	1	5		medium grey siliceous bands with fragments; trace py/po/cp disse
0254837	173	174	1	9		siliceous tuff; trace py on cutting fractures/stringers; trace po
0254838	174	175	1	6		strongly calcitic greenish grey tuff; trace po
0254839	178	179	1	48		same; trace po/cp disse;
0254840				36		DUPLICATE - PULP 00254839
0254841	184	185.2	1.2	18		possibly sheared diorite as below 214m
0254842	185.2	186.5	1.3	11		medium grey tuff; 0.5-1% py along joints and fabric planes
0254843	189	190	1	13		strongly calcitic greenish grey tuff; trace po
0254844	191.9	192.7	0.8	21		strongly calcitic greenish grey tuff; trace po/cp
0254845	192.7	193.4	0.7	11		grey siliceous tuff? Dyke-like; up to 1% aspy within 30cm of contact to 2mm grains; rare needle; coarser 1-4mm po blebs +/-cp/asp adjacent to po; py/po also along random 1mm calcite threads
0254846	193.4	194.6	1.2	5		same unit; 0.5% py/po disse
0254847	194.6	195.45	0.85	5		same unit; again with up to 0.5% aspy grains within 30cm of contact; 1-3mm po blebs; trace py
0254848	195.45	196.25	0.8	43		back into calcitic tuff with trace to 0.5% py/po disse
0254849	196.25	197.25	1	8		same
0254850	199	200	1	5		same
0254851	202	203	1	5		same; weak to moderate calcite; weakly magnetic; trace po/py disse
0254852	205	206	1	22		same; weak to moderate calcite; weakly magnetic; trace po/py disse
0254853	208	209	1	5		same; weak to moderate calcite; weakly magnetic; trace po/py disse
0254854	212.95	214	1.05	5		same; sheared at lower contact; weak to moderate calcite; weakly magnetic; trace po/py disse
0254855	214	215	1	5		coarser unit to 3mm; 1-3% 1-2mm magnetite grains; trace py/po
0254856	217	218	1	6		coarser unit to 3mm; 1-3% 1-2mm magnetite grains; trace py/po
0254857	220	221	1	8		coarser unit to 3mm; 1-3% 1-2mm magnetite grains; trace py/po

91 #core samples 87.9 metres sampled
 4 #QA/QC 39.8 % sampled
 95 Total # of samples

Core Box Tagging BTU-19-09

Box #	From	To	Interval
1	9.1	13.4	4.3
2	13.4	17.7	4.3
3	17.7	22	4.3
4	22	26.4	4.4
5	26.4	30.6	4.2
6	30.6	35	4.4
7	35	39.5	4.5
8	39.5	43.8	4.3
9	43.8	48.1	4.3
10	48.1	52.4	4.3
11	52.4	56.5	4.1
12	56.5	60.8	4.3
13	60.8	65	4.2
14	65	69.5	4.5
15	69.5	74	4.5
16	74	78.1	4.1
17	78.1	82.6	4.5
18	82.6	87	4.4
19	87	91.3	4.3
20	91.3	95.6	4.3
21	95.6	100	4.4
22	100	104.4	4.4
23	104.4	108.9	4.5
24	108.9	113.1	4.2
25	113.1	117.5	4.4
26	117.5	122	4.5
27	122	126.4	4.4
28	126.4	130.7	4.3
29	130.7	135	4.3
30	135	139.4	4.4
31	139.4	143.8	4.4
32	143.8	148.1	4.3
33	148.1	152.4	4.3
34	152.4	156.8	4.4
35	156.8	161.1	4.3
36	161.1	165.5	4.4
37	165.5	169.7	4.2
38	169.7	173.9	4.2
39	173.9	178.3	4.4
40	178.3	182.5	4.2
41	182.5	186.5	4
42	186.5	191	4.5
43	191	195.5	4.5
44	195.5	200	4.5
45	200	204.5	4.5
46	204.5	208.8	4.3
47	208.8	213.2	4.4
48	213.2	217.6	4.4
49	217.6	221	3.4

EOH

Point Data BTU-19-09

Depth	Type	leasuremei	Comments	
9.5	F	25		F-foliation
13	F	18		Ft-fault
15.5	F	23		V-vein
21.3	F	23		J-joint
25.1	C	22	main shear	JQ-quartz filled
27	F	15		JC-calcite filled
28.3	C	30		C-contact
29.5	F	25		BD-bedding
30.5	FT	-5	hairline fault along core axis	BN-banding
32.5	F	25		S-slip
36.45	C	32		B-blocky ground
40.2	JV	-35	4mm quartz stringer	Bx-breccia
40.4	F	35		Sh-shear zone
42.3	JV	-26	6mm quartz stringer	
44.5	F	30		
47.7	F	30		
48.6	C	33		
50.5	JV	-30	sericite/py along xcutting quartz thread	
51.5	F	25		
55.1	JV	-50	sericite/py along xcutting quartz thread	
55.4	V	45	two 1cm quartz/carb veinlets	
60.85	V	-37	5mm quartz biotite stringer	
64	F	25		
65.5	F	30		
69.5	F	25		
70.3	F	20		
74	F	35		
77	V	-30	3cm translucent xcutting quartz veinlet with fine py dissem	
77.7	V	-47	3cm translucent xcutting quartz veinlet with fine py dissem	
79.5	F	25		
81	F	15		
84.8	JC	-50	xcutting calcite stringers with sericite alteration	
86.5	SH	30	86.15-86.8m; 0.5m shear zone with up to 10% quartz veinlets at 30-45 dtca; moc	
88	F	32		
88.3	JC	-60	10cm zone of sericite alteration and calcite threads at -55 to -60 dtca with fine py	
92	V	35	90.75-92.75m; 2m zone of quartz veining with weak py/po minz; trace red sphale	
94	F	24	moderate fabric	
26	F	25		
99.6	V	50	10cm quartz vein zone with trace py and blue grey galena	
100.5	BX	50	10cm calcite filled breccia zone; post quartz veining; fine py in some of the fragm	
100.8	V	-30	30cm xcutting white to medium grey quartz vein; trace py dissem	
105.9	V	35	20cm buff white calcite/ankerite vein with quartz filled fractures; barren looking	
106.2	F	25		
110.6	JC	-45	3/25cm	
113	F	25		
116.3	J	-30	hairline joints/threads	
117.7	V	45	quartz/<calcite vein at 45 dtca	
122	SH	20	top of shear zone/veinlet zone	
123.4	V	-40	20cm quartz vein appears to xcut shear fabric;	
124.5	V	-45	60cm quartz vein xcutting fabric; slightly irregular contact	
127.3	V	45	some quartz veinlets slightly steeper than fabric	

129	SH	15	
130.15	SH	20	end of shear zone
123.7	F	23	
133.2	V	15	20cm grey to white vein sub parallel to the fabric
133.5	V	20	10cm vein at 35/15 dtca
134	F	25	
136.6	V	32	30cm zone with veinlets at 20-40 dtca
139	F	35	
144.2	F	43	
145	J	-45	joint with adjacent sericite alteration
145.2	F	37	
146	F	30	
148	F	30	
148.4	V	37	30cm veined zone with adjacent sericite alteration; barren looking
150	F	35	
150.85	V	35	1m quartz/<calcite veined zone up to 10 cm wide; trace po/cp adjacent to some c
151.7	F	27	
153.5	SH	25	1m shear zone at 25 dtca with up to 10% fabric parallel quartz veinlets
154.6	F	35	
156	BN	25	banded/bedding of tuff
157.4	F	30	
159.6	JC	-45	4/30cm
161	F	30	
165	F	30	
165.85	C	30	
169.9	JC	-35	1cm carbonate veinlet with py
170	F	130	
171.4	J	-25	joint with py splashes
173.1	J	-30	py covered joint
173.9	JQ	-43	5mm quartz stringer with minor py
174.5	F	30	
180	F	35	
180.5	J	-30	2/15cm
181.4	F	40	
181.8	JC	-55	1cm calcite vein with coarse 2-3mm py;
182	JC	-25	
183	J	-10	182-184m blocky ground due to xcutting joints and calcite filled fractures at <10 c
184.4	F	30	
185.2	C	30	
185.4	J	-27	py coated joints
186.5	C	35	
187	F	30	
190	F	33	
191.7	F	37	
192.7	C	37	
195.45	C	40	
196	F	45	
199.5	F	35	
205	F	30	
209.5	F	37	
213.5	SH	45	213.3-214m sheared contact zone
217	F	45	
220	F	35	

EOH

derate sericite alteration; trace py/po/cp; cubic py along xcutting fractures

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of the veinlets

dtca with calcite crystals

SURVEY DATA	
DDH	BTU-19-10
Page	1 of 1
Project	Dixie Lake
Date Drilled	August 26-30, 2019
Date Logged	September 9-13, 2019
Geologist/Geotech	C.St.Louis
Core Diameter	BQW
Storage Location	Esker Logging
Contractor	M3 Drilling
Collar Azimuth/Dip	212/-50
EOH(m)	221
Overburden (m)	9.4
Casing	removed
Artesian Water	none

UTM Projection

NAD 83

UTM Zone

15

Collar Locations			Claim Cell Number	Provincial cell grid number
Approximate Coordinates (hand-held GPS)				
Easting (m)	Northing (m)	Elevation (m)		
461723	5631537		187834	52K13H393

Coordinates (differential GPS) Not Taken

Easting (m) Northing (m) Elevation (m)

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Survey Data			Uncorrected	Adjusted	Magnetic
Surv. No.	Dist from collar	hole dip	hole azimuth	hole azimuth	Field
1	0				
2	14	-47.5	40	215.4	3104
3	23	-47.2	215.4		56697
4	32	-46.7	212.2		56330
5	41	-46	210.9		56041
6	50	-45.4	210.7		56178
7	59	-44.7	208.7		56953
8	68	-44.2	208.6		56113
9	77	-43.6	207.4		57036
10	86	-42.9	205.5		56855
11	95	-41.8	208.5		56523
12	104	-40.7	208.5		56588
13	113	-39.6	208.3		56404
14	122	-38.5	195.6	208.65	57611
15	131	-37	209		57931
16	140	-35.8	207.4		56758
17	149	-34.7	207.7		56678
18	158	-33.6	208.3		56556
19	167	-32.7	207		56724
20	176	-31.8	208.5		56414
21	185	-30.9	208.8		57123
22	194	-30	345.2	208.9	56617
23	203	-29.2	209		56606
24	212	-28.4	209.2		56471
25	221	-27.5	209		56579

GEOLOGY LOG					Project	Dixie Lake														
DDH	BTU-19-10				Date Drilled	August 26-30, 2019										EOH	221			
Page	1 of				Date Logged	September 9-13, 2019										Comments				
					Geologist	C.St.Louis														
Depth															Alteration, (0 to 5), sulphides as %					
	From	To	width	Lithology	Description	Quartz/Silicification	Sericite	Chlorite	Fe-carbonate	Calcite	Biotite	Actinolite	Garnet	Other:		Pyrrhotite (%)	Pyrite (%)	Sphalerite (%)	Chalcopyrite (%)	
	0	9.4	9.4	Overburden	granitic boulder at bedrock contact															
	9.4	24.1	14.7	Sheared Tuff	f.g. to 1mm green to grey green altered tuff; up to 50% veinlets locally with trace tourmaline and fine py disseminations; less po/cp in veinlets; trace to 1% fine po/trace cp/<py disseminations in moderately to strongly calcitic host; trace fine magnetite grains in patches; weakly magnetic overall; green fuchsite alteration; <1% fine <1mm blue quartz eyes; rare shallow xcutting fractures at <20 dtca +/- calcite crystals		2	0	0	2	0					0.50	0.30		0.20	
	24.1	26.45	2.35	Tuff	much weaker fabric at 45-50 dtca; wispy calcite threads; strongly calcitic; rare blue quartz eye; trace py; lower contact at 47 dtca		1			2							0.10			
	26.45	35.7	9.25	Foliated Tuff	very fine to coarser sections with coarse biotite flecks; moderately calcitic; pervasive fabric at 40-50 dtca; rare blue quartz eye; trace po/py/cp as fine disseminations in patches		1			2	0					0.10	0.10		0.05	
	35.7	42.75	7.05	Tuff	f.g.; darker green; weaker fabric with 5-10% wispy calcite/<quartz threads along fabric; trace <1mm blue quartz eyes; moderate to strongly calcitic; coarser patches with dark biotite flecks; patches with up to 1% 1mm magnetite grains; trace py/po fine disseminations; 43.6-44m some epidote alteration along veinlets		1			3	0			0			0.10			
	42.75	55	12.25	Tuff	f.g.; darker green; 5-10% sharp white calcite stringer/veinlets along weak fabric at 45-55 dtca; moderately magnetic patches with up to 5% magnetite grains; non-magnetic patches with dark black flecks; up to 1% 0.2-2mm py grains in sections;		1			2	0						0.10			
	55	62	7	Tuff	similar to above but slightly coarser black flecks; weakly magnetic in patches		1			2	0						0.10			

			62	66	4	Gabbro?	medium grained to 3mm; looks like gabbroic unit; weak to mod magnetic patches; weak fabric at 50 dtca; local patches of greenish yellow sericite alteration; weaker calcite; up to 1% magnetite in patches; indistinct contact;		1	0		1	0											
			66	71.3	5.3	Sheared Mafic? Tuff	greener; weakly magnetic; very fine magnetite grains; moderate to strong pervasive fabric at 45-50 dtca; weak to moderately calcitic; lower contact at 52 dtca			1		1												
			71.3	78.8	7.5	Argillaceous Mudstone	very f.g. finely laminated to 5cm; medium to dark grey with greener chloritic bands (5%); 5% medium grey quartz rich bands (veins?) with coarser irregular bands/threads of py/po; local 10cm vuggy bands of semi-massive 'wormy' py; trace aspy is fine dissem as 1mm threads along fabric and locally as coarser 1-2mm grains; variable bedding/banding at 40-50 dtca; lower contact at 50 dtca		1	0	1		0								1.00	2.00		
			78.8	81.85	3.05	Tuff	back into medium grey green calcitic unit; f.g.; 3-5% calcite threads to 2mm stringers along weaker fabric at 50-55 dtca; trace py/po in rare quartz/carb stringer		1	0	1	2	1								0.05	0.05		
			81.85	89.85	8	Sheared Veined Sediments	very f.g. to f.g.; 35% pale grey more siliceous bands (<5cm) and 45% darker greenish grey fine mudstone; overall 20% quartz veins/calcite veinlets to 25cm with coarse black/green biotite/chlorite/actinolite? at contacts; subparallel fabric at 45 to 60 dtca +/- py/po; trace aspy grains to 1mm within 5cm of the veins;		1	2	0	1	1	0	0							0.30	0.20	0.05
			89.85	101.9	12.05	Altered Banded Felsic Sediments	very fine to f.g.; blue grey to medium greenish grey well banded felsic sediments to 3cm bands; moderate sericite alteration; weakly calcitic; banding/bedding gradually shallowing from 65 dtca to 45 dtca downhole;locally contorted looking - slumping?; trace to 0.5% py dissem along fabric and as cubic grains on xcutting fractures; trace fine aspy dissem; minor coarse py/po in local veinlets;			3			1									0.03	0.05	0.01
			101.9	111.8	9.9	Argillaceous Sediments	60% darker grey to black argillaceous looking bands with medium grey to grey green more felsic bands to 0.5m wide; 5% quartz/calcite veinlets along fabric at 40-50 dtca; argillaceous bands weak to moderately magnetic with up to 5% po dissem/threads; trace py/po; trace aspy as fine grains			0			0									2.00	0.10	0.05
			111.8	114.35	2.55	Sheared Iron Formation?	dark green chloritic zone at 45-55 dtca; 20% medium to dark grey weakly magnetic silica rich band with calcite/carbonate; moderately hard with po/<py mineralization along fabric				3	0	0									0.50	0.20	

			114.35	126.25	11.9	Argillaceous Sediments	80% dark grey to black looking sed; bedding/banding at 60-70 dtca although folded/contorted locally along core axis (folding vs. slumping); finely laminated to <5cm; weak to moderately magnetic based on po content; up to 5% po dissem/seams locally; trace py/cp/sphal assoc with random quartz/calcite stringers; trace aspy grains (<1mm) in dark black bands		0			0							1.00	0.10	0.05	0.05
			126.25	131.7	5.45	Shear Zone (Argillites)	similar to above but quite sheared looking at 45-50 dtca; harder-silicified?; patches with coarser biotite; 2-5% po dissem/threads along fabric; up to 10% in patches; 130.4-131m tuff?/dyke? Fine grained; greener; calcitic; very fine py/po throughout; f.g. chilled looking contacts	2		0			0						3.00			
			131.7	145.6	13.9	Banded Siliceous Seds	f.g. light to medium grey; 20% darker grey more argillaceous bands which often contain fine aspy grains; banding/bedding at 60-75 dtca; up to 5% white to light grey quartz vein with fine py/po dissem and adjacent fine aspy	0	1			0							0.30	0.10	0.05	
			145.6	149.2	3.6	Tuff	medium grey to greyish brown; weak fabric at 65 dtca; calcitic; sericite alteration adjacent random fractures; trace to 0.5% fine py in browner bands; trace aspy adjacent to hairline calcite stringers	1				1	0								..3	
			149.2	151.6	2.4	Sheared Tuff	moderate to stronger banded sericite alteration; local 1cm breccia zones along fabric at 65-75 dtca; cubic pyrite along xcutting calcite joints/fractures at -25 to -35 dtca; sericite/carbonate alteration along hairline fractures;	3			1								0.10	0.50		
			151.6	158.1	6.5	Banded Tuff	medium grey to buff grey; strong fabric at 65 dtca shallowing to 45 dtca downhole; 1-2% po/py as fine dissem; trace fine aspy in 1-2cm bands of fine py dissem; zones of up to 25% veinlets over 0.5m with minor coarser po/py; cubic pyrite along xcutting quartz/calcite stringers/joints at -25 dtca	1	2										1.00	1.00		
			158.1	160.2	2.1	Mafic Tuff/IF?	medium green with 2-5% reddish garnets along pervasive fabric at 65 dtca; 1-2% fine magnetite along 1-2mm carbonate bands; upper contact with quartz veining and irregular po bands up to 5cm	2		2	1				0				5.00			
			160.2	162.4	2.2	Fragmental Tuff	dark brownish grey with medium to dark grey fragments elongated along pervasive fabric at 65 dtca; siliceous; 1-2% fine po dissem and discontinuous bands up to 1cm wide;	2	0		0		1						2.00			
			162.4	168.5	6.1	Iron Formation	medium green banded zones with elongated garnets and 1-5% magnetite grains along 1-3mm carbonate bands; planar to folded medium grey silica/carbonate/calcite bands with up to 10% po bands/dissem; one 5cm zone (166.4m) with coarse aspy up to 5mm adjacent to quartz bands/stringers;	2	1	3	1				0				5.00	0.50		0.05

				Samples				
Arsenopyrite (%)	Magnetite (%):	Other (%)		Sample Number	From	To	Width	Comments
	0.10							
	0.30							
	0.10							

	0.20							
	0.10							
0.10								
0.02								
0.01								
0.05								

0.05								
0.05								
0.05								
0.05								
	1.00							
0.20	1.00							

Core Box Tagging - BTU-19-10

Box #	From	To	Interval
1	9.4	13.5	4.1
2	13.5	17.8	4.3
3	17.8	22.2	4.4
4	22.2	26.5	4.3
5	26.5	30.9	4.4
6	30.9	35.2	4.3
7	35.2	39.8	4.6
8	39.8	44.1	4.3
9	44.1	48.5	4.4
10	48.5	53	4.5
11	53	57.5	4.5
12	57.5	61.9	4.4
13	61.9	66.3	4.4
14	66.3	70.7	4.4
15	70.7	74.9	4.2
16	74.9	79.3	4.4
17	79.3	83.5	4.2
18	83.5	87.8	4.3
19	87.8	92.1	4.3
20	92.1	96.6	4.5
21	96.6	100.9	4.3
22	100.9	105.2	4.3
23	105.2	109.6	4.4
24	109.6	113.8	4.2
25	113.8	118.2	4.4
26	118.2	122.5	4.3
27	122.5	126.9	4.4
28	126.9	131.3	4.4
29	131.3	135.7	4.4
30	135.7	140.1	4.4
31	140.1	144.5	4.4
32	144.5	148.9	4.4
33	148.9	153.3	4.4
34	153.3	157.6	4.3
35	157.6	161.7	4.1
36	161.7	166.1	4.4
37	166.1	170.4	4.3
38	170.4	174.8	4.4
39	174.8	179.2	4.4
40	179.2	183.6	4.4
41	183.6	187.9	4.3
42	187.9	192.3	4.4
43	192.3	196.7	4.4
44	196.7	201.1	4.4
45	201.1	205.5	4.4
46	205.5	209.8	4.3
47	209.8	214.2	4.4
48	214.2	218.5	4.3
49	218.5	221	2.5

EOH

Point Data - BTU-19-10

Depth	Type	Measurement	Comments	
9.5	V	25	50% veinlets 9.4-10.6,	F-foliation
10.3	F	37		Ft-fault
10.4	V	40		V-vein
11.6	F	30		J-joint
12.4	F	40		JQ-quartz f
12.6	JC	25	sub parallel fabric; calcite crystals	JC-calcite f
13.1	F	45		C-contact
14	F	50		BD-bedding
15.3	V	35	quartz/carb vein	BN-banding
15.7	F	40		S-slip
18.8	V	35	18.4-19.1m veined zone	B-blocky gr
20	F	40		Bx-breccia
23.3	JC	-55	rusty calcite/carb	Sh-shear z
23.9	F	42		
26.45	C	47		
29	F	40		
29.1	JC	-40	calcite/py coated	
30	V	38	15cm quartz/calcite vein; barren looking	
31.3	F	50		
34	F	55		
37.1	F	52		
42.4	F	50		
42	JC	-35	2/15cm	
42.6	J	-45	3/15cm	
44	F	50		
47.5	F	60		
51.3	JC	-27	calcite filled joints with coarse 2mm py grains	
56.5	F	50		
61.6	JC	-35	3/20cm lined with calcite crystals	
63	F	35		
67	F	40		
70.5	F	45		
71.3	C	52		
71.4	JC	-30	3mm wide; coated with py/calcite crystals	
71.5	BD	45	finely laminated seds	
74.1	V	30	1cm vuggy carbonate vein with coarse py	
74.5	BN	47	fine threads of aspy along fabric	
75.7	BD	55		
77	BN	42	chloritic zone with shallower fabric; shear zone?	
78.2	JC	-37	xcutting joints with cubic py grains	
78.8	C	50		
82.3	V	43	20 cm veined zone	
82.5	F	55		
83.2	JC	-40	3/30cm; py along joint surfaces	
83.9	BN	63	sediment banding	
85.5	V	55	90cm veined zone sub parallel fabric	
87.1	SH	47	upper contact of shear zone	
87.6	V	-37	1cm quartz/py veinlet with adjacent aspy	
88.2	SH	45	shear zone; aspy mineralization	
88.8	J	-20	blocky ground due to shallow xcutting joints/fratcures; cubic py	
89	BN	63	altered seds banding	

89.5	SH	55	shear zone; aspy mineralization
90.6	SH	50	sheared sed
91	JC	-30	2mm open joint with calcite crystals and cubic py
91.7	BD	63	
95.3	BN	53	
95.8	V	53	30cm veined zone at 50-55 dtca
97.3	JC	-27	3/20cm; calcite/py coated
97.8	BN	53	
99.7	V	42	veinlet zone with po/py; trace aspy/cp
100.3	BN	47	
102.1	BN	43	
104.7	V	45	trace po/aspv adjacent vlts
105.3	BN	55	
107	BN	45	
107.4	JC	-37	2/20cm; calcite/py coated
108	F	55	
108.8	V	35	2 cm quartz vein
109.5	BN	42	
111.5	BN	45	
112	F	50	topof shear zone
113.3	F	35	
113.8	F	45	
114	BN	55	
114.35	V	50	end of shear zone
115.7	BN	60	
117.3	BN	30	
118	BN	23	
118.5	BN	5	folded along core axis
119.8	BN	63	
120.7	BN	73	
121.6	BN	60	
122.2	BN	63	
122.8	BN	75	
123.7	BN	70	
127.8	BN	5	folded along core axis
126.1	BN	62	
125.3	BN	65	
125.9	V	-45	2cm xcutting veinlet
126.25	SH	53	top of shear zone
127.5	SH	45	
130.5	C	58	dyke? 58/48 contacts
131.8	BN	58	coming out of shear zone
132.2	V	37	20cm veined zone with po
134.3	BN	57	
134.6	BN	67	
134.9	C	56	7cm dyke?
135.3	BN	67	
135.9	BN	53	
137.2	V	50	veined zone
138	BN	60	
139.2	V	60	veinlets over 80cm 55-63 dtca
139.7	BN	70	
140.6	BN	77	
142.5	BN	67	
143.7	BN	72	

145.5	BN	65	
148.5	BN	65	
149.2	BX	72	1cm sericite/carb altered bxz
149.6	F	60	
150.8	JC	-25	5mm calcite filled with cubic py
151	BX	65	3cm sericite/carb altered bxz
151.6	BN	68	
154.2	JC	-23	5mm calcite filled with cubic py
154.7	F	57	
156	JC	-28	3mm wide; quartz stringer coated with py/calcite crystals
157	SH	40	156.8-157.4 m sheared veined zone at 40-45 dtca
158.5	SH	40	158.3-158.85m sheared iron formation;
159.5	F	60	
162.5	JC	-25	2mm calcite stringer/joint
163.8	JV	-12	5mm quartz/po stringer
163.2	F	55	
163.5	V	60	20cm veined zone with po
164	F	63	
165.8	F	60	
166.5	BN	55	
167.5	BN	65	
167.9	JV	-40	quartz/po veinlet
160.1	BN	60	
170	JC	-20	
170.7	JC	-35	
172.3	V	50	30cm quartz veined zone
173.2	V	40	60cm veined zone
174	F	73	
174.8	F	65	
175.6	F	65	
176	F	55	
178.5	F	57	
179.5	F	45	
181.2	F	45	aspy dissem along fabric
182.3	F	50	
183.6	F	50	
184.4	F	62	
185.6	JV	-47	xcutting quartz/chlorite slip with adjacent bleaching; coarse aspy along f
186.2	F	60	
188.3	F	65	
188.8	JC	-15	
190	F	65	
192.5	F	60	
193.2	JC	-23	coated with calcite/minor py
193.5	C	67	
196	V	37	2-10mm quartz stringers at 37-45 dtca subparallel fabric
197.8	C	65	
203	F	60	
205.1	JC	-18	2mm calcite with cubic py
205.7	JC	-20	2/20cm; calcite/py coated
206.5	F	68	
208	SH	80	0.5m sericite altered shear zone
209.2	F	75	
210.1	C	60	
210.5	F	75	

216.5	F	70	
220.5	JC	-20	blocky ground at end of hole due to shallow xcutting joints

EOH

illed
illed

g
g

round

one

host fabric adjacent to quartz



Date Submitted: 06-Aug-19
Invoice No.: A19-10127
Invoice Date: 09-Aug-19
Your Reference:

BTU Metals
581 Elgar Drive
Millbrook Ontario L0A1G0
Canada

ATTN: Doug Hunter

CERTIFICATE OF ANALYSIS

111 Core samples were submitted for analysis.

The following analytical package(s) were requested:

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

Code 1A3-Dryden QOP AA-Au (Au - Fire Assay Gravimetric)

REPORT **A19-10127**

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

Notes:

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

Footnote: Samples with no results were Insufficient/not received.

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.
264 Government Road, Dryden, Ontario, Canada, P8N 2R3
TELEPHONE +807 223-6168 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Dryden@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.03
Method Code	FA-AA	FA- GRA
00254001	< 5	
00254107	< 5	
00254108	< 5	
00254109	< 5	
00254110	< 5	
00254111	< 5	
00254097		
00254098	< 5	
00254099	< 5	
00254100	< 5	
00254101	< 5	
00254102	< 5	
00254103		
00254104	< 5	
00254105	< 5	
00254106	< 5	
00254002	< 5	
00254003	8	
00254004	< 5	
00254005	< 5	
00254006	5	
00254007	5	
00254008	< 5	
00254009	< 5	
00254010	< 5	
00254011	5	
00254012	< 5	
00254013	< 5	
00254014	< 5	
00254015	6	
00254016	26	
00254017	7	
00254018	9	
00254019	13	
00254020	1050	
00254021	< 5	
00254022	10	
00254023	8	
00254024	12	
00254025	21	
00254026	10	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.03
Method Code	FA-AA	FA- GRA
00254027	28	
00254028	18	
00254029	30	
00254030	22	
00254031	14	
00254032	49	
00254033	12	
00254034	31	
00254035	233	
00254036	26	
00254037	41	
00254038	37	
00254039	48	
00254040	< 5	
00254041	< 5	
00254042	< 5	
00254043		
00254044		
00254045	< 5	
00254046		
00254047	< 5	
00254048	< 5	
00254049		
00254050	< 5	
00254051	27	
00254052	13	
00254053	6	
00254054	64	
00254055	< 5	
00254056	80	
00254057	7	
00254058	19	
00254059	18	
00254060	> 5000	9.76
00254061	15	
00254062	< 5	
00254063	< 5	
00254064	< 5	
00254065	< 5	
00254066	< 5	
00254067		
00254068	13	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.03
Method Code	FA-AA	FA- GRA
00254069		
00254070		
00254071	58	
00254072	19	
00254073		
00254074		
00254075		
00254076	< 5	
00254077	< 5	
00254078	< 5	
00254079	< 5	
00254080	> 5000	8.61
00254081	< 5	
00254082	< 5	
00254083	< 5	
00254084	< 5	
00254085	5	
00254086		
00254087		
00254088	< 5	
00254089	< 5	
00254090	< 5	
00254091		
00254092	< 5	
00254093		
00254094	< 5	
00254095		
00254096	< 5	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.03
Method Code	FA-AA	FA- GRA
OREAS 216 (Fire Assay) Meas		6.46
OREAS 216 (Fire Assay) Cert		6.66
OREAS 254 Fire Assay Meas	2460	
OREAS 254 Fire Assay Cert	2550	
OREAS 254 Fire Assay Meas	2630	
OREAS 254 Fire Assay Cert	2550	
OREAS 254 Fire Assay Meas	2500	
OREAS 254 Fire Assay Cert	2550	
OREAS 218 Meas	519	
OREAS 218 Cert	531	
OREAS 218 Meas	546	
OREAS 218 Cert	531	
OREAS 218 Meas	535	
OREAS 218 Cert	531	
OREAS 257 Meas		14.5
OREAS 257 Cert		14.18
OREAS 255 (Fire Assay) Meas		4.10
OREAS 255 (Fire Assay) Cert		4.08
00254050 Orig	< 5	
00254050 Split PREP DUP	< 5	
00254100 Orig	< 5	
00254100 Split PREP DUP	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank		< 0.03
Method Blank		< 0.03



Date Submitted: 13-Aug-19
Invoice No.: A19-10550
Invoice Date: 21-Aug-19
Your Reference:

BTU Metals
581 Elgar Drive
Millbrook Ontario L0A1G0
Canada

ATTN: Doug Hunter

CERTIFICATE OF ANALYSIS

110 Rock samples were submitted for analysis.

The following analytical package(s) were requested:

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

REPORT **A19-10550**

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

Notes:

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

CERTIFIED BY:

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

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
264 Government Road, Dryden, Ontario, Canada, P8N 2R3
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E-MAIL Dryden@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.03
Method Code	FA-AA	FA- GRA
00254112	5	
00254113	< 5	
00254114	6	
00254115	45	
00254118	< 5	
00254119	< 5	
00254120	< 5	
00254124	< 5	
00254125	< 5	
00254126	< 5	
00254127	< 5	
00254128	< 5	
00254129	< 5	
00254130	< 5	
00254134	6	
00254135	11	
00254136	8	
00254137	9	
00254138	9	
00254139	6	
00254140	1090	
00254141	< 5	
00254142	< 5	
00254143	< 5	
00254144	< 5	
00254145	< 5	
00254146	< 5	
00254147	< 5	
00254148	< 5	
00254149	< 5	
00254150	< 5	
00254151	< 5	
00254152	< 5	
00254153	5	
00254154	< 5	
00254155	< 5	
00254156	< 5	
00254157	< 5	
00254158	< 5	
00254159	< 5	
00254160	< 5	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.03
Method Code	FA-AA	FA- GRA
00254161	< 5	
00254162	< 5	
00254163	< 5	
00254164	< 5	
00254167	< 5	
00254169	< 5	
00254170	< 5	
00254173	< 5	
00254174	6	
00254175	< 5	
00254176	5	
00254177	5	
00254178	6	
00254179	7	
00254180	7	
00254183	5	
00254185	6	
00254187	7	
00254188	6	
00254189	7	
00254190	7	
00254193	7	
00254194	8	
00254198	8	
00254199	12	
00254200	> 5000	8.65
00254202	7	
00254204	7	
00254206	8	
00254207	< 5	
00254208	< 5	
00254209	< 5	
00254210	< 5	
00254211	< 5	
00254212	< 5	
00254213	< 5	
00254214	< 5	
00254215	< 5	
00254216	< 5	
00254217	< 5	
00254218	< 5	
00254219	< 5	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.03
Method Code	FA-AA	FA- GRA
00254220	< 5	
00254221	5	
00254222	< 5	
00254223	< 5	
00254224	< 5	
00254225	< 5	
00254226	< 5	
00254227	< 5	
00254228	< 5	
00254229	< 5	
00254230	7	
00254231	< 5	
00254232	5	
00254233	< 5	
00254234	< 5	
00254235	6	
00254236	< 5	
00254237	< 5	
00254238	< 5	
00254239	< 5	
00254240	< 5	
00254241	< 5	
00254242	< 5	
00254243	< 5	
00254244	< 5	
00254245	< 5	
00254246	< 5	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.03
Method Code	FA-AA	FA- GRA
OREAS 216 (Fire Assay) Meas		6.79
OREAS 216 (Fire Assay) Cert		6.66
OREAS 254 Fire Assay Meas	2410	
OREAS 254 Fire Assay Cert	2550	
OREAS 218 Meas	498	
OREAS 218 Cert	531	
OREAS 218 Meas	506	
OREAS 218 Cert	531	
OREAS 218 Meas	499	
OREAS 218 Cert	531	
OREAS 218 Meas	503	
OREAS 218 Cert	531	
OREAS 257 Meas		14.3
OREAS 257 Cert		14.18
OREAS 255 (Fire Assay) Meas		4.13
OREAS 255 (Fire Assay) Cert		4.08
00254135 Orig	12	
00254135 Dup	9	
00254141 Orig	< 5	
00254141 Dup	< 5	
00254153 Orig	5	
00254153 Dup	5	
00254174 Orig	5	
00254174 Dup	6	
00254183 Orig	5	
00254183 Dup	5	
00254204 Orig	6	
00254204 Dup	8	
00254222 Orig	< 5	
00254222 Dup	< 5	
00254228 Orig	< 5	
00254228 Dup	< 5	
00254240 Orig	< 5	
00254240 Dup	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.03
Method Code	FA-AA	FA- GRA
Method Blank	5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank		< 0.03



Date Submitted: 28-Aug-19
Invoice No.: A19-11462
Invoice Date: 23-Sep-19
Your Reference: Dixie, Red Lake

BTU Metals
581 Elgar Drive
Millbrook Ontario L0A1G0
Canada

ATTN: Doug Hunter

CERTIFICATE OF ANALYSIS

190 Rock samples were submitted for analysis.

The following analytical package(s) were requested:

Table with 2 columns: Sample ID and Analytical Package. Row 1: 1A2-Dryden, QOP AA-Au (Au - Fire Assay AA). Row 2: 1A3-Dryden, QOP AA-Au (Au - Fire Assay Gravimetric).

REPORT A19-11462

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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.

Footnote: Sample 254260, 254320 and 254380 are insufficient for 1E3

CERTIFIED BY:

Handwritten signature of Emmanuel Esemé

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
264 Government Road, Dryden, Ontario, Canada, P8N 2R3
TELEPHONE +807 223-6168 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Dryden@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Date Submitted: 28-Aug-19
Invoice No.: A19-11462
Invoice Date: 23-Sep-19
Your Reference: Dixie, Red Lake

BTU Metals
581 Elgar Drive
Millbrook Ontario L0A1G0
Canada

ATTN: Doug Hunter

CERTIFICATE OF ANALYSIS

190 Rock samples were submitted for analysis.

The following analytical package(s) were requested:

1E3-Tbay	QOP AquaGeo (Aqua Regia ICPOES)
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REPORT **A19-11462**

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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.

Footnote: Sample 254260, 254320 and 254380 are insufficient for 1E3

CERTIFIED BY:



Emmanuel Esemé , Ph.D.
Quality Control Coordinator

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: A19-11462**

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
254247	5	< 0.2	< 0.5	100	631	< 1	106	< 2	53	3.05	< 2	< 10	43	< 0.5	< 2	2.09	43	70	5.79	< 10	< 1	0.18	< 10
254248	< 5	< 0.2	< 0.5	91	623	< 1	121	< 2	58	3.07	3	< 10	38	< 0.5	< 2	1.86	44	43	5.89	< 10	3	0.16	< 10
254249	6	0.2	< 0.5	121	616	< 1	137	4	62	3.12	3	< 10	24	< 0.5	< 2	1.65	49	63	5.73	< 10	2	0.10	< 10
254250	6	< 0.2	< 0.5	123	670	< 1	111	< 2	64	3.24	< 2	< 10	40	< 0.5	< 2	1.99	42	67	5.91	< 10	3	0.15	< 10
254251	9	< 0.2	< 0.5	146	618	< 1	158	< 2	54	3.55	3	< 10	26	< 0.5	< 2	1.57	52	76	6.28	< 10	1	0.10	< 10
254252	7	< 0.2	< 0.5	71	656	< 1	179	< 2	53	3.75	2	< 10	21	< 0.5	< 2	1.68	53	43	6.12	< 10	1	0.09	< 10
254253	6	< 0.2	< 0.5	103	630	< 1	180	< 2	50	3.69	< 2	< 10	153	< 0.5	< 2	1.60	55	64	6.35	< 10	< 1	0.63	< 10
254254	7	< 0.2	< 0.5	71	750	< 1	26	< 2	77	2.93	< 2	< 10	498	< 0.5	< 2	2.68	20	114	4.86	10	3	2.18	28
254255	10	< 0.2	< 0.5	96	682	< 1	166	< 2	53	3.83	< 2	< 10	99	< 0.5	< 2	1.88	53	67	6.62	< 10	< 1	0.38	< 10
254256	8	< 0.2	< 0.5	95	655	< 1	156	< 2	55	3.58	< 2	< 10	39	< 0.5	< 2	1.68	50	65	6.11	< 10	2	0.16	< 10
254257	8	< 0.2	< 0.5	160	695	< 1	145	< 2	59	3.75	< 2	< 10	16	< 0.5	< 2	2.10	49	65	6.11	< 10	< 1	0.08	< 10
254258	8	< 0.2	< 0.5	160	679	< 1	114	< 2	55	4.20	< 2	< 10	131	< 0.5	< 2	2.59	46	134	6.28	< 10	2	1.28	< 10
254259	7	< 0.2	< 0.5	72	848	< 1	50	2	70	3.09	< 2	< 10	546	0.5	< 2	3.67	26	138	5.64	10	< 1	2.50	36
254260	1030																						
254261	6	< 0.2	< 0.5	152	646	< 1	63	< 2	61	2.92	< 2	< 10	168	< 0.5	< 2	3.49	32	163	5.22	< 10	3	0.81	< 10
254262	10	< 0.2	< 0.5	138	535	< 1	53	< 2	47	2.54	< 2	< 10	12	< 0.5	< 2	3.00	26	151	4.59	< 10	< 1	0.07	< 10
254263	7	< 0.2	< 0.5	192	565	< 1	45	< 2	45	2.34	< 2	< 10	11	< 0.5	< 2	3.34	27	124	4.48	< 10	1	0.07	< 10
254264	9	< 0.2	< 0.5	233	726	< 1	54	< 2	61	2.40	< 2	< 10	14	< 0.5	< 2	3.96	34	126	5.63	< 10	1	0.10	< 10
254265	6	< 0.2	0.5	261	602	< 1	50	< 2	59	2.41	< 2	< 10	27	< 0.5	< 2	3.31	33	77	5.72	< 10	< 1	0.15	< 10
254266	8	< 0.2	< 0.5	193	720	< 1	44	< 2	69	2.86	< 2	< 10	59	< 0.5	< 2	3.53	40	55	7.83	< 10	2	0.27	< 10
254267	9	< 0.2	< 0.5	247	682	< 1	39	< 2	54	2.59	< 2	< 10	114	< 0.5	< 2	3.75	38	20	6.52	< 10	< 1	0.49	< 10
254268	8	< 0.2	0.6	187	698	< 1	21	< 2	70	2.87	< 2	< 10	25	< 0.5	< 2	3.45	33	2	6.59	< 10	< 1	0.17	< 10
254269	9	< 0.2	< 0.5	200	682	< 1	16	< 2	62	2.75	< 2	< 10	51	< 0.5	< 2	3.13	35	< 1	6.79	< 10	1	0.25	< 10
254270	7	< 0.2	< 0.5	70	607	< 1	11	< 2	53	2.81	< 2	< 10	111	< 0.5	< 2	3.64	32	< 1	6.42	10	< 1	0.50	< 10
254271	7	< 0.2	< 0.5	35	631	< 1	7	< 2	56	2.58	< 2	< 10	30	< 0.5	< 2	3.13	27	< 1	6.04	< 10	2	0.18	< 10
254272	7	< 0.2	< 0.5	60	716	< 1	4	< 2	54	2.66	< 2	< 10	47	< 0.5	< 2	3.05	29	< 1	6.20	10	< 1	0.24	< 10
254273	10	< 0.2	< 0.5	66	661	< 1	4	< 2	59	2.64	< 2	< 10	41	< 0.5	< 2	3.14	30	< 1	6.37	10	2	0.20	< 10
254274	8	< 0.2	< 0.5	32	722	< 1	4	< 2	65	2.61	< 2	< 10	99	< 0.5	< 2	3.38	26	< 1	6.22	10	< 1	0.33	< 10
254275	45	< 0.2	< 0.5	66	773	< 1	3	< 2	62	2.34	< 2	< 10	117	< 0.5	< 2	3.65	32	< 1	7.31	10	< 1	0.65	< 10
254276	13	< 0.2	< 0.5	66	852	< 1	1	< 2	58	2.15	< 2	< 10	95	< 0.5	2	4.13	27	< 1	6.90	10	< 1	0.43	< 10
254277	10	< 0.2	< 0.5	20	781	< 1	2	< 2	53	2.47	< 2	< 10	106	< 0.5	< 2	3.81	23	< 1	6.87	10	< 1	0.32	< 10
254278	12	< 0.2	< 0.5	21	685	< 1	< 1	< 2	41	2.35	< 2	< 10	34	< 0.5	< 2	4.16	15	< 1	6.47	10	2	0.19	< 10
254279	33	< 0.2	< 0.5	32	966	< 1	1	< 2	56	2.37	3	< 10	99	< 0.5	< 2	5.21	22	< 1	7.08	10	< 1	0.36	< 10
254280	10	< 0.2	< 0.5	1	108	< 1	1	< 2	3	0.02	< 2	< 10	12	< 0.5	< 2	> 10.0	< 1	< 1	0.10	< 10	< 1	< 0.01	< 10
254281	8	< 0.2	< 0.5	16	1000	< 1	3	< 2	50	2.54	3	< 10	150	0.5	< 2	4.88	19	1	7.66	10	1	0.52	18
254282	< 5	< 0.2	< 0.5	15	972	< 1	< 1	< 2	44	1.79	< 2	< 10	72	0.7	< 2	4.17	15	< 1	7.49	10	< 1	0.20	17
254283	< 5	< 0.2	< 0.5	68	1060	< 1	< 1	< 2	76	2.59	4	< 10	39	0.9	< 2	3.39	23	< 1	10.7	10	< 1	0.15	20
254284	< 5	< 0.2	< 0.5	14	1390	1	2	3	73	3.05	3	< 10	58	0.7	< 2	4.62	16	< 1	9.48	20	< 1	0.18	23
254285	< 5	< 0.2	< 0.5	13	1210	< 1	2	3	53	2.31	< 2	< 10	46	0.9	< 2	4.30	14	< 1	7.44	10	< 1	0.15	20
254286	< 5	< 0.2	< 0.5	40	1320	1	2	< 2	76	2.54	3	< 10	45	0.8	< 2	3.49	20	< 1	9.14	10	< 1	0.16	19
254287	< 5	< 0.2	< 0.5	44	1250	< 1	3	< 2	83	2.70	3	< 10	79	0.9	< 2	3.55	20	10	9.00	10	< 1	0.28	24
254288	< 5	< 0.2	< 0.5	46	1430	< 1	< 1	2	94	2.85	8	< 10	64	0.9	< 2	3.54	21	< 1	11.0	20	< 1	0.25	18
254289	< 5	< 0.2	< 0.5	41	1340	< 1	3	2	93	2.71	< 2	< 10	80	1.0	< 2	4.42	16	< 1	9.12	20	< 1	0.22	15
254290	< 5	< 0.2	< 0.5	24	1250	< 1	< 1	< 2	96	2.00	< 2	< 10	68	1.0	< 2	4.30	10	< 1	6.60	10	< 1	0.14	17
254291	< 5	< 0.2	0.6	36	1270	< 1	< 1	< 2	148	2.01	< 2	< 10	43	1.1	< 2	3.51	10	< 1	6.75	10	2	0.12	12
254292	< 5	< 0.2	< 0.5	36	823	< 1	2	< 2	77	2.50	< 2	< 10	18	< 0.5	< 2	2.97	24	< 1	6.95	10	1	0.11	< 10
254293	5	< 0.2	< 0.5	35	973	< 1	2	3	62	2.46	4	< 10	21	< 0.5	< 2	3.69	23	< 1	7.06	10	2	0.12	< 10
254294	82	< 0.2	< 0.5	37	995	< 1	2	3	105	2.44	652	< 10	94	< 0.5	< 2	3.76	21	2	7.26	10	< 1	0.15	10
254295	6	< 0.2	< 0.5	28	1080	< 1	2	3	99	2.81	< 2	< 10	58	0.8	< 2	3.17	12	< 1	8.16	10	< 1	0.17	19
254296	< 5	< 0.2	< 0.5	8	940	< 1	1	2	99	2.43	< 2	< 10	38	0.9	< 2	2.66	7	< 1	6.58	20	< 1	0.14	15
254297	< 5	< 0.2	< 0.5	20	1160	< 1	1	< 2	123	3.06	2	< 10	131	1.2	< 2	2.96	9	< 1	9.23	20	< 1	0.32	19

Results

Activation Laboratories Ltd.

Report: A19-11462

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
254298	5	< 0.2	< 0.5	7	1110	< 1	2	< 2	120	2.62	< 2	< 10	88	1.6	< 2	2.56	2	< 1	7.48	20	< 1	0.24	28
254299	< 5	< 0.2	< 0.5	58	419	< 1	34	< 2	51	1.90	< 2	< 10	258	< 0.5	< 2	0.97	15	34	3.08	< 10	< 1	0.81	18
254300	< 5	< 0.2	< 0.5	59	427	< 1	33	< 2	52	1.93	< 2	< 10	261	< 0.5	< 2	0.99	15	34	3.13	< 10	< 1	0.83	18
254301	< 5	< 0.2	< 0.5	28	432	< 1	39	< 2	54	2.04	< 2	< 10	176	< 0.5	< 2	1.49	16	35	3.08	< 10	< 1	0.74	16
254302	< 5	< 0.2	< 0.5	10	405	< 1	44	< 2	42	1.90	< 2	< 10	143	< 0.5	< 2	1.14	16	47	3.02	< 10	< 1	0.71	17
254303	6	< 0.2	< 0.5	39	436	< 1	38	< 2	58	1.80	< 2	< 10	150	< 0.5	< 2	1.16	16	31	3.24	< 10	< 1	0.62	16
254304	13	< 0.2	< 0.5	130	803	< 1	33	< 2	73	2.76	< 2	< 10	110	< 0.5	< 2	3.60	28	42	6.37	10	< 1	0.38	< 10
254305	6	< 0.2	< 0.5	40	825	< 1	10	< 2	87	2.46	3	< 10	254	0.6	< 2	3.17	23	54	6.65	10	< 1	0.60	18
254306	6	< 0.2	< 0.5	28	1110	< 1	1	< 2	138	2.43	3	< 10	18	0.6	< 2	3.87	20	< 1	7.51	10	< 1	0.14	11
254307	< 5	< 0.2	< 0.5	34	1080	< 1	1	< 2	100	2.99	2	< 10	111	0.8	< 2	3.01	20	< 1	9.49	20	< 1	0.24	15
254308	< 5	< 0.2	< 0.5	29	1140	< 1	< 1	< 2	111	2.78	2	< 10	47	0.9	< 2	3.48	13	< 1	8.67	20	< 1	0.21	17
254309	7	< 0.2	< 0.5	24	1100	< 1	3	< 2	89	2.59	< 2	< 10	86	0.8	< 2	3.24	17	11	7.82	10	3	0.30	18
254310	5	< 0.2	< 0.5	32	917	< 1	1	< 2	82	2.76	7	< 10	86	0.6	< 2	3.31	29	< 1	8.50	10	2	0.42	11
254311	5	< 0.2	< 0.5	58	786	< 1	< 1	< 2	68	2.36	4	< 10	81	< 0.5	< 2	3.41	28	< 1	7.18	10	2	0.37	13
254312	< 5	< 0.2	< 0.5	31	1160	< 1	< 1	< 2	104	2.93	4	< 10	70	0.9	< 2	3.83	17	< 1	8.99	20	1	0.35	16
254313	6	< 0.2	< 0.5	10	1490	2	1	< 2	138	2.57	< 2	< 10	132	1.2	< 2	3.98	2	< 1	7.48	20	2	0.25	23
254314	1800	< 0.2	< 0.5	12	1190	2	< 1	< 2	136	2.03	3860	< 10	217	1.2	< 2	3.26	6	< 1	6.86	20	< 1	0.38	22
254315	7	< 0.2	< 0.5	8	1230	< 1	2	< 2	140	2.70	5	< 10	77	1.3	< 2	3.21	6	< 1	8.47	20	1	0.21	22
254316	< 5	< 0.2	< 0.5	26	1090	< 1	2	< 2	111	2.60	< 2	< 10	80	0.7	2	3.13	18	< 1	8.63	10	2	0.21	14
254317	108	< 0.2	< 0.5	36	1110	< 1	2	< 2	103	2.49	717	< 10	138	0.8	< 2	3.57	19	< 1	8.40	10	< 1	0.27	16
254318	5	< 0.2	< 0.5	7	1170	< 1	< 1	< 2	103	2.34	3	< 10	35	1.0	< 2	3.24	7	< 1	7.19	20	< 1	0.16	21
254319	< 5	< 0.2	< 0.5	28	938	< 1	3	< 2	80	2.65	3	< 10	134	0.9	< 2	3.09	18	8	8.44	10	3	0.45	17
254320	> 5000																						
254321	6	< 0.2	< 0.5	56	1000	< 1	2	< 2	73	2.38	4	< 10	60	0.6	< 2	3.40	25	< 1	7.72	10	< 1	0.15	14
254322	< 5	< 0.2	< 0.5	46	1000	< 1	< 1	< 2	73	2.43	< 2	< 10	37	< 0.5	< 2	3.92	26	< 1	7.59	10	< 1	0.13	12
254323	< 5	< 0.2	< 0.5	36	908	< 1	2	< 2	76	2.63	< 2	< 10	21	0.6	< 2	3.03	24	< 1	7.57	10	< 1	0.14	13
254324	< 5	< 0.2	< 0.5	36	787	< 1	7	< 2	72	2.63	4	< 10	89	0.5	< 2	2.93	22	17	6.68	10	< 1	0.32	11
254325	< 5	< 0.2	< 0.5	33	683	< 1	2	< 2	74	2.64	4	< 10	51	< 0.5	< 2	2.95	21	< 1	5.89	10	1	0.24	< 10
254326	46	< 0.2	< 0.5	36	727	< 1	3	< 2	72	2.50	3	< 10	47	< 0.5	< 2	2.98	20	< 1	5.77	10	< 1	0.19	< 10
254327	68	< 0.2	< 0.5	57	1050	< 1	67	< 2	68	3.13	12	< 10	23	< 0.5	< 2	4.25	30	114	5.75	< 10	1	0.11	< 10
254328	7	< 0.2	< 0.5	114	995	< 1	58	< 2	68	3.07	< 2	< 10	21	< 0.5	< 2	5.14	37	107	6.62	< 10	2	0.09	< 10
254329	5	< 0.2	< 0.5	62	1020	< 1	63	< 2	76	3.40	< 2	< 10	22	< 0.5	< 2	4.58	24	113	6.89	< 10	< 1	0.09	< 10
254330	5	< 0.2	< 0.5	69	847	< 1	64	< 2	82	3.17	3	< 10	23	< 0.5	< 2	4.67	33	117	6.38	< 10	3	0.09	< 10
254331	< 5	< 0.2	< 0.5	75	951	< 1	86	4	89	3.11	2	12	30	< 0.5	< 2	4.72	36	105	6.56	< 10	2	0.13	< 10
254332	< 5	< 0.2	< 0.5	45	983	< 1	62	< 2	77	3.20	3	< 10	22	< 0.5	< 2	5.26	28	115	6.47	< 10	< 1	0.08	< 10
254333	5	< 0.2	< 0.5	76	906	< 1	57	7	70	2.85	3	13	27	< 0.5	< 2	4.32	28	100	6.12	< 10	2	0.11	< 10
254334	< 5	< 0.2	< 0.5	43	1030	< 1	57	4	81	3.06	< 2	11	22	< 0.5	< 2	4.76	28	99	6.63	< 10	< 1	0.09	< 10
254335	6	< 0.2	< 0.5	44	1010	< 1	60	3	71	3.95	< 2	13	24	< 0.5	< 2	5.50	30	107	6.36	10	< 1	0.10	< 10
254336	6	< 0.2	< 0.5	64	811	< 1	83	< 2	80	3.61	5	< 10	18	< 0.5	< 2	4.45	34	125	6.85	10	< 1	0.07	< 10
254337	9	< 0.2	< 0.5	33	655	< 1	61	< 2	52	3.90	< 2	19	25	< 0.5	< 2	6.20	24	86	5.85	< 10	< 1	0.12	10
254338	6	< 0.2	< 0.5	66	1010	< 1	92	< 2	64	2.34	18	< 10	25	< 0.5	< 2	6.20	37	91	6.12	< 10	2	0.10	< 10
254339	< 5	< 0.2	< 0.5	24	1070	< 1	65	< 2	53	2.58	10	< 10	28	< 0.5	< 2	9.18	26	70	5.22	< 10	< 1	0.12	< 10
254340	< 5	< 0.2	< 0.5	< 1	147	< 1	< 1	< 2	< 2	0.02	< 2	< 10	13	< 0.5	< 2	> 10.0	< 1	< 1	0.12	< 10	< 1	< 0.01	< 10
254341	< 5	< 0.2	< 0.5	65	807	< 1	91	< 2	68	3.11	17	< 10	33	< 0.5	< 2	6.11	39	100	6.31	< 10	1	0.15	< 10
254342	< 5	< 0.2	< 0.5	38	936	< 1	74	< 2	62	2.16	18	< 10	20	< 0.5	< 2	6.24	30	76	6.03	< 10	2	0.08	< 10
254343	< 5	< 0.2	< 0.5	64	657	< 1	90	< 2	61	2.38	23	< 10	21	< 0.5	< 2	4.66	35	104	5.62	< 10	2	0.08	< 10
254344	< 5	< 0.2	< 0.5	40	932	< 1	78	< 2	59	1.67	26	< 10	20	< 0.5	< 2	6.05	30	83	5.42	< 10	< 1	0.09	< 10
254345	< 5	< 0.2	< 0.5	68	639	< 1	90	< 2	64	2.38	35	< 10	24	< 0.5	< 2	4.14	40	109	5.70	< 10	3	0.10	< 10
254346	< 5	< 0.2	< 0.5	58	973	< 1	89	< 2	70	2.67	26	< 10	24	< 0.5	< 2	5.74	33	117	6.36	< 10	< 1	0.09	< 10
254347	< 5	< 0.2	< 0.5	56	950	< 1	79	< 2	60	2.47	25	< 10	22	< 0.5	< 2	4.97	32	101	5.68	< 10	2	0.10	< 10
254348	< 5	< 0.2	< 0.5	81	925	< 1	78	< 2	61	2.63	19	< 10	25	< 0.5	< 2	5.85	32	100	5.34	< 10	< 1	0.14	< 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
254349	8	< 0.2	< 0.5	83	933	< 1	70	< 2	61	2.38	20	< 10	25	< 0.5	< 2	4.57	33	92	4.87	< 10	2	0.13	< 10
254350	< 5	< 0.2	< 0.5	45	746	< 1	79	< 2	71	2.84	19	< 10	26	< 0.5	< 2	3.10	38	115	5.29	< 10	2	0.09	< 10
254351	< 5	< 0.2	< 0.5	19	1360	< 1	60	< 2	45	2.25	13	< 10	24	< 0.5	< 2	9.19	21	54	5.18	< 10	2	0.16	< 10
254352	< 5	< 0.2	< 0.5	6	1210	< 1	75	< 2	55	2.70	21	< 10	28	< 0.5	< 2	8.40	29	62	5.72	< 10	< 1	0.22	< 10
254353	< 5	< 0.2	< 0.5	26	741	< 1	91	< 2	84	3.60	17	< 10	26	< 0.5	< 2	3.73	38	140	6.88	10	1	0.15	< 10
254354	< 5	< 0.2	< 0.5	17	1010	< 1	67	< 2	61	2.83	24	< 10	23	< 0.5	< 2	5.34	33	96	6.26	< 10	< 1	0.12	< 10
254355	< 5	< 0.2	< 0.5	11	1550	< 1	45	< 2	39	1.24	26	< 10	19	< 0.5	< 2	8.78	17	35	6.22	< 10	< 1	0.11	< 10
254356	< 5	< 0.2	< 0.5	22	893	< 1	94	< 2	79	3.52	19	< 10	25	< 0.5	< 2	4.61	37	140	6.45	< 10	2	0.09	< 10
254357	< 5	< 0.2	< 0.5	68	782	< 1	98	5	74	3.14	15	< 10	32	< 0.5	< 2	4.87	41	116	5.66	< 10	1	0.13	< 10
254358	< 5	< 0.2	< 0.5	63	1070	< 1	84	6	73	3.33	< 2	< 10	30	< 0.5	< 2	6.11	33	102	6.37	< 10	< 1	0.17	< 10
254359	< 5	< 0.2	< 0.5	46	864	< 1	92	< 2	71	4.25	< 2	< 10	< 10	< 0.5	< 2	3.94	34	160	6.74	10	2	0.02	< 10
254360	< 5	< 0.2	< 0.5	41	850	< 1	94	< 2	76	4.32	< 2	< 10	< 10	< 0.5	< 2	3.75	34	158	6.88	10	< 1	0.02	< 10
254361	< 5	< 0.2	< 0.5	51	750	< 1	49	< 2	71	3.13	< 2	< 10	40	< 0.5	< 2	3.36	25	115	5.16	< 10	< 1	0.15	< 10
254362	5	< 0.2	< 0.5	90	631	< 1	106	< 2	66	2.96	< 2	< 10	45	< 0.5	< 2	3.55	41	126	5.65	< 10	< 1	0.28	< 10
254363	< 5	< 0.2	< 0.5	26	853	< 1	199	3	43	3.23	5	< 10	48	< 0.5	< 2	6.77	29	189	5.45	< 10	< 1	0.28	16
254364	24	< 0.2	< 0.5	257	735	< 1	117	< 2	69	2.81	< 2	< 10	69	< 0.5	< 2	6.03	33	109	5.38	< 10	2	0.54	17
254365	< 5	< 0.2	< 0.5	95	718	< 1	96	< 2	47	1.66	< 2	< 10	130	< 0.5	< 2	4.29	27	78	4.60	< 10	1	1.10	17
254366	< 5	< 0.2	< 0.5	34	978	< 1	51	< 2	60	2.37	< 2	< 10	58	< 0.5	< 2	4.09	15	28	4.28	< 10	2	0.33	14
254367	< 5	< 0.2	< 0.5	12	692	< 1	41	< 2	72	3.13	< 2	< 10	31	< 0.5	< 2	4.18	25	44	5.86	< 10	1	0.13	13
254368	< 5	< 0.2	< 0.5	29	946	< 1	116	< 2	81	3.48	2	< 10	27	< 0.5	< 2	3.84	39	127	6.92	< 10	3	0.13	< 10
254369	< 5	0.4	< 0.5	77	856	< 1	150	6	92	2.45	2	< 10	120	< 0.5	< 2	5.19	27	160	4.93	10	3	1.14	21
254370	22	< 0.2	< 0.5	42	946	< 1	26	4	58	2.35	< 2	< 10	65	< 0.5	< 2	4.14	12	12	4.33	< 10	2	0.57	19
254371	< 5	< 0.2	< 0.5	52	772	< 1	15	2	71	2.64	2	< 10	125	< 0.5	< 2	3.55	16	28	4.49	10	1	0.99	21
254372	< 5	< 0.2	< 0.5	118	1900	< 1	111	< 2	90	4.39	50	< 10	74	< 0.5	< 2	4.31	46	130	10.4	10	< 1	0.41	< 10
254373	< 5	< 0.2	< 0.5	92	1520	< 1	50	< 2	82	4.28	21	< 10	149	< 0.5	< 2	4.92	35	74	8.81	10	< 1	0.47	< 10
254374	< 5	< 0.2	0.5	99	1340	< 1	42	< 2	77	3.55	10	< 10	120	< 0.5	< 2	5.26	34	73	7.99	10	1	0.54	< 10
254375	< 5	< 0.2	< 0.5	198	1960	< 1	45	3	110	3.69	17	< 10	16	< 0.5	< 2	5.09	33	62	8.75	10	3	0.04	< 10
254376	< 5	< 0.2	< 0.5	223	2510	< 1	43	< 2	87	3.73	25	< 10	58	< 0.5	< 2	5.88	29	62	9.58	20	2	0.12	< 10
254377	6	< 0.2	< 0.5	106	1630	< 1	73	3	77	3.73	16	< 10	462	1.2	< 2	6.10	32	239	7.14	10	2	2.59	53
254378	< 5	< 0.2	< 0.5	100	1790	< 1	42	< 2	88	4.00	7	< 10	139	< 0.5	< 2	5.56	34	60	8.81	20	1	0.54	< 10
254379	5	< 0.2	< 0.5	149	2240	< 1	56	< 2	87	3.96	2	< 10	96	< 0.5	< 2	6.01	37	88	9.49	10	1	0.30	< 10
254380	1080																						
254381	< 5	< 0.2	< 0.5	79	2540	< 1	38	< 2	86	4.03	< 2	< 10	69	< 0.5	< 2	5.36	31	68	10.5	10	< 1	0.21	< 10
254382	< 5	< 0.2	< 0.5	146	2180	< 1	46	< 2	81	3.27	5	< 10	44	< 0.5	< 2	5.88	35	61	10.7	10	< 1	0.15	< 10
254383	< 5	< 0.2	< 0.5	102	1860	< 1	43	2	97	3.87	< 2	< 10	97	< 0.5	< 2	5.09	35	74	9.93	10	< 1	0.36	< 10
254384	< 5	< 0.2	< 0.5	89	1620	< 1	40	< 2	80	3.59	< 2	< 10	178	< 0.5	< 2	4.87	36	66	8.05	10	< 1	0.59	< 10
254385	< 5	< 0.2	< 0.5	90	2880	< 1	35	< 2	95	4.32	< 2	< 10	< 10	< 0.5	< 2	5.15	31	56	11.8	10	< 1	0.01	< 10
254386	< 5	< 0.2	< 0.5	94	1860	< 1	40	< 2	85	3.51	< 2	< 10	18	< 0.5	< 2	4.57	33	73	8.89	20	< 1	0.04	< 10
254387	< 5	< 0.2	< 0.5	105	2070	< 1	43	< 2	92	3.93	< 2	< 10	49	< 0.5	< 2	4.97	35	63	10.3	10	3	0.13	< 10
254388	< 5	< 0.2	< 0.5	98	1310	< 1	33	< 2	69	2.72	2	< 10	11	< 0.5	< 2	4.41	31	56	5.87	10	< 1	0.05	< 10
254389	< 5	< 0.2	< 0.5	93	1590	< 1	42	< 2	84	3.72	< 2	< 10	132	< 0.5	< 2	5.47	34	73	8.27	10	< 1	0.43	< 10
254390	< 5	< 0.2	< 0.5	183	1480	< 1	38	2	82	3.08	3	< 10	10	< 0.5	< 2	4.89	39	54	6.91	10	< 1	0.06	< 10
254391	< 5	< 0.2	< 0.5	99	1310	< 1	32	< 2	69	2.97	< 2	< 10	< 10	< 0.5	< 2	4.44	29	52	6.72	10	3	0.06	< 10
254392	< 5	< 0.2	< 0.5	128	1410	< 1	39	< 2	68	2.88	< 2	< 10	33	< 0.5	< 2	4.61	31	95	6.22	10	3	0.13	< 10
254393	< 5	< 0.2	< 0.5	62	1320	< 1	52	< 2	74	3.28	< 2	< 10	311	< 0.5	< 2	4.37	29	198	6.53	10	< 1	0.92	< 10
254394	< 5	< 0.2	< 0.5	101	1180	< 1	33	< 2	77	3.10	< 2	< 10	209	< 0.5	< 2	4.00	32	66	6.51	10	< 1	0.55	< 10
254395	< 5	< 0.2	< 0.5	106	1440	< 1	41	< 2	89	3.62	< 2	< 10	24	< 0.5	3	4.78	36	61	7.90	10	< 1	0.07	< 10
254396	< 5	< 0.2	< 0.5	162	1290	< 1	41	< 2	109	3.32	3	< 10	29	< 0.5	< 2	4.60	33	57	7.40	10	2	0.09	< 10
254397	5	< 0.2	< 0.5	141	1670	< 1	37	< 2	81	3.31	< 2	< 10	81	< 0.5	< 2	4.81	36	52	7.62	10	1	0.17	< 10
254398	< 5	< 0.2	< 0.5	83	1320	< 1	47	< 2	66	2.90	2	< 10	85	< 0.5	< 2	3.97	28	86	6.02	10	< 1	0.19	< 10
254399	< 5	< 0.2	< 0.5	93	1370	< 1	34	< 2	71	3.12	3	< 10	12	< 0.5	< 2	4.10	30	49	6.84	10	< 1	0.07	< 10

Results

Activation Laboratories Ltd.

Report: A19-11462

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
254400	< 5	< 0.2	< 0.5	2	129	< 1	1	< 2	< 2	0.04	< 2	< 10	13	< 0.5	< 2	> 10.0	< 1	< 1	0.13	< 10	< 1	< 0.01	< 10
254401	< 5	< 0.2	< 0.5	77	1470	< 1	37	< 2	70	2.99	< 2	< 10	11	< 0.5	< 2	5.13	28	50	6.72	10	2	0.08	< 10
254402	< 5	< 0.2	< 0.5	85	1380	< 1	41	< 2	83	3.50	2	< 10	13	< 0.5	< 2	4.27	33	66	7.49	10	< 1	0.06	< 10
254403	< 5	< 0.2	< 0.5	59	1390	< 1	35	< 2	73	3.17	< 2	< 10	30	< 0.5	2	4.55	28	57	6.61	10	2	0.12	< 10
254404	< 5	< 0.2	< 0.5	54	1420	< 1	118	< 2	72	3.98	5	< 10	33	< 0.5	< 2	5.40	33	328	7.05	10	2	0.11	16
254405	< 5	< 0.2	< 0.5	112	1350	< 1	45	< 2	99	3.76	< 2	< 10	147	< 0.5	< 2	4.81	38	69	8.75	10	2	0.52	< 10
254406	< 5	< 0.2	< 0.5	80	1180	< 1	43	< 2	95	3.38	< 2	< 10	250	< 0.5	< 2	4.05	34	57	8.02	10	2	0.91	< 10
254407	< 5	< 0.2	< 0.5	89	880	< 1	30	< 2	62	2.39	2	< 10	151	< 0.5	< 2	3.82	27	42	5.71	10	< 1	0.52	< 10
254408	6	< 0.2	< 0.5	107	1560	< 1	40	< 2	97	4.12	2	< 10	203	< 0.5	< 2	4.35	36	65	9.00	10	4	0.66	< 10
254409	< 5	< 0.2	< 0.5	88	1820	< 1	37	< 2	93	4.23	3	< 10	174	< 0.5	< 2	4.14	32	55	10.2	10	< 1	0.56	< 10
254410	< 5	< 0.2	< 0.5	87	2140	< 1	39	< 2	84	4.16	9	< 10	15	< 0.5	< 2	4.87	31	54	11.1	10	< 1	0.05	< 10
254411	5	< 0.2	< 0.5	93	1670	< 1	42	< 2	95	4.01	< 2	< 10	203	< 0.5	< 2	4.66	36	57	9.24	10	< 1	0.64	< 10
254412	6	< 0.2	< 0.5	124	1040	< 1	36	< 2	73	2.90	3	< 10	152	< 0.5	< 2	4.62	32	49	6.59	10	< 1	0.51	< 10
254413	< 5	< 0.2	< 0.5	76	1680	< 1	29	< 2	69	3.03	< 2	< 10	201	< 0.5	< 2	5.10	26	46	7.28	10	3	0.48	< 10
254414	5	< 0.2	< 0.5	71	1810	< 1	27	< 2	57	2.66	< 2	< 10	107	< 0.5	< 2	6.11	21	48	6.28	< 10	< 1	0.26	< 10
254415	< 5	< 0.2	< 0.5	79	1890	< 1	33	< 2	73	3.72	< 2	< 10	146	< 0.5	< 2	3.73	29	46	9.28	10	< 1	0.37	< 10
254416	< 5	< 0.2	< 0.5	128	1670	< 1	34	< 2	82	3.82	2	< 10	416	< 0.5	< 2	4.17	33	57	9.12	10	2	1.00	< 10
254417	< 5	< 0.2	< 0.5	147	1510	< 1	39	< 2	77	3.51	< 2	< 10	251	< 0.5	< 2	4.70	36	58	8.69	10	3	0.59	< 10
254418	< 5	< 0.2	< 0.5	120	1220	< 1	33	< 2	67	3.04	< 2	< 10	294	< 0.5	< 2	5.38	33	60	6.82	10	3	0.64	< 10
254419	< 5	< 0.2	< 0.5	230	1870	< 1	42	< 2	95	4.42	8	< 10	261	< 0.5	< 2	3.51	35	55	11.2	10	< 1	0.56	< 10
254420	< 5	< 0.2	< 0.5	137	1890	< 1	42	< 2	86	4.12	< 2	< 10	227	< 0.5	< 2	3.67	33	54	10.2	10	< 1	0.54	< 10
254421	< 5	< 0.2	< 0.5	116	2000	< 1	42	< 2	88	4.38	< 2	< 10	141	< 0.5	3	3.59	37	56	10.5	10	2	0.35	< 10
254422	7	< 0.2	< 0.5	105	1610	< 1	35	< 2	71	3.41	< 2	< 10	341	< 0.5	< 2	5.42	30	58	7.85	10	2	0.88	< 10
254423	5	< 0.2	< 0.5	88	1840	< 1	39	< 2	85	4.24	2	< 10	180	< 0.5	< 2	4.52	31	55	10.1	10	< 1	0.44	< 10
254424	< 5	< 0.2	< 0.5	67	1630	< 1	32	< 2	73	3.71	3	< 10	226	< 0.5	< 2	4.42	27	50	8.73	10	< 1	0.57	< 10
254425	< 5	< 0.2	< 0.5	82	1560	< 1	33	< 2	79	3.55	< 2	< 10	304	< 0.5	< 2	5.25	33	55	8.13	10	2	0.79	< 10
254426	< 5	< 0.2	< 0.5	101	1510	< 1	39	< 2	81	3.62	< 2	< 10	10	< 0.5	< 2	4.46	33	61	7.65	10	2	0.04	< 10
254427	5	< 0.2	< 0.5	123	1610	< 1	42	< 2	99	4.01	< 2	< 10	172	< 0.5	< 2	5.24	38	68	9.11	10	3	0.69	< 10
254428	7	< 0.2	< 0.5	75	1000	< 1	40	< 2	67	2.84	< 2	< 10	74	< 0.5	< 2	4.77	29	58	5.87	10	< 1	0.29	17
254429	7	< 0.2	< 0.5	67	1310	< 1	46	< 2	78	3.71	< 2	< 10	262	< 0.5	< 2	5.82	35	74	8.12	10	2	0.99	< 10
254430	< 5	< 0.2	< 0.5	11	1610	< 1	62	< 2	142	5.92	7	< 10	112	< 0.5	< 2	4.06	52	34	13.6	20	< 1	0.40	< 10
254431	< 5	< 0.2	< 0.5	6	2360	< 1	45	< 2	100	4.54	5	< 10	18	< 0.5	< 2	9.68	38	28	10.1	20	< 1	0.05	< 10
254432	< 5	< 0.2	< 0.5	146	1730	< 1	40	< 2	107	3.84	< 2	< 10	124	< 0.5	< 2	5.41	39	37	10.4	10	< 1	0.40	< 10
254433	5	< 0.2	2.2	177	1090	< 1	36	< 2	318	3.11	5	< 10	81	< 0.5	< 2	4.06	41	23	8.12	10	< 1	0.29	< 10
254434	< 5	< 0.2	< 0.5	110	1240	< 1	33	< 2	91	3.52	< 2	< 10	134	< 0.5	< 2	4.67	35	22	8.24	10	< 1	0.39	< 10
254435	< 5	< 0.2	< 0.5	131	1440	< 1	38	< 2	98	3.68	< 2	< 10	147	< 0.5	< 2	4.94	35	40	9.04	10	< 1	0.39	< 10
254436	6	< 0.2	< 0.5	104	827	< 1	40	< 2	58	2.71	2	< 10	< 10	< 0.5	< 2	3.43	30	59	5.54	< 10	1	0.05	< 10

Results

Activation Laboratories Ltd.

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Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Au
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	10	1	10	1	1	1	0.03
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	FA- GRA
254247	2.81	0.212	0.042	0.08	3	9	21	0.18	<20	<1	<2	<10	90	<10	8	3	
254248	2.89	0.201	0.043	0.08	<2	9	12	0.18	<20	5	<2	<10	92	<10	8	3	
254249	3.06	0.167	0.037	0.08	<2	6	11	0.15	<20	4	<2	<10	69	<10	6	3	
254250	2.96	0.228	0.040	0.06	<2	8	15	0.18	<20	<1	<2	<10	82	<10	7	3	
254251	3.62	0.144	0.031	0.04	<2	6	10	0.15	<20	2	<2	<10	62	<10	5	2	
254252	3.90	0.150	0.023	0.03	<2	5	16	0.16	<20	4	<2	<10	54	<10	4	2	
254253	3.79	0.144	0.026	0.06	3	5	13	0.19	<20	2	<2	<10	59	<10	5	3	
254254	2.60	0.108	0.096	0.06	<2	11	32	0.27	<20	3	<2	<10	125	<10	27	19	
254255	3.92	0.153	0.026	0.03	3	6	16	0.18	<20	2	<2	<10	68	<10	5	2	
254256	3.58	0.156	0.026	0.03	<2	5	13	0.16	<20	<1	<2	<10	57	<10	5	2	
254257	3.44	0.189	0.026	0.06	<2	5	25	0.18	<20	<1	<2	<10	60	<10	5	2	
254258	3.00	0.378	0.026	0.10	2	8	64	0.26	<20	3	<2	<10	84	<10	5	3	
254259	2.89	0.125	0.216	0.14	2	13	123	0.33	<20	3	<2	<10	152	<10	14	11	
254260																	
254261	2.52	0.224	0.057	0.07	3	17	36	0.26	<20	7	<2	<10	122	<10	8	7	
254262	2.17	0.247	0.029	0.04	2	17	16	0.25	<20	4	<2	<10	133	<10	7	3	
254263	1.75	0.238	0.029	0.08	<2	17	22	0.25	<20	<1	<2	<10	158	<10	6	3	
254264	2.05	0.190	0.028	0.12	3	18	26	0.21	<20	<1	<2	<10	195	<10	6	3	
254265	1.76	0.286	0.032	0.17	<2	20	19	0.28	<20	<1	<2	<10	289	<10	7	4	
254266	2.04	0.347	0.031	0.20	2	25	14	0.28	<20	5	<2	<10	471	<10	8	4	
254267	1.79	0.309	0.040	0.24	2	21	33	0.33	<20	5	<2	<10	333	<10	8	6	
254268	1.68	0.375	0.041	0.11	3	22	19	0.30	<20	4	<2	<10	322	<10	8	4	
254269	1.56	0.383	0.056	0.21	2	21	16	0.27	<20	2	<2	<10	307	<10	11	7	
254270	1.50	0.302	0.043	0.19	<2	20	43	0.30	<20	2	<2	<10	250	<10	10	5	
254271	1.52	0.358	0.045	0.10	3	18	16	0.29	<20	<1	<2	<10	226	<10	10	5	
254272	1.36	0.379	0.054	0.17	2	19	18	0.27	<20	4	<2	<10	158	<10	13	6	
254273	1.34	0.329	0.060	0.23	<2	20	15	0.27	<20	4	<2	<10	141	<10	14	6	
254274	1.38	0.349	0.062	0.14	2	19	14	0.25	<20	2	<2	<10	128	<10	15	6	
254275	1.16	0.261	0.077	0.94	3	19	20	0.26	<20	<1	<2	<10	75	<10	20	10	
254276	1.06	0.262	0.075	0.92	<2	17	21	0.24	<20	6	<2	<10	60	<10	20	9	
254277	1.04	0.361	0.088	0.34	2	19	25	0.23	<20	6	<2	<10	60	<10	21	8	
254278	0.91	0.346	0.106	0.14	<2	17	35	0.24	<20	2	<2	<10	54	<10	22	6	
254279	1.04	0.286	0.105	0.36	<2	19	45	0.23	<20	2	<2	<10	49	<10	23	6	
254280	1.21	0.020	0.007	<0.01	<2	<1	52	<0.01	<20	<1	<2	<10	<1	<10	2	<1	
254281	1.09	0.349	0.105	0.07	2	20	45	0.26	<20	3	<2	<10	57	<10	23	6	
254282	0.68	0.294	0.180	0.12	2	20	41	0.16	<20	5	<2	<10	7	<10	37	8	
254283	0.77	0.408	0.321	0.43	2	19	19	0.14	<20	<1	<2	<10	4	<10	42	7	
254284	0.92	0.456	0.247	0.07	4	19	31	0.16	<20	3	<2	<10	6	<10	44	9	
254285	0.80	0.408	0.227	0.06	2	19	37	0.16	<20	4	<2	<10	6	<10	42	8	
254286	0.73	0.429	0.348	0.16	3	18	24	0.15	<20	<1	<2	<10	4	<10	48	5	
254287	0.82	0.419	0.336	0.19	2	19	23	0.14	<20	<1	<2	<10	13	<10	46	5	
254288	0.81	0.453	0.364	0.21	3	17	18	0.15	<20	3	<2	<10	4	<10	48	5	
254289	0.86	0.459	0.401	0.19	4	16	31	0.14	<20	<1	<2	<10	4	<10	55	4	
254290	0.65	0.376	0.287	0.09	2	18	39	0.17	<20	3	<2	<10	4	<10	49	4	
254291	0.66	0.378	0.219	0.09	<2	16	26	0.17	<20	5	<2	<10	3	<10	50	6	
254292	1.22	0.388	0.095	0.18	<2	19	13	0.21	<20	2	<2	<10	54	<10	21	7	
254293	1.07	0.397	0.110	0.16	3	19	24	0.22	<20	<1	<2	<10	44	<10	23	7	
254294	1.29	0.360	0.145	0.18	3	18	24	0.15	<20	1	<2	<10	47	<10	27	7	
254295	0.74	0.426	0.307	0.13	<2	16	20	0.14	<20	3	<2	<10	3	<10	42	7	
254296	0.76	0.392	0.177	0.04	2	14	15	0.15	<20	<1	<2	<10	2	<10	50	10	

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Au
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.03
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	FA- GRA
254297	0.64	0.422	0.227	0.09	4	13	22	0.16	<20	2	<2	<10	2	<10	49	9	
254298	0.46	0.378	0.103	0.03	4	14	22	0.16	<20	6	<2	<10	2	<10	63	19	
254299	1.40	0.224	0.048	<0.01	<2	7	20	0.21	<20	4	<2	<10	75	<10	8	19	
254300	1.42	0.229	0.049	<0.01	<2	8	21	0.21	<20	<1	<2	<10	75	<10	9	18	
254301	1.42	0.260	0.055	<0.01	<2	7	32	0.21	<20	4	<2	<10	78	<10	7	18	
254302	1.54	0.196	0.051	<0.01	<2	7	18	0.19	<20	2	<2	<10	74	<10	7	21	
254303	1.52	0.188	0.056	<0.01	<2	6	17	0.20	<20	2	<2	<10	75	<10	6	23	
254304	1.72	0.314	0.075	0.08	3	19	21	0.24	<20	4	<2	<10	152	<10	19	5	
254305	1.27	0.307	0.154	0.14	3	16	26	0.19	<20	<1	<2	<10	70	<10	21	13	
254306	0.90	0.418	0.113	0.16	3	22	32	0.23	<20	1	<2	<10	36	<10	32	12	
254307	0.77	0.442	0.185	0.22	2	15	16	0.16	<20	5	<2	<10	4	<10	40	11	
254308	0.81	0.454	0.296	0.17	3	21	25	0.15	<20	<1	<2	<10	4	<10	49	6	
254309	0.89	0.422	0.173	0.14	3	20	29	0.17	<20	5	<2	<10	11	<10	39	11	
254310	1.32	0.418	0.112	0.10	<2	23	23	0.24	<20	2	<2	<10	48	<10	28	9	
254311	1.02	0.343	0.107	0.12	2	22	30	0.23	<20	3	<2	<10	62	<10	27	10	
254312	0.91	0.441	0.226	0.14	<2	20	31	0.16	<20	4	<2	<10	28	<10	40	10	
254313	0.23	0.390	0.105	0.05	2	13	38	0.17	<20	<1	<2	<10	2	<10	54	16	
254314	0.31	0.346	0.113	0.39	2	15	39	0.10	<20	1	<2	<10	3	<10	55	21	
254315	0.42	0.466	0.167	0.12	3	16	23	0.14	<20	4	<2	<10	2	<10	53	8	
254316	0.69	0.423	0.177	0.24	3	19	22	0.17	<20	3	<2	<10	12	<10	37	11	
254317	0.62	0.416	0.197	0.36	<2	16	32	0.11	<20	<1	<2	<10	6	<10	40	11	
254318	0.48	0.423	0.178	0.09	<2	19	36	0.16	<20	3	<2	<10	3	<10	50	12	
254319	0.79	0.382	0.344	0.18	3	14	25	0.14	<20	6	<2	<10	13	<10	44	5	
254320																	9.10
254321	0.85	0.407	0.131	0.29	<2	22	28	0.20	<20	1	<2	<10	18	<10	31	9	
254322	1.09	0.407	0.108	0.25	<2	24	33	0.22	<20	<1	<2	<10	60	<10	27	7	
254323	1.27	0.384	0.097	0.22	<2	23	15	0.22	<20	1	<2	<10	62	<10	32	8	
254324	1.33	0.367	0.117	0.20	<2	20	18	0.23	<20	5	<2	<10	75	<10	24	11	
254325	1.10	0.327	0.077	0.06	2	17	17	0.26	<20	3	<2	<10	74	<10	16	4	
254326	1.06	0.340	0.073	0.08	3	17	16	0.23	<20	4	<2	<10	74	<10	17	4	
254327	1.82	0.042	0.030	0.02	2	13	21	0.14	<20	<1	<2	<10	94	<10	6	12	
254328	1.70	0.039	0.030	0.50	2	13	23	0.12	<20	<1	<2	<10	95	<10	7	12	
254329	2.09	0.041	0.031	0.34	3	15	21	0.13	<20	1	<2	<10	104	<10	7	12	
254330	2.10	0.046	0.030	0.32	3	14	22	0.13	<20	4	<2	<10	105	<10	6	12	
254331	2.78	0.046	0.032	0.14	2	12	21	0.14	<20	<1	<2	<10	94	<10	6	13	
254332	2.68	0.041	0.028	0.07	3	16	22	0.13	<20	1	<2	<10	109	<10	6	11	
254333	3.33	0.039	0.027	0.04	<2	11	20	0.10	<20	<1	<2	<10	80	<10	3	9	
254334	3.82	0.035	0.026	0.05	2	12	22	0.10	<20	<1	<2	<10	87	<10	3	9	
254335	2.54	0.031	0.029	0.02	3	13	27	0.09	<20	5	<2	<10	97	<10	6	10	
254336	2.89	0.053	0.034	0.05	3	19	21	0.12	<20	<1	<2	<10	129	<10	6	12	
254337	2.18	0.028	0.025	<0.01	<2	11	19	0.04	<20	1	<2	<10	77	<10	7	8	
254338	3.43	0.047	0.029	0.13	3	13	28	0.10	<20	2	<2	<10	85	<10	6	13	
254339	2.13	0.041	0.024	0.03	<2	9	44	0.09	<20	3	<2	<10	63	<10	9	11	
254340	2.55	0.020	0.006	<0.01	<2	<1	49	<0.01	<20	<1	<2	<10	<1	<10	2	<1	
254341	2.63	0.056	0.031	0.09	3	13	32	0.12	<20	<1	<2	<10	89	<10	7	15	
254342	3.00	0.037	0.025	0.02	<2	10	27	0.07	<20	<1	<2	<10	64	<10	5	11	
254343	2.57	0.049	0.033	0.02	2	11	21	0.10	<20	2	<2	<10	81	<10	5	13	
254344	2.97	0.043	0.028	<0.01	<2	9	24	0.09	<20	<1	<2	<10	64	<10	4	12	
254345	2.49	0.052	0.030	0.01	4	10	19	0.11	<20	<1	<2	<10	77	<10	4	13	
254346	2.33	0.045	0.030	0.07	3	12	27	0.10	<20	<1	<2	<10	85	<10	7	12	

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Au
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.03
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	FA- GRA
254347	2.38	0.043	0.030	0.01	2	10	20	0.11	<20	<1	<2	<10	75	<10	6	13	
254348	1.83	0.041	0.029	0.02	<2	10	27	0.11	<20	<1	<2	<10	73	<10	7	14	
254349	2.02	0.046	0.031	0.04	3	10	22	0.11	<20	<1	<2	<10	75	<10	6	12	
254350	2.04	0.045	0.038	0.01	2	18	16	0.12	<20	6	<2	<10	113	<10	5	14	
254351	2.76	0.040	0.038	<0.01	3	8	53	0.06	<20	1	<2	<10	43	<10	10	16	
254352	2.57	0.037	0.038	<0.01	<2	7	58	0.07	<20	2	<2	<10	45	<10	10	20	
254353	2.96	0.043	0.037	<0.01	3	19	26	0.11	<20	<1	<2	<10	118	<10	5	17	
254354	2.94	0.035	0.025	<0.01	<2	14	28	0.08	<20	<1	<2	<10	81	<10	5	12	
254355	4.25	0.031	0.020	0.02	2	7	47	0.05	<20	<1	<2	<10	38	<10	5	8	
254356	2.83	0.034	0.034	0.01	2	15	28	0.11	<20	4	<2	<10	104	<10	6	13	
254357	2.12	0.033	0.029	0.09	<2	11	30	0.11	<20	<1	<2	<10	82	<10	7	13	
254358	2.38	0.037	0.028	0.07	3	9	34	0.10	<20	1	<2	<10	70	<10	8	11	
254359	3.82	0.030	0.027	0.01	2	21	29	0.11	<20	2	<2	<10	130	<10	7	6	
254360	3.93	0.029	0.028	0.01	3	21	27	0.10	<20	2	<2	<10	129	<10	7	6	
254361	1.99	0.034	0.032	<0.01	2	10	22	0.12	<20	1	<2	<10	87	<10	7	9	
254362	2.28	0.037	0.051	0.22	<2	11	29	0.11	<20	<1	<2	<10	94	<10	6	15	
254363	2.25	0.030	0.068	<0.01	2	8	29	0.03	<20	2	<2	<10	72	<10	7	11	
254364	2.57	0.036	0.066	0.41	<2	9	37	0.09	<20	3	<2	<10	85	<10	7	16	
254365	2.74	0.073	0.070	0.46	<2	10	64	0.17	<20	2	<2	<10	104	<10	5	21	
254366	1.84	0.043	0.052	0.05	<2	5	44	0.11	<20	5	<2	<10	53	<10	6	15	
254367	1.95	0.039	0.077	<0.01	2	9	22	0.02	<20	<1	<2	<10	85	<10	7	9	
254368	4.02	0.044	0.029	0.02	<2	8	41	<0.01	<20	<1	<2	<10	65	<10	3	8	
254369	3.09	0.057	0.072	0.28	2	14	66	0.16	<20	3	<2	<10	111	<10	9	22	
254370	1.48	0.037	0.044	0.15	<2	4	33	0.13	<20	2	<2	<10	32	<10	8	33	
254371	1.80	0.055	0.116	0.12	<2	11	35	0.16	<20	1	<2	<10	113	<10	12	9	
254372	2.40	0.027	0.032	0.34	4	23	25	0.15	<20	<1	<2	<10	219	<10	6	5	
254373	3.07	0.028	0.033	0.13	3	30	39	0.18	<20	3	<2	<10	235	<10	7	6	
254374	2.93	0.033	0.031	0.19	2	28	73	0.19	<20	<1	<2	<10	216	<10	8	8	
254375	2.46	0.027	0.040	0.26	2	25	65	0.17	<20	<1	<2	<10	210	<10	9	9	
254376	2.23	0.029	0.043	0.44	4	25	71	0.16	<20	<1	<2	<10	213	<10	10	8	
254377	3.55	0.060	0.193	0.18	3	20	220	0.26	<20	<1	<2	<10	178	<10	16	10	
254378	2.90	0.028	0.043	0.22	5	25	70	0.19	<20	<1	<2	<10	222	<10	13	8	
254379	2.61	0.027	0.042	0.31	<2	24	68	0.17	<20	2	<2	<10	202	<10	12	8	
254380																	
254381	2.52	0.026	0.042	0.11	3	24	64	0.18	<20	<1	<2	<10	212	<10	14	6	
254382	2.59	0.028	0.042	0.31	4	21	57	0.16	<20	<1	<2	<10	191	<10	13	4	
254383	2.94	0.028	0.047	0.24	<2	20	56	0.18	<20	4	<2	<10	210	<10	11	3	
254384	2.65	0.033	0.046	0.11	2	22	55	0.24	<20	1	<2	<10	212	<10	13	2	
254385	2.83	0.020	0.041	0.17	2	19	50	0.17	<20	<1	<2	<10	199	<10	14	3	
254386	2.26	0.031	0.047	0.16	3	23	44	0.19	<20	2	<2	<10	228	<10	15	4	
254387	2.62	0.024	0.043	0.20	3	23	51	0.19	<20	<1	<2	<10	212	<10	15	4	
254388	2.21	0.119	0.044	0.09	<2	16	49	0.19	<20	4	<2	<10	151	<10	13	2	
254389	2.75	0.038	0.049	0.21	2	19	52	0.19	<20	2	<2	<10	203	<10	15	3	
254390	2.38	0.121	0.045	0.33	3	15	43	0.18	<20	6	<2	<10	151	<10	12	2	
254391	2.32	0.124	0.045	0.12	2	16	37	0.20	<20	<1	<2	<10	155	<10	13	2	
254392	2.19	0.133	0.050	0.22	3	13	51	0.20	<20	4	<2	<10	130	<10	15	6	
254393	2.68	0.067	0.054	0.10	2	13	58	0.25	<20	2	<2	<10	149	<10	16	10	
254394	2.38	0.094	0.064	0.19	<2	14	65	0.25	<20	<1	<2	<10	156	<10	12	7	
254395	2.81	0.092	0.048	0.18	3	13	43	0.19	<20	3	<2	<10	169	<10	10	2	
254396	2.69	0.104	0.050	0.20	<2	13	40	0.18	<20	<1	<2	<10	143	<10	10	3	

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Au
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.03
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	FA- GRA
254397	2.37	0.110	0.044	0.29	3	11	41	0.18	<20	2	<2	<10	130	<10	9	2	
254398	2.21	0.149	0.064	0.06	2	13	41	0.22	<20	6	<2	<10	125	<10	12	5	
254399	2.27	0.161	0.046	0.12	<2	13	33	0.19	<20	<1	<2	<10	125	<10	10	2	
254400	1.62	0.019	0.005	<0.01	<2	<1	50	<0.01	<20	<1	<2	<10	1	<10	3	<1	
254401	2.25	0.185	0.049	0.09	3	15	49	0.21	<20	2	<2	<10	142	<10	13	2	
254402	2.74	0.105	0.048	0.13	3	16	45	0.20	<20	<1	<2	<10	170	<10	13	2	
254403	2.48	0.115	0.045	0.03	<2	16	54	0.20	<20	2	<2	<10	158	<10	14	2	
254404	3.83	0.026	0.092	<0.01	3	17	72	0.21	<20	<1	<2	<10	157	<10	9	11	
254405	2.70	0.045	0.045	0.15	3	13	61	0.21	<20	<1	<2	<10	187	<10	8	3	
254406	2.42	0.054	0.044	0.17	<2	13	53	0.24	<20	<1	<2	<10	190	<10	9	2	
254407	1.70	0.189	0.048	0.09	2	13	50	0.23	<20	3	<2	<10	131	<10	13	3	
254408	3.10	0.086	0.051	0.10	2	17	54	0.24	<20	4	<2	<10	202	<10	14	3	
254409	2.89	0.061	0.067	0.08	3	12	56	0.20	<20	2	<2	<10	170	<10	10	4	
254410	2.82	0.056	0.042	0.11	4	9	63	0.15	<20	3	<2	<10	148	<10	7	3	
254411	2.74	0.052	0.042	0.12	<2	10	68	0.19	<20	1	<2	<10	164	<10	10	3	
254412	2.31	0.150	0.049	0.11	2	14	64	0.22	<20	<1	<2	<10	149	<10	14	3	
254413	1.95	0.138	0.042	0.19	2	13	82	0.19	<20	<1	<2	<10	131	<10	10	2	
254414	1.71	0.109	0.051	0.18	<2	12	100	0.18	<20	4	<2	<10	104	<10	11	2	
254415	2.41	0.166	0.042	0.20	4	11	51	0.18	<20	2	<2	<10	117	<10	10	2	
254416	2.47	0.111	0.043	0.31	<2	13	68	0.25	<20	5	<2	<10	167	<10	10	2	
254417	2.40	0.138	0.047	0.47	4	15	64	0.22	<20	1	<2	<10	169	<10	12	3	
254418	2.17	0.107	0.047	0.30	2	14	109	0.22	<20	2	<2	<10	147	<10	12	3	
254419	2.88	0.159	0.047	0.43	4	13	45	0.21	<20	2	<2	<10	143	<10	11	3	
254420	2.70	0.173	0.049	0.32	<2	14	48	0.22	<20	<1	<2	<10	154	<10	11	3	
254421	3.07	0.173	0.048	0.19	2	15	42	0.21	<20	<1	<2	<10	151	<10	12	3	
254422	2.40	0.143	0.045	0.12	3	17	74	0.25	<20	2	<2	<10	169	<10	14	2	
254423	2.84	0.143	0.044	0.15	3	15	62	0.19	<20	<1	<2	<10	158	<10	12	3	
254424	2.39	0.209	0.046	0.11	3	15	50	0.22	<20	5	<2	<10	145	<10	13	3	
254425	2.40	0.096	0.043	0.12	3	13	58	0.23	<20	2	<2	<10	170	<10	11	2	
254426	2.76	0.099	0.047	0.18	3	14	34	0.21	<20	4	<2	<10	166	<10	12	2	
254427	3.07	0.035	0.046	0.21	2	25	57	0.19	<20	2	<2	<10	213	<10	14	4	
254428	2.07	0.048	0.044	0.07	2	19	31	0.09	<20	<1	<2	<10	151	<10	12	8	
254429	2.82	0.042	0.029	0.01	3	30	62	0.24	<20	1	<2	<10	245	<10	13	4	
254430	4.67	0.026	0.030	0.02	5	27	42	0.14	<20	<1	<2	<10	325	<10	15	4	
254431	3.51	0.022	0.044	<0.01	4	20	113	0.08	<20	2	<2	<10	196	<10	12	3	
254432	3.15	0.036	0.035	0.45	3	23	51	0.10	<20	1	<2	<10	194	<10	12	3	
254433	2.49	0.213	0.046	0.51	3	21	32	0.21	<20	<1	<2	<10	206	<10	17	3	
254434	2.73	0.109	0.041	0.40	4	21	39	0.21	<20	<1	<2	<10	212	<10	16	3	
254435	2.59	0.097	0.035	0.54	<2	14	38	0.19	<20	4	<2	<10	178	<10	10	3	
254436	2.07	0.139	0.031	0.09	<2	14	29	0.26	<20	2	<2	<10	126	<10	12	2	

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas		0.4	< 0.5	76	1080	2	23	97	137	7.47	245	< 10	658	0.9	< 2	0.12	11	85	6.13	20	2	1.26	< 10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
GXR-6 Meas		0.2	< 0.5	69	974	1	22	87	121	6.90	222	< 10	587	0.8	< 2	0.11	10	79	5.68	20	4	1.15	< 10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
GXR-6 Meas		0.3	< 0.5	71	1000	1	31	92	124	7.32	234	< 10	605	0.9	< 2	0.12	11	83	6.06	20	3	1.22	< 10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
GXR-6 Meas		0.3	< 0.5	67	1030	1	22	96	123	7.07	249	< 10	628	0.9	< 2	0.13	11	82	5.71	20	2	1.07	< 10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
GXR-6 Meas		0.3	< 0.5	75	1080	1	23	95	125	7.27	258	< 10	649	0.9	< 2	0.13	12	84	5.99	20	1	1.17	< 10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
OREAS 922 (AQUA REGIA) Meas		0.8	< 0.5	2120	737	< 1	35	57	256	3.02	6		78	0.8	9	0.42	16	46	5.26	< 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		0.8	< 0.5	2120	701	< 1	35	52	251	2.89	6		69	0.8	7	0.40	17	46	5.08	< 10		0.50	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		0.7	< 0.5	2250	723	< 1	36	61	266	3.00	4		70	0.8	6	0.42	17	47	5.38	< 10		0.52	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 922 (AQUA REGIA) Meas		0.7	< 0.5	2010	733	< 1	31	57	248	2.77	4		75	0.8	8	0.41	19	47	4.87	< 10		0.44	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 922 (AQUA REGIA) Meas		0.8	< 0.5	2250	763	< 1	33	69	262	2.95	4		83	0.8	7	0.43	18	47	5.12	< 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		2.2	< 0.5	4230	839	< 1	32	77	338	2.98	7		62	0.7	11	0.41	19	41	5.97	< 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 923 (AQUA REGIA) Meas		1.5	< 0.5	4250	805	< 1	34	75	331	2.92	7		54	0.7	21	0.41	19	44	5.92	< 10		0.43	33
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		1.4	< 0.5	4380	818	< 1	35	77	336	3.01	5		50	0.7	22	0.41	19	42	6.17	< 10		0.43	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 923		1.5	< 0.5	3950	826	< 1	30	78	326	2.78	9		62	0.7	15	0.41	21	42	5.66	< 10		0.38	34

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
(AQUA REGIA) Meas																							
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		1.5	< 0.5	4420	864	< 1	31	78	333	2.96	7		68	0.7	15	0.43	21	44	6.03	< 10		0.43	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 96 (Aqua Regia) Meas		10.7		> 10000				86	425						25		42						
Oreas 96 (Aqua Regia) Cert		11.50		39100.00				100	448						27.9		49.2						
Oreas 96 (Aqua Regia) Meas		10.2		> 10000				83	410						16		41						
Oreas 96 (Aqua Regia) Cert		11.50		39100.00				100	448						27.9		49.2						
Oreas 96 (Aqua Regia) Meas		10.6		> 10000				81	421						18		42						
Oreas 96 (Aqua Regia) Cert		11.50		39100.00				100	448						27.9		49.2						
Oreas 96 (Aqua Regia) Meas		10.5		> 10000				87	419						23		46						
Oreas 96 (Aqua Regia) Cert		11.50		39100.00				100	448						27.9		49.2						
Oreas 96 (Aqua Regia) Meas		10.6		> 10000				87	406						6		46						
Oreas 96 (Aqua Regia) Cert		11.50		39100.00				100	448						27.9		49.2						
OREAS 216 (Fire Assay) Meas																							
OREAS 216 (Fire Assay) Cert																							
OREAS 254 Fire Assay Meas	2580																						
OREAS 254 Fire Assay Cert	2550																						
OREAS 254 Fire Assay Meas	2610																						
OREAS 254 Fire Assay Cert	2550																						
OREAS 254 Fire Assay Meas	2650																						
OREAS 254 Fire Assay Cert	2550																						
OREAS 254 Fire Assay Meas	2610																						
OREAS 254 Fire Assay Cert	2550																						
OREAS 254 Fire Assay Meas	2590																						
OREAS 254 Fire Assay Cert	2550																						
OREAS 254 Fire Assay Meas	2570																						
OREAS 254 Fire Assay Cert	2550																						

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 218 Meas	525																						
OREAS 218 Cert	531																						
OREAS 218 Meas	526																						
OREAS 218 Cert	531																						
OREAS 218 Meas	528																						
OREAS 218 Cert	531																						
OREAS 218 Meas	545																						
OREAS 218 Cert	531																						
OREAS 218 Meas	527																						
OREAS 218 Cert	531																						
OREAS 218 Meas	524																						
OREAS 218 Cert	531																						
Oreas 621 (Aqua Regia) Meas		67.0	265	3390	528	14	26	> 5000	> 10000	1.87	73			0.6	< 2	1.64	29	31	3.52	< 10	4	0.41	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		65.2	256	3560	522	11	26	> 5000	> 10000	1.80	78			0.6	5	1.72	29	30	3.49	10	4	0.39	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		66.2	279	3470	543	14	25	> 5000	> 10000	1.76	79			0.6	7	1.72	31	32	3.44	10	4	0.36	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 621 (Aqua Regia) Meas		65.5	283	3540	539	15	26	> 5000	> 10000	1.78	76			0.6	6	1.70	31	38	3.42	< 10	4	0.38	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 257 Meas																							
OREAS 257 Cert																							
OREAS 255 (Fire Assay) Meas																							
OREAS 255 (Fire Assay) Cert																							
OREAS 45f (Aqua Regia) Meas				347	154	1	242	5	26	7.47		116	1.0	< 2	0.06	30	341	14.5	20	< 1	0.12	< 10	
OREAS 45f (Aqua Regia) Cert				336	150	1.19	192	12.4	22.2	4.81		158	0.980	0.170	0.0750	39.2	341	13.7	20.3	0.0310	0.0820	10.7	
OREAS 45f (Aqua Regia) Meas				355	157	< 1	244	6	27	7.60		120	1.0	< 2	0.06	32	348	14.7	20	< 1	0.12	< 10	
OREAS 45f (Aqua Regia) Cert				336	150	1.19	192	12.4	22.2	4.81		158	0.980	0.170	0.0750	39.2	341	13.7	20.3	0.0310	0.0820	10.7	
OREAS 45f (Aqua Regia) Meas				322	161	< 1	211	9	25	6.97		121	1.0	< 2	0.07	33	339	13.3	20	< 1	0.11	10	
OREAS 45f (Aqua Regia) Cert				336	150	1.19	192	12.4	22.2	4.81		158	0.980	0.170	0.0750	39.2	341	13.7	20.3	0.0310	0.0820	10.7	
254259 Orig		< 0.2	< 0.5	72	854	< 1	50	2	69	3.12	< 2	< 10	547	0.5	< 2	3.67	26	139	5.70	10	< 1	2.52	36
254259 Dup		< 0.2	< 0.5	72	843	< 1	50	2	71	3.06	< 2	< 10	546	0.5	< 2	3.67	27	138	5.58	10	1	2.47	37
254262 Orig	10																						
254262 Dup	9																						
254268 Orig	8																						
254268 Dup	8																						
254273 Orig		< 0.2	< 0.5	65	650	< 1	4	< 2	58	2.58	< 2	< 10	40	< 0.5	< 2	3.11	29	< 1	6.18	10	3	0.19	< 10
254273 Dup		< 0.2	< 0.5	66	671	< 1	5	3	60	2.70	< 2	< 10	42	< 0.5	< 2	3.18	31	< 1	6.55	10	1	0.20	< 10
254281 Orig	8																						

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
254281 Dup	8																						
254286 Orig		< 0.2	< 0.5	41	1340	1	2	< 2	78	2.61	2	< 10	47	0.8	< 2	3.54	20	< 1	9.38	10	< 1	0.16	19
254286 Dup		< 0.2	< 0.5	39	1290	1	1	2	75	2.46	3	< 10	44	0.8	< 2	3.43	21	< 1	8.91	10	2	0.16	18
254296 Orig	< 5	< 0.2	< 0.5	8	940	< 1	1	2	99	2.43	< 2	< 10	38	0.9	< 2	2.66	7	< 1	6.58	20	< 1	0.14	15
254296 Split PREP DUP	< 5	< 0.2	< 0.5	8	901	< 1	1	< 2	95	2.34	< 2	< 10	37	0.9	< 2	2.57	7	< 1	6.35	20	< 1	0.13	15
254297 Orig	5																						
254297 Dup	< 5																						
254299 Orig		< 0.2	< 0.5	57	412	< 1	33	< 2	50	1.87	< 2	< 10	254	< 0.5	< 2	0.96	15	34	3.03	< 10	< 1	0.80	17
254299 Dup		< 0.2	< 0.5	60	426	< 1	34	< 2	51	1.93	< 2	< 10	262	< 0.5	< 2	0.99	16	35	3.13	< 10	< 1	0.83	18
254302 Orig	5																						
254302 Dup	< 5																						
254314 Orig	1660																						
254314 Dup	1940																						
254322 Orig		< 0.2	< 0.5	46	1010	< 1	< 1	< 2	74	2.45	8	< 10	37	< 0.5	< 2	3.91	29	< 1	7.70	10	1	0.14	12
254322 Dup		< 0.2	< 0.5	45	991	< 1	3	< 2	71	2.41	< 2	< 10	36	< 0.5	< 2	3.92	23	< 1	7.49	10	< 1	0.13	12
254331 Orig	< 5																						
254331 Dup	< 5																						
254336 Orig		< 0.2	< 0.5	64	807	< 1	82	< 2	80	3.62	4	< 10	18	< 0.5	< 2	4.45	33	124	6.85	10	< 1	0.07	< 10
254336 Dup		< 0.2	< 0.5	64	814	< 1	84	< 2	80	3.61	5	< 10	18	< 0.5	< 2	4.46	35	125	6.86	10	2	0.07	< 10
254337 Orig	8																						
254337 Dup	10																						
254346 Orig	< 5	< 0.2	< 0.5	58	973	< 1	89	< 2	70	2.67	26	< 10	24	< 0.5	< 2	5.74	33	117	6.36	< 10	< 1	0.09	< 10
254346 Split PREP DUP	< 5	< 0.2	< 0.5	66	876	< 1	91	< 2	71	2.78	25	< 10	26	< 0.5	< 2	5.32	34	118	6.23	< 10	2	0.10	< 10
254348 Orig	< 5	< 0.2	< 0.5	82	916	< 1	78	< 2	60	2.60	16	< 10	25	< 0.5	< 2	5.71	31	100	5.27	< 10	< 1	0.14	< 10
254348 Dup	< 5	< 0.2	< 0.5	80	933	< 1	78	< 2	62	2.66	22	< 10	24	< 0.5	< 2	5.99	33	100	5.41	< 10	1	0.14	< 10
254362 Orig		< 0.2	0.5	93	643	< 1	108	< 2	68	3.03	3	< 10	46	< 0.5	< 2	3.63	43	128	5.71	< 10	< 1	0.29	< 10
254362 Dup		< 0.2	< 0.5	87	619	< 1	105	< 2	63	2.90	< 2	< 10	45	< 0.5	< 2	3.48	38	124	5.58	< 10	< 1	0.28	< 10
254365 Orig	< 5																						
254365 Dup	< 5																						
254371 Orig	< 5																						
254371 Dup	< 5																						
254381 Orig		< 0.2	< 0.5	79	2560	< 1	37	< 2	86	4.06	< 2	< 10	70	< 0.5	< 2	5.38	31	68	10.6	10	< 1	0.21	< 10
254381 Dup		< 0.2	< 0.5	79	2520	< 1	38	< 2	85	4.00	3	< 10	68	< 0.5	2	5.33	30	67	10.5	10	< 1	0.21	< 10
254383 Orig	< 5																						
254383 Dup	< 5																						
254394 Orig		< 0.2	< 0.5	99	1170	< 1	34	2	75	3.02	< 2	< 10	206	< 0.5	< 2	3.96	31	65	6.39	10	2	0.54	< 10
254394 Dup		< 0.2	< 0.5	103	1200	< 1	32	< 2	78	3.18	< 2	< 10	211	< 0.5	< 2	4.04	32	67	6.64	10	< 1	0.57	< 10
254396 Orig	< 5																						
254396 Split PREP DUP	5	< 0.2	< 0.5	180	1340	< 1	40	< 2	109	3.35	< 2	< 10	38	< 0.5	< 2	4.58	39	57	7.38	10	< 1	0.10	< 10
254399 Orig	< 5																						
254399 Dup	< 5																						
254405 Orig	< 5																						
254405 Dup	7																						
254406 Orig		< 0.2	< 0.5	80	1180	< 1	43	< 2	95	3.39	< 2	< 10	249	< 0.5	< 2	4.04	35	57	8.06	10	3	0.91	< 10
254406 Dup		< 0.2	< 0.5	81	1180	< 1	43	< 2	95	3.38	< 2	< 10	251	< 0.5	< 2	4.07	33	57	7.99	10	1	0.91	< 10
254417 Orig	< 5																						
254417 Dup	< 5																						
254420 Orig		< 0.2	< 0.5	139	1910	< 1	40	< 2	86	4.19	< 2	< 10	246	< 0.5	< 2	3.75	34	55	10.4	10	1	0.53	< 10
254420 Dup		< 0.2	< 0.5	136	1870	< 1	45	< 2	87	4.05	< 2	< 10	207	< 0.5	< 2	3.60	33	53	10.1	10	< 1	0.54	< 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
254434 Orig	< 5																						
254434 Dup	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
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Method Blank	< 5																						
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 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		< 0.2	< 0.5	< 1	< 5	< 1	< 1	7	< 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		0.6	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Au
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.03
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	FA- GRA
GXR-6 Meas	0.45	0.094	0.036	0.01	3	18	26		< 20	< 1	2	< 10	183	< 10	5	7	
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110	
GXR-6 Meas	0.42	0.071	0.033	0.01	3	18	25		< 20	< 1	< 2	< 10	162	< 10	4	6	
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110	
GXR-6 Meas	0.45	0.073	0.034	0.01	3	19	26		< 20	< 1	< 2	< 10	164	< 10	4	6	
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110	
GXR-6 Meas	0.40	0.075	0.033	0.01	6	19	27		< 20	2	< 2	< 10	174	< 10	5	9	
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110	
GXR-6 Meas	0.42	0.081	0.034	0.01	4	20	27		< 20	6	< 2	< 10	181	< 10	5	10	
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110	
OREAS 922 (AQUA REGIA) Meas	1.36	0.034	0.062	0.35	2	4	16		< 20		< 2	< 10	37	< 10	23	14	
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	1.40	0.029	0.062	0.35	< 2	4	16		< 20		< 2	< 10	34	< 10	22	18	
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	1.48	0.030	0.064	0.36	3	4	17		< 20		< 2	< 10	36	< 10	22	17	
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	1.24	0.028	0.058	0.33	< 2	4	16		< 20		< 2	< 10	35	< 10	21	29	
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	1.36	0.034	0.062	0.35	< 2	4	17		< 20		< 2	< 10	39	< 10	23	32	
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	1.44		0.059	0.64	4	4	15		< 20		< 2	< 10	36	< 10	21	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 923 (AQUA REGIA) Meas	1.52		0.059	0.64	< 2	4	14		< 20		< 2	< 10	34	< 10	20	29	
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	1.57		0.060	0.66	3	4	15		< 20		< 2	< 10	34	< 10	20	24	
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	

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Au
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.03
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	FA- GRA
OREAS 923 (AQUA REGIA) Meas	1.33		0.055	0.61	2	4	14		< 20		< 2	< 10	34	< 10	19	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	1.46		0.059	0.62	3	4	15		< 20		< 2	< 10	36	< 10	21	34	
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 96 (Aqua Regia) Meas				3.71	7												
Oreas 96 (Aqua Regia) Cert				4.38	4.53												
Oreas 96 (Aqua Regia) Meas				3.67	6												
Oreas 96 (Aqua Regia) Cert				4.38	4.53												
Oreas 96 (Aqua Regia) Meas				3.62	7												
Oreas 96 (Aqua Regia) Cert				4.38	4.53												
Oreas 96 (Aqua Regia) Meas				2.92	6												
Oreas 96 (Aqua Regia) Cert				4.38	4.53												
Oreas 96 (Aqua Regia) Meas				3.53	5												
Oreas 96 (Aqua Regia) Cert				4.38	4.53												
OREAS 216 (Fire Assay) Meas																	6.81
OREAS 216 (Fire Assay) Cert																	6.66
OREAS 254 Fire Assay Meas																	
OREAS 254 Fire Assay Cert																	
OREAS 254 Fire Assay Meas																	
OREAS 254 Fire Assay Cert																	
OREAS 254 Fire Assay Meas																	
OREAS 254 Fire Assay Cert																	
OREAS 254 Fire Assay Meas																	
OREAS 254 Fire Assay Cert																	
OREAS 254 Fire Assay Meas																	
OREAS 254 Fire Assay Cert																	
OREAS 254 Fire Assay Meas																	
OREAS 254 Fire Assay Cert																	

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Au
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.03
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	FA- GRA
OREAS 254 Fire Assay Cert																	
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 218 Meas																	
OREAS 218 Cert																	
OREAS 218 Meas																	
OREAS 218 Cert																	
OREAS 218 Meas																	
OREAS 218 Cert																	
Oreas 621 (Aqua Regia) Meas	0.46	0.196	0.033	4.50	120	3	19	< 20				< 2	< 10	14	< 10	9	62
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	0.49	0.177	0.033	4.29	81	3	18	< 20				< 2	< 10	13	< 10	8	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 621 (Aqua Regia) Meas	0.44	0.169	0.032	4.44	125	2	19	< 20				< 2	< 10	13	< 10	8	60
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	0.45	0.177	0.033	4.53	121	3	19	< 20				< 2	< 10	14	< 10	8	61
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 257 Meas																	14.4
OREAS 257 Cert																	14.18
OREAS 255 (Fire Assay) Meas																	4.19
OREAS 255 (Fire Assay) Cert																	4.08
OREAS 45f (Aqua Regia) Meas	0.20	0.043	0.020	0.02		24	13	0.10	< 20			< 2	< 10	192		4	13
OREAS 45f (Aqua Regia) Cert	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970	7.67			0.120	1.09	217		6.74	30.0
OREAS 45f (Aqua Regia) Meas	0.20	0.045	0.020	0.02		25	13	0.10	< 20			< 2	< 10	192		5	10
OREAS 45f (Aqua Regia) Cert	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970	7.67			0.120	1.09	217		6.74	30.0
OREAS 45f (Aqua Regia) Meas	0.17	0.041	0.020	0.02		26	14	0.13	< 20			< 2	< 10	201		5	19
OREAS 45f (Aqua Regia) Cert	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970	7.67			0.120	1.09	217		6.74	30.0
254259 Orig	2.91	0.125	0.217	0.14	2	13	123	0.32	< 20	3	< 2	< 10	153	< 10	13	11	
254259 Dup	2.87	0.126	0.216	0.14	2	12	124	0.33	< 20	2	< 2	< 10	151	< 10	14	12	
254262 Orig																	
254262 Dup																	
254268 Orig																	
254268 Dup																	
254273 Orig	1.31	0.320	0.060	0.23	3	20	14	0.26	< 20	5	< 2	< 10	139	< 10	14	5	

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Au
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.03
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	FA- GRA
254273 Dup	1.38	0.337	0.061	0.24	< 2	21	15	0.28	< 20	4	< 2	< 10	143	< 10	14	6	
254281 Orig																	
254281 Dup																	
254286 Orig	0.75	0.443	0.352	0.16	4	19	24	0.15	< 20	< 1	< 2	< 10	4	< 10	49	5	
254286 Dup	0.70	0.415	0.343	0.15	3	18	24	0.15	< 20	7	< 2	< 10	4	< 10	47	5	
254296 Orig	0.76	0.392	0.177	0.04	2	14	15	0.15	< 20	< 1	< 2	< 10	2	< 10	50	10	
254296 Split PREP DUP	0.72	0.365	0.170	0.04	2	14	14	0.14	< 20	1	< 2	< 10	2	< 10	48	7	
254297 Orig																	
254297 Dup																	
254299 Orig	1.37	0.217	0.047	< 0.01	< 2	7	19	0.21	< 20	5	< 2	< 10	75	< 10	8	19	
254299 Dup	1.42	0.231	0.049	< 0.01	< 2	7	20	0.21	< 20	3	< 2	< 10	76	< 10	8	19	
254302 Orig																	
254302 Dup																	
254314 Orig																	
254314 Dup																	
254322 Orig	1.11	0.416	0.110	0.25	< 2	24	33	0.22	< 20	1	< 2	< 10	60	< 10	27	7	
254322 Dup	1.07	0.398	0.107	0.25	3	24	33	0.22	< 20	< 1	< 2	< 10	59	< 10	27	7	
254331 Orig																	
254331 Dup																	
254336 Orig	2.88	0.053	0.034	0.05	4	19	21	0.12	< 20	< 1	< 2	< 10	128	< 10	6	12	
254336 Dup	2.89	0.054	0.034	0.05	3	19	21	0.12	< 20	1	< 2	< 10	130	< 10	6	12	
254337 Orig																	
254337 Dup																	
254346 Orig	2.33	0.045	0.030	0.07	3	12	27	0.10	< 20	< 1	< 2	< 10	85	< 10	7	12	
254346 Split PREP DUP	2.15	0.047	0.030	0.08	< 2	12	25	0.11	< 20	< 1	< 2	< 10	87	< 10	7	13	
254348 Orig	1.80	0.041	0.029	0.02	< 2	10	27	0.12	< 20	< 1	< 2	< 10	73	< 10	7	14	
254348 Dup	1.85	0.041	0.029	0.02	2	10	27	0.11	< 20	1	< 2	< 10	73	< 10	7	14	
254362 Orig	2.31	0.038	0.052	0.22	< 2	11	30	0.11	< 20	< 1	< 2	< 10	96	< 10	6	14	
254362 Dup	2.25	0.037	0.051	0.21	3	10	29	0.11	< 20	< 1	< 2	< 10	91	< 10	6	15	
254365 Orig																	
254365 Dup																	
254371 Orig																	
254371 Dup																	
254381 Orig	2.53	0.027	0.043	0.11	3	24	65	0.19	< 20	2	< 2	< 10	214	< 10	14	6	
254381 Dup	2.51	0.025	0.042	0.11	4	24	64	0.18	< 20	< 1	< 2	< 10	210	< 10	14	6	
254383 Orig																	
254383 Dup																	
254394 Orig	2.32	0.091	0.062	0.18	< 2	14	64	0.25	< 20	< 1	< 2	< 10	155	< 10	12	7	
254394 Dup	2.43	0.096	0.065	0.19	2	15	65	0.25	< 20	< 1	< 2	< 10	157	< 10	13	7	
254396 Orig																	
254396 Split PREP DUP	2.53	0.093	0.048	0.25	< 2	12	39	0.19	< 20	< 1	< 2	< 10	157	< 10	9	2	
254399 Orig																	
254399 Dup																	
254405 Orig																	
254405 Dup																	
254406 Orig	2.42	0.053	0.044	0.17	< 2	13	53	0.25	< 20	1	< 2	< 10	189	< 10	9	3	
254406 Dup	2.41	0.054	0.044	0.17	4	13	53	0.23	< 20	< 1	< 2	< 10	192	< 10	9	2	
254417 Orig																	

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Au
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.03
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	FA- GRA
254417 Dup																	
254420 Orig	2.71	0.174	0.048	0.32	5	14	48	0.22	< 20	3	< 2	< 10	155	< 10	12	3	
254420 Dup	2.69	0.173	0.049	0.31	< 2	14	47	0.22	< 20	< 1	< 2	< 10	153	< 10	11	3	
254434 Orig																	
254434 Dup																	
Method Blank																	
Method Blank																	
Method Blank																	
Method Blank																	
Method Blank																	
Method Blank																	
Method Blank																	
Method Blank																	
Method Blank																	
Method Blank																	< 0.03
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	0.013	< 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	< 0.01	0.013	< 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	< 0.01	0.013	< 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	0.015	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1	
Method Blank	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1	



Date Submitted: 30-Aug-19
Invoice No.: A19-11628
Invoice Date: 10-Sep-19
Your Reference:

BTU Metals
581 Elgar Drive
Millbrook Ontario L0A1G0
Canada

ATTN: Doug Hunter

CERTIFICATE OF ANALYSIS

206 Rock samples were submitted for analysis.

The following analytical package(s) were requested:

Table with 2 columns: Sample ID and Analytical Package. Row 1: 1A2-Dryden, QOP AA-Au (Au - Fire Assay AA). Row 2: 1A3-Dryden, QOP AA-Au (Au - Fire Assay Gravimetric).

REPORT A19-11628

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Notes:

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

CERTIFIED BY:

Handwritten signature of Emmanuel Esemé

Emmanuel Esemé, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
264 Government Road, Dryden, Ontario, Canada, P8N 2R3
TELEPHONE +807 223-6168 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Dryden@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.03
Method Code	FA-AA	FA- GRA
254437	5	
254438	< 5	
254439	< 5	
254440	> 5000	8.35
254441	7	
254442	6	
254443	5	
254444	5	
254445	5	
254446	7	
254447	8	
254448	8	
254449	8	
254450	9	
254451	6	
254452	8	
254453	7	
254454	11	
254455	9	
254456	8	
254457	12	
254458	9	
254459	11	
254460	< 5	
254461	9	
254462	8	
254463	9	
254464	13	
254465	11	
254466	9	
254467	10	
254468	12	
254469	14	
254470	12	
254471	12	
254472	314	
254473	798	
254474	23	
254475	11	
254476	11	
254477	18	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.03
Method Code	FA-AA	FA- GRA
254478	11	
254479	9	
254480	< 5	
254481	6	
254482	5	
254483	< 5	
254484	< 5	
254485	< 5	
254486	< 5	
254487	< 5	
254488	< 5	
254489	< 5	
254490	5	
254491	< 5	
254492	< 5	
254493	6	
254494	< 5	
254495	< 5	
254496	< 5	
254497	< 5	
254498	8	
254499	6	
254500	1020	
254501	< 5	
254502	< 5	
254503	< 5	
254504	< 5	
254505	5	
254506	5	
254627	8	
254628	9	
254629	7	
254630	24	
254631	12	
254632	8	
254633	13	
254634	17	
254635	7	
254636	8	
254637	23	
254638	99	
254639	20	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.03
Method Code	FA-AA	FA- GRA
254640	< 5	
254641	7	
254642	29	
254643	6	
254644	5	
254645	10	
254646	47	
254647	135	
254648	82	
254649	142	
254650	5	
254651	21	
254652	63	
254653	11	
254654	< 5	
254655	< 5	
254656	< 5	
254657	< 5	
254658	11	
254659	8	
254660	14	
254661	156	
254662	102	
254663	9	
254664	20	
254665	9	
254666	12	
254667	7	
254668	< 5	
254669	< 5	
254670	5	
254671	10	
254672	7	
254673	50	
254674	8	
254675	7	
254676	6	
254677	< 5	
254678	13	
254679	7	
254680	> 5000	9.31

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.03
Method Code	FA-AA	FA- GRA
254681	10	
254682	6	
254683	7	
254684	7	
254685	7	
254686	9	
254687	8	
254688	16	
254689	6	
254690	8	
254691	< 5	
254692	8	
254693	7	
254694	6	
254695	9	
254696	15	
254697	14	
254698	15	
254699	11	
254700	5	
254701	8	
254702	9	
254703	10	
254704	21	
254705	7	
254706	7	
254707	8	
254708	9	
254709	32	
254710	8	
254711	10	
254712	7	
254713	8	
254714	8	
254715	10	
254716	9	
254717	12	
254718	10	
254719	18	
254720	8	
254721	8	
254722	7	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.03
Method Code	FA-AA	FA- GRA
254723	7	
254724	6	
254725	8	
254726	9	
254727	13	
254728	10	
254729	9	
254730	14	
254731	9	
254732	8	
254733	7	
254734	9	
254735	7	
254736	7	
254737	8	
254738	7	
254739	11	
254740	1080	
254741	14	
254742	9	
254743	8	
254744	8	
254745	8	
254746	6	
254747	10	
254748	8	
254749	8	
254750	8	
254751	10	
254752	8	
254753	7	
254754	8	
254755	7	
254756	6	
254757	11	
254758	14	
254759	8	
254760	5	
254761	6	
254762	6	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.03
Method Code	FA-AA	FA- GRA
OREAS 216 (Fire Assay) Meas		6.66
OREAS 216 (Fire Assay) Cert		6.66
OREAS 254 Fire Assay Meas	2580	
OREAS 254 Fire Assay Cert	2550	
OREAS 254 Fire Assay Meas	2580	
OREAS 254 Fire Assay Cert	2550	
OREAS 254 Fire Assay Meas	2550	
OREAS 254 Fire Assay Cert	2550	
OREAS 254 Fire Assay Meas	2550	
OREAS 254 Fire Assay Cert	2550	
OREAS 254 Fire Assay Meas	2560	
OREAS 254 Fire Assay Cert	2550	
OREAS 254 Fire Assay Meas	2560	
OREAS 254 Fire Assay Cert	2550	
OREAS 254 Fire Assay Meas	2550	
OREAS 254 Fire Assay Cert	2550	
OREAS 218 Meas	523	
OREAS 218 Cert	531	
OREAS 218 Meas	511	
OREAS 218 Cert	531	
OREAS 218 Meas	527	
OREAS 218 Cert	531	
OREAS 218 Meas	510	
OREAS 218 Cert	531	
OREAS 218 Meas	527	
OREAS 218 Cert	531	
OREAS 218 Meas	500	
OREAS 218 Cert	531	
OREAS 257 Meas		14.5
OREAS 257 Cert		14.18
OREAS 255 (Fire Assay) Meas		4.09
OREAS 255 (Fire Assay) Cert		4.08

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.03
Method Code	FA-AA	FA- GRA
Assay) Cert		
254452 Orig	8	
254452 Dup	7	
254458 Orig	8	
254458 Dup	10	
254470 Orig	12	
254470 Dup	12	
254486 Orig	< 5	
254486 Split PREP DUP	< 5	
254487 Orig	< 5	
254487 Dup	< 5	
254492 Orig	< 5	
254492 Dup	< 5	
254504 Orig	< 5	
254504 Dup	< 5	
254641 Orig	8	
254641 Dup	6	
254647 Orig	130	
254647 Dup	139	
254656 Orig	< 5	
254656 Split PREP DUP	< 5	
254658 Orig	15	
254658 Dup	6	
254675 Orig	7	
254675 Dup	6	
254681 Orig	12	
254681 Dup	7	
254693 Orig	6	
254693 Dup	7	
254706 Orig	7	
254706 Split PREP DUP	7	
254709 Orig	32	
254715 Orig	10	
254715 Dup	9	
254727 Orig	13	
254727 Dup	12	
254744 Orig	8	
254744 Dup	8	
254750 Orig	8	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.03
Method Code	FA-AA	FA- GRA
254750 Dup	8	
254756 Orig	6	
254756 Split PREP DUP	8	
254761 Orig	6	
254761 Dup	5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	5	
Method Blank		< 0.03



Date Submitted: 30-Aug-19
Invoice No.: A19-11628
Invoice Date: 10-Sep-19
Your Reference:

BTU Metals
581 Elgar Drive
Millbrook Ontario L0A1G0
Canada

ATTN: Doug Hunter

CERTIFICATE OF ANALYSIS

206 Rock samples were submitted for analysis.

The following analytical package(s) were requested:

Table with 2 columns: Sample ID, Analytical Package. Row 1: 1A2-Dryden, QOP AA-Au (Au - Fire Assay AA). Row 2: 1A3-Dryden, QOP AA-Au (Au - Fire Assay Gravimetric).

REPORT A19-11628

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Notes:

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

CERTIFIED BY:

Handwritten signature of Emmanuel Esemé

Emmanuel Esemé, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
264 Government Road, Dryden, Ontario, Canada, P8N 2R3
TELEPHONE +807 223-6168 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Dryden@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.03
Method Code	FA-AA	FA- GRA
254437	5	
254438	< 5	
254439	< 5	
254440	> 5000	8.35
254441	7	
254442	6	
254443	5	
254444	5	
254445	5	
254446	7	
254447	8	
254448	8	
254449	8	
254450	9	
254451	6	
254452	8	
254453	7	
254454	11	
254455	9	
254456	8	
254457	12	
254458	9	
254459	11	
254460	< 5	
254461	9	
254462	8	
254463	9	
254464	13	
254465	11	
254466	9	
254467	10	
254468	12	
254469	14	
254470	12	
254471	12	
254472	314	
254473	798	
254474	23	
254475	11	
254476	11	
254477	18	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.03
Method Code	FA-AA	FA- GRA
254478	11	
254479	9	
254480	< 5	
254481	6	
254482	5	
254483	< 5	
254484	< 5	
254485	< 5	
254486	< 5	
254487	< 5	
254488	< 5	
254489	< 5	
254490	5	
254491	< 5	
254492	< 5	
254493	6	
254494	< 5	
254495	< 5	
254496	< 5	
254497	< 5	
254498	8	
254499	6	
254500	1020	
254501	< 5	
254502	< 5	
254503	< 5	
254504	< 5	
254505	5	
254506	5	
254627	8	
254628	9	
254629	7	
254630	24	
254631	12	
254632	8	
254633	13	
254634	17	
254635	7	
254636	8	
254637	23	
254638	99	
254639	20	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.03
Method Code	FA-AA	FA- GRA
254640	< 5	
254641	7	
254642	29	
254643	6	
254644	5	
254645	10	
254646	47	
254647	135	
254648	82	
254649	142	
254650	5	
254651	21	
254652	63	
254653	11	
254654	< 5	
254655	< 5	
254656	< 5	
254657	< 5	
254658	11	
254659	8	
254660	14	
254661	156	
254662	102	
254663	9	
254664	20	
254665	9	
254666	12	
254667	7	
254668	< 5	
254669	< 5	
254670	5	
254671	10	
254672	7	
254673	50	
254674	8	
254675	7	
254676	6	
254677	< 5	
254678	13	
254679	7	
254680	> 5000	9.31

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.03
Method Code	FA-AA	FA- GRA
254681	10	
254682	6	
254683	7	
254684	7	
254685	7	
254686	9	
254687	8	
254688	16	
254689	6	
254690	8	
254691	< 5	
254692	8	
254693	7	
254694	6	
254695	9	
254696	15	
254697	14	
254698	15	
254699	11	
254700	5	
254701	8	
254702	9	
254703	10	
254704	21	
254705	7	
254706	7	
254707	8	
254708	9	
254709	32	
254710	8	
254711	10	
254712	7	
254713	8	
254714	8	
254715	10	
254716	9	
254717	12	
254718	10	
254719	18	
254720	8	
254721	8	
254722	7	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.03
Method Code	FA-AA	FA- GRA
254723	7	
254724	6	
254725	8	
254726	9	
254727	13	
254728	10	
254729	9	
254730	14	
254731	9	
254732	8	
254733	7	
254734	9	
254735	7	
254736	7	
254737	8	
254738	7	
254739	11	
254740	1080	
254741	14	
254742	9	
254743	8	
254744	8	
254745	8	
254746	6	
254747	10	
254748	8	
254749	8	
254750	8	
254751	10	
254752	8	
254753	7	
254754	8	
254755	7	
254756	6	
254757	11	
254758	14	
254759	8	
254760	5	
254761	6	
254762	6	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.03
Method Code	FA-AA	FA- GRA
OREAS 216 (Fire Assay) Meas		6.66
OREAS 216 (Fire Assay) Cert		6.66
OREAS 254 Fire Assay Meas	2580	
OREAS 254 Fire Assay Cert	2550	
OREAS 254 Fire Assay Meas	2580	
OREAS 254 Fire Assay Cert	2550	
OREAS 254 Fire Assay Meas	2550	
OREAS 254 Fire Assay Cert	2550	
OREAS 254 Fire Assay Meas	2550	
OREAS 254 Fire Assay Cert	2550	
OREAS 254 Fire Assay Meas	2560	
OREAS 254 Fire Assay Cert	2550	
OREAS 254 Fire Assay Meas	2560	
OREAS 254 Fire Assay Cert	2550	
OREAS 254 Fire Assay Meas	2550	
OREAS 254 Fire Assay Cert	2550	
OREAS 218 Meas	523	
OREAS 218 Cert	531	
OREAS 218 Meas	511	
OREAS 218 Cert	531	
OREAS 218 Meas	527	
OREAS 218 Cert	531	
OREAS 218 Meas	510	
OREAS 218 Cert	531	
OREAS 218 Meas	527	
OREAS 218 Cert	531	
OREAS 218 Meas	500	
OREAS 218 Cert	531	
OREAS 257 Meas		14.5
OREAS 257 Cert		14.18
OREAS 255 (Fire Assay) Meas		4.09
OREAS 255 (Fire Assay) Cert		4.08

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.03
Method Code	FA-AA	FA- GRA
Assay) Cert		
254452 Orig	8	
254452 Dup	7	
254458 Orig	8	
254458 Dup	10	
254470 Orig	12	
254470 Dup	12	
254486 Orig	< 5	
254486 Split PREP DUP	< 5	
254487 Orig	< 5	
254487 Dup	< 5	
254492 Orig	< 5	
254492 Dup	< 5	
254504 Orig	< 5	
254504 Dup	< 5	
254641 Orig	8	
254641 Dup	6	
254647 Orig	130	
254647 Dup	139	
254656 Orig	< 5	
254656 Split PREP DUP	< 5	
254658 Orig	15	
254658 Dup	6	
254675 Orig	7	
254675 Dup	6	
254681 Orig	12	
254681 Dup	7	
254693 Orig	6	
254693 Dup	7	
254706 Orig	7	
254706 Split PREP DUP	7	
254709 Orig	32	
254715 Orig	10	
254715 Dup	9	
254727 Orig	13	
254727 Dup	12	
254744 Orig	8	
254744 Dup	8	
254750 Orig	8	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.03
Method Code	FA-AA	FA- GRA
254750 Dup	8	
254756 Orig	6	
254756 Split PREP DUP	8	
254761 Orig	6	
254761 Dup	5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	5	
Method Blank		< 0.03



Date Submitted: 03-Sep-19
Invoice No.: A19-11637
Invoice Date: 20-Sep-19
Your Reference:

BTU Metals
581 Elgar Drive
Millbrook Ontario L0A1G0
Canada

ATTN: Doug Hunter

CERTIFICATE OF ANALYSIS

150 Rock samples were submitted for analysis.

The following analytical package(s) were requested:

Table with 2 columns: Sample ID and Analytical Package. Row 1: 1A2-Dryden, QOP AA-Au (Au - Fire Assay AA). Row 2: 1A3-Dryden, QOP AA-Au (Au - Fire Assay Gravimetric).

REPORT A19-11637

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Notes:

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

CERTIFIED BY:

Handwritten signature of Emmanuel Esemé

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
264 Government Road, Dryden, Ontario, Canada, P8N 2R3
TELEPHONE +807 223-6168 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Dryden@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.03
Method Code	FA-AA	FA- GRA
254507	< 5	
254508	< 5	
254509	< 5	
254510	< 5	
254511	5	
254512	< 5	
254513	< 5	
254514	< 5	
254515	< 5	
254516	< 5	
254517	< 5	
254518	19	
254519	< 5	
254520	< 5	
254521	< 5	
254522	< 5	
254523	< 5	
254524	< 5	
254525	< 5	
254526	< 5	
254527	< 5	
254528	< 5	
254529	< 5	
254530	6	
254531	5	
254532	< 5	
254533	< 5	
254534	< 5	
254535	< 5	
254536	< 5	
254537	< 5	
254538	< 5	
254539	< 5	
254540	< 5	
254541	< 5	
254542	< 5	
254543	< 5	
254544	< 5	
254545	< 5	
254546	< 5	
254547	< 5	
254548	< 5	
254549	< 5	
254550	< 5	
254551	< 5	
254552	< 5	
254553	< 5	
254554	< 5	
254555	< 5	
254556	< 5	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.03
Method Code	FA-AA	FA- GRA
254557	< 5	
254558	< 5	
254559	< 5	
254560	> 5000	8.35
254561	< 5	
254562	< 5	
254563	< 5	
254564	< 5	
254565	< 5	
254566	< 5	
254567	< 5	
254568	< 5	
254569	< 5	
254570	< 5	
254571	< 5	
254572	< 5	
254573	< 5	
254574	< 5	
254575	< 5	
254576	< 5	
254577	< 5	
254578	< 5	
254579	< 5	
254580	< 5	
254581	< 5	
254582	< 5	
254583	< 5	
254584	< 5	
254585	< 5	
254586	< 5	
254587	< 5	
254588	< 5	
254589	5	
254590	< 5	
254591	< 5	
254592	< 5	
254593	< 5	
254594	< 5	
254595	< 5	
254596	< 5	
254597	< 5	
254598	< 5	
254599	< 5	
254600	< 5	
254601	< 5	
254602	< 5	
254603	< 5	
254604	< 5	
254605	< 5	
254606	< 5	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.03
Method Code	FA-AA	FA- GRA
254607	< 5	
254608	< 5	
254609	< 5	
254610	< 5	
254611	< 5	
254612	< 5	
254613	< 5	
254614	< 5	
254615	< 5	
254616	< 5	
254617	< 5	
254618	< 5	
254619	< 5	
254620	1120	
254621	< 5	
254622	< 5	
254623	< 5	
254624	< 5	
254625	< 5	
254626	< 5	
254763	7	
254764	< 5	
254765	< 5	
254766	5	
254767	< 5	
254768	< 5	
254769	11	
254770	< 5	
254771	< 5	
254772	< 5	
254773	18	
254774	< 5	
254775	12	
254776	< 5	
254777	< 5	
254778	< 5	
254779	265	
254780	302	
254781	6	
254782	< 5	
0000871	6	
0000872	< 5	
0000873	< 5	
0000874	16	
0000875	33	
0000876	< 5	
0000877	67	
0000878	5	
0000879	53	
0000880	< 5	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.03
Method Code	FA-AA	FA- GRA
OREAS 216 (Fire Assay) Meas		6.67
OREAS 216 (Fire Assay) Cert		6.66
OREAS 254 Fire Assay Meas	2560	
OREAS 254 Fire Assay Cert	2550	
OREAS 254 Fire Assay Meas	2750	
OREAS 254 Fire Assay Cert	2550	
OREAS 254 Fire Assay Meas	2720	
OREAS 254 Fire Assay Cert	2550	
OREAS 254 Fire Assay Meas	2720	
OREAS 254 Fire Assay Cert	2550	
OREAS 218 Meas	542	
OREAS 218 Cert	531	
OREAS 218 Meas	568	
OREAS 218 Cert	531	
OREAS 218 Meas	571	
OREAS 218 Cert	531	
OREAS 218 Meas	554	
OREAS 218 Cert	531	
OREAS 257 Meas		14.4
OREAS 257 Cert		14.18
OREAS 255 (Fire Assay) Meas		4.14
OREAS 255 (Fire Assay) Cert		4.08
254522 Orig	< 5	
254522 Dup	< 5	
254529 Orig	< 5	
254529 Dup	< 5	
254540 Orig	< 5	
254540 Dup	< 5	
254556 Orig	< 5	
254556 Split PREP DUP	< 5	
254556 Split PREP DUP	< 5	
254574 Orig	< 5	
254574 Dup	< 5	
254583 Orig	< 5	
254583 Dup	< 5	
254591 Orig	< 5	
254591 Dup	< 5	
254598 Orig	< 5	
254598 Dup	5	
254606 Orig	< 5	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.03
Method Code	FA-AA	FA- GRA
254606 Split PREP DUP	< 5	
254608 Orig	< 5	
254608 Dup	< 5	
254625 Orig	< 5	
254625 Dup	< 5	
254768 Orig	< 5	
254768 Dup	< 5	
254779 Orig	285	
254779 Dup	245	
0000871 Orig	6	
0000871 Dup	5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank		< 0.03



Report No.: A19-12881
Report Date: 01-Nov-19
Date Submitted: 23-Sep-19
Your Reference:

BTU Metals
581 Elgar Drive
Millbrook Ontario L0A1G0
Canada

ATTN: Doug Hunter

CERTIFICATE OF ANALYSIS

214 Core samples were submitted for analysis.

Table with 2 columns: The following analytical package(s) were requested: and Testing Date:
1F2-Tbay | QOP Total (Total Digestion ICPOES) | 2019-10-09 19:00:07

REPORT A19-12881

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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:

[Handwritten signature]

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

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

Report No.: A19-12881
Report Date: 01-Nov-19
Date Submitted: 23-Sep-19
Your Reference:

BTU Metals
581 Elgar Drive
Millbrook Ontario L0A1G0
Canada

ATTN: Doug Hunter

CERTIFICATE OF ANALYSIS

214 Core samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-Dryden	QOP AA-Au (Au - Fire Assay AA)	2019-10-01 13:15:29
1A3-Dryden	QOP AA-Au (Au - Fire Assay Gravimetric)	2019-10-03 22:51:45

REPORT A19-12881

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Notes:

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

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

CERTIFIED BY:



Emmanuel Esemé, Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
264 Government Road, Dryden, Ontario, Canada, P8N 2R3
TELEPHONE +807 223-6168 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Dryden@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A19-12881

Analyte Symbol	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P
Unit Symbol	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%
Lower Limit	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001
Method Code	FA-AA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
254783	11	0.4	6.68	4	600	1	< 2	3.34	< 0.3	9	18	5	2.99	20	1	1.05	1.16	27	584	< 1	2.66	16	0.106
254784	124	0.5	6.24	< 3	494	1	2	2.92	< 0.3	8	23	4	2.97	22	< 1	1.21	0.77	23	613	< 1	3.02	9	0.120
254785	8	0.3	6.39	8	433	< 1	< 2	3.11	< 0.3	11	23	6	2.79	23	< 1	1.19	0.92	27	542	< 1	2.76	14	0.116
254786	6	0.5	6.13	10	434	< 1	< 2	2.63	0.3	16	20	47	3.19	23	1	1.13	0.92	30	508	1	2.47	19	0.121
254787	9	0.3	5.14	16	449	< 1	< 2	2.94	< 0.3	22	18	58	4.29	23	1	0.79	0.88	28	594	< 1	1.80	34	0.076
254788	8	< 0.3	5.89	20	471	< 1	< 2	2.60	< 0.3	12	17	2	2.04	21	1	1.19	0.62	20	458	< 1	2.47	13	0.109
254789	6	< 0.3	4.84	5	393	< 1	< 2	2.94	< 0.3	6	10	10	2.08	18	< 1	1.03	0.67	20	478	< 1	1.65	12	0.086
254790	5	< 0.3	3.40	9	424	< 1	< 2	2.43	< 0.3	8	11	4	2.18	16	< 1	0.83	0.78	25	436	< 1	1.76	16	0.098
254791	7	0.3	6.60	10	532	1	< 2	2.81	0.3	14	19	31	2.38	22	1	1.00	0.80	22	454	1	2.46	19	0.085
254792	9	0.4	7.77	12	405	1	< 2	2.36	0.4	12	17	26	2.24	23	1	1.21	0.64	20	421	< 1	3.04	16	0.048
254793	6	0.5	8.01	15	667	1	< 2	1.92	< 0.3	17	21	35	2.87	24	< 1	0.98	0.72	23	438	< 1	2.44	23	0.063
254794	10	< 0.3	7.62	6	555	< 1	< 2	3.74	0.4	12	14	12	3.51	21	< 1	1.16	0.97	29	690	2	2.73	15	0.131
254795	9	< 0.3	7.50	35	620	< 1	< 2	3.40	< 0.3	21	21	22	2.49	22	< 1	1.09	0.81	26	514	< 1	1.54	27	0.089
254796	8	0.5	6.92	34	713	1	2	2.13	< 0.3	21	34	32	2.58	26	< 1	0.76	0.73	25	391	2	1.88	37	0.094
254797	7	0.4	4.04	12	264	< 1	< 2	4.17	< 0.3	10	10	11	1.40	12	< 1	1.02	0.36	17	634	3	0.65	13	0.051
254798	7	0.4	7.03	22	407	1	< 2	3.18	< 0.3	16	30	24	3.02	21	< 1	0.88	0.89	22	610	1	2.15	28	0.091
254799	5	0.4	6.85	4	436	< 1	< 2	2.32	< 0.3	13	25	24	3.66	24	1	1.06	1.04	25	578	< 1	2.53	19	0.125
254800	> 5000	6.3	4.16	34	616	< 1	< 2	3.72	3.1	19	53	1810	4.66	15	1	1.08	1.80	9	1130	31	2.20	177	0.054
254801	8	0.3	6.47	10	481	< 1	< 2	3.99	< 0.3	12	28	16	4.33	18	< 1	1.14	1.82	22	894	< 1	2.05	19	0.126
254802	< 5	0.4	7.27	7	486	< 1	4	4.54	< 0.3	10	24	3	3.55	20	< 1	1.04	1.55	30	780	< 1	2.36	17	0.112
254803	5	< 0.3	7.51	22	599	< 1	< 2	4.35	< 0.3	20	64	20	4.15	20	< 1	1.12	1.89	31	747	< 1	2.42	48	0.100
254804	< 5	0.3	7.14	4	481	< 1	< 2	4.99	0.3	16	29	31	4.09	22	1	1.09	1.36	26	793	< 1	2.01	32	0.086
254805	11	0.3	7.41	50	696	< 1	< 2	5.14	0.5	23	93	4	4.88	22	< 1	1.30	2.20	37	856	< 1	1.36	71	0.097
254806	10	< 0.3	6.54	25	292	< 1	< 2	4.60	< 0.3	12	46	28	3.74	18	< 1	1.02	1.33	24	695	< 1	1.32	45	0.060
254807	8	< 0.3	7.61	72	453	< 1	< 2	3.32	< 0.3	19	64	19	3.97	20	< 1	1.14	1.35	26	531	< 1	1.63	67	0.065
254808	7	0.3	6.26	48	751	< 1	< 2	1.99	< 0.3	16	45	14	2.70	20	< 1	1.07	0.88	22	478	< 1	1.02	43	0.055
254809	6	< 0.3	4.09	18	221	< 1	< 2	2.17	< 0.3	8	20	< 1	1.58	12	< 1	0.64	0.53	15	244	1	1.05	17	0.035
254810	6	< 0.3	2.54	63	523	< 1	< 2	3.11	< 0.3	10	33	9	1.71	19	< 1	0.83	0.63	25	359	< 1	1.67	21	0.047
254811	17	0.4	6.12	23	447	1	< 2	3.89	< 0.3	14	59	6	2.89	20	< 1	0.96	1.01	28	504	< 1	2.19	33	0.085
254812	7	0.5	7.19	103	347	< 1	< 2	6.66	0.3	22	59	39	4.96	19	< 1	1.06	1.77	26	931	< 1	1.29	55	0.107
254813	8	0.4	8.02	35	550	< 1	< 2	5.72	< 0.3	19	43	9	4.01	23	3	1.22	1.39	26	835	< 1	1.55	49	0.100
254814	11	0.3	7.38	16	442	< 1	< 2	3.39	< 0.3	13	27	8	2.31	20	< 1	1.03	0.88	22	374	< 1	1.73	34	0.051
254815	11	< 0.3	7.26	101	378	< 1	< 2	5.48	0.5	19	56	32	3.74	20	1	1.14	1.55	28	630	< 1	1.60	49	0.082
254816	16	< 0.3	6.34	31	324	< 1	< 2	6.02	< 0.3	23	218	24	4.79	17	< 1	1.15	2.72	32	917	< 1	0.73	64	0.078
254817	< 5	< 0.3	7.32	16	405	< 1	< 2	3.80	< 0.3	15	36	19	3.46	20	< 1	1.03	1.20	28	591	< 1	1.60	33	0.084
254818	10	< 0.3	7.39	12	449	1	< 2	5.01	< 0.3	11	17	8	2.18	19	2	1.16	1.01	25	587	< 1	1.18	21	0.052
254819	< 5	< 0.3	7.71	6	535	< 1	< 2	3.42	< 0.3	11	23	11	2.71	23	< 1	0.97	1.04	26	505	< 1	1.56	22	0.062
254820	< 5	< 0.3	0.07	< 3	13	< 1	< 2	25.2	< 0.3	< 1	2	1	0.11	2	1	0.01	2.31	< 1	126	< 1	0.04	< 1	0.006
254821	5	0.4	6.99	22	398	< 1	3	6.42	< 0.3	19	32	36	4.47	19	< 1	1.16	1.59	25	888	< 1	1.45	42	0.094
254822	6	0.4	7.68	7	472	< 1	< 2	3.07	0.3	16	36	44	3.37	21	< 1	1.32	0.95	23	454	< 1	2.43	40	0.074
254823	5	0.4	6.55	26	485	< 1	< 2	6.38	< 0.3	29	207	47	4.80	15	< 1	1.39	3.86	36	845	< 1	1.55	117	0.069
254824	6	0.5	6.65	< 3	505	< 1	< 2	3.95	< 0.3	24	115	58	3.84	19	< 1	1.33	2.06	27	541	< 1	1.66	67	0.061
254825	7	0.4	6.89	19	419	< 1	< 2	3.87	< 0.3	25	128	83	4.06	19	< 1	1.58	2.00	28	604	< 1	2.25	75	0.078
254826	< 5	0.4	7.20	46	485	< 1	< 2	5.53	0.4	29	203	45	5.05	18	1	1.22	3.16	32	770	< 1	1.71	98	0.088
254827	< 5	< 0.3	4.20	35	446	< 1	< 2	6.29	< 0.3	38	371	62	4.76	15	< 1	1.36	3.86	36	861	< 1	1.38	130	0.074
254828	< 5	< 0.3	5.80	96	365	< 1	< 2	6.78	< 0.3	28	386	20	4.98	13	< 1	1.11	4.21	34	957	< 1	1.14	148	0.062
254829	10	0.4	7.01	12	428	< 1	< 2	4.48	< 0.3	23	110	64	4.14	18	< 1	1.17	1.76	24	696	< 1	2.63	49	0.095
254830	6	0.3	7.90	< 3	452	1	< 2	2.92	< 0.3	15	39	30	3.49	21	2	1.41	1.01	22	449	< 1	2.61	26	0.102
254831	6	0.4	7.93	5	502	1	< 2	4.52	< 0.3	18	33	42	3.49	23	< 1	1.53	1.48	26	615	< 1	1.81	32	0.085
254832	< 5	< 0.3	6.99	7	515	< 1	< 2	5.33	< 0.3	28	187	34	4.97	17	< 1	1.66	3.55	49	835	< 1	1.45	101	0.080
254833	< 5	< 0.3	6.61	9	577	< 1	< 2	5.46	< 0.3	28	155	59	4.65	17	< 1	1.50	3.25	38	797	< 1	1.74	84	0.084

Results

Activation Laboratories Ltd.

Report: A19-12881

Analyte Symbol	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P
Unit Symbol	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%
Lower Limit	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001
Method Code	FA-AA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
254834	5	< 0.3	6.50	< 3	498	< 1	< 2	6.50	< 0.3	30	189	83	5.19	16	< 1	1.59	4.07	40	924	< 1	1.73	103	0.088
254835	5	< 0.3	7.12	8	528	1	< 2	3.40	< 0.3	20	150	34	4.35	19	< 1	1.40	2.53	31	720	< 1	2.86	52	0.093
254836	< 5	0.5	4.47	< 3	423	< 1	< 2	2.00	< 0.3	17	18	26	4.08	21	< 1	1.21	0.92	27	933	< 1	3.51	17	0.112
254837	9	0.4	6.40	6	506	< 1	< 2	1.12	< 0.3	11	35	74	3.14	23	< 1	1.33	0.62	19	495	< 1	4.42	23	0.060
254838	6	< 0.3	6.50	38	80	< 1	< 2	5.85	0.4	49	239	70	8.47	16	5	0.54	4.32	40	1400	< 1	1.17	179	0.125
254839	48	< 0.3	7.39	17	225	< 1	< 2	6.45	0.4	50	104	109	7.15	16	< 1	0.66	3.16	29	1110	< 1	2.43	86	0.062
254840	36	< 0.3	7.19	12	220	< 1	< 2	6.45	< 0.3	50	90	111	7.04	16	< 1	0.64	3.13	30	1080	< 1	2.39	86	0.061
254841	18	< 0.3	6.49	11	469	< 1	< 2	6.43	< 0.3	33	73	101	7.87	17	2	1.74	3.03	44	1480	< 1	1.43	79	0.056
254842	11	0.5	7.04	< 3	450	1	< 2	1.45	< 0.3	3	13	16	2.82	21	1	1.51	0.46	22	544	2	2.70	4	0.071
254843	11	< 0.3	6.61	< 3	257	< 1	< 2	7.22	0.4	34	73	131	7.29	16	< 1	1.02	3.28	34	1220	< 1	1.79	86	0.053
254844	21	< 0.3	7.06	30	309	< 1	< 2	6.46	< 0.3	37	40	140	8.20	17	< 1	1.02	3.24	38	1230	< 1	1.72	66	0.058
254845	13	0.5	6.83	723	> 1000	2	< 2	3.78	< 0.3	18	43	38	3.82	22	< 1	1.78	1.82	37	664	< 1	2.61	40	0.147
254846	< 5	0.5	4.76	4	986	2	< 2	2.80	< 0.3	15	58	34	3.31	21	< 1	1.55	1.63	37	559	< 1	3.30	41	0.159
254847	< 5	0.5	6.60	382	> 1000	2	< 2	3.06	< 0.3	15	52	34	3.48	21	< 1	1.37	1.68	36	566	< 1	3.22	40	0.146
254848	43	< 0.3	6.77	12	240	< 1	< 2	5.74	0.3	29	45	74	8.31	16	4	0.89	2.79	35	1350	< 1	2.24	44	0.125
254849	8	< 0.3	6.78	< 3	187	< 1	< 2	4.62	0.4	18	1	3	8.01	19	< 1	0.58	1.92	25	1680	< 1	3.11	1	0.234
254850	< 5	< 0.3	6.70	4	124	< 1	2	4.66	< 0.3	17	4	2	7.90	19	< 1	0.35	1.84	22	1620	< 1	3.26	< 1	0.389
254851	< 5	< 0.3	6.49	< 3	119	< 1	< 2	4.60	< 0.3	20	6	1	8.08	19	< 1	0.39	1.94	23	1630	< 1	3.14	< 1	0.372
254852	22	< 0.3	6.54	4	361	< 1	< 2	4.70	< 0.3	18	5	4	7.67	20	< 1	1.04	1.84	32	1510	< 1	2.35	1	0.335
254853	< 5	< 0.3	6.28	< 3	140	< 1	< 2	4.79	< 0.3	18	10	10	7.74	18	1	0.48	1.85	23	1630	< 1	2.94	< 1	0.348
254854	< 5	< 0.3	6.63	< 3	218	1	< 2	4.49	< 0.3	22	99	25	6.72	20	1	0.56	2.12	28	1240	< 1	3.14	18	0.174
254855	< 5	< 0.3	7.36	4	305	< 1	< 2	5.82	< 0.3	23	3	15	7.21	18	< 1	1.03	1.61	33	1200	< 1	2.89	5	0.098
254856	6	0.3	7.77	4	240	< 1	< 2	5.72	< 0.3	25	40	28	7.30	19	< 1	1.11	1.89	36	1150	< 1	2.52	17	0.101
254857	8	< 0.3	7.97	3	312	< 1	< 2	5.73	< 0.3	25	3	54	7.76	20	< 1	1.23	1.76	39	1110	< 1	2.67	16	0.095
254858	107	< 0.3	6.34	< 3	259	< 1	< 2	6.96	< 0.3	44	10	188	8.72	18	< 1	0.94	2.51	31	1150	< 1	1.49	51	0.057
254859	20	< 0.3	6.66	< 3	186	< 1	< 2	7.20	0.5	42	12	200	10.5	19	7	0.57	2.75	34	1120	< 1	1.36	56	0.055
254860	> 5000	8.8	7.36	34	614	< 1	< 2	4.45	4.1	19	48	1940	5.23	16	2	1.14	1.88	10	1200	28	2.16	190	0.058
254861	87	< 0.3	5.65	< 3	182	< 1	< 2	7.97	< 0.3	40	8	225	10.1	16	< 1	0.74	2.62	30	1300	< 1	1.50	49	0.051
254862	10	< 0.3	5.71	7	106	< 1	< 2	6.96	< 0.3	43	13	220	10.5	17	4	0.52	2.79	30	1220	< 1	2.14	69	0.044
254863	10	< 0.3	4.27	< 3	200	< 1	< 2	6.36	0.4	44	20	231	9.87	17	< 1	0.72	2.87	34	1120	< 1	1.70	81	0.054
254864	16	< 0.3	5.15	4	195	< 1	< 2	7.71	< 0.3	39	19	219	9.00	15	< 1	0.74	3.00	32	1230	< 1	1.55	70	0.047
254865	6	0.3	6.45	< 3	121	< 1	< 2	6.18	0.3	41	30	287	9.10	16	< 1	0.82	2.98	34	1110	< 1	1.66	82	0.054
254866	14	< 0.3	7.00	< 3	117	< 1	< 2	7.09	< 0.3	35	21	143	7.78	17	1	0.50	3.03	32	1130	< 1	1.85	67	0.055
254867	36	< 0.3	6.25	7	96	< 1	< 2	8.10	0.4	29	18	105	6.45	14	< 1	0.36	2.98	31	1100	< 1	1.32	58	0.043
254868	140	< 0.3	6.37	< 3	111	< 1	< 2	7.94	0.4	35	20	224	7.40	16	< 1	0.42	3.12	30	1120	< 1	1.45	71	0.046
254869	29	< 0.3	7.00	8	101	< 1	< 2	7.28	0.4	36	19	135	7.00	16	< 1	0.44	3.65	33	1090	< 1	1.43	78	0.046
254870	12	< 0.3	7.46	< 3	156	< 1	< 2	6.60	< 0.3	33	17	100	6.41	17	2	0.55	3.37	33	937	< 1	1.59	74	0.050
254871	< 5	< 0.3	7.33	< 3	100	< 1	< 2	6.87	< 0.3	34	23	136	6.34	17	< 1	0.54	3.39	32	927	< 1	2.24	74	0.050
254872	7	< 0.3	6.39	< 3	162	< 1	< 2	8.03	1.1	31	33	114	6.06	15	< 1	0.55	3.51	34	1050	< 1	1.48	81	0.044
254873	5	< 0.3	4.71	< 3	45	< 1	< 2	7.34	< 0.3	35	47	140	6.20	15	< 1	0.12	3.63	31	1050	< 1	1.37	94	0.046
254874	7	< 0.3	5.52	< 3	20	< 1	< 2	7.32	< 0.3	35	65	143	6.63	15	< 1	0.12	3.57	30	1070	< 1	1.54	87	0.052
254875	5	< 0.3	8.00	4	249	< 1	< 2	6.06	< 0.3	31	95	51	6.74	17	< 1	0.71	2.97	40	922	< 1	2.56	73	0.068
254876	10	< 0.3	7.18	< 3	173	< 1	< 2	6.85	< 0.3	32	204	89	6.62	15	1	0.39	3.42	40	1020	< 1	2.11	101	0.062
254877	< 5	< 0.3	5.46	8	13	< 1	< 2	6.24	< 0.3	58	302	74	8.06	12	2	0.06	6.72	47	1190	< 1	0.27	364	0.052
254878	< 5	< 0.3	4.91	5	22	< 1	< 2	7.27	< 0.3	60	237	70	7.18	10	< 1	0.14	6.59	46	1320	< 1	0.02	369	0.049
254879	< 5	< 0.3	5.03	< 3	72	< 1	< 2	7.82	< 0.3	56	225	53	7.02	11	< 1	0.48	6.35	49	1370	< 1	0.15	358	0.047
254880	< 5	< 0.3	0.09	< 3	17	< 1	< 2	26.8	< 0.3	< 1	4	2	0.12	1	< 1	0.02	2.08	1	123	< 1	0.04	1	0.007
254881	9	< 0.3	5.66	< 3	< 7	< 1	< 2	5.90	< 0.3	62	261	63	8.13	11	< 1	0.04	7.10	51	1010	< 1	0.11	385	0.049
254882	8	< 0.3	7.18	< 3	180	< 1	< 2	6.67	< 0.3	32	50	114	6.38	16	< 1	0.51	3.39	43	994	< 1	2.32	84	0.052
254883	< 5	< 0.3	4.95	< 3	179	< 1	< 2	7.25	< 0.3	33	70	127	6.22	16	< 1	0.64	3.35	40	1030	< 1	1.65	91	0.052
254884	< 5	< 0.3	6.71	< 3	126	< 1	< 2	7.55	< 0.3	34	91	119	6.43	15	< 1	0.76	3.82	48	1090	< 1	1.37	85	0.055

Results

Activation Laboratories Ltd.

Report: A19-12881

Analyte Symbol	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P
Unit Symbol	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%
Lower Limit	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001
Method Code	FA-AA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
254885	< 5	< 0.3	7.71	12	56	< 1	< 2	6.61	< 0.3	31	94	107	6.98	17	< 1	0.18	2.87	33	1010	< 1	2.49	67	0.066
254886	< 5	< 0.3	7.41	5	30	< 1	< 2	7.89	< 0.3	32	115	107	6.73	16	< 1	0.12	3.07	30	1080	< 1	2.15	75	0.062
254887	5	< 0.3	6.75	< 3	16	< 1	< 2	6.88	< 0.3	39	180	89	7.31	15	< 1	0.09	4.11	34	1070	< 1	2.26	145	0.055
254888	< 5	< 0.3	6.17	< 3	43	< 1	< 2	5.33	< 0.3	50	198	80	8.07	14	< 1	0.28	5.31	35	1130	< 1	1.65	259	0.100
254889	< 5	< 0.3	7.24	< 3	387	< 1	< 2	3.53	< 0.3	17	41	21	4.56	21	< 1	1.13	1.44	37	856	< 1	2.61	35	0.106
254890	< 5	0.4	7.36	15	400	1	< 2	3.10	< 0.3	10	13	14	3.76	20	< 1	1.15	0.99	33	979	< 1	2.50	14	0.088
254891	5	0.4	7.79	10	305	< 1	< 2	3.33	< 0.3	13	19	16	3.87	22	< 1	0.90	0.79	20	758	< 1	2.52	24	0.094
254892	< 5	0.5	9.01	647	556	1	< 2	2.55	0.8	10	71	18	4.65	27	< 1	1.13	0.90	23	792	< 1	2.13	28	0.110
254893	10	0.5	7.19	905	63	< 1	< 2	0.88	0.8	30	47	119	7.61	21	< 1	1.28	0.83	19	630	1	1.03	73	0.044
254894	9	0.5	7.75	389	106	1	< 2	1.05	0.4	14	40	62	5.52	20	< 1	1.35	0.53	15	733	3	1.26	34	0.038
254895	9	0.5	6.92	126	76	1	< 2	0.98	< 0.3	15	17	108	6.34	19	< 1	1.41	0.41	13	634	< 1	1.13	47	0.042
254896	< 5	0.5	5.20	394	90	1	< 2	1.90	0.9	8	27	47	11.4	14	< 1	0.29	1.70	16	1400	< 1	0.74	29	0.058
254897	5	< 0.3	6.84	40	284	< 1	< 2	4.28	< 0.3	35	112	126	8.35	19	< 1	0.80	2.02	26	1110	< 1	1.62	98	0.055
254898	5	0.4	6.48	28	478	1	< 2	3.11	0.4	11	42	24	5.97	20	< 1	1.40	0.93	18	940	< 1	1.66	16	0.068
254899	5	0.5	5.04	82	691	2	< 2	1.13	< 0.3	14	47	40	3.93	21	< 1	1.47	0.67	24	610	3	1.42	26	0.047
254900	< 5	0.8	6.78	85	705	2	< 2	1.45	0.4	15	28	40	4.27	23	< 1	1.32	0.73	24	645	2	1.41	24	0.048
254901	< 5	0.4	6.91	99	324	1	< 2	3.97	0.6	13	37	40	3.78	19	< 1	1.31	0.63	22	679	2	1.50	32	0.040
254902	< 5	0.5	6.93	6	490	2	< 2	3.20	0.5	14	7	24	7.25	23	< 1	1.22	1.41	35	1210	< 1	0.77	7	0.158
254903	< 5	0.4	6.21	161	406	1	< 2	4.51	0.4	20	50	38	4.67	18	< 1	1.39	1.19	29	1170	< 1	0.42	27	0.071
254904	< 5	0.3	7.44	24	503	2	< 2	3.30	< 0.3	11	54	29	2.91	19	< 1	1.58	1.07	26	459	1	1.31	29	0.058
254905	< 5	0.4	7.89	135	497	2	< 2	2.36	0.3	14	67	31	2.42	23	< 1	1.32	0.75	24	322	2	2.04	37	0.059
254906	< 5	0.4	6.67	151	417	2	< 2	2.20	< 0.3	12	28	40	3.16	20	< 1	1.27	0.98	28	448	2	1.40	37	0.050
254907	< 5	0.4	6.63	48	432	1	< 2	2.11	< 0.3	10	23	26	2.45	19	< 1	2.53	1.15	30	376	1	1.55	21	0.044
254908	5	0.3	6.50	1360	482	1	< 2	1.69	< 0.3	9	54	16	2.52	19	2	2.20	0.85	26	419	2	1.02	22	0.044
254909	< 5	0.4	7.05	40	482	< 1	< 2	2.89	< 0.3	21	67	50	4.84	19	< 1	1.47	1.84	35	665	< 1	1.31	42	0.065
254910	< 5	0.6	5.69	23	464	< 1	< 2	1.08	< 0.3	7	33	35	1.72	18	< 1	1.56	0.47	20	261	4	0.45	13	0.037
254911	< 5	< 0.3	7.15	11	412	< 1	< 2	2.29	< 0.3	7	11	36	1.81	21	< 1	1.39	0.28	16	269	< 1	2.49	13	0.039
254912	< 5	0.5	7.28	38	387	1	< 2	2.29	< 0.3	14	19	40	3.71	20	1	1.33	0.78	26	445	< 1	1.49	29	0.043
254913	< 5	0.3	7.08	66	384	1	< 2	2.26	< 0.3	9	43	16	3.27	20	< 1	1.56	0.76	25	554	< 1	0.59	16	0.049
254914	< 5	0.4	7.41	34	421	1	< 2	2.71	< 0.3	10	15	24	2.96	22	< 1	1.59	0.67	24	486	< 1	0.97	18	0.053
254915	< 5	0.4	7.23	72	499	1	< 2	1.85	< 0.3	14	50	27	2.97	20	< 1	1.54	0.55	18	504	< 1	1.32	29	0.057
254916	< 5	0.4	7.40	115	498	1	< 2	1.88	< 0.3	13	52	35	3.74	21	< 1	1.44	0.74	17	576	1	1.73	30	0.049
254917	< 5	0.4	6.12	82	371	< 1	< 2	5.40	0.4	23	58	61	5.92	17	< 1	1.38	1.78	28	1040	< 1	1.62	61	0.049
254918	< 5	< 0.3	7.06	40	522	< 1	< 2	2.24	< 0.3	11	82	29	2.92	23	< 1	1.83	0.77	18	402	< 1	1.77	25	0.045
254919	< 5	< 0.3	7.57	61	259	< 1	< 2	5.77	< 0.3	32	103	76	5.61	17	< 1	0.98	3.04	29	920	< 1	1.66	82	0.060
254920	> 5000	99.5	3.94	208	258	< 1	8	2.42	25.8	19	97	4380	9.22	13	1	1.27	1.26	18	1440	53	1.61	124	0.066
254921	8	< 0.3	5.24	101	156	< 1	< 2	4.10	0.3	19	63	75	8.56	13	< 1	0.84	2.17	20	1380	5	0.85	53	0.054
254922	5	0.4	5.54	114	136	< 1	< 2	0.88	0.4	8	52	32	12.9	14	2	0.61	1.45	16	1540	< 1	0.59	27	0.044
254923	< 5	0.4	5.70	40	101	1	< 2	1.21	0.4	3	29	13	13.6	14	2	0.17	1.56	15	1370	7	0.55	22	0.049
254924	< 5	0.4	5.07	196	152	1	< 2	1.47	< 0.3	6	26	22	11.3	15	< 1	0.72	1.39	13	1080	3	0.58	24	0.067
254925	8	0.5	7.29	98	249	1	< 2	2.17	0.3	18	29	44	4.91	23	1	1.32	0.89	17	687	1	1.55	39	0.041
254926	7	0.6	7.53	81	162	1	< 2	2.55	< 0.3	19	39	49	5.85	21	< 1	1.01	0.88	16	885	1	1.52	47	0.035
254927	6	0.6	7.45	121	160	1	< 2	2.31	0.4	19	35	45	4.96	22	< 1	1.23	0.76	15	819	< 1	1.45	40	0.037
254928	7	0.6	7.02	81	192	1	< 2	2.54	0.3	17	32	47	4.79	22	< 1	1.22	0.73	15	879	2	1.28	40	0.037
254929	< 5	0.4	6.87	140	204	1	< 2	2.73	0.5	21	32	54	5.12	20	1	1.18	0.73	17	753	1	1.31	44	0.036
254930	6	0.4	6.91	78	321	1	< 2	2.16	< 0.3	12	26	29	3.18	21	< 1	2.00	0.59	16	512	3	1.27	26	0.041
254931	8	0.4	6.13	51	316	1	< 2	2.55	< 0.3	12	46	32	3.99	19	< 1	1.46	0.66	15	584	< 1	1.57	26	0.041
254932	5	0.4	7.35	42	457	1	< 2	1.63	< 0.3	10	23	18	3.22	20	< 1	1.73	0.81	20	496	1	1.07	22	0.044
254933	7	0.4	6.50	109	384	1	< 2	1.38	< 0.3	15	48	51	4.03	21	< 1	1.30	1.14	24	541	1	1.06	37	0.041
254934	10	0.5	7.50	254	314	1	< 2	2.07	< 0.3	17	46	56	4.14	21	< 1	1.51	1.09	24	591	< 1	1.19	46	0.043
254935	12	0.5	8.32	361	293	1	< 2	2.10	< 0.3	18	57	56	4.90	24	< 1	1.53	1.32	25	587	< 1	1.55	57	0.047

Results

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Analyte Symbol	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P
Unit Symbol	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%
Lower Limit	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001
Method Code	FA-AA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
254936	< 5	< 0.3	6.89	115	229	< 1	< 2	4.83	0.3	32	116	55	6.76	20	1	1.40	3.35	36	1220	< 1	1.03	65	0.105
254937	9	0.5	6.78	54	379	1	< 2	2.24	0.4	14	29	39	3.69	19	< 1	1.19	1.08	20	589	1	1.32	34	0.038
254938	9	0.5	6.43	110	202	1	< 2	2.61	0.7	13	26	72	7.64	17	< 1	1.86	1.35	21	969	1	1.05	37	0.048
254939	< 5	0.5	7.05	32	574	< 1	< 2	2.11	0.5	13	33	28	2.93	20	< 1	2.59	1.32	17	592	< 1	1.07	29	0.043
254940	< 5	< 0.3	0.07	< 3	16	< 1	< 2	26.3	< 0.3	< 1	2	2	0.11	2	< 1	0.02	2.24	< 1	123	< 1	0.04	1	0.007
254941	< 5	0.4	7.18	59	572	< 1	< 2	3.15	< 0.3	18	59	41	3.49	20	1	1.81	1.40	16	732	< 1	1.10	43	0.058
254942	5	0.4	4.59	137	491	1	< 2	3.48	< 0.3	30	164	71	4.88	20	< 1	1.11	1.50	21	942	< 1	0.98	72	0.061
254943	< 5	0.4	7.02	88	405	1	< 2	2.30	< 0.3	19	54	33	4.23	22	< 1	1.15	1.17	19	692	< 1	1.94	40	0.061
254944	< 5	< 0.3	7.90	38	400	< 1	< 2	2.43	0.5	17	57	31	3.57	23	< 1	1.54	1.02	16	535	< 1	2.15	31	0.057
254945	< 5	0.4	7.38	91	507	1	< 2	2.91	< 0.3	19	69	52	4.82	21	2	1.36	1.53	21	723	< 1	1.93	51	0.060
254946	8	0.5	7.57	158	498	1	< 2	1.51	0.3	18	29	46	3.79	22	< 1	1.40	0.95	18	585	< 1	1.44	37	0.058
254947	< 5	< 0.3	7.14	32	353	< 1	< 2	3.30	< 0.3	15	40	39	3.99	17	< 1	1.43	1.62	22	625	< 1	2.07	31	0.045
254948	6	0.4	6.97	200	461	< 1	< 2	1.82	0.4	10	18	23	2.65	21	< 1	1.37	0.72	17	375	2	1.87	18	0.061
254949	< 5	0.4	6.76	78	442	< 1	< 2	2.38	< 0.3	12	20	24	2.71	20	< 1	1.69	0.79	17	494	< 1	1.86	19	0.061
254950	< 5	< 0.3	6.81	91	511	< 1	< 2	3.09	0.8	13	43	22	3.02	19	< 1	2.14	1.16	20	627	< 1	1.87	30	0.066
254951	< 5	0.3	6.63	35	322	< 1	< 2	4.03	< 0.3	16	41	55	3.83	20	< 1	1.93	1.24	23	737	< 1	1.72	32	0.055
254952	< 5	0.3	5.01	20	368	< 1	< 2	1.78	< 0.3	8	26	18	1.89	22	< 1	1.44	0.54	15	419	2	1.47	19	0.059
254953	< 5	0.6	4.80	51	83	< 1	< 2	2.41	< 0.3	12	33	68	13.3	13	5	1.03	0.92	18	2050	< 1	1.02	49	0.039
254954	< 5	< 0.3	6.12	7	200	< 1	< 2	3.64	< 0.3	2	24	11	10.9	14	< 1	0.89	1.57	19	3500	< 1	1.88	18	0.033
254955	< 5	< 0.3	7.02	< 3	239	< 1	< 2	3.45	< 0.3	13	39	31	8.02	15	< 1	1.06	1.36	21	1990	< 1	2.54	35	0.040
254956	< 5	< 0.3	7.25	6	249	< 1	< 2	3.48	< 0.3	28	64	45	5.18	18	< 1	1.20	0.92	19	984	< 1	2.91	64	0.047
254957	< 5	< 0.3	6.62	< 3	225	< 1	< 2	3.60	< 0.3	21	65	32	5.83	18	< 1	1.20	1.14	21	1420	< 1	2.75	53	0.036
254958	13	0.4	5.24	< 3	138	< 1	< 2	3.60	0.4	14	86	99	12.4	12	2	0.75	1.52	17	3170	< 1	1.98	51	0.033
254959	< 5	< 0.3	5.44	5	185	< 1	< 2	3.67	< 0.3	15	137	49	13.2	13	< 1	0.86	1.82	17	5070	< 1	1.57	59	0.031
254960	6	< 0.3	5.40	3	185	< 1	< 2	3.67	0.3	16	135	50	13.4	13	2	0.88	1.84	17	5110	< 1	1.55	61	0.030
254961	19	0.3	2.64	12	80	< 1	< 2	2.68	0.7	13	45	73	21.3	4	< 1	0.33	1.75	6	8050	< 1	0.62	60	0.022
254962	< 5	< 0.3	5.84	38	161	< 1	< 2	4.04	< 0.3	24	141	47	13.2	13	2	0.64	2.04	17	4760	< 1	1.05	77	0.031
254963	36	< 0.3	5.68	> 5000	166	< 1	< 2	3.07	0.4	21	15	21	11.4	15	< 1	0.97	1.52	15	4090	< 1	1.14	26	0.032
254964	9	0.6	4.46	15	118	< 1	4	2.49	0.4	17	80	94	21.5	9	3	0.55	1.49	13	5460	< 1	1.18	71	0.029
254965	< 5	< 0.3	5.27	12	216	< 1	< 2	3.86	< 0.3	11	36	27	12.7	12	3	0.68	1.61	17	4610	< 1	1.34	44	0.033
254966	< 5	< 0.3	5.92	29	233	< 1	< 2	3.61	0.3	7	14	15	12.9	13	2	0.84	1.68	16	5150	< 1	1.38	22	0.030
254967	< 5	< 0.3	6.48	6	260	< 1	< 2	4.57	< 0.3	5	15	16	1.70	17	< 1	1.06	0.54	10	727	< 1	2.04	10	0.033
254968	< 5	< 0.3	6.60	62	370	< 1	< 2	3.67	< 0.3	7	29	33	4.00	20	< 1	1.51	1.03	19	751	< 1	1.47	23	0.048
254969	< 5	< 0.3	5.12	27	325	< 1	< 2	2.64	< 0.3	12	34	20	2.50	23	< 1	0.97	0.82	16	517	< 1	3.50	23	0.054
254970	7	< 0.3	7.35	29	293	< 1	< 2	2.81	0.8	14	38	27	3.45	21	< 1	1.32	0.91	16	538	< 1	2.70	29	0.058
254971	6	< 0.3	6.80	128	248	< 1	< 2	2.90	0.7	15	40	33	3.69	19	< 1	1.06	0.95	14	517	1	1.93	33	0.052
254972	6	< 0.3	7.52	128	317	< 1	< 2	3.45	< 0.3	19	89	30	3.66	22	< 1	1.19	1.18	16	590	2	1.87	46	0.064
254973	< 5	< 0.3	5.96	31	218	< 1	< 2	5.86	< 0.3	11	35	25	5.65	15	< 1	0.88	2.19	18	1130	< 1	1.56	29	0.046
254974	23	< 0.3	7.72	37	359	< 1	< 2	2.60	< 0.3	14	39	29	3.76	21	< 1	1.44	0.79	13	533	< 1	2.40	31	0.055
254975	< 5	< 0.3	6.99	184	356	< 1	< 2	4.67	< 0.3	21	86	35	5.02	20	< 1	1.61	1.57	21	981	1	1.59	66	0.057
254976	< 5	< 0.3	7.31	129	516	< 1	< 2	2.50	< 0.3	16	47	25	2.91	21	< 1	2.03	0.82	15	518	< 1	1.72	41	0.052
254977	< 5	0.3	7.37	1800	423	< 1	< 2	3.15	< 0.3	16	53	22	3.72	24	6	1.67	1.09	16	776	3	1.72	41	0.058
254978	< 5	< 0.3	7.15	10	280	< 1	< 2	3.91	< 0.3	7	23	21	5.50	17	< 1	0.85	1.42	20	1350	< 1	1.83	17	0.040
254979	< 5	< 0.3	4.94	17	367	< 1	< 2	4.20	0.6	11	22	17	4.11	20	< 1	1.00	1.18	17	1420	1	2.09	17	0.038
254980	< 5	< 0.3	0.06	< 3	14	< 1	< 2	26.8	< 0.3	< 1	10	3	0.11	2	< 1	0.02	2.40	< 1	174	< 1	0.04	1	0.007
254981	< 5	0.5	6.78	51	112	< 1	< 2	3.72	< 0.3	8	22	21	8.36	18	< 1	0.92	1.21	16	1500	1	2.01	28	0.034
254982	< 5	0.3	6.86	1440	270	< 1	< 2	4.31	< 0.3	11	26	24	6.30	16	3	0.74	1.41	18	1850	< 1	1.87	22	0.040
254983	< 5	< 0.3	7.63	7	343	< 1	< 2	3.67	< 0.3	9	24	25	3.03	19	< 1	1.09	0.77	16	747	< 1	2.85	17	0.046
254984	< 5	< 0.3	7.33	8	329	< 1	< 2	3.74	< 0.3	9	21	25	3.75	18	< 1	1.05	0.94	18	995	< 1	2.81	19	0.043
254985	5	0.3	6.89	8	327	< 1	< 2	3.62	< 0.3	16	43	29	3.95	17	< 1	1.18	1.08	17	953	< 1	2.61	39	0.042
254986	< 5	< 0.3	6.65	32	305	< 1	< 2	4.51	< 0.3	15	37	22	3.81	17	6	1.21	1.32	18	954	< 1	2.76	41	0.042

Results

Activation Laboratories Ltd.

Report: A19-12881

Analyte Symbol	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	P
Unit Symbol	ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	%
Lower Limit	5	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	0.001
Method Code	FA-AA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
254987	< 5	< 0.3	7.78	34	384	< 1	< 2	3.34	< 0.3	17	41	29	3.37	20	1	1.34	0.96	18	757	< 1	2.86	39	0.050
254988	< 5	< 0.3	5.28	25	241	< 1	< 2	4.53	< 0.3	18	51	42	3.88	17	< 1	0.79	1.12	16	843	< 1	2.70	36	0.047
254989	< 5	< 0.3	6.84	40	271	< 1	< 2	5.77	< 0.3	29	75	50	6.86	19	< 1	0.90	2.05	23	1410	< 1	1.68	55	0.078
254990	< 5	< 0.3	7.73	34	261	< 1	< 2	5.36	< 0.3	25	61	35	4.91	19	< 1	1.00	1.82	17	999	< 1	2.25	60	0.056
254991	< 5	< 0.3	7.42	21	221	< 1	< 2	4.39	< 0.3	15	30	48	3.47	20	< 1	1.20	1.69	22	630	< 1	2.77	37	0.050
254992	< 5	0.4	7.77	153	340	< 1	< 2	2.67	0.6	43	53	46	4.38	21	< 1	1.39	0.95	15	685	3	2.25	129	0.052
254993	< 5	< 0.3	6.91	31	281	< 1	< 2	5.81	< 0.3	42	153	64	7.54	19	< 1	0.64	2.93	18	1230	< 1	1.69	173	0.097
254994	< 5	< 0.3	6.55	55	192	< 1	3	7.24	< 0.3	41	139	74	8.09	18	3	0.45	2.19	18	1780	< 1	1.83	142	0.088
254995	< 5	< 0.3	6.86	< 3	167	< 1	< 2	6.70	< 0.3	49	196	98	8.62	16	2	0.32	2.51	17	1460	< 1	1.67	188	0.058
254996	< 5	< 0.3	6.73	6	120	< 1	< 2	6.88	< 0.3	50	191	89	7.59	15	5	0.44	2.45	34	1390	< 1	1.62	194	0.057

Analyte Symbol	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Au
Unit Symbol	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne
Lower Limit	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5	0.03
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	FA- GRA
254783	7	< 5	0.01	11	364	9	0.45	< 5	< 10	47	< 5	15	76	187	
254784	6	< 5	0.02	7	357	6	0.61	< 5	< 10	57	< 5	12	79	184	
254785	5	< 5	0.02	9	304	8	0.44	< 5	< 10	52	< 5	10	95	154	
254786	11	< 5	0.08	8	238	< 2	0.47	6	< 10	63	< 5	11	135	195	
254787	5	< 5	0.21	8	243	< 2	0.34	< 5	< 10	64	< 5	8	144	136	
254788	6	< 5	< 0.01	6	320	< 2	0.43	< 5	< 10	47	< 5	9	43	135	
254789	5	< 5	0.03	6	261	10	0.34	< 5	< 10	45	< 5	8	60	114	
254790	6	< 5	0.02	5	199	5	0.40	< 5	< 10	51	< 5	6	53	141	
254791	9	8	0.13	8	303	4	0.41	< 5	< 10	58	< 5	10	121	160	
254792	3	< 5	0.08	7	347	< 2	0.32	< 5	< 10	42	< 5	9	214	141	
254793	6	< 5	0.11	10	327	< 2	0.40	< 5	< 10	65	< 5	12	199	177	
254794	5	< 5	0.06	12	307	< 2	0.39	< 5	< 10	55	< 5	14	98	152	
254795	5	< 5	0.08	10	302	< 2	0.41	< 5	< 10	58	< 5	13	65	151	
254796	9	< 5	0.10	10	316	4	0.50	< 5	< 10	82	< 5	13	74	185	
254797	< 3	< 5	0.10	6	123	3	0.23	< 5	< 10	30	< 5	11	42	81	
254798	7	< 5	0.06	10	349	2	0.45	< 5	< 10	68	< 5	13	105	167	
254799	3	< 5	0.07	13	317	11	0.47	< 5	< 10	62	< 5	13	102	146	
254800	312	< 5	0.42	9	323	< 2	0.29	< 5	< 10	121	10	10	648	22	8.68
254801	4	< 5	0.04	12	307	6	0.54	< 5	< 10	66	< 5	13	109	134	
254802	4	7	0.01	12	390	8	0.45	< 5	< 10	56	< 5	15	71	147	
254803	3	< 5	0.04	16	332	< 2	0.43	< 5	< 10	76	< 5	13	93	131	
254804	5	< 5	0.18	12	347	3	0.40	< 5	< 10	72	< 5	15	122	143	
254805	4	< 5	0.02	16	289	6	0.34	< 5	< 10	83	< 5	15	111	140	
254806	< 3	< 5	0.04	14	268	< 2	0.32	< 5	< 10	68	< 5	11	90	116	
254807	7	< 5	0.04	14	320	< 2	0.35	< 5	< 10	80	< 5	11	93	136	
254808	10	< 5	0.04	10	210	< 2	0.33	< 5	< 10	69	< 5	9	77	126	
254809	4	< 5	0.02	5	191	3	0.19	< 5	< 10	34	< 5	5	35	41	
254810	6	< 5	0.06	< 4	147	< 2	0.29	< 5	< 10	50	< 5	3	55	113	
254811	5	< 5	0.03	6	314	10	0.44	< 5	< 10	67	< 5	9	68	184	
254812	5	< 5	0.05	17	268	< 2	0.43	< 5	< 10	105	< 5	14	83	149	
254813	6	< 5	0.02	13	335	3	0.36	< 5	< 10	70	< 5	15	82	169	
254814	10	< 5	0.01	8	373	< 2	0.25	< 5	< 10	41	< 5	8	50	121	
254815	7	< 5	0.05	12	349	< 2	0.29	< 5	< 10	65	< 5	12	90	131	
254816	< 3	< 5	0.02	16	201	< 2	0.23	< 5	< 10	69	< 5	14	96	106	
254817	6	< 5	0.05	13	365	< 2	0.25	< 5	< 10	56	< 5	12	78	131	
254818	7	< 5	< 0.01	8	325	< 2	0.25	< 5	< 10	33	< 5	11	51	115	
254819	7	8	0.03	9	332	< 2	0.26	< 5	< 10	39	< 5	11	75	127	
254820	< 3	< 5	< 0.01	< 4	61	4	< 0.01	< 5	< 10	< 2	< 5	2	2	< 5	
254821	6	< 5	0.04	13	335	< 2	0.43	< 5	< 10	73	< 5	14	85	147	
254822	7	< 5	0.15	10	388	< 2	0.37	< 5	< 10	64	< 5	11	67	154	
254823	7	< 5	0.08	22	432	11	0.28	< 5	< 10	101	< 5	11	60	91	
254824	< 3	< 5	0.41	14	411	< 2	0.30	< 5	< 10	78	< 5	10	61	112	
254825	4	< 5	0.18	16	431	< 2	0.25	< 5	< 10	81	< 5	12	59	110	
254826	< 3	< 5	0.09	22	546	3	0.31	< 5	< 10	107	< 5	12	68	116	
254827	3	< 5	0.14	14	457	4	0.28	< 5	< 10	109	< 5	7	52	68	
254828	< 3	< 5	0.04	22	403	< 2	0.26	< 5	< 10	93	< 5	10	75	73	
254829	< 3	< 5	0.23	15	490	< 2	0.43	< 5	< 10	79	< 5	12	62	125	
254830	< 3	< 5	0.17	13	559	< 2	0.47	< 5	< 10	67	< 5	13	64	144	
254831	7	< 5	0.07	12	568	8	0.34	< 5	< 10	64	< 5	14	57	158	
254832	< 3	< 5	0.04	22	319	< 2	0.29	< 5	< 10	103	< 5	11	60	98	

Analyte Symbol	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Au
Unit Symbol	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne
Lower Limit	3	5	0.01	4	1	2	0.01	5	10	5	1	1	5	5	0.03
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	FA- GRA
254833	4	< 5	0.09	18	327	9	0.30	< 5	< 10	98	< 5	11	60	103	
254834	< 3	< 5	0.24	23	427	4	0.32	< 5	< 10	114	< 5	12	65	92	
254835	< 3	< 5	0.15	14	372	6	0.32	< 5	< 10	81	< 5	14	74	131	
254836	< 3	< 5	0.05	8	223	< 2	0.52	< 5	< 10	99	< 5	7	95	168	
254837	< 3	< 5	0.08	8	320	2	0.39	< 5	< 10	69	< 5	8	59	178	
254838	< 3	< 5	0.02	28	370	10	0.46	< 5	< 10	183	< 5	18	123	65	
254839	< 3	< 5	0.17	27	498	< 2	0.40	< 5	< 10	153	< 5	14	86	47	
254840	< 3	< 5	0.18	27	493	< 2	0.31	< 5	< 10	135	< 5	13	84	42	
254841	< 3	< 5	0.38	27	370	< 2	0.35	< 5	< 10	152	< 5	15	137	58	
254842	4	< 5	0.27	11	309	4	0.41	< 5	< 10	19	< 5	20	95	217	
254843	4	< 5	0.16	27	457	< 2	0.14	< 5	< 10	86	< 5	12	105	21	
254844	6	< 5	0.20	30	500	< 2	0.20	< 5	< 10	115	< 5	13	111	27	
254845	7	< 5	0.36	9	571	< 2	0.39	< 5	< 10	79	< 5	10	104	181	
254846	7	< 5	0.17	5	633	< 2	0.42	< 5	< 10	76	< 5	5	90	198	
254847	10	7	0.32	8	652	10	0.38	< 5	< 10	74	< 5	9	83	194	
254848	4	< 5	0.14	26	627	< 2	0.35	< 5	< 10	139	< 5	20	107	62	
254849	4	5	0.07	20	389	7	0.39	< 5	< 10	80	< 5	38	144	39	
254850	< 3	< 5	0.09	19	435	< 2	0.66	< 5	< 10	80	< 5	37	136	90	
254851	< 3	< 5	0.09	19	364	5	0.54	< 5	< 10	78	< 5	35	141	67	
254852	< 3	< 5	0.13	19	463	< 2	0.51	< 5	< 10	82	< 5	37	132	79	
254853	< 3	< 5	0.11	19	359	< 2	0.50	< 5	< 10	81	< 5	38	130	83	
254854	< 3	< 5	0.20	16	499	< 2	0.25	< 5	< 10	73	< 5	26	112	72	
254855	4	< 5	0.16	18	571	3	0.21	< 5	< 10	86	< 5	23	100	55	
254856	< 3	< 5	0.20	19	470	3	0.53	< 5	< 10	157	< 5	19	106	68	
254857	< 3	< 5	0.21	20	469	< 2	0.41	< 5	< 10	160	< 5	21	96	71	
254858	< 3	< 5	0.73	26	429	< 2	0.53	< 5	< 10	261	< 5	12	86	42	
254859	3	< 5	0.36	31	392	< 2	0.24	< 5	< 10	217	< 5	13	105	26	
254860	315	< 5	0.42	18	442	3	0.29	< 5	< 10	131	15	18	676	21	8.23
254861	< 3	< 5	0.99	28	354	3	0.26	< 5	< 10	165	< 5	13	92	24	
254862	< 3	< 5	0.12	29	303	< 2	0.30	< 5	< 10	225	< 5	13	97	28	
254863	< 3	< 5	0.31	18	284	< 2	0.68	< 5	< 10	355	< 5	8	93	36	
254864	< 3	< 5	0.44	23	271	4	0.57	< 5	< 10	292	< 5	11	80	35	
254865	< 3	< 5	0.27	31	269	5	0.51	< 5	< 10	266	< 5	15	82	55	
254866	< 3	< 5	0.25	28	439	3	0.38	< 5	< 10	179	< 5	15	75	59	
254867	< 3	< 5	0.15	26	370	7	0.33	< 5	< 10	141	< 5	12	59	35	
254868	< 3	< 5	0.32	27	380	< 2	0.28	< 5	< 10	149	< 5	12	62	34	
254869	< 3	< 5	0.20	31	379	< 2	0.17	< 5	< 10	96	< 5	11	72	23	
254870	< 3	10	0.16	28	453	< 2	0.18	< 5	< 10	92	< 5	11	58	28	
254871	< 3	< 5	0.06	26	485	7	0.29	< 5	< 10	105	< 5	11	61	32	
254872	< 3	< 5	0.05	26	370	< 2	0.27	< 5	< 10	96	< 5	10	62	32	
254873	3	< 5	0.05	18	365	8	0.33	< 5	< 10	125	< 5	8	65	33	
254874	< 3	< 5	0.07	20	404	< 2	0.38	< 5	< 10	140	< 5	11	68	40	
254875	< 3	< 5	0.03	26	368	< 2	0.43	< 5	< 10	148	< 5	14	71	50	
254876	< 3	< 5	0.04	26	333	< 2	0.32	< 5	< 10	120	< 5	12	66	45	
254877	< 3	< 5	0.07	24	227	< 2	0.30	< 5	< 10	113	< 5	11	83	40	
254878	< 3	< 5	0.12	21	121	< 2	0.30	< 5	< 10	105	< 5	13	73	41	
254879	< 3	< 5	0.24	22	132	< 2	0.27	< 5	< 10	98	< 5	14	71	33	
254880	< 3	< 5	< 0.01	< 4	64	< 2	< 0.01	< 5	< 10	< 2	< 5	2	2	< 5	
254881	< 3	< 5	0.04	25	81	< 2	0.29	< 5	< 10	113	< 5	12	87	41	
254882	3	8	0.13	26	355	< 2	0.17	< 5	< 10	79	< 5	12	67	28	

Analyte Symbol	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Au
Unit Symbol	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne
Lower Limit	3	5	0.01	4	1	2	0.01	5	10	5	1	1	5	1	0.03
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	FA- GRA
254883	< 3	< 5	0.07	18	280	4	0.36	< 5	< 10	138	6	9	65	37	
254884	< 3	< 5	0.10	30	261	7	0.37	< 5	< 10	138	< 5	11	66	41	
254885	< 3	6	0.05	23	544	10	0.34	< 5	< 10	131	< 5	15	74	41	
254886	< 3	< 5	0.02	26	546	< 2	0.25	< 5	< 10	101	< 5	15	74	33	
254887	< 3	< 5	0.03	28	484	< 2	0.20	< 5	< 10	89	< 5	13	72	33	
254888	< 3	< 5	0.07	27	266	< 2	0.18	< 5	< 10	96	< 5	16	88	32	
254889	< 3	< 5	0.09	14	339	6	0.26	< 5	< 10	71	< 5	15	74	130	
254890	8	7	0.14	12	358	< 2	0.28	< 5	< 10	39	< 5	20	128	179	
254891	5	< 5	0.36	12	364	3	0.43	< 5	< 10	58	< 5	16	80	157	
254892	< 3	< 5	0.72	15	357	6	0.57	< 5	< 10	103	6	17	78	208	
254893	3	< 5	4.14	13	190	3	0.32	< 5	< 10	82	< 5	11	83	120	
254894	6	< 5	2.43	10	263	4	0.31	< 5	< 10	66	< 5	8	75	117	
254895	6	< 5	4.29	6	218	6	0.25	< 5	< 10	45	< 5	8	52	94	
254896	< 3	< 5	2.12	8	127	< 2	0.25	< 5	< 10	52	< 5	19	117	141	
254897	< 3	< 5	0.23	20	340	< 2	0.16	< 5	< 10	67	< 5	17	128	89	
254898	5	< 5	0.29	11	259	< 2	0.29	< 5	< 10	33	< 5	24	115	201	
254899	6	< 5	0.45	8	223	< 2	0.37	< 5	< 10	65	< 5	16	124	233	
254900	< 3	< 5	0.47	10	256	6	0.38	< 5	< 10	66	< 5	21	125	230	
254901	9	< 5	0.88	9	306	7	0.31	< 5	< 10	58	< 5	12	105	201	
254902	< 3	< 5	0.19	17	212	5	0.49	< 5	< 10	26	< 5	43	170	222	
254903	< 3	< 5	0.80	7	219	< 2	0.26	< 5	< 10	38	< 5	14	109	145	
254904	9	8	0.43	8	323	< 2	0.26	< 5	< 10	52	< 5	10	68	153	
254905	10	< 5	0.38	8	396	9	0.30	< 5	< 10	54	< 5	10	72	175	
254906	7	< 5	0.70	7	279	< 2	0.24	< 5	< 10	53	< 5	10	102	160	
254907	6	< 5	0.46	6	264	< 2	0.24	< 5	< 10	45	< 5	8	86	134	
254908	< 3	8	0.27	6	253	< 2	0.22	< 5	< 10	42	< 5	9	80	156	
254909	< 3	< 5	0.20	18	248	8	0.30	< 5	< 10	90	< 5	15	81	140	
254910	8	< 5	0.06	5	142	< 2	0.23	< 5	< 10	30	< 5	10	59	190	
254911	5	< 5	0.05	6	224	7	0.23	< 5	< 10	35	< 5	8	44	126	
254912	8	< 5	0.83	10	212	< 2	0.27	< 5	< 10	53	< 5	13	61	155	
254913	8	< 5	0.37	7	166	< 2	0.26	< 5	< 10	45	< 5	11	67	142	
254914	7	< 5	0.19	7	231	5	0.26	< 5	< 10	41	< 5	11	65	163	
254915	8	< 5	0.53	10	251	< 2	0.33	< 5	< 10	63	< 5	12	78	153	
254916	5	< 5	0.45	11	240	< 2	0.32	< 5	< 10	63	< 5	13	94	175	
254917	5	< 5	0.56	14	225	< 2	0.38	< 5	< 10	80	< 5	13	99	124	
254918	5	< 5	0.21	8	246	5	0.19	< 5	< 10	39	< 5	9	62	127	
254919	5	< 5	0.02	25	295	< 2	0.29	< 5	< 10	104	< 5	10	73	91	
254920	2290	20	1.77	8	221	< 2	0.21	< 5	< 10	144	7	8	3830	48	25.7
254921	< 3	5	1.96	12	159	< 2	0.21	< 5	< 10	66	< 5	10	99	88	
254922	7	6	1.66	10	93	< 2	0.25	< 5	< 10	58	< 5	12	124	114	
254923	5	< 5	0.71	10	95	< 2	0.27	< 5	< 10	61	8	13	171	119	
254924	< 3	< 5	1.27	8	120	< 2	0.23	< 5	< 10	53	< 5	11	91	111	
254925	5	< 5	1.52	13	193	< 2	0.34	< 5	< 10	73	5	11	149	174	
254926	7	8	2.09	15	186	< 2	0.35	< 5	< 10	80	< 5	14	115	167	
254927	5	< 5	1.74	13	172	< 2	0.36	< 5	< 10	78	< 5	13	119	171	
254928	8	< 5	1.76	12	161	< 2	0.34	< 5	< 10	74	< 5	14	118	201	
254929	7	< 5	2.00	12	170	< 2	0.32	< 5	< 10	71	< 5	12	180	154	
254930	5	< 5	1.14	9	165	< 2	0.26	< 5	< 10	53	< 5	9	117	150	
254931	7	5	1.22	8	190	2	0.28	< 5	< 10	58	< 5	8	83	126	
254932	7	6	0.48	8	159	3	0.26	< 5	< 10	48	< 5	10	91	148	

Analyte Symbol	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Au
Unit Symbol	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne
Lower Limit	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5	0.03
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	FA- GRA
254933	6	< 5	0.91	10	158	< 2	0.30	< 5	< 10	67	< 5	11	107	148	
254934	11	8	1.09	12	191	< 2	0.32	< 5	< 10	72	< 5	12	105	156	
254935	7	< 5	1.18	14	249	< 2	0.37	< 5	< 10	82	< 5	12	128	166	
254936	< 3	< 5	0.42	20	176	< 2	0.40	< 5	< 10	127	< 5	15	150	101	
254937	10	< 5	0.96	10	215	< 2	0.29	< 5	< 10	65	< 5	10	123	138	
254938	8	< 5	1.75	9	187	< 2	0.29	< 5	< 10	60	< 5	11	177	146	
254939	6	< 5	0.47	10	222	< 2	0.32	< 5	< 10	63	< 5	11	82	158	
254940	< 3	< 5	< 0.01	< 4	63	< 2	< 0.01	< 5	< 10	2	< 5	2	4	< 5	
254941	5	< 5	0.53	11	217	5	0.39	< 5	< 10	70	< 5	11	71	149	
254942	7	< 5	0.76	10	208	6	0.63	< 5	< 10	118	< 5	7	102	122	
254943	6	6	0.60	10	221	3	0.39	< 5	< 10	79	< 5	10	86	133	
254944	7	< 5	0.55	10	240	< 2	0.39	< 5	< 10	73	6	10	85	120	
254945	4	< 5	0.63	14	305	8	0.37	< 5	< 10	81	< 5	11	85	120	
254946	6	8	0.68	12	179	< 2	0.37	< 5	< 10	76	5	12	102	160	
254947	5	< 5	0.09	12	244	< 2	0.30	< 5	< 10	68	< 5	10	54	116	
254948	< 3	< 5	0.49	7	209	5	0.28	< 5	< 10	47	< 5	10	77	169	
254949	6	< 5	0.31	9	208	< 2	0.28	< 5	< 10	53	< 5	11	84	141	
254950	6	< 5	0.42	8	320	< 2	0.29	< 5	< 10	50	< 5	9	90	118	
254951	9	< 5	0.38	11	244	5	0.25	< 5	< 10	52	< 5	10	85	103	
254952	9	< 5	0.21	< 4	192	< 2	0.26	< 5	< 10	37	< 5	6	66	140	
254953	6	< 5	4.00	5	161	4	0.21	< 5	< 10	46	< 5	7	49	93	
254954	< 3	< 5	0.15	6	169	7	0.21	< 5	< 10	41	< 5	7	45	97	
254955	4	< 5	0.48	10	226	6	0.31	< 5	< 10	66	< 5	8	58	102	
254956	< 3	< 5	0.91	12	321	< 2	0.40	< 5	< 10	83	< 5	8	60	100	
254957	4	< 5	0.75	11	282	5	0.39	< 5	< 10	85	< 5	8	70	100	
254958	3	< 5	2.38	12	198	5	0.36	< 5	< 10	79	< 5	9	60	71	
254959	4	< 5	1.79	16	199	< 2	0.42	< 5	< 10	104	< 5	11	64	69	
254960	4	< 5	1.94	17	199	< 2	0.44	< 5	< 10	107	< 5	11	65	69	
254961	< 3	5	4.99	6	101	< 2	0.17	< 5	< 10	43	< 5	7	48	38	
254962	< 3	< 5	0.26	17	220	< 2	0.49	< 5	< 10	111	< 5	9	70	78	
254963	6	19	1.72	7	237	7	0.25	< 5	< 10	55	< 5	8	61	85	
254964	5	< 5	5.48	11	169	< 2	0.33	< 5	< 10	74	5	8	64	61	
254965	< 3	< 5	1.22	9	211	< 2	0.27	< 5	< 10	61	< 5	8	59	73	
254966	3	< 5	0.42	7	232	< 2	0.19	< 5	< 10	45	< 5	6	55	77	
254967	6	< 5	0.09	5	342	< 2	0.14	< 5	< 10	36	< 5	6	37	72	
254968	< 3	< 5	0.50	8	257	4	0.36	< 5	< 10	64	< 5	7	64	84	
254969	6	< 5	0.35	4	300	< 2	0.36	< 5	< 10	64	< 5	3	51	93	
254970	5	< 5	0.64	9	302	< 2	0.35	< 5	< 10	67	< 5	7	120	88	
254971	< 3	7	0.68	9	330	8	0.33	< 5	< 10	65	5	8	110	107	
254972	8	< 5	0.43	11	376	< 2	0.36	< 5	< 10	76	< 5	11	112	125	
254973	6	< 5	0.43	8	297	4	0.25	< 5	< 10	56	< 5	8	73	80	
254974	6	< 5	0.98	9	376	< 2	0.37	< 5	< 10	66	< 5	7	54	95	
254975	5	< 5	0.56	14	365	< 2	0.35	< 5	< 10	89	< 5	9	80	86	
254976	7	< 5	0.22	12	328	2	0.25	< 5	< 10	68	< 5	10	58	137	
254977	6	6	0.55	12	374	3	0.39	< 5	< 10	84	< 5	10	51	145	
254978	6	< 5	0.19	7	341	14	0.24	< 5	< 10	51	< 5	6	60	114	
254979	4	< 5	0.13	4	294	< 2	0.23	< 5	< 10	47	< 5	4	56	112	
254980	< 3	< 5	< 0.01	< 4	65	< 2	< 0.01	< 5	< 10	< 2	< 5	2	3	< 5	
254981	< 3	5	2.15	5	286	< 2	0.21	< 5	< 10	40	< 5	5	54	113	
254982	5	< 5	0.57	8	285	< 2	0.27	< 5	< 10	60	< 5	6	67	118	

Analyte Symbol	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr	Au
Unit Symbol	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne
Lower Limit	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5	0.03
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	FA- GRA
254983	< 3	13	0.04	8	366	< 2	0.16	< 5	< 10	39	< 5	6	48	101	
254984	< 3	< 5	0.08	8	327	4	0.18	< 5	< 10	44	< 5	6	57	89	
254985	< 3	5	0.25	10	273	12	0.23	< 5	< 10	55	< 5	7	58	100	
254986	13	< 5	0.22	9	276	< 2	0.16	< 5	< 10	40	6	8	48	85	
254987	< 3	< 5	0.25	10	325	< 2	0.26	< 5	< 10	55	< 5	8	53	113	
254988	< 3	< 5	0.15	8	255	5	0.32	< 5	< 10	72	< 5	7	78	117	
254989	< 3	< 5	0.24	19	254	< 2	0.46	< 5	< 10	121	< 5	12	105	103	
254990	< 3	< 5	0.08	17	338	12	0.25	< 5	< 10	77	< 5	10	72	89	
254991	< 3	< 5	0.15	11	227	6	0.25	< 5	< 10	70	< 5	8	42	109	
254992	6	< 5	0.70	13	346	< 2	0.42	< 5	< 10	95	< 5	9	93	137	
254993	< 3	< 5	0.12	22	399	< 2	0.15	< 5	< 10	48	< 5	15	96	58	
254994	< 3	< 5	0.11	24	276	< 2	0.15	< 5	< 10	49	< 5	15	90	45	
254995	< 3	< 5	0.13	29	234	< 2	0.16	< 5	< 10	65	< 5	14	97	34	
254996	< 3	< 5	0.19	29	224	< 2	0.15	< 5	< 10	72	5	12	91	37	

Analyte Symbol	Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni
Unit Symbol	ppb	g/tonne	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm
Lower Limit	5	0.03	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1
Method Code	FA-AA	FA- GRA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
SDC-1 Meas				8.01	< 3	631	3		1.10		17	51	30	4.77	25	1	2.00	1.00	39	927		1.48	37
SDC-1 Cert				8.34	0.220	630	3.00		1.00		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34	880.00		1.52	38.0
SDC-1 Meas				7.29	< 3	617	3		1.03		17	62	30	4.77	23	2	1.48	0.98	39	941		1.44	36
SDC-1 Cert				8.34	0.220	630	3.00		1.00		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34	880.00		1.52	38.0
SDC-1 Meas				8.67	< 3	666	3		1.11		18	52	30	4.91	22	< 1	1.86	1.02	35	908		1.53	37
SDC-1 Cert				8.34	0.220	630	3.00		1.00		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34	880.00		1.52	38.0
SDC-1 Meas				7.82	< 3	652	3		1.07		18	52	29	4.75	23	< 1	1.48	1.03	35	930		1.53	35
SDC-1 Cert				8.34	0.220	630	3.00		1.00		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34	880.00		1.52	38.0
SDC-1 Meas				7.63	4	634	3		1.07		17	54	30	4.75	22	< 1	1.49	1.05	36	916		1.60	35
SDC-1 Cert				8.34	0.220	630	3.00		1.00		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34	880.00		1.52	38.0
SDC-1 Meas				6.40	< 3	565	3		0.92		18	58	29	4.42	21	< 1	1.05	1.01	35	883		1.54	33
SDC-1 Cert				8.34	0.220	630	3.00		1.00		18.0	64.00	30.000	4.82	21.00	0.20	2.72	1.02	34	880.00		1.52	38.0
Oreas 72a (4 Acid Digest) Meas					14						159	177	345	9.65									6910
Oreas 72a (4 Acid Digest) Cert					14.7						157	228	316	9.63									6930.00
Oreas 72a (4 Acid Digest) Meas					5						151	191	333	9.36									6600
Oreas 72a (4 Acid Digest) Cert					14.7						157	228	316	9.63									6930.00
Oreas 72a (4 Acid Digest) Meas					8						156	174	310	9.39									6460
Oreas 72a (4 Acid Digest) Cert					14.7						157	228	316	9.63									6930.00
Oreas 72a (4 Acid Digest) Meas					3						159	218	329	9.47									6740
Oreas 72a (4 Acid Digest) Cert					14.7						157	228	316	9.63									6930.00
Oreas 72a (4 Acid Digest) Meas					< 3						150	160	316	9.50									6250
Oreas 72a (4 Acid Digest) Cert					14.7						157	228	316	9.63									6930.00
OREAS 98 (4 Acid) Meas			43.5					< 2			122		> 10000										
OREAS 98 (4 Acid) Cert			45.1					97.2			121		14800.0										
OREAS 98 (4 Acid) Meas			42.1					< 2			115		> 10000										
OREAS 98 (4 Acid) Cert			45.1					97.2			121		14800.0										
OREAS 98 (4 Acid) Meas			43.7					59			124		> 10000										
OREAS 98 (4 Acid) Cert			45.1					97.2			121		14800.0										
OREAS 98 (4 Acid) Meas			43.3					28			121		> 10000										
OREAS 98 (4 Acid) Cert			45.1					97.2			121		14800.0										
OREAS 98 (4 Acid) Meas			44.0					19			121		> 10000										
OREAS 98 (4 Acid) Cert			45.1					97.2			121		14800.0										
DNC-1a Meas						96			7.62		52	224	101	7.08	13				5			1.38	256
DNC-1a Cert						118			8.21		57	270	100	6.97	15				5.2			1.40	247
DNC-1a Meas						101			7.78		56	226	102	7.09	12				4			1.45	253

Analyte Symbol	Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni
Unit Symbol	ppb	g/tonne	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm
Lower Limit	5	0.03	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1
Method Code	FA-AA	FA- GRA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
DNC-1a Cert						118			8.21		57	270	100	6.97	15				5.2			1.40	247
DNC-1a Meas						103			7.43		53	186	100	7.02	14				5			1.50	244
DNC-1a Cert						118			8.21		57	270	100	6.97	15				5.2			1.40	247
DNC-1a Meas						103			7.45		53	174	100	7.06	14				5			1.48	247
DNC-1a Cert						118			8.21		57	270	100	6.97	15				5.2			1.40	247
DNC-1a Meas						102			7.35		53	231	111	6.94	13				5			1.49	245
DNC-1a Cert						118			8.21		57	270	100	6.97	15				5.2			1.40	247
OREAS 904 (4 ACID) Meas			1.0	6.52	104	207	10	9	0.05		99	63	6190	6.86	19		3.20	0.57	15	456	1	0.04	46
OREAS 904 (4 ACID) Cert			0.551	6.30	98.0	194	7.86	4.05	0.0460		83.0	54.0	6120	6.68	16.7		3.31	0.556	16.7	410	2.12	0.0340	40.1
OREAS 904 (4 ACID) Meas			0.6	6.08	95	202	9	< 2	0.05		98	58	6220	6.62	16		1.85	0.59	17	473	3	0.04	44
OREAS 904 (4 ACID) Cert			0.551	6.30	98.0	194	7.86	4.05	0.0460		83.0	54.0	6120	6.68	16.7		3.31	0.556	16.7	410	2.12	0.0340	40.1
OREAS 904 (4 ACID) Meas			0.6	6.08	93	168	9	3	0.05		98	61	6280	6.67	16		1.66	0.59	17	455	3	0.04	45
OREAS 904 (4 ACID) Cert			0.551	6.30	98.0	194	7.86	4.05	0.0460		83.0	54.0	6120	6.68	16.7		3.31	0.556	16.7	410	2.12	0.0340	40.1
SBC-1 Meas					36	603	3	< 2		0.5	22	103	34		29				165		2		93
SBC-1 Cert					25.7	788.0	3.20	0.70		0.40	22.7	109	31.0		27.0				163		2		83
SBC-1 Meas					31	499	3	< 2		0.3	21	90	34		26				174		1		90
SBC-1 Cert					25.7	788.0	3.20	0.70		0.40	22.7	109	31.0		27.0				163		2		83
SBC-1 Meas					34	752	3	6		0.8	21	76	31		25				146		< 1		84
SBC-1 Cert					25.7	788.0	3.20	0.70		0.40	22.7	109	31.0		27.0				163		2		83
SBC-1 Meas					15	563	3	< 2		0.5	21	78	29		28				164		1		85
SBC-1 Cert					25.7	788.0	3.20	0.70		0.40	22.7	109	31.0		27.0				163		2		83
SBC-1 Meas					17	761	3	< 2		0.4	21	74	32		28				167		2		87
SBC-1 Cert					25.7	788.0	3.20	0.70		0.40	22.7	109	31.0		27.0				163		2		83
SBC-1 Meas					14	588	3	< 2		0.3	21	83	31		26				167		1		83
SBC-1 Cert					25.7	788.0	3.20	0.70		0.40	22.7	109	31.0		27.0				163		2		83
OREAS 216 (Fire Assay) Meas		6.66																					
OREAS 216 (Fire Assay) Cert		6.66																					
OREAS 254 Fire Assay Meas	2560																						
OREAS 254 Fire Assay Cert	2550																						
OREAS 254 Fire Assay Meas	2630																						
OREAS 254 Fire Assay Cert	2550																						
OREAS 254 Fire Assay Meas	2600																						
OREAS 254 Fire Assay Cert	2550																						
OREAS 254 Fire Assay Meas	2610																						
OREAS 254 Fire Assay Cert	2550																						
OREAS 254 Fire Assay Meas	2620																						
OREAS 254 Fire Assay Cert	2550																						

Analyte Symbol	Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni
Unit Symbol	ppb	g/tonne	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm
Lower Limit	5	0.03	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1
Method Code	FA-AA	FA- GRA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
OREAS 254 Fire Assay Meas	2620																						
OREAS 254 Fire Assay Cert	2550																						
OREAS 254 Fire Assay Meas	2610																						
OREAS 254 Fire Assay Cert	2550																						
OREAS 218 Meas	509																						
OREAS 218 Cert	531																						
OREAS 218 Meas	528																						
OREAS 218 Cert	531																						
OREAS 218 Meas	501																						
OREAS 218 Cert	531																						
OREAS 218 Meas	523																						
OREAS 218 Cert	531																						
OREAS 218 Meas	505																						
OREAS 218 Cert	531																						
OREAS 218 Meas	501																						
OREAS 218 Cert	531																						
OREAS 218 Meas	516																						
OREAS 218 Cert	531																						
OREAS 96 (4 Acid) Meas			11.4					< 2			49		> 10000										
OREAS 96 (4 Acid) Cert			11.5					26.3			49.9		39300										
OREAS 96 (4 Acid) Meas			11.1					< 2			49		> 10000										
OREAS 96 (4 Acid) Cert			11.5					26.3			49.9		39300										
OREAS 96 (4 Acid) Meas			11.5					15			50		> 10000										
OREAS 96 (4 Acid) Cert			11.5					26.3			49.9		39300										
OREAS 96 (4 Acid) Meas			11.4					8			48		> 10000										
OREAS 96 (4 Acid) Cert			11.5					26.3			49.9		39300										
OREAS 96 (4 Acid) Meas			11.4					19			50		> 10000										
OREAS 96 (4 Acid) Cert			11.5					26.3			49.9		39300										
OREAS 923 (4 Acid) Meas			1.7	7.04	7	406	2	23	0.49	< 0.3	22	81	4570	6.50	22		1.76	1.74	34	1020	2	0.31	39
OREAS 923 (4 Acid) Cert			1.60	7.29	7.61	434	2.42	21.4	0.473	0.420	23.1	71.0	4230	6.43	20.3		2.51	1.69	31.4	950	0.930	0.324	35.8
OREAS 923 (4 Acid) Meas			2.7	7.07	11	360	2	< 2	0.49	0.5	23	77	4590	6.63	19		1.51	1.75	35	1030	< 1	0.31	38
OREAS 923 (4 Acid) Cert			1.60	7.29	7.61	434	2.42	21.4	0.473	0.420	23.1	71.0	4230	6.43	20.3		2.51	1.69	31.4	950	0.930	0.324	35.8
OREAS 923 (4 Acid) Meas			1.5	7.19	7	429	3	17	0.48	0.9	22	78	4280	6.37	21		2.43	1.66	30	934	< 1	0.31	38
OREAS 923 (4 Acid) Cert			1.60	7.29	7.61	434	2.42	21.4	0.473	0.420	23.1	71.0	4230	6.43	20.3		2.51	1.69	31.4	950	0.930	0.324	35.8
OREAS 923 (4 Acid) Meas			2.4	6.96	< 3	460	2	27	0.49	0.4	22	74	4310	6.45	19		1.84	1.78	32	1030	< 1	0.33	40

Analyte Symbol	Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni	
Unit Symbol	ppb	g/tonne	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm	
Lower Limit	5	0.03	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1	
Method Code	FA-AA	FA- GRA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	
OREAS 923 (4 Acid) Cert			1.60	7.29	7.61	434	2.42	21.4	0.473	0.420	23.1	71.0	4230	6.43	20.3		2.51	1.69	31.4	950	0.930	0.324	35.8	
OREAS 923 (4 Acid) Meas			1.8	7.06	6	443	2	11	0.49	0.6	22	75	4460	6.57	19		1.56	1.83	33	1010	< 1	0.34	42	
OREAS 923 (4 Acid) Cert			1.60	7.29	7.61	434	2.42	21.4	0.473	0.420	23.1	71.0	4230	6.43	20.3		2.51	1.69	31.4	950	0.930	0.324	35.8	
OREAS 923 (4 Acid) Meas			1.9	6.70	5	399	2	13	0.48	0.5	23	79	4330	6.42	19		1.51	1.78	32	987	< 1	0.33	42	
OREAS 923 (4 Acid) Cert			1.60	7.29	7.61	434	2.42	21.4	0.473	0.420	23.1	71.0	4230	6.43	20.3		2.51	1.69	31.4	950	0.930	0.324	35.8	
OREAS 621 (4 Acid) Meas			71.7	6.38	62		2	3	2.16	283	31	41	4030	3.74	26		0.73	0.52	15	537	13	1.33	31	
OREAS 621 (4 Acid) Cert			69.0	6.40	77.0		1.69	3.93	1.97	284	29.3	37.1	3630	3.70	24.6		2.20	0.507	14.2	532	13.6	1.31	26.2	
OREAS 621 (4 Acid) Meas			72.6	6.45	66		2	6	2.14	300	31	43	4030	3.78	27		1.56	0.53	15	553	14	1.32	30	
OREAS 621 (4 Acid) Cert			69.0	6.40	77.0		1.69	3.93	1.97	284	29.3	37.1	3630	3.70	24.6		2.20	0.507	14.2	532	13.6	1.31	26.2	
OREAS 621 (4 Acid) Meas			74.2	6.84	75		2	5	2.15	283	32	29	3920	3.91	25		2.24	0.53	14	518	12	1.38	28	
OREAS 621 (4 Acid) Cert			69.0	6.40	77.0		1.69	3.93	1.97	284	29.3	37.1	3630	3.70	24.6		2.20	0.507	14.2	532	13.6	1.31	26.2	
OREAS 621 (4 Acid) Meas			70.9	5.96	59		2	5	2.06	284	32	32	3780	3.66	25		1.58	0.52	15	571	14	1.38	29	
OREAS 621 (4 Acid) Cert			69.0	6.40	77.0		1.69	3.93	1.97	284	29.3	37.1	3630	3.70	24.6		2.20	0.507	14.2	532	13.6	1.31	26.2	
OREAS 621 (4 Acid) Meas			71.8	6.28	92		2	7	2.08	284	31	34	3700	3.70	27		1.20	0.53	15	520	13	1.39	31	
OREAS 621 (4 Acid) Cert			69.0	6.40	77.0		1.69	3.93	1.97	284	29.3	37.1	3630	3.70	24.6		2.20	0.507	14.2	532	13.6	1.31	26.2	
OREAS 257 Meas		14.0																						
OREAS 257 Cert		14.18																						
OREAS 255 (Fire Assay) Meas		4.09																						
OREAS 255 (Fire Assay) Cert		4.08																						
Oreas 77b (4 Acid Digest) Meas			1.5	1.53	1390	26	< 1	8	2.59	0.6	1400	225	3100	25.2	9		0.29	2.24	18	586		0.37	> 10000	
Oreas 77b (4 Acid Digest) Cert			1.62	1.94	2050	118	0.470	3.44	3.06	1.20	1550	280	3430	29.9	4.61		0.361	2.59	18.8	640		0.434	113000	
Oreas 77b (4 Acid Digest) Meas			1.7	1.72	1580	18	< 1	5	2.64	3.5	1530	217	3190	26.9	4		0.35	2.37	17	613		0.40	> 10000	
Oreas 77b (4 Acid Digest) Cert			1.62	1.94	2050	118	0.470	3.44	3.06	1.20	1550	280	3430	29.9	4.61		0.361	2.59	18.8	640		0.434	113000	
Oreas 77b (4 Acid Digest) Meas			1.5	1.62	1450	29	< 1	< 2	2.61	0.8	1470	244	3240	26.1	2		0.33	2.38	18	632		0.41	> 10000	
Oreas 77b (4 Acid Digest) Cert			1.62	1.94	2050	118	0.470	3.44	3.06	1.20	1550	280	3430	29.9	4.61		0.361	2.59	18.8	640		0.434	113000	
Oreas 77b (4 Acid Digest) Meas			1.5	1.65	1710	40	< 1	4	2.62	1.1	1480	205	3280	26.4	< 1		0.34	2.40	19	595		0.42	> 10000	
Oreas 77b (4 Acid Digest) Cert			1.62	1.94	2050	118	0.470	3.44	3.06	1.20	1550	280	3430	29.9	4.61		0.361	2.59	18.8	640		0.434	113000	
254793 Orig			0.5	8.07	17	669	1	< 2	1.91	< 0.3	16	20	36	2.88	24		1	0.94	0.72	24	438	2	2.46	22
254793 Dup			0.6	7.95	13	664	1	< 2	1.94	0.3	17	22	35	2.85	24		< 1	1.02	0.72	23	437	< 1	2.42	24
254798 Orig		7																						
254798 Dup		7																						
254805 Orig		10																						

Analyte Symbol	Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	Mg	Li	Mn	Mo	Na	Ni
Unit Symbol	ppb	g/tonne	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	%	ppm
Lower Limit	5	0.03	0.3	0.01	3	7	1	2	0.01	0.3	1	1	1	0.01	1	1	0.01	0.01	1	1	1	0.01	1
Method Code	FA-AA	FA- GRA	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
254805 Dup	11																						
254807 Orig			0.4	7.52	68	451	< 1	< 2	3.30	< 0.3	18	63	19	3.94	20	< 1	1.17	1.34	26	527	< 1	1.62	66
254807 Dup			< 0.3	7.70	76	455	< 1	< 2	3.34	< 0.3	20	64	19	3.99	20	1	1.12	1.37	27	535	< 1	1.64	67
254816 Orig	16																						
254816 Dup	15																						
254832 Orig	< 5		< 0.3	6.99	7	515	< 1	< 2	5.33	< 0.3	28	187	34	4.97	17	< 1	1.66	3.55	49	835	< 1	1.45	101
254832 Split PREP DUP	5		< 0.3	6.90	3	513	< 1	< 2	5.50	< 0.3	27	186	36	4.92	17	< 1	1.82	3.59	49	866	< 1	1.47	103
254832 Orig			< 0.3	7.04	7	513	< 1	< 2	5.33	< 0.3	29	188	34	4.96	17	< 1	1.62	3.55	49	834	< 1	1.45	102
254832 Dup			< 0.3	6.93	7	518	< 1	< 2	5.33	< 0.3	28	185	34	4.98	17	< 1	1.70	3.55	49	835	< 1	1.46	101
254833 Orig	< 5																						
254833 Dup	< 5																						
254839 Orig	47																						
254839 Dup	49																						
254845 Orig			0.5	6.66	772	> 1000	2	< 2	3.77	< 0.3	18	41	37	3.83	21	< 1	1.97	1.82	37	672	< 1	2.61	40
254845 Dup			0.5	7.01	673	> 1000	2	< 2	3.80	1.2	18	46	38	3.80	22	1	1.59	1.83	38	656	< 1	2.61	40
254850 Orig	< 5																						
254850 Dup	< 5																						
254867 Orig	45																						
254867 Dup	27																						
254869 Orig			< 0.3	7.00	12	100	< 1	< 2	7.28	0.5	37	21	132	6.99	16	< 1	0.44	3.66	33	1070	< 1	1.44	78
254869 Dup			0.4	7.00	4	101	< 1	< 2	7.28	0.4	35	17	137	7.01	15	< 1	0.44	3.65	33	1110	< 1	1.43	78
254874 Orig	6																						
254874 Dup	7																						
254882 Orig	8		< 0.3	7.18	< 3	180	< 1	< 2	6.67	< 0.3	32	50	114	6.38	16	< 1	0.51	3.39	43	994	< 1	2.32	84
254882 Split PREP DUP	9		< 0.3	6.95	< 3	181	< 1	< 2	6.66	< 0.3	32	60	121	6.31	16	< 1	0.51	3.33	42	999	< 1	2.29	84
254884 Orig	< 5																						
254884 Dup	< 5																						
254887 Orig			< 0.3	6.78	< 3	16	< 1	< 2	6.88	0.5	40	173	93	7.33	15	< 1	0.09	4.11	34	1070	< 1	2.25	145
254887 Dup			< 0.3	6.71	< 3	16	< 1	< 2	6.88	< 0.3	39	187	85	7.29	15	< 1	0.09	4.10	34	1070	< 1	2.27	145
254901 Orig	< 5																						
254901 Dup	5																						
254908 Orig	5																						
254908 Dup	5																						
254910 Orig			0.6	4.67	22	449	< 1	< 2	0.92	< 0.3	7	49	32	1.66	17	< 1	1.52	0.43	20	259	4	0.45	13
254910 Dup			0.6	6.72	24	479	< 1	< 2	1.24	< 0.3	7	17	37	1.79	19	< 1	1.60	0.50	21	264	4	0.45	14
254919 Orig	< 5																						
254919 Dup	< 5																						
254924 Orig			0.4	5.08	206	151	1	< 2	1.47	0.6	6	27	22	11.4	16	2	0.71	1.39	13	1080	3	0.58	24
254924 Dup			0.3	5.06	185	153	1	< 2	1.46	< 0.3	5	26	21	11.3	14	< 1	0.73	1.38	12	1070	4	0.58	24
254932 Orig	5		0.4	7.35	42	457	1	< 2	1.63	< 0.3	10	23	18	3.22	20	< 1	1.73	0.81	20	496	1	1.07	22
254932 Split PREP DUP	< 5		0.4	4.79	61	400	1	< 2	1.30	< 0.3	11	32	16	2.79	20	3	1.31	0.75	20	506	1	1.10	22
254935 Orig	11		0.5	8.46	352	286	1	< 2	2.11	< 0.3	18	57	57	4.93	24	< 1	1.46	1.33	25	587	< 1	1.56	60
254935 Dup	13		0.5	8.19	371	301	1	< 2	2.09	0.3	18	57	56	4.87	23	< 1	1.60	1.31	25	587	1	1.54	55
254942 Orig	5																						
254942 Dup	5																						
254949 Orig			0.4	6.72	82	437	< 1	< 2	2.36	0.5	12	18	24	2.71	19	< 1	1.46	0.79	17	492	< 1	1.86	19
254949 Dup			0.4	6.80	75	447	1	< 2	2.39	< 0.3	11	22	24	2.72	20	< 1	1.93	0.79	17	496	< 1	1.86	19
254953 Orig	< 5																						

Analyte Symbol	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
SDC-1 Meas	0.061	18	< 5		17	187		0.17	< 5	< 10	45	< 5		111	38
SDC-1 Cert	0.0690	25.00	0.54		17.00	180.00		0.606	0.70	3.10	102.00	0.80		103.00	290.00
SDC-1 Meas	0.063	21	< 5		16	184		0.38	< 5	< 10	70	< 5		111	54
SDC-1 Cert	0.0690	25.00	0.54		17.00	180.00		0.606	0.70	3.10	102.00	0.80		103.00	290.00
SDC-1 Meas	0.057	26	< 5		16	181		0.14	< 5	< 10	45	< 5		106	29
SDC-1 Cert	0.0690	25.00	0.54		17.00	180.00		0.606	0.70	3.10	102.00	0.80		103.00	290.00
SDC-1 Meas	0.057	18	< 5		16	186		0.29	< 5	< 10	59	< 5		111	49
SDC-1 Cert	0.0690	25.00	0.54		17.00	180.00		0.606	0.70	3.10	102.00	0.80		103.00	290.00
SDC-1 Meas	0.057	20	< 5		16	186		0.31	< 5	< 10	61	< 5		111	52
SDC-1 Cert	0.0690	25.00	0.54		17.00	180.00		0.606	0.70	3.10	102.00	0.80		103.00	290.00
SDC-1 Meas	0.058	20	< 5		14	168		0.45	< 5	< 10	72	< 5		104	60
SDC-1 Cert	0.0690	25.00	0.54		17.00	180.00		0.606	0.70	3.10	102.00	0.80		103.00	290.00
Oreas 72a (4 Acid Digest) Meas				1.68											
Oreas 72a (4 Acid Digest) Cert				1.74											
Oreas 72a (4 Acid Digest) Meas				1.61											
Oreas 72a (4 Acid Digest) Cert				1.74											
Oreas 72a (4 Acid Digest) Meas				1.61											
Oreas 72a (4 Acid Digest) Cert				1.74											
Oreas 72a (4 Acid Digest) Meas				1.71											
Oreas 72a (4 Acid Digest) Cert				1.74											
Oreas 72a (4 Acid Digest) Meas				1.59											
Oreas 72a (4 Acid Digest) Cert				1.74											
OREAS 98 (4 Acid) Meas		299	12	16.1										1360	
OREAS 98 (4 Acid) Cert		345	20.1	15.5										1360	
OREAS 98 (4 Acid) Meas		294	8	15.2										1370	
OREAS 98 (4 Acid) Cert		345	20.1	15.5										1360	
OREAS 98 (4 Acid) Meas		318	8	15.7										1300	
OREAS 98 (4 Acid) Cert		345	20.1	15.5										1360	
OREAS 98 (4 Acid) Meas		298	6	15.9										1390	
OREAS 98 (4 Acid) Cert		345	20.1	15.5										1360	
OREAS 98 (4 Acid) Meas		305	5	16.1										1380	
OREAS 98 (4 Acid) Cert		345	20.1	15.5										1360	
DNC-1a Meas		5	< 5		32	135		0.28			130		15	68	32
DNC-1a Cert		6.3	0.96		31	144		0.29			148		18.0	70	38.0
DNC-1a Meas		6	< 5		31	136		0.29			143		16	62	35
DNC-1a Cert		6.3	0.96		31	144		0.29			148		18.0	70	38.0

Analyte Symbol	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
DNC-1a Meas		< 3	6		30	137		0.27			121		15	64	35
DNC-1a Cert		6.3	0.96		31	144		0.29			148		18.0	70	38.0
DNC-1a Meas		4	< 5		30	137		0.27			121		15	63	36
DNC-1a Cert		6.3	0.96		31	144		0.29			148		18.0	70	38.0
DNC-1a Meas		4	< 5		29	135		0.27			119		14	66	35
DNC-1a Cert		6.3	0.96		31	144		0.29			148		18.0	70	38.0
OREAS 904 (4 ACID) Meas	0.101	19	< 5	0.06	12	29			< 5	10	83	< 5	36	26	187
OREAS 904 (4 ACID) Cert	0.0980	10.6	1.48	0.0630	11.2	27.2			0.520	8.43	76.0	2.12	31.5	26.3	171
OREAS 904 (4 ACID) Meas	0.094	15	< 5	0.06	12	30			< 5	< 10	74	< 5	36	29	89
OREAS 904 (4 ACID) Cert	0.0980	10.6	1.48	0.0630	11.2	27.2			0.520	8.43	76.0	2.12	31.5	26.3	171
OREAS 904 (4 ACID) Meas	0.094	13	7	0.06	12	29			< 5	< 10	75	< 5	36	28	90
OREAS 904 (4 ACID) Cert	0.0980	10.6	1.48	0.0630	11.2	27.2			0.520	8.43	76.0	2.12	31.5	26.3	171
SBC-1 Meas		28	< 5		19	184		0.49	< 5	< 10	210	6	27	214	111
SBC-1 Cert		35.0	1.01		20.0	178.0		0.51	0.89	5.76	220.0	1.60	36.5	186	134.0
SBC-1 Meas		27	< 5		21	185		0.51	< 5	< 10	207	< 5	29	209	111
SBC-1 Cert		35.0	1.01		20.0	178.0		0.51	0.89	5.76	220.0	1.60	36.5	186	134.0
SBC-1 Meas		29	< 5		20	177		0.50	< 5	10	219	< 5	31	198	112
SBC-1 Cert		35.0	1.01		20.0	178.0		0.51	0.89	5.76	220.0	1.60	36.5	186	134.0
SBC-1 Meas		30	6		19	186		0.49	< 5	< 10	188	5	30	200	116
SBC-1 Cert		35.0	1.01		20.0	178.0		0.51	0.89	5.76	220.0	1.60	36.5	186	134.0
SBC-1 Meas		29	< 5		20	186		0.47	< 5	< 10	189	6	31	205	117
SBC-1 Cert		35.0	1.01		20.0	178.0		0.51	0.89	5.76	220.0	1.60	36.5	186	134.0
SBC-1 Meas		27	< 5		19	184		0.47	< 5	< 10	189	< 5	30	196	118
SBC-1 Cert		35.0	1.01		20.0	178.0		0.51	0.89	5.76	220.0	1.60	36.5	186	134.0
OREAS 216 (Fire Assay) Meas															
OREAS 216 (Fire Assay) Cert															
OREAS 254 Fire Assay Meas															
OREAS 254 Fire Assay Cert															
OREAS 254 Fire Assay Meas															
OREAS 254 Fire Assay Cert															
OREAS 254 Fire Assay Meas															
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OREAS 254 Fire Assay Cert															
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OREAS 254 Fire Assay Cert															
OREAS 254 Fire Assay Meas															
OREAS 254 Fire Assay Cert															

Analyte Symbol	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
OREAS 254 Fire Assay Cert															
OREAS 254 Fire Assay Meas															
OREAS 254 Fire Assay Cert															
OREAS 218 Meas															
OREAS 218 Cert															
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OREAS 218 Cert															
OREAS 218 Meas															
OREAS 218 Cert															
OREAS 96 (4 Acid) Meas		97	< 5	4.28										473	
OREAS 96 (4 Acid) Cert		101	5.09	4.19										457	
OREAS 96 (4 Acid) Meas		91	< 5	4.33										469	
OREAS 96 (4 Acid) Cert		101	5.09	4.19										457	
OREAS 96 (4 Acid) Meas		94	< 5	4.36										450	
OREAS 96 (4 Acid) Cert		101	5.09	4.19										457	
OREAS 96 (4 Acid) Meas		90	< 5	4.16										464	
OREAS 96 (4 Acid) Cert		101	5.09	4.19										457	
OREAS 96 (4 Acid) Meas		92	< 5	4.17										466	
OREAS 96 (4 Acid) Cert		101	5.09	4.19										457	
OREAS 923 (4 Acid) Meas	0.068	85	< 5	0.70	14	46		0.41	< 5	< 10	89	10	27	372	131
OREAS 923 (4 Acid) Cert	0.0630	83.0	1.29	0.691	13.1	43.0		0.405	0.860	3.06	91.0	4.85	26.4	345	116
OREAS 923 (4 Acid) Meas	0.069	87	< 5	0.71	15	45		0.43	< 5	< 10	92	8	28	389	131
OREAS 923 (4 Acid) Cert	0.0630	83.0	1.29	0.691	13.1	43.0		0.405	0.860	3.06	91.0	4.85	26.4	345	116
OREAS 923 (4 Acid) Meas	0.062	77	< 5	0.68	13	43		0.43	< 5	< 10	92	7	27	339	131
OREAS 923 (4 Acid) Cert	0.0630	83.0	1.29	0.691	13.1	43.0		0.405	0.860	3.06	91.0	4.85	26.4	345	116
OREAS 923 (4 Acid) Meas	0.062	97	< 5	0.69	14	46		0.42	< 5	< 10	84	11	28	380	142
OREAS 923 (4 Acid) Cert	0.0630	83.0	1.29	0.691	13.1	43.0		0.405	0.860	3.06	91.0	4.85	26.4	345	116

Analyte Symbol	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
OREAS 923 (4 Acid) Meas	0.063	84	< 5	0.69	14	46		0.41	< 5	< 10	84	9	28	382	140
OREAS 923 (4 Acid) Cert	0.0630	83.0	1.29	0.691	13.1	43.0		0.405	0.860	3.06	91.0	4.85	26.4	345	116
OREAS 923 (4 Acid) Meas	0.063	69	< 5	0.70	13	46		0.41	< 5	< 10	84	11	28	367	140
OREAS 923 (4 Acid) Cert	0.0630	83.0	1.29	0.691	13.1	43.0		0.405	0.860	3.06	91.0	4.85	26.4	345	116
OREAS 621 (4 Acid) Meas	0.039	> 5000	18	4.55	7	80		0.18	< 5	< 10	34	< 5	12	> 10000	163
OREAS 621 (4 Acid) Cert	0.0359	13600	139	4.48	6.24	91.0		0.149	1.96	2.83	31.8	2.35	11.1	52200	168
OREAS 621 (4 Acid) Meas	0.039	> 5000	14	4.71	7	71		0.19	6	< 10	34	< 5	12	> 10000	168
OREAS 621 (4 Acid) Cert	0.0359	13600	139	4.48	6.24	91.0		0.149	1.96	2.83	31.8	2.35	11.1	52200	168
OREAS 621 (4 Acid) Meas	0.036	> 5000	19	4.69	7	81		0.20	< 5	< 10	35	< 5	13	> 10000	181
OREAS 621 (4 Acid) Cert	0.0359	13600	139	4.48	6.24	91.0		0.149	1.96	2.83	31.8	2.35	11.1	52200	168
OREAS 621 (4 Acid) Meas	0.036	> 5000	18	4.49	6	69		0.19	< 5	< 10	30	< 5	12	> 10000	180
OREAS 621 (4 Acid) Cert	0.0359	13600	139	4.48	6.24	91.0		0.149	1.96	2.83	31.8	2.35	11.1	52200	168
OREAS 621 (4 Acid) Meas	0.036	> 5000	15	4.47	7	71		0.19	< 5	< 10	30	6	13	> 10000	182
OREAS 621 (4 Acid) Cert	0.0359	13600	139	4.48	6.24	91.0		0.149	1.96	2.83	31.8	2.35	11.1	52200	168
OREAS 257 Meas															
OREAS 257 Cert															
OREAS 255 (Fire Assay) Meas															
OREAS 255 (Fire Assay) Cert															
Oreas 77b (4 Acid Digest) Meas		72	7		< 4	30	3	0.06	< 5	< 10	33	10	8	199	36
Oreas 77b (4 Acid Digest) Cert		61.0	9.100		3.51	34.4	1.35	0.0640	1.37	1.71	33.6	3.07	6.55	205	37.9
Oreas 77b (4 Acid Digest) Meas		79	27		< 4	30	8	0.06	< 5	< 10	34	5	8	190	39
Oreas 77b (4 Acid Digest) Cert		61.0	9.100		3.51	34.4	1.35	0.0640	1.37	1.71	33.6	3.07	6.55	205	37.9
Oreas 77b (4 Acid Digest) Meas		77	21		< 4	31	< 2	0.06	< 5	< 10	33	6	10	199	41
Oreas 77b (4 Acid Digest) Cert		61.0	9.100		3.51	34.4	1.35	0.0640	1.37	1.71	33.6	3.07	6.55	205	37.9
Oreas 77b (4 Acid Digest) Meas		56	22		< 4	31	< 2	0.06	< 5	< 10	33	8	10	189	41
Oreas 77b (4 Acid Digest) Cert		61.0	9.100		3.51	34.4	1.35	0.0640	1.37	1.71	33.6	3.07	6.55	205	37.9
254793 Orig	0.064	7	< 5	0.11	10	326	< 2	0.41	< 5	< 10	65	< 5	12	200	178
254793 Dup	0.062	5	< 5	0.11	10	328	< 2	0.40	< 5	< 10	64	< 5	12	197	176
254798 Orig															
254798 Dup															
254805 Orig															
254805 Dup															
254807 Orig	0.064	8	< 5	0.04	13	319	< 2	0.35	< 5	< 10	79	< 5	10	93	135

Analyte Symbol	P	Pb	Sb	S	Sc	Sr	Te	Ti	Tl	U	V	W	Y	Zn	Zr
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.001	3	5	0.01	4	1	2	0.01	5	10	2	5	1	1	5
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-ICP
254807 Dup	0.067	7	< 5	0.04	14	320	< 2	0.36	< 5	< 10	80	< 5	11	93	136
254816 Orig															
254816 Dup															
254832 Orig	0.080	< 3	< 5	0.04	22	319	< 2	0.29	< 5	< 10	103	< 5	11	60	98
254832 Split PREP DUP	0.076	< 3	< 5	0.04	22	319	2	0.25	< 5	< 10	91	< 5	11	61	86
254832 Orig	0.080	< 3	< 5	0.04	22	321	< 2	0.29	< 5	< 10	101	< 5	11	59	98
254832 Dup	0.080	5	< 5	0.03	22	318	< 2	0.30	< 5	< 10	104	< 5	11	61	99
254833 Orig															
254833 Dup															
254839 Orig															
254839 Dup															
254845 Orig	0.146	10	< 5	0.34	9	568	< 2	0.39	< 5	< 10	79	< 5	9	103	180
254845 Dup	0.148	5	< 5	0.37	10	575	7	0.39	< 5	< 10	79	< 5	11	104	182
254850 Orig															
254850 Dup															
254867 Orig															
254867 Dup															
254869 Orig	0.047	< 3	< 5	0.21	31	378	10	0.16	< 5	< 10	94	< 5	11	71	22
254869 Dup	0.046	< 3	< 5	0.20	31	380	< 2	0.17	< 5	< 10	97	< 5	11	73	23
254874 Orig															
254874 Dup															
254882 Orig	0.052	3	8	0.13	26	355	< 2	0.17	< 5	< 10	79	< 5	12	67	28
254882 Split PREP DUP	0.052	< 3	< 5	0.12	26	355	3	0.15	< 5	< 10	73	< 5	12	66	24
254884 Orig															
254884 Dup															
254887 Orig	0.055	< 3	< 5	0.03	28	484	5	0.20	< 5	< 10	89	< 5	13	70	32
254887 Dup	0.055	< 3	6	0.02	28	485	< 2	0.20	< 5	< 10	90	< 5	13	74	33
254901 Orig															
254901 Dup															
254908 Orig															
254908 Dup															
254910 Orig	0.036	9	< 5	0.06	4	129	< 2	0.23	< 5	< 10	30	< 5	8	61	192
254910 Dup	0.037	6	< 5	0.06	6	156	< 2	0.22	< 5	< 10	30	< 5	11	57	187
254919 Orig															
254919 Dup															
254924 Orig	0.066	5	< 5	1.28	9	120	< 2	0.23	< 5	< 10	53	< 5	11	90	110
254924 Dup	0.067	< 3	6	1.26	8	120	< 2	0.23	< 5	< 10	52	< 5	11	92	112
254932 Orig	0.044	7	6	0.48	8	159	3	0.26	< 5	< 10	48	< 5	10	91	148
254932 Split PREP DUP	0.044	6	< 5	0.48	6	135	9	0.27	6	< 10	50	< 5	7	88	158
254935 Orig	0.048	8	< 5	1.17	14	252	< 2	0.37	< 5	< 10	83	< 5	12	129	166
254935 Dup	0.046	7	< 5	1.19	14	246	< 2	0.37	< 5	< 10	82	5	12	126	165
254942 Orig															
254942 Dup															
254949 Orig	0.061	7	< 5	0.31	8	207	9	0.29	< 5	< 10	54	< 5	10	87	142
254949 Dup	0.061	5	5	0.31	9	209	< 2	0.28	< 5	< 10	53	< 5	11	81	141
254953 Orig															
254953 Dup															
254970 Orig															
254970 Dup															

DDH Cross Section: BTU-19-01

Legend

OB-overburden

8. Felsic Intrusive (plutonic) rocks



7. Mafic/Ultramafic Intrusive rocks

Gabbro/Anorthosite



Ultramafic -pyroxenite

6. Subvolcanic Intrusive rocks

QFP/FP



5. Clastic Metasediments

Mudstone /sandstone



Conglomerate

4. Chemical metasediments

IF -magnetite-quartz



S -sulphides facies

3. Felsic Volcanic rocks

a) Flows



b) Pyroclastics

2. Intermediate volcanic rocks

a) Tuff /tuff wacke



1. Mafic volcanic rocks

a) Massive



b) Flows; pillowed amygdaloidal

c) Flow Breccia

d) Coarse grained gabbroic

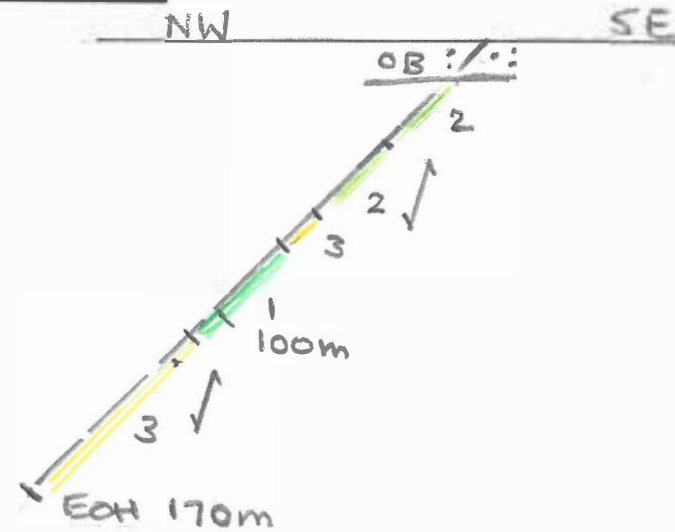
Symbols

Shearing/Foliation

Core angle

Carbonate altn

Silicification



VIEW NORTHEAST

Scale: 1:2000
1 cm = 20 m

DDH Cross Section: BTU-19-02

Legend

OB-overburden

8. Felsic Intrusive (plutonic) rocks

7. Mafic/Ultramafic Intrusive rocks

Gabbro/Anorthosite

Ultramafic -pyroxenite

6. Subvolcanic Intrusive rocks

QFP/FP

5. Clastic Metasediments

Mudstone /sandstone

Conglomerate

4. Chemical metasediments

IF -magnetite-quartz

S -sulphides facies

3. Felsic Volcanic rocks

a) Flows

b) Pyroclastics

2. Intermediate volcanic rocks

a) Tuff /tuff wacke

1. Mafic volcanic rocks

a) Massive

b) Flows; pillowed amygdaloidal

c) Flow Breccia

d) Coarse grained gabbroic

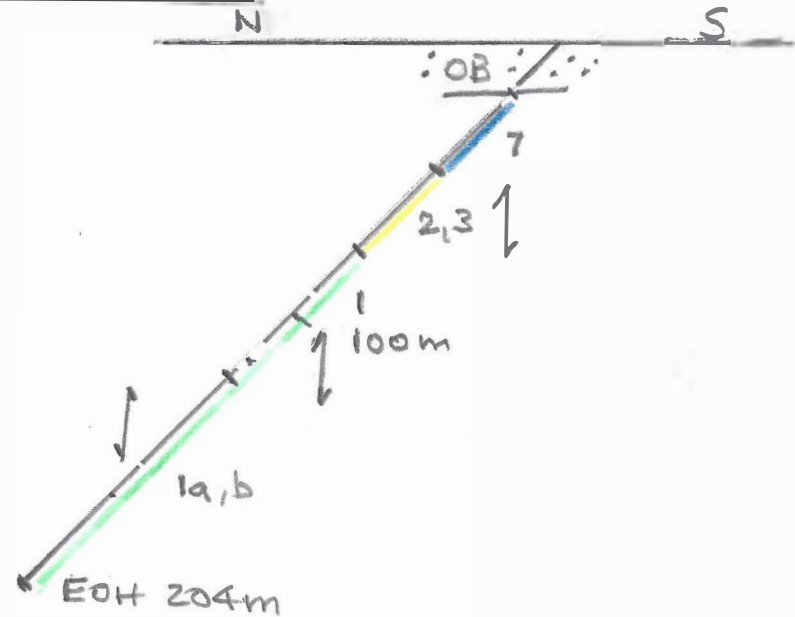
Symbols

Shearing/Foliation 

Core angle 

Carbonate altn 

Silicification 



VIEW EAST

Scale: 1:2000

1 cm = 20 m

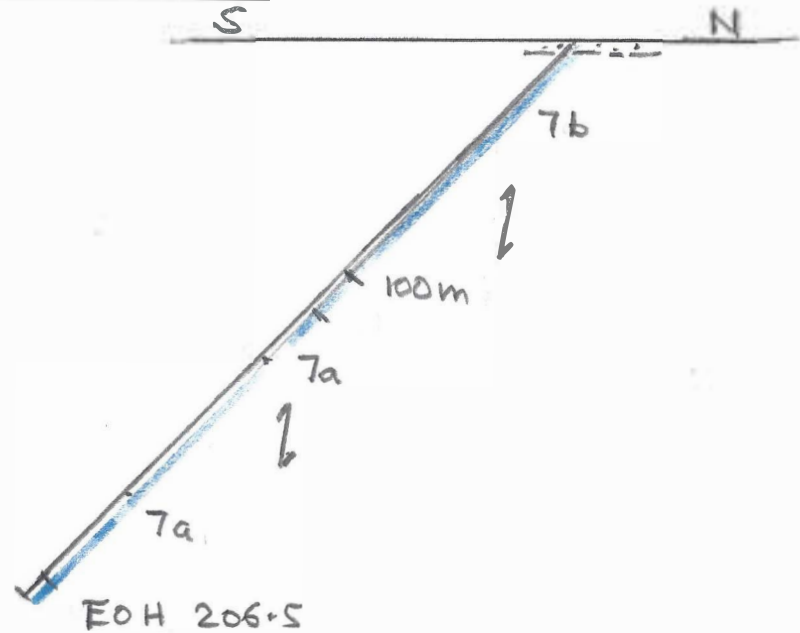
DDH Cross Section: BTU-19-03

Legend

- | | |
|---------------------------------------------|--|
| OB-overburden | |
| 8. Felsic Intrusive (plutonic) rocks | |
| 7. Mafic/Ultramafic Intrusive rocks | |
| a) Gabbro/Anorthosite | |
| b) Ultramafic -pyroxenite | |
| 6. Subvolcanic Intrusive rocks | |
| QFP/FP | |
| 5. Clastic Metasediments | |
| Mudstone /sandstone | |
| Conglomerate | |
| 4. Chemical metasediments | |
| IF -magnetite-quartz | |
| S -sulphides facies | |
| 3. Felsic Volcanic rocks | |
| a) Flows | |
| b) Pyroclastics | |
| 2. Intermediate volcanic rocks | |
| a) Tuff /tuff wacke | |
| 1. Mafic volcanic rocks | |
| a) Massive | |
| b) Flows; pillowed amygdaloidal | |
| c) Flow Breccia | |
| d) Coarse grained gabbroic | |

Symbols

- | | |
|--------------------|--|
| Shearing/Foliation | |
| Core angle | |
| Carbonate altn | |
| Silicification | |



VIEW WEST

Scale: 1:2000
1 cm = 20 m

DDH Cross Section: BTU-19-04,05

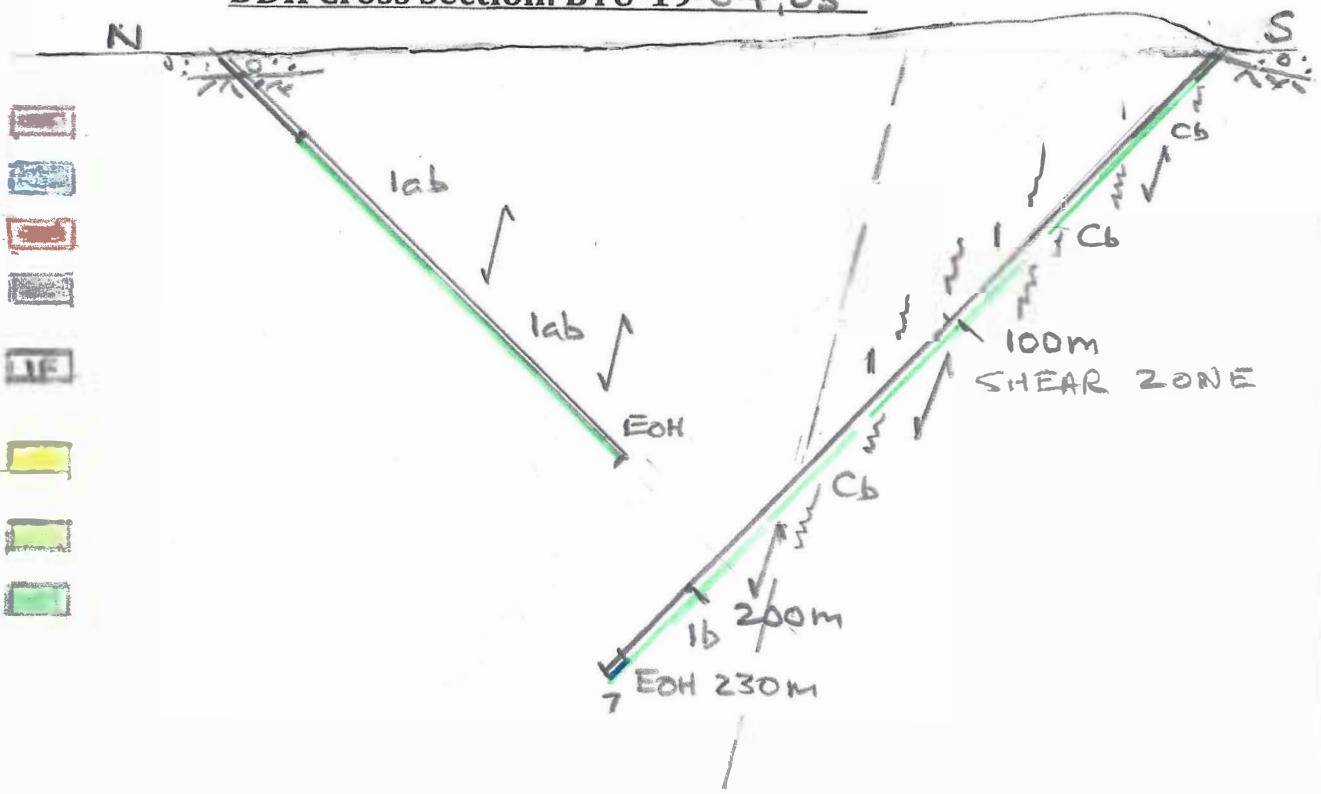
Legend

- OB-overburden
- 8. Felsic Intrusive (plutonic) rocks
- 7. Mafic/Ultramafic Intrusive rocks
 - Gabbro/Anorthosite
 - Ultramafic -pyroxenite
- 6. Subvolcanic Intrusive rocks
 - QFP/FP
- 5. Clastic Metasediments
 - Mudstone /sandstone
 - Conglomerate
- 4. Chemical metasediments
 - IF -magnetite-quartz
 - S -sulphides facies
- 3. Felsic Volcanic rocks
 - a) Flows
 - b) Pyroclastics
- 2. Intermediate volcanic rocks
 - a) Tuff /tuff wacke
- 1. Mafic volcanic rocks
 - a) Massive
 - b) Flows; pillowed amygdaloidal
 - c) Flow Breccia
 - d) Coarse grained gabbroic



Symbols

- Shearing/Foliation
- Core angle
- Carbonate altn
- Silicification



VIEW EAST

Scale: 1:2000
1 cm = 20 m

DDH Cross Section: BTU-19-06, 07

Legend

OB-overburden

8. Felsic Intrusive (plutonic) rocks

7. Mafic/Ultramafic Intrusive rocks

Gabbro/Anorthosite

Ultramafic -pyroxenite

6. Subvolcanic Intrusive rocks

QFP/FP

5. Clastic Metasediments

Mudstone /sandstone

Conglomerate

4. Chemical metasediments

IF -magnetite-quartz

S -sulphides facies

3. Felsic Volcanic rocks

a) Flows

b) Pyroclastics

2. Intermediate volcanic rocks

a) Tuff /tuff wacke

1. Mafic volcanic rocks

a) Massive

b) Flows; pillowed amygdaloidal

c) Flow Breccia

d) Coarse grained gabbroic



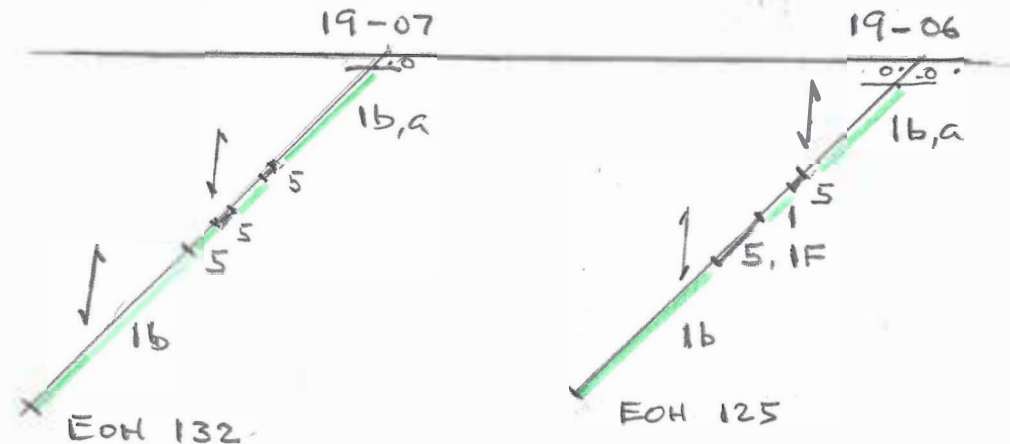
Symbols

Shearing/Foliation

Core angle

Carbonate altn

Silicification



VIEW WEST

Scale: 1:2000

1 cm = 20 m

DDH Cross Section: BTU-19-08

Legend

OB-overburden

8. Felsic Intrusive (plutonic) rocks

7. Mafic/Ultramafic Intrusive rocks

- Gabbro/Anorthosite
- Ultramafic -pyroxenite

6. Subvolcanic Intrusive rocks

- QFP/FP

5. Clastic Metasediments

- Mudstone /sandstone
- Conglomerate

4. Chemical metasediments

- IF -magnetite-quartz
- S -sulphides facies

3. Felsic Volcanic rocks

- a) Flows
- b) Pyroclastics

2. Intermediate volcanic rocks

- a) Tuff /tuff wacke

1. Mafic volcanic rocks

- a) Massive
- b) Flows; pillowed amygdaloidal
- c) Flow Breccia
- d) Coarse grained gabbroic

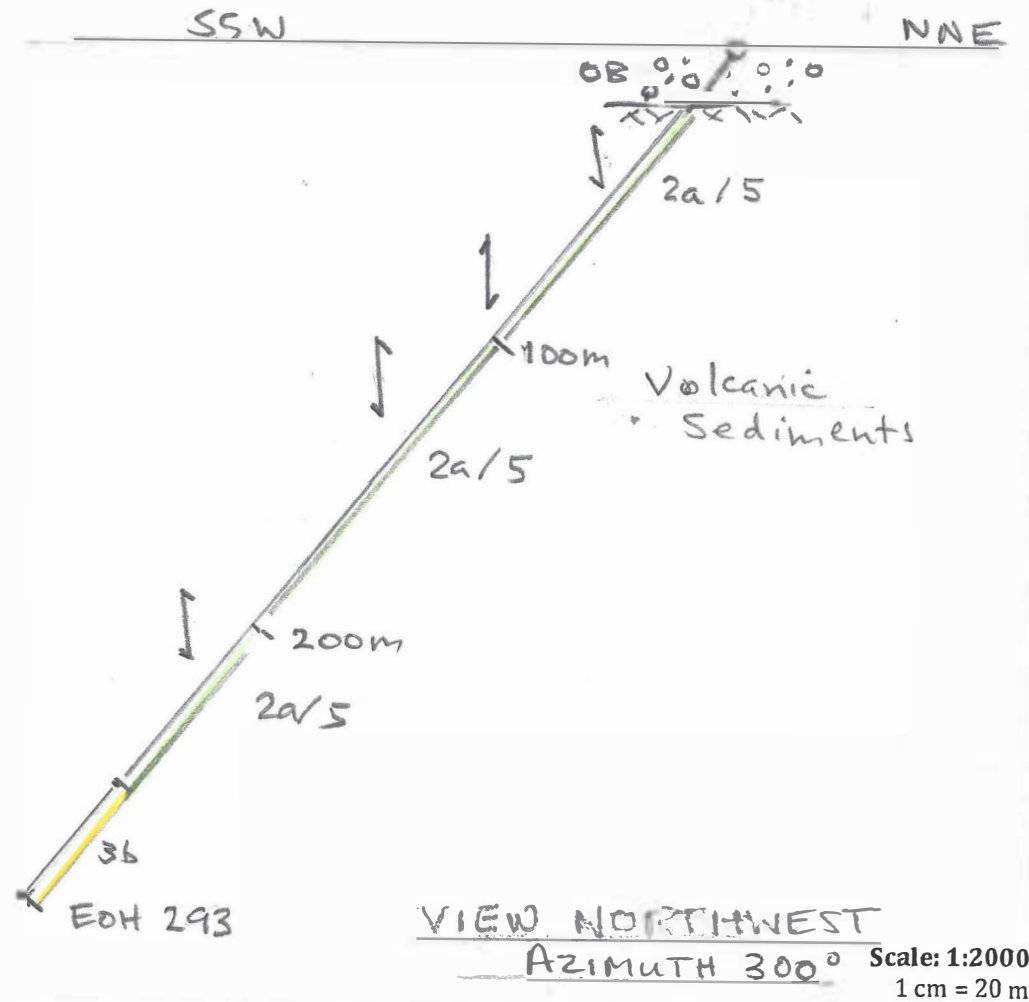
Symbols

Shearing/Foliation 

Core angle 

Carbonate altn 

Silicification 



DDH Cross Section: BTU-19-09

Legend

OB-overburden

8. Felsic Intrusive (plutonic) rocks

7. Mafic/Ultramafic Intrusive rocks

Gabbro/Anorthosite

Ultramafic -pyroxenite

6. Subvolcanic Intrusive rocks

QFP/FP

5. Clastic Metasediments

Mudstone /sandstone

Conglomerate

4. Chemical metasediments

IF -magnetite-quartz

S -sulphides facies

3. Felsic Volcanic rocks

a) Flows

b) Pyroclastics

2. Intermediate volcanic rocks

a) Tuff /tuff wacke

1. Mafic volcanic rocks

a) Massive

b) Flows; pillowed amygdaloidal

c) Flow Breccia

d) Coarse grained gabbroic



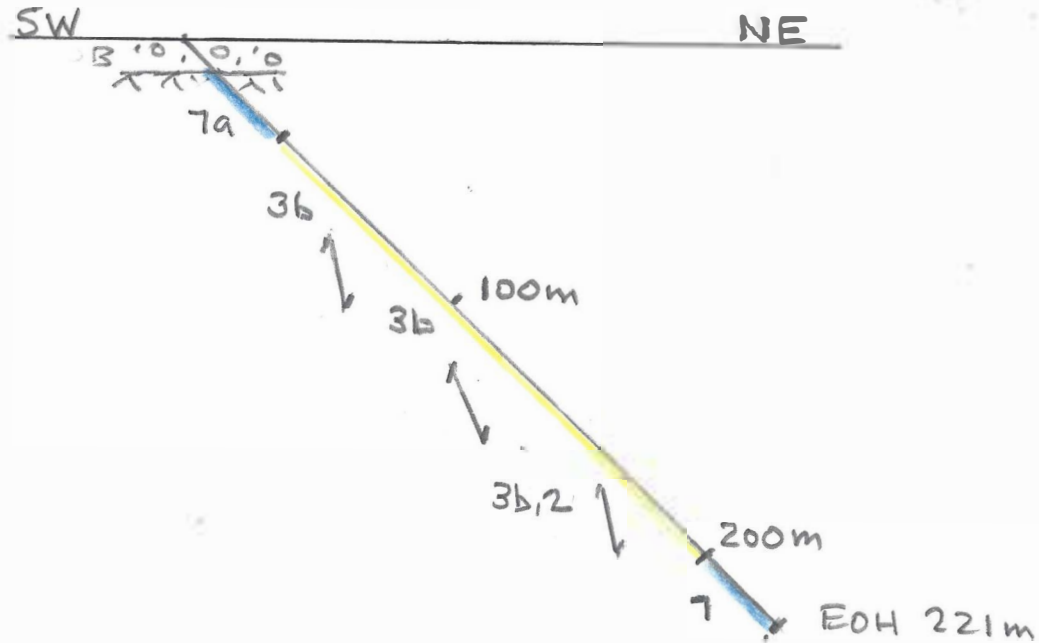
Symbols

Shearing/Foliation

Core angle

Carbonate altn

Silicification



VIEW NORTHWEST
Azimuth 300

DDH Cross Section: BTU-19-10

Legend

OB-overburden

8. Felsic Intrusive (plutonic) rocks

7. Mafic/Ultramafic Intrusive rocks

Gabbro/Anorthosite

Ultramafic -pyroxenite

6. Subvolcanic Intrusive rocks

QFP/FP

5. Clastic Metasediments

Mudstone /sandstone

Conglomerate

4. Chemical metasediments

IF -magnetite-quartz

S -sulphides facies

3. Felsic Volcanic rocks

a) Flows

b) Pyroclastics

2. Intermediate volcanic rocks

a) Tuff /tuff wacke

1. Mafic volcanic rocks

a) Massive

b) Flows; pillowed amygdaloidal

c) Flow Breccia

d) Coarse grained gabbroic

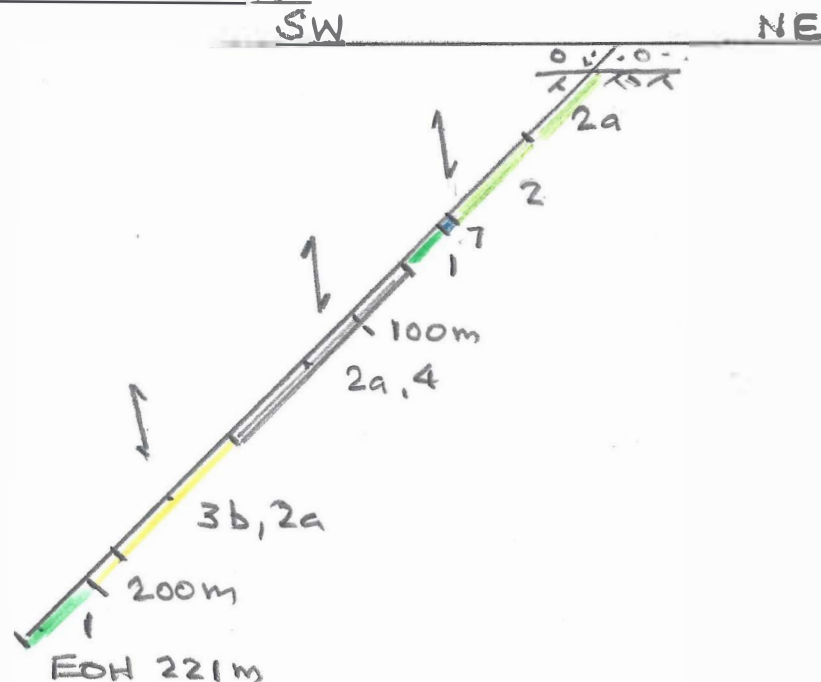
Symbols

Shearing/Foliation 

Core angle 

Carbonate altn 

Silicification 



VIEW NORTHWEST

Scale: 1:2000

1 cm = 20 m

Figure List of claim cells for the Herbert Properties

DIXIE LAKE AREA	117674	2020-04-28	Active	100	Nathan Herbert	Dixie Halo East
DIXIE LAKE AREA	151235	2020-04-28	Active	100	Nathan Herbert	Dixie Halo East
DIXIE LAKE AREA	151236	2020-04-28	Active	100	Nathan Herbert	Dixie Halo East
DIXIE LAKE AREA	151726	2020-04-28	Active	100	Nathan Herbert	Dixie Halo East
DIXIE LAKE AREA	154720	2020-04-28	Active	100	Nathan Herbert	Dixie Halo East
DIXIE LAKE AREA	169889	2020-04-28	Active	100	Nathan Herbert	Dixie Halo East
DIXIE LAKE AREA	181141	2020-04-28	Active	100	Nathan Herbert	Dixie Halo East
DIXIE LAKE AREA	187834	2020-04-28	Active	100	Nathan Herbert	Dixie Halo East
DIXIE LAKE AREA	254521	2020-04-28	Active	100	Nathan Herbert	Dixie Halo East
DIXIE LAKE AREA	254522	2020-04-28	Active	100	Nathan Herbert	Dixie Halo East
DIXIE LAKE AREA	266597	2020-04-28	Active	100	Nathan Herbert	Dixie Halo East
DIXIE LAKE AREA	303209	2020-04-28	Active	100	Nathan Herbert	Dixie Halo East
DIXIE LAKE AREA	303210	2020-04-28	Active	100	Nathan Herbert	Dixie Halo East
DIXIE LAKE AREA	330880	2020-04-28	Active	100	Nathan	Dixie Halo East

AREA					Herbert	
DIXIE LAKE AREA	101829	2020-05-16	Active	100	Nathan Herbert	Dixie Halo East
DIXIE LAKE AREA	117137	2020-05-16	Active	100	Nathan Herbert	Dixie Halo East
DIXIE LAKE AREA	163613	2020-05-16	Active	100	Nathan Herbert	Dixie Halo East
DIXIE LAKE AREA	223533	2020-05-16	Active	100	Nathan Herbert	Dixie Halo East
DIXIE LAKE AREA	230303	2020-05-16	Active	100	Nathan Herbert	Dixie Halo East
DIXIE LAKE AREA	279032	2020-05-16	Active	100	Nathan Herbert	Dixie Halo East
DIXIE LAKE AREA	314089	2020-05-16	Active	100	Nathan Herbert	Dixie Halo East
DIXIE LAKE AREA	314090	2020-05-16	Active	100	Nathan Herbert	Dixie Halo East
DIXIE LAKE AREA	326127	2020-05-16	Active	100	Nathan Herbert	Dixie Halo East
DIXIE LAKE AREA	525152	2020-07-04	Active	100	Nathan Herbert	Dixie Halo East
DIXIE LAKE AREA	525153	2020-07-04	Active	100	Nathan Herbert	Dixie Halo East
DIXIE LAKE AREA	525154	2020-07-04	Active	100	Nathan Herbert	Dixie Halo East
DIXIE LAKE AREA	525155	2020-07-04	Active	100	Nathan Herbert	Dixie Halo East
DIXIE LAKE AREA	525156	2020-07-04	Active	100	Nathan Herbert	Dixie Halo East
DIXIE LAKE AREA	525157	2020-07-04	Active	100	Nathan Herbert	Dixie Halo East
DIXIE LAKE AREA	525158	2020-07-04	Active	100	Nathan Herbert	Dixie Halo East
DIXIE LAKE AREA	525159	2020-07-04	Active	100	Nathan Herbert	Dixie Halo East
DIXIE LAKE AREA	525160	2020-07-04	Active	100	Nathan Herbert	Dixie Halo East
DIXIE LAKE AREA	525161	2020-07-04	Active	100	Nathan Herbert	Dixie Halo East
DIXIE LAKE AREA	155078	2020-08-01	Active	100	Nathan Herbert	Dixie Halo East
DIXIE LAKE AREA	203399	2020-08-01	Active	100	Nathan Herbert	Dixie Halo East

DIXIE LAKE AREA	208997	2020-08-01	Active	100	Nathan Herbert	Dixie Halo East
DIXIE LAKE AREA	220427	2020-08-01	Active	100	Nathan Herbert	Dixie Halo East
DIXIE LAKE AREA	223534	2020-08-01	Active	100	Nathan Herbert	Dixie Halo East
DIXIE LAKE AREA	225767	2020-08-01	Active	100	Nathan Herbert	Dixie Halo East
DIXIE LAKE AREA	225768	2020-08-01	Active	100	Nathan Herbert	Dixie Halo East
DIXIE LAKE AREA	265536	2020-08-01	Active	100	Nathan Herbert	Dixie Halo East
DIXIE LAKE AREA	272996	2020-08-01	Active	100	Nathan Herbert	Dixie Halo East
DIXIE LAKE AREA	272997	2020-08-01	Active	100	Nathan Herbert	Dixie Halo East
DIXIE LAKE AREA	296858	2020-08-01	Active	100	Nathan Herbert	Dixie Halo East
DIXIE LAKE AREA	323697	2020-08-01	Active	100	Nathan Herbert	Dixie Halo East
DIXIE LAKE AREA	117144	2019-12-15	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	129647	2019-12-15	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	152265	2019-12-15	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	152266	2019-12-15	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	164920	2019-12-15	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	168354	2019-12-15	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	181690	2019-12-15	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	198288	2019-12-15	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	205694	2019-12-15	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	211490	2019-12-15	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	212832	2019-12-15	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE	217080	2019-12-15	Active	100	Larry Herbert	Dixie Halo

AREA						South
DIXIE LAKE AREA	223541	2019-12-15	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	224844	2019-12-15	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	235614	2019-12-15	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	259476	2019-12-15	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	268302	2019-12-15	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	277508	2019-12-15	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	280350	2019-12-15	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	291681	2019-12-15	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	297654	2019-12-15	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	101296	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	101722	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	101723	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	101724	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	101734	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	101735	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	102061	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	102589	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	116068	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	116069	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	117786	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	117908	2019-12-18	Active	100	Larry Herbert	Dixie Halo South

DIXIE LAKE AREA	120430	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	120431	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	122381	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	122382	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	122395	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	127160	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	164858	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	164859	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	166993	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	172238	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	174488	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	177683	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	180357	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	181747	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	190511	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	196929	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	196930	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	212771	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	213508	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	215687	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	215688	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE	215697	2019-12-18	Active	100	Larry Herbert	Dixie Halo

AREA						South
DIXIE LAKE AREA	217765	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	224265	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	224266	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	225524	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	231552	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	234221	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	235666	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	258891	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	259545	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	260208	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	261488	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	261489	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	262910	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	262920	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	262921	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	268967	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	270874	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	272297	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	272323	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	272324	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	272962	2019-12-18	Active	100	Larry Herbert	Dixie Halo South

DIXIE LAKE AREA	275649	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	278065	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	281026	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	282976	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	282981	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	284408	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	290329	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	291707	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	297597	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	298328	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	298329	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	312650	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	329566	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	329567	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	329568	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	339961	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	339962	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	341917	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	341918	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	343333	2019-12-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	102141	2020-02-11	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE	102583	2020-02-11	Active	100	Larry Herbert	Dixie Halo

AREA						South
DIXIE LAKE AREA	116355	2020-02-11	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	116830	2020-02-11	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	117896	2020-02-11	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	122414	2020-02-11	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	123034	2020-02-11	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	123795	2020-02-11	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	152310	2020-02-11	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	167639	2020-02-11	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	167640	2020-02-11	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	167641	2020-02-11	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	168914	2020-02-11	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	180472	2020-02-11	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	180473	2020-02-11	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	205009	2020-02-11	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	211491	2020-02-11	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	214176	2020-02-11	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	214978	2020-02-11	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	230305	2020-02-11	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	232948	2020-02-11	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	262162	2020-02-11	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	280351	2020-02-11	Active	100	Larry Herbert	Dixie Halo South

DIXIE LAKE AREA	292355	2020-02-11	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	328803	2020-02-11	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	340662	2020-02-11	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	102140	2020-03-21	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	102142	2020-03-21	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	117874	2020-03-21	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	117875	2020-03-21	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	124426	2020-03-21	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	124427	2020-03-21	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	126418	2020-03-21	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	126419	2020-03-21	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	143494	2020-03-21	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	152926	2020-03-21	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	154364	2020-03-21	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	169551	2020-03-21	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	169572	2020-03-21	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	171005	2020-03-21	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	173191	2020-03-21	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	182361	2020-03-21	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	189776	2020-03-21	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	204148	2020-03-21	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE	206349	2020-03-21	Active	100	Larry Herbert	Dixie Halo

AREA						South
DIXIE LAKE AREA	206958	2020-03-21	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	225696	2020-03-21	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	227171	2020-03-21	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	227172	2020-03-21	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	264947	2020-03-21	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	264976	2020-03-21	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	268301	2020-03-21	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	272954	2020-03-21	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	274388	2020-03-21	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	274883	2020-03-21	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	314691	2020-03-21	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	321051	2020-03-21	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	343947	2020-03-21	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	343969	2020-03-21	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	345393	2020-03-21	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	345394	2020-03-21	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	345395	2020-03-21	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	101733	2020-03-23	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	102595	2020-03-23	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	114300	2020-03-23	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	116829	2020-03-23	Active	100	Larry Herbert	Dixie Halo South

DIXIE LAKE AREA	121913	2020-03-23	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	123771	2020-03-23	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	160392	2020-03-23	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	161432	2020-03-23	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	166275	2020-03-23	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	166983	2020-03-23	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	179882	2020-03-23	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	179912	2020-03-23	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	179913	2020-03-23	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	180349	2020-03-23	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	182378	2020-03-23	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	182379	2020-03-23	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	206377	2020-03-23	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	206378	2020-03-23	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	214085	2020-03-23	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	215601	2020-03-23	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	215602	2020-03-23	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	215603	2020-03-23	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	215696	2020-03-23	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	217081	2020-03-23	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	217768	2020-03-23	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE	217769	2020-03-23	Active	100	Larry Herbert	Dixie Halo

AREA						South
DIXIE LAKE AREA	217770	2020-03-23	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	233738	2020-03-23	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	264297	2020-03-23	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	270873	2020-03-23	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	271146	2020-03-23	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	282975	2020-03-23	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	282980	2020-03-23	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	284362	2020-03-23	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	285022	2020-03-23	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	309928	2020-03-23	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	316643	2020-03-23	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	330950	2020-03-23	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	330951	2020-03-23	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	343980	2020-03-23	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	100220	2020-03-26	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	114996	2020-03-26	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	126994	2020-03-26	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	126995	2020-03-26	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	126996	2020-03-26	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	144682	2020-03-26	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	144683	2020-03-26	Active	100	Larry Herbert	Dixie Halo South

DIXIE LAKE AREA	210168	2020-03-26	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	210169	2020-03-26	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	222219	2020-03-26	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	222220	2020-03-26	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	258186	2020-03-26	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	258187	2020-03-26	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	262284	2020-03-26	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	270240	2020-03-26	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	276181	2020-03-26	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	312130	2020-03-26	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	101256	2020-03-29	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	117051	2020-03-29	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	117052	2020-03-29	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	117053	2020-03-29	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	117816	2020-03-29	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	123770	2020-03-29	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	124364	2020-03-29	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	128224	2020-03-29	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	157525	2020-03-29	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	157526	2020-03-29	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	163533	2020-03-29	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE	163534	2020-03-29	Active	100	Larry Herbert	Dixie Halo

AREA						South
DIXIE LAKE AREA	168969	2020-03-29	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	181778	2020-03-29	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	196843	2020-03-29	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	202822	2020-03-29	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	211418	2020-03-29	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	211419	2020-03-29	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	230240	2020-03-29	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	230241	2020-03-29	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	258887	2020-03-29	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	258888	2020-03-29	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	277422	2020-03-29	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	278958	2020-03-29	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	278959	2020-03-29	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	278960	2020-03-29	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	278961	2020-03-29	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	284942	2020-03-29	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	291759	2020-03-29	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	296279	2020-03-29	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	314016	2020-03-29	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	314017	2020-03-29	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	314018	2020-03-29	Active	100	Larry Herbert	Dixie Halo South

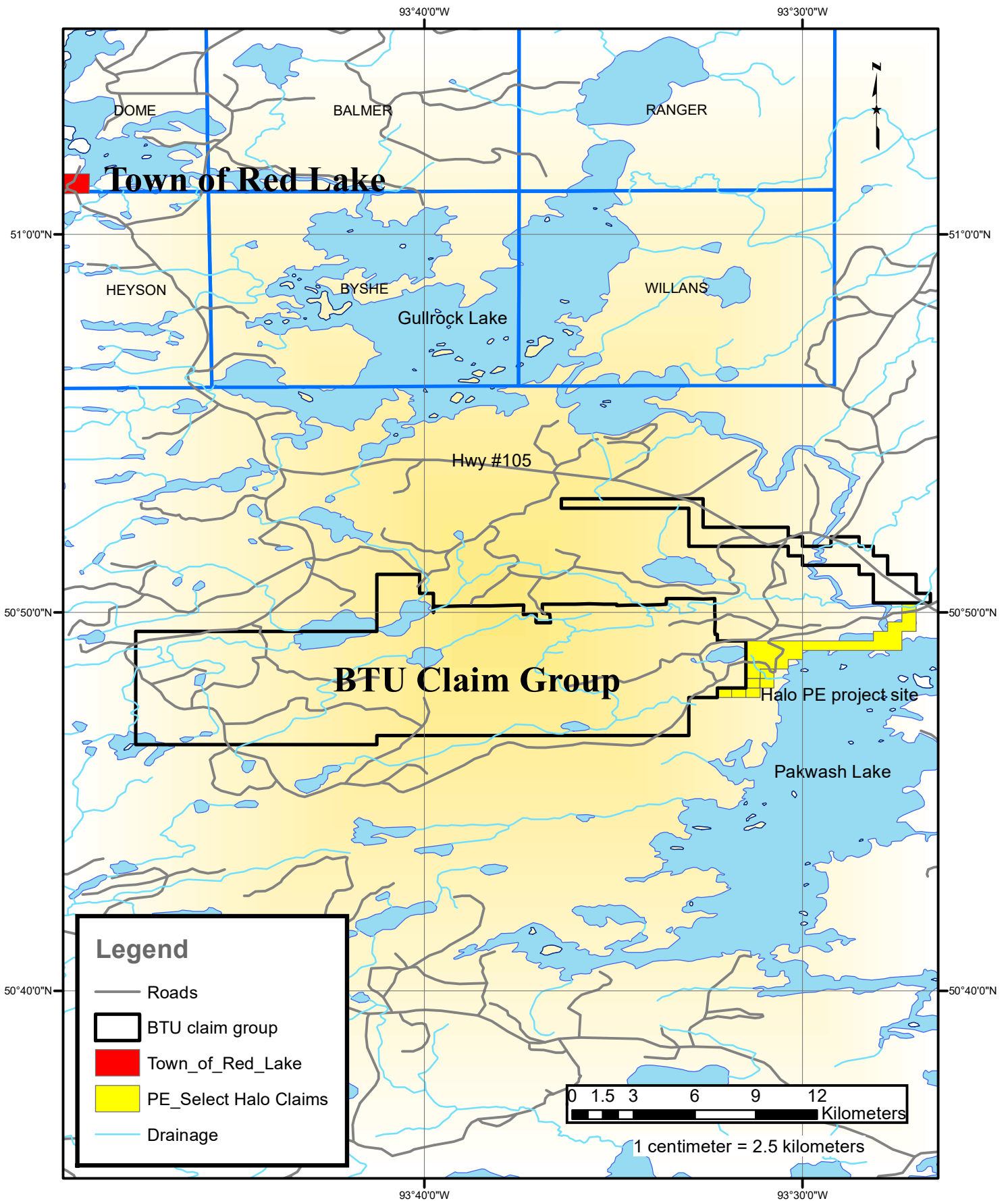
DIXIE LAKE AREA	314019	2020-03-29	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	320983	2020-03-29	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	330949	2020-03-29	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	513575	2020-04-10	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	513576	2020-04-10	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	513577	2020-04-10	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	513578	2020-04-10	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	513579	2020-04-10	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	513580	2020-04-10	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	513581	2020-04-10	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	513745	2020-04-11	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	513746	2020-04-11	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	513747	2020-04-11	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	513748	2020-04-11	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	513749	2020-04-11	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	513750	2020-04-11	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	514303	2020-04-11	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	514304	2020-04-11	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	514305	2020-04-11	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	514306	2020-04-11	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	514307	2020-04-11	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE	514308	2020-04-11	Active	100	Larry Herbert	Dixie Halo

AREA						South
DIXIE LAKE AREA	514309	2020-04-11	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	514310	2020-04-11	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	514311	2020-04-11	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	514312	2020-04-11	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	117738	2020-04-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	117813	2020-04-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	152281	2020-04-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	160260	2020-04-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	181701	2020-04-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	196839	2020-04-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	198305	2020-04-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	343367	2020-04-18	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	114458	2020-07-17	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	154365	2020-07-17	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	162072	2020-07-17	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	162073	2020-07-17	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	167399	2020-07-17	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	167411	2020-07-17	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	206959	2020-07-17	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	214751	2020-07-17	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	216263	2020-07-17	Active	100	Larry Herbert	Dixie Halo South

DIXIE LAKE AREA	219725	2020-07-17	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	219726	2020-07-17	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	262686	2020-07-17	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	299975	2020-07-17	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	299989	2020-07-17	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	330624	2020-07-17	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	332596	2020-07-17	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	101894	2020-11-10	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	117207	2020-11-10	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	117208	2020-11-10	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	117209	2020-11-10	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	158140	2020-11-10	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	158141	2020-11-10	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	158142	2020-11-10	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	164171	2020-11-10	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	203458	2020-11-10	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	211551	2020-11-10	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	230357	2020-11-10	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	230860	2020-11-10	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	259544	2020-11-10	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	278066	2020-11-10	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE	279604	2020-11-10	Active	100	Larry Herbert	Dixie Halo

AREA						South
DIXIE LAKE AREA	296905	2020-11-10	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	312648	2020-11-10	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	312649	2020-11-10	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	326177	2020-11-10	Active	100	Larry Herbert	Dixie Halo South
DIXIE LAKE AREA	326178	2020-11-10	Active	100	Larry Herbert	Dixie Halo South

Halo Project October 2019



BTU Capital Corp
General Ledger
November 1, 2018 to Sept 30, 2019

Expenditure Type	Vendor	Invoice No.	Amount	Item #	Note
Drilling	M3 Forage Drilling	1105 - Drilling	\$17,918.00	1	Prepaid \$6,250.00 credit
	M3 Forage Drilling	1121 - Drilling	19,624.00	2	Prepaid \$6,250.00 credit
	M3 Forage Drilling	1114- Drilling	22,065.00	3	Prepaid \$6,250.00 credit
	M3 Forage Drilling	1126 - Drilling	18,600.00	4	Prepaid \$6,250.00 credit
	M3 Forage Drilling	1127 - Drilling	12,685.00	5	
	M3 Forage Drilling	1128 - Drilling	12,075.00	6	
	M3 Forage Drilling	1130 - Drilling	11,570.00	7	
	M3 Forage Drilling	1132 - Drilling	25,762.50	8	
	M3 Forage Drilling	1132 - Lodging	9,000.00	8	
	M3 Forage Drilling	1139 - Drilling	21,725.00	10	
	M3 Forage Drilling	1148 - Drilling	21,005.00	11	
	M3 Forage Drilling	1177 - Drilling	21,195.00	12	
	M3 Forage Drilling	1178 - Drilling	15,665.00	13	
	M3 Forage Drilling	1183 - Drilling	19,022.00	14	
	M3 Forage Drilling	1182 - Drilling	33,183.50	15	
	M3 Forage Drilling	1200 - Drilling	19,680.00	16	
	M3 Forage Drilling	1199 - Credit note	(3,360.00)	17	
Total Drilling			\$297,415.00		

Assay Cost

Assay Labs	Act Labs Dryden	A19-10550	\$3,202.75	18	
	Act Labs Dryden	A19-10170	313.75	19	
	Act Labs Dryden	A19-11628	6,000.95	20	
	SGS Labs	RL 19006889	1,983.15	21	
	SGS Labs	RL 11255970	128.00	22	
	SGS Labs	RL11260106	17.15	23	
	SGS Labs	RL 11262215	69.50	24	
	SGS Labs	RL 11270519	69.50	25	
	SGS Labs	RL 11278624	278.00	26	
Total Assay Labs			\$12,062.75		

Drill Mob

Esker Logging	Mobing drill to site	849092		\$ 4,096.25	38	
Total Mob Cost				\$ 4,096.25		

Core logging, cutting, sampling

Core logging	C. St. Louis	CSTL 2019-1		\$ 5,400.00	27	
	C. St. Louis	CSTL 2019-2		\$ 6,000.00	28	
	C. St. Louis	CSTL 2019-3		\$ 4,200.00	29	
Core grabber/cutter		Middleton		\$ 829.25	30	
Core grabber/cutter	Ethan Dixon	Ethan Dixon -1		\$ 2,000.00	31	
	Ethan Dixon	Ethan Dixon -2		\$ 1,200.00	32	
	Ethan Dixon	Ethan Dixon -3		\$ 2,600.00	33	
	Ethan Dixon	Ethan Dixon -4		\$ 2,600.00	34	
Cutting core, core grabber (50% of \$35446 other 50% spent on geophysics)	Vision Exploration	Vision Exploration		\$ 17,723.09	36	
Total Core Cutting Logging/Sampling Cost				\$ 42,552.34		

Core Shack Rental

Core shack rental	Red Lake Expediting & Logistics	13		\$ 2,825.00	35	
	Red Lake Expediting & Logistics	10		\$ 2,825.00	35	
	Red Lake Expediting & Logistics	7		\$ 2,825.00	35	
	Red Lake Expediting & Logistics	5		\$ 2,825.00	35	
	Red Lake Expediting & Logistics	1		\$ 2,825.00	35	
Total Core Shack Rental				\$ 14,125.00		

Supervision

Supervision, travel and accommodati ons		Earthhunt Resources	BTU-07-19		\$ 11,257.92	37	
Total Supervision Cost					\$ 11,257.92		
Total Cost					\$ 381,509.26		