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Report on 2015-17 Drilling Program on the South Swayze Property (Watershed/TME/Arimathaea East & Spyder Projects)

Porcupine Mining Division, Northeast Ontario

(December 9, 2015 – November 19, 2017)

UTM: 5268000N / 437000E [NAD83] ZONE17

NTS: 42 P/ 12 SW & SE

Exploration Permits : PR-15-10700 & PR-16-10943

Worked Performed on Mining Claim: 183318, 105649, 258885, 222958, 100408, 163531, 157524, 325420, 313368, 102012, 129028, 165492

Work Performed on Patented Claims: PAT-28520 & PAT-28524

PREPARED ON BEHALF OF IAMGOLD CORPORATION

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April 9th, 2019

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SUMMARY

The South Swayze East Property is located approximately 135 kilometers north of Sudbury and 110 kilometers south of Timmins, Ontario. Access to the property can be attained by vehicle from the Cote Lake Camp using the Mesomikenda Lake and Benneweis road system via Highway 144. The Swayze East Property consists of six different project areas, encompassing numerous single cell mining claims and 6 freehold patent claims (Spyder Patents). Claims covered in this assessment report have one of the two following ownerships: 70% IAMGOLD Corporation and 30% SMM Côté Gold Inc. or alternatively are owned by IAMGOLD Corporation through its wholly-owned subsidiary 986813 Ontario Limited (70%) and SMM Côté Gold Inc (30%). The Patents covered in this assessment report are under the ownership of Treelawn Group Inc (7.5%), IAMGOLD (64.75%), and SMM Côté Gold Inc (27.75%).

Most of the reported historical exploration in the area was concentrated between 1980 and 1990, with the most recent historical exploration in 2010-13. Historical work included mapping, ground magnetic and VLF-EM geophysical surveys, with local blasting and trenching. Several airborne surveys have also been completed A total of 3,814 meters of drilling was carried out historically as a series of multiple programs that spanned from 1971 to 2011. IAMGOLD Corp. conducted considerable surface exploration work from 2012 to current, with surface exploration consisting of line-cutting/gridding, pole-dipole induced polarization (PDIP), mapping /prospecting and sampling, trenching and sampling, humus sampling, and diamond drilling.

The property is mainly located within the Chester Intrusive Complex (CIC - c.a. 2740 Ma), in the eastern part of the Pacaud Assemblage, at the southwestern extension of Abitibi Greenstone Belt. It consists of weakly metamorphosed syn-volcanic felsic intrusive rocks, metavolcanics, and metasediments intruded by a variety of complex intermediate to mafic intrusives. The supracrustal rocks underlying the claims are characteristic of the Chester Intrusive Complex (CIC), with granodiorite and tonalite being the dominant felsic intrusive underlying the property (65%).

Mafic metavolcanics (8%), in the form of massive mafic flows, and gabbro mafic intrusive accounts for 20% of the underlying rock types. Chemical and clastic metasediments have been recognized as inter-formational horizons within the mafic metavolcanics. Timiskaming sediments (c.a. 2676-2685 Ma) accounts for approximately 5% of the underlying rocks on the property, and are characterized by CIC clast supported conglomerate. All rock types have been cross-cut by a series of dominantly younger Matachewan diabase dykes (<1%). The supracrustal have undergone lower greenschist metamorphism, with no contact metamorphism identified.

The Ridout Deformation Zone (RDZ) extends for 10 kilometers as part of a 120 kilometer long regional structure, This steeply south dipping, east-west brittle-ductile deformation zone consists of a number of anastomosing shear structures exhibiting dextral movement It has overprinted mainly the mafic metavolcanics and to a lesser degree on the felsic metavolcanics, Timiskaming sediments, and CIC. The Mesomikenda Structural Corridor (MSC) trends northwest for at least 2.5 kilometers and consists of at least eight (8) known gold and polymetallic gold occurrences.

This report describes a series of drill programs which were designed as deeper undercuts to test known occurrences and the IP chargeability responses and develop a better understanding of the litho-stratigraphy and structural relationships along both the MSC and RDZ to host gold mineralization. A total of 3,814 meters of diamond drilling in fifteen (15) NQ diamond drill holes were completed during different periods of time between December 9, 2015 and November 19, 2017 by both Laframboise

Drilling Inc. and Chenier Drilling Services. Two of the fifteen drill holes were abandoned at shallow depths. The location data reported is in UTM coordinates, NAD 83 datum and zone 17.

Although the gold results were disappointing, the thirteen (13) drill holes explained and intersected the down-dip projections of the known occurrences and IP chargeability zones. Most of the drilling was directed along the Mesomikenda Lake Structural Corridor (10 drill holes), with two (2) drill holes on the RDZ and one drill hole (BEN16-09A) directed to a series of IP chargeability zones and sulphide occurrences just north of Benneweis Lake. Most of the drilling was completed in the CIC and gabbro contacts within the CIC, particularly in the North Shear, where CIC 'magmatic' breccias are prolific and host the gold bearing mineralization. The drilling on the RDZ (WAT17-05 & 06) intersected bimodal mafic and felsic metavolcanics and the drilling on the 'Spyder' claims investigated the down-dip projections of historical occurrences within the CIC and the CIC and felsic metavolcanic contact. The drill hole in the Benneweis Lake area intersected both CIC and a thick sequence of felsic metavolcanics.

The most positive results from the various drill programs were returned from the deeper drilling along the North Shear Zone with a wider dispersal of gold mineralization (WAT 17-10 - 214.3 to 230.8 m - 0.62 g/t Au / 16.5 meters) at approximately 200 meters vertically below surface. Also, drill hole WAT17-09 intersected 0.34 g/t Au / 13.9 meters from 128.8 to 142.7. These intercepts are hosted in a wide berth of deformed and altered ankerite-siderite overprint of the CIC 'magmatic' breccia at the transition contact between CIC and gabbro. The gold-bearing mineralization is associated with strong silicification-(albite alteration) and increased and more consistent pyrite-(arsenopyrite) mineralization. Three different intrusive phases have also been identified, with two relating to the CIC. All these features infer a deeper buried gold-bearing system along a structurally controlled strata-bound transition contact in a complex intrusive, similar to Cote. The North Shear fits the orogenic model, with respect to widespread ankerite alteration, gold mineralization, gold and pathfinder attributes, and gold-bearing mineralization overprint over multiple host rocks.

The drill program has identified and confirmed known historical Au occurrences and IP chargeability responses and gave a better understanding to the litho-stratigraphy within both the MSC and RDZ. Although no significant gold values were returned, the discovery of widespread buried anomalous gold-bearing mineralization on the North Shear Zone is encouraging. A thorough compilation is recommended for future work ad should encompass the following:

1) Integrate historical and 2015-17 IAMGOLD drilling data
2) Evaluate surface prospectivity along the MSC and potential of deeper targets of the North Shear
3) Consider bore-hole EM or IP surveying on WAT17-09 and 10 on the North Shear, in order to locate stronger and deeper off-hole targets related to gold mineralization

1.0) Introduction

1.1 General

The South Swayze East Property consists of multiple project areas identified as Watershed East, TME East, Arimathaea East, Makwa, and Sheridan Projects and the Spyder patent claims (dubbed King Errington) within the Porcupine Mining District. The property is located 110 kilometers south of Timmins, Ontario and 135 kilometers north of Sudbury, Ontario (Figure 1). A series of small drill programs were carried out between December 9, 2015 and November 19, 2017, covering 12 single cell claims in Chester/Neville Townships and Benneweis Township. A two-hole drill program was also completed on two patents claims, PAT-28520 & PAT-28524 ('Spyder' patents) , in Chester Township. The provincial cell IDs can be seen in Table 1. A total of 3814 meters of drilling was completed during this three year period. The drilling was performed under two exploration permits: PR-15-10700 & PR-16-10943 (Table 1).

The purpose of the 2015-17 drilling program was to test the gold potential of both known historical gold occurrences and IP chargeability responses, particularly along the Mesomikenda Structural Corridor (MSC), as well as the Ridout Deformation Zone (RDZ). The intention of this report is assemble the most recent drilling for assessment credit purposes, as well as describe and interpret the geology and geochemical results from these series of small drill programs from 2015 to 2017.

2.0) Property Description and Location

2.1) Location, Access, and Accommodation

The South Swayze East Property is located 110 kilometers south of Timmins, Ontario and 135 kilometers north of Sudbury, Ontario (Figure 1). It is situated in Benneweis, and parts of Chester, St. Louis, Neville, Groves, and Champagne Townships, Porcupine Mining Division (NTS 41 P/12SW and SE).

The property can be accessed north from Sudbury or south from Timmins by means of Highway 144 for 135 kilometers and 110 kilometers, respectively. The IAMGOLD Cote Gold Camp is located within the property, located in the general area of the Watershed East Project area on Mesomikenda Lake. Highway 144 and the Mesomikenda Lake Road provide direct road access to the western part of the project, whereas, the Benneweis logging road and its secondary logging spur roads and trails provide direct access to the southern, eastern, and central parts. A number of drill access trails offer direct access from the main road access points, via the use of UTV (side by side) travel to various drill hole locations.

2.2) Description of Mining Claims

The South Swayze East Property includes 6 project areas named Watershed East, TME East, Arimathaea East, Spyder Claims, Makwa & Sheridan Option. See Figure 2 which shows the claims in the drilling campaign area. Table 1 below gives the details of the 12 single cell claims as well as 2 patents on which the drilling campaign was performed.

Table 1 – Claim Details for the 2015-2017 Swayze East Drilling Campaigns

Legacy Claim Id	Township / Area	Tenure ID	Tenure Type	Anniversary Date	Cell ID	Exploration Permit	Ownership
539286	BENNEWEIS	183318	Single Cell Mining Claim	2021-05-22	41P12C071	PR15-10700	986813 Ontario Ltd. (70%) & SMM COTE GOLD INC (30%)
539286	BENNEWEIS	105649	Single Cell Mining Claim	2021-05-22	41P12C091	PR15-10700	986813 Ontario Ltd. (70%) & SMM COTE GOLD INC (30%)
4240907	CHESTER	258885	Single Cell Mining Claim	2020-02-07	41P12C123	PR16-10943	IAMGOLD (70%) & SMM COTE GOLD INC (30%)
4240907	CHESTER	222958	Single Cell Mining Claim	2020-02-07	41P12C103	PR16-10943	IAMGOLD (70%) & SMM COTE GOLD INC (30%)
4240907	CHESTER	100408	Single Cell Mining Claim	2020-02-07	41P12C104	PR16-10943	IAMGOLD (70%) & SMM COTE GOLD INC (30%)
4240907	CHESTER	163531	Boundary Cell Mining Claim	2020-02-07	41P12C084	PR16-10943	IAMGOLD (70%) & SMM COTE GOLD INC (30%)
4240907	BENNEWEIS,CHESTER	157524	Single Cell Mining Claim	2020-09-11	41P12C105	PR16-10943	IAMGOLD (70%) & SMM COTE GOLD INC (30%)
3004844	CHESTER	325420	Boundary Cell Mining Claim	2020-12-08	41P12C081	PR16-10943	IAMGOLD (70%) & SMM COTE GOLD INC (30%)
3004844	CHESTER	313368	Boundary Cell Mining Claim	2020-12-08	41P12C081	PR16-10943	IAMGOLD (70%) & SMM COTE GOLD INC (30%)
3010239	CHESTER,NEVILLE	102012	Boundary Cell Mining Claim	2020-07-05	41P12F382	PR16-10943	IAMGOLD (70%) & SMM COTE GOLD INC (30%)
3010239	CHESTER	129028	Single Cell Mining Claim	2020-07-05	41P12C002	PR16-10943	IAMGOLD (70%) & SMM COTE GOLD INC (30%)
4249459	CHESTER,NEVILLE	165492	Boundary Cell Mining Claim	2022-02-03	41P12F382	PR15-10700	IAMGOLD (70%) & SMM COTE GOLD INC (30%)
	CHESTER	PAT-28520	Patent				TREELAWN GROUP INC (7.5%), IAMGOLD (64.75%), SMM COTE GOLD INC (27.75%)
	CHESTER	PAT-28524	Patent				TREELAWN GROUP INC (7.5%), IAMGOLD (64.75%), SMM COTE GOLD INC (27.75%)

The Watershed/TME/Arimathaea East and Makwa projects and Spyder patents are wholly owned by joint venture IAMGOLD Corporation (70%) and Sumitomo Metals (SMM Cote Gold Inc) (30%). The Sheridan Option claim group is an agreement between IAMGOLD (37.5%), Sumitomo Metals (15.3%), and ET Gold Mining Company Limited (49%). IAMGOLD is the operator of all the projects. The Arimathaea East Property is owned by IAMGOLD (70%), through its owned subsidiaries Ontario Numbered Company 2294167 and Ontario Numbered Company 986813, and Sumitomo Metals (30%).

Figure 1 – Location Map of South Swayze East Property

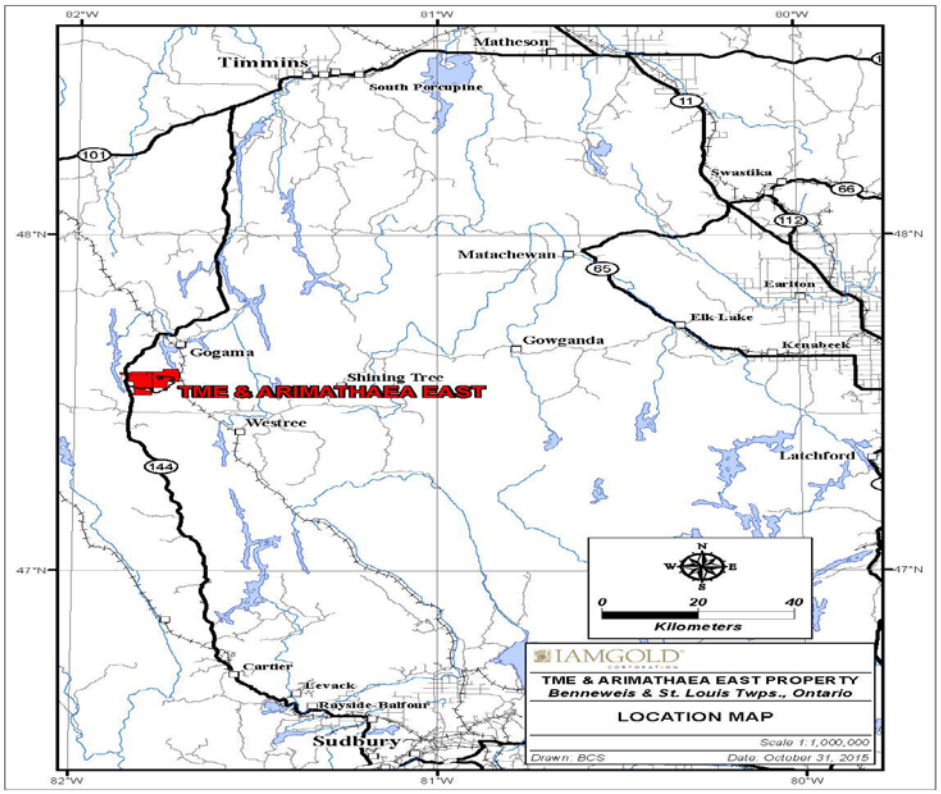
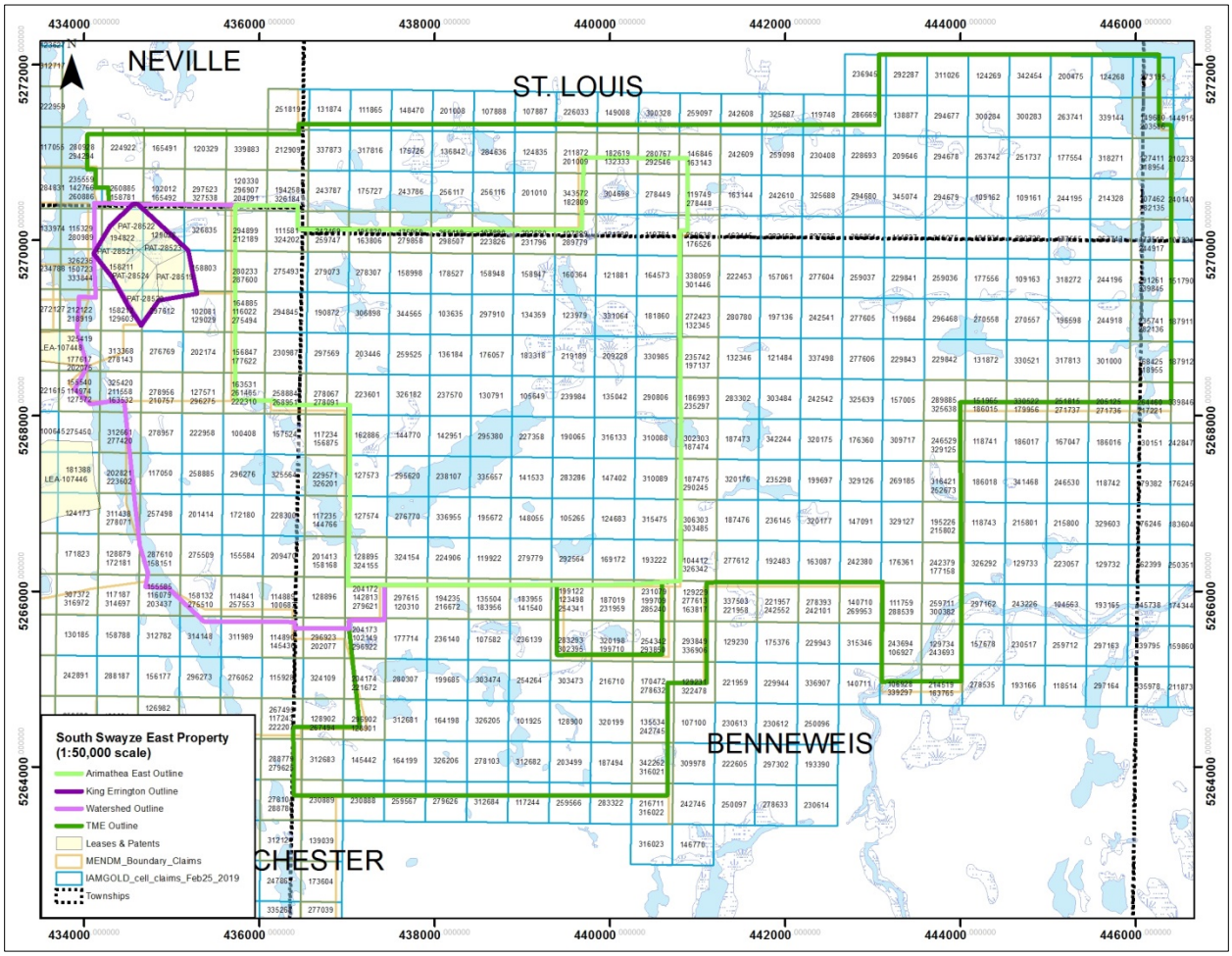


Figure 2 – South Swayze East Property (1:50,000 scale)



3.0) Physiography and Vegetation

The height of land ranges from 348 m and 413 meters above sea level. Overburden thickness is largely unknown in some areas with no documentation of overburden thickness, but from this drilling program, overburden is up to 14 meters, and typically less than 3 meters. Overall, bedrock exposures range from <1% to locally up to 5%. The overburden cover consists of unconsolidated glacial silty sand to silty clay in generally boulder-rich till in higher relief areas, and thick organic matter and clay in poorly drained lower relief areas. In the higher relief areas, the A and B horizon is well developed in the unlogged areas, whereas the lower relief, swampy areas are characterized by thick moss and a thin veneer of organic-rich humus. Sandy to silt-rich esker type terrain is prominent along the eastern shoreline of Mesomikenda Lake, located in the western part of the property. The esker terrain is characterized by locally steep relief. For the most part, the relief of the property is flat with very gentle relief. The lower relief areas are occupied by extensive clay-rich swamp and muskeg with poor drainage.

The western and eastern part of the South Swayze East Property area is bounded by Mesomikenda and Minisinakwa Lake, respectively. There are three major drainages on the property with Benneweis Creek being the most prominent drainage area, flowing northeast to eastward from Benneweis Lake through Stivale Lake into Benneweis Bay of Minisinakwa Lake. Drainage from Errington Lake flows westward into Mesomikenda Lake. The third drainage is the Mollie River, which drains southeastward

from Minisinakwa Lake to Dividing Lake. There are a number of smaller lakes with interconnecting drainage patterns, with two lakes on the southeast section of the Errington grid draining southeastwards into Mollie River

For the most part, the property is characterized by occasional (<1% to 5%) rock outcrop exposure with an increase in frequency along the Benneweis logging road and in recently logged out areas. There appears to be a relative increase in exposure in the eastern part of the claim. Outcrop occurs as intermittent low-lying exposures and as local rock faces in higher relief areas. Vegetation consists of mainly of black and white spruce balsam with local poplar, birch, cedar, and jack pine, along with secondary growth of alders and moose maple. Swampy, recessive areas are characterized by alders and locally by cedar, with open grassy and low-lying grass/brush surrounding most of the lakes and creeks. The east-central part of the property area (TME Project Area) has undergone extensive logging activity.

4.0) Historical Exploration

Most of the early gold discoveries in the South Swayze East Property were documented in the early 1930's with the initial gold discovery being traced back to 1916 on the Spyder patents. A small 60 ton bulk tonnage was procured from King Errington Main Zone on the Spyder patent, which returned 0.169 oz/t Au (5.79 g/t Au) and 7% Cu. Over the next two decades, increased prospecting led to the discovery of additional and more significant gold finds, which lie along a northwest trend from about Bernice Lake to Mesomikenda Lake for approximately 2.2 kilometers. They include the North and South Shear Zones, Hydro, Blanchard, and King Errington Main and South Zones. Most of the organic/first pass historical exploration work was concentrated between 1980 and 1990 in this area, until more recent exploration efforts by GoldOn / Newcastle (2010-11) and Sanatana (2011-13). The remaining part of Swayze East has undergone sporadic exploration, with surface exploration comprising of geological mapping, ground magnetic and VLF-EM geophysical surveys, and localized diamond drilling, blasting, and trenching. Also, numerous airborne surveys have been carried out in the region with the most recent one carried out by Trelawney Mining & Exploration in 2010 (Tables 3, 4, & 5). With a take-over of Trelawney by IAMGOLD Corporation, a more consolidated land package was established , which resulted in the completion of an airborne VLF-EM and gradient magnetic survey over the entire South Swayze East Property in 2010.

A brief summary of exploration work for the area follows;

- In 1916, King Errington Main Zone was discovered and a 60 ton bulk sample was collected and shipped, returning 0.169 oz/t Au (5.79 g/t Au) and 7% Cu

- In 1922, gold (North Bay Occurrence) was discovered 800 meters east of the railway bridge at Makwa (in Champagne Township)

- Early 1930's, prospecting led to more discoveries along Mesomikenda Lake Road with discovery of the Eccles-Holmes No 1 and 4 Vein (South Shear, Hydro, & Blanchard) and the Makwa-Champagne Occurrence (2 quartz lenses) in 1933 by Makwa-Champagne Gold Mines Limited near the Mollie River

- 1980 to 1990 – most of first pass surface exploration was conducted during this time with localized to sporadic drilling.

The more significant drilling campaigns occurred in;

- 1971 - Broken Hill Exploration carried out a small 3 drill hole campaign totaling 305.1 meters in the Bernic Lake area. No significant Au values are reported.

- 1971 – Molly River Mining Limited completed 306.9 meters of drilling in 7 drill holes in the Mollie River Area with no assays being reported.

- 1983 - Hargor Resources completed 6 diamond drill holes comprising 625 m at the Williamson-Champagne Occurrence, located near the Mollie River in the southeastern part of TME East. TME East. No significant Au results are reported.

- 1983 - Jarvis Resources completed 3 diamond drill holes totaling 151.5 meters near Minisinakwa Lake. Best intercept is 1.37 g/t Au / 3.05m

- 1986 - King Errington Resources carried out a shallow 11 drill-hole program totaling 771.4 meters near the Mesomikenda Lake Road. No Significant Au-Ag-Cu results were reported.

- 1993 – Drilling was carried out on Douglas-Tomasini Property (Kinross Option?) near Highway 144 and Benneweis Road. A total of 6 shallow holes were completed totaling 339.8 meters. Drill-hole 93-04 intersected 4.49 g/t Au / 1.52 meters (Sidewinder Zone) with an underlying hole intersecting similar-type alteration and mineralization for 6.9 meters. This interval was inadequately sampled

- 2010-11 - First Lithium Resource/Newcastle Minerals Ltd drilled 1952.9 meters in 10 diamond drill holes (MR10-01 to10) located in the southern-most part of TME East. Although assays were discouraging, one drill hole (MR10-10) reported 1.83 g/t Au over 0.51 meters.

Table 2 – Summary of Historical Exploration on Makwa

Company	Year	AFRI Number	Description of Historical Exploration Work
Ontario 1571925 Ontario Ltd.	2012	20000007088	13.2 km of ground VLF-EM and magnetics in Mollie River area; outlined 3 VLF-EM zones
Jo-Anne Salo	2010	20000005827	Radiometric scintillometer survey and sampling in Mollie River area; no Au assays reported
Blue Falcon Mines Ltd.	1990	41P12SE0520	High sensor airborne magnetometer/VLF-EM survey (Terraquest Ltd) covering a survey area of 475.5 line kilometers covering parts of 5 townships; covers entire Benneweis Township
Canadian Gold Resources Drilling	1986	41P12SE0517	504.4 meters of diamond drilling in 5 drill holes; no significant Au values
Hargor Resources Inc.	1983	41P12SE0522	624.8 meters of diamond drilling in 6 drill holes, no significant Au results
Hargor Resources Inc.	1980	41O09NW9161	441.6 line kilometers of regional airborne EM, VLF-EM, and magnetic survey, part of the survey covers off on Benneweis and Groves townships
Molly River Mines Ltd.	1971	41P12SE0523 & 41P12SE0524	29.8 km of ground VLF-EM and 15.7 of ground magnetic surveys followed by 306.9 meters of drilling in 7 drill holes in the Mollie River Area; no assays reported

Table 3 – Summary of Historical Exploration on TME/Arimathaea East Projects

Company	Year	AFRI Number	Description of Historical Exploration Work
First Lithium Resources Inc. (option with Newcastle Minerals Ltd.)	2010-11	20011273	1952.9 meters of drilling in 10 diamond drill holes (MR10-01 to10) located south and adjacent to southeast sector of TME Project; most significant intersection in drill hole MR10-10, which returned 1.83 g/t Au over 0.51 meters.
Newcastle Minerals Ltd.	2010	20008776	Ground IP and magnetic survey (27.5 km) by Vision Exploration adjacent to the southeastern part of the TME Project
Trelawney Mining & Exploration Inc.	2010	20010189	Airborne VLF-EM and magnetic gradient survey (5473 line km) covering all of TME Project area
Larry Salo	2006	20002943	Trenching and water stripping program located southeast part of TME project near the Benneweis logging road
Larry Salo	1993	41P12SE0001	Blasting/trenching, manual cleaning, mapping & prospecting/sampling, ground VLF-EM (19.3 km) and magnetic survey (18.3 km)
Blue Falcon Mines Ltd.	1990	41P12SE0520	High sense airborne magnetometer/VLF-EM survey (Terraquest Ltd) covering a survey area of 475.5 line kilometers covering parts of 5 townships; cover all of Benneweis Twp
Chesbar Resources Inc.	1989	41P12SW0011	Geological mapping and sampling in south part of TME Project area
Chesbar Resources Inc.	1988	41P12SW0012	Ground VLF-EM & magnetic survey (20.5 km) in south part of TME project area
Actuate Resources Inc.	1988	41P12SE0526	Ground magnetic survey (89.875 km) in the south part of the TME Project area
Blue Falcon Mines Ltd.	1988	41P12SE0527	Line-cutting & geological mapping (78 line km) covering the south-central part of the TME Project
633861 Ontario Ltd.	1985-86	41P12SE0528	Airborne magnetic/VLF-EM survey (236 line km) by Terraquest Ltd; covered the south eastern portion of the TME Project area
Blue Falcon Mines Ltd	1985	41P12SE0507	Airborne magnetic/VLF-EM survey (4000 line km) covering parts of 10 townships, including Benneweis Twp and the Mollie River Project (West Block) claim P 4243739
Jarvis Resources	1983	41P12SW0003	151.5 meters of diamond drilling in three drill holes; most significant intersection is 1.37 g/t Au / 3.05 meters
E. Blanchard	1983	41P12SW505	Plugger work, blasting, and excavating – located south-central part of TME Project in current open cut area (~KM6-7 Benneweis logging road spur) -no assays/maps
E. Blanchard	1982	41P12SW5054-5055	Plugger work, blasting, and excavating – located south-central part of TME Project in current open cut area (~KM6-7 Benneweis logging road spur) -no assays/maps – no assays/maps
National Irron Mines Ltd.	1981	41P12SW0011	Line-cutting & geological mapping (30.6 km), and geophysical compilation
Hargor Resources Inc.	1980	41O09NW9161	Airborne Magnetic and VLF-EM Survey (Rexhem-1 System); flew 4203 line km including northeast part of property in the Minisinakwa Lake area

Table 4 – Summary of Historical Exploration on Watershed East Project

Company	Year	AFRI Number	Description of Historical Exploration Work
Sanatana Resources Inc.	2014		Caracle Creek Independent 43-101 Technical Report
Sanatana Resources Inc.	2013		17.3 km of ground magnetic survey on North Shear
Sanatana Resources Inc.	2012		Trenching, power wash stripping, mapping /sampling, channel sampling on North Shear; best results are 38.89 g/t Au / 1.22m
Sanatana Resources Inc.	2012		Regional B-horizon soil sampling (1450 samples), as part of the program, one of the areas with the most significant Au results (92 ppb) is located in the Dividing Lake area
Sanatana Resources Inc.	2011-12		Regional reconnaissance mapping and sampling, as part of the program Au results from the Hydro Zone returned 0.03 g/t Au to 2.46 g/t Au
Sanatana Resources Inc.	2011		Interpretation of Augen airborne magnetics and structural interpretation;
Sanatana Resources Inc.	2011		Geotech airborne ZTEM and magnetic surveys; flew 641 line km covering 78 km^2
Boissonneault	1997	41P12SW2002	Trenching, blasting, sampling, and 4 shallow Winkie drill holes totaling 36 meters on Blanchard Showing; up to 5.40 g/t Au, 2.01% Cu in grab samples, best intersection in drilling is 1.27 g/t Au / 1.5 m in drill hole
Blanchard	1997	41P12SW0033	Trenching and blasting in Parking Lot area at Cote Camp; Au values range from 0.55 g/t Au to 76.37 g/t Au
Tomasini	1993	41P12SW0008	339.8 meters of diamond drilling in 6 drill holes; best intersection from drill hole 93-04 returned 4.49 g/t Au / 1.52m (Highway 144/Benneweis Road – Sidewinder Showing)
Consolidated Silver Butte Mines	1986-1989	41PSW0027 & 41P12SW8456	Report of geological mapping and sampling on North Shear (1.0 g/t Au), South Shear (16.03 g/t Au), Hydro (25.72 g/t Au in 1986), & Blanchard (1.78 g/t Au in 1986)
Consolidated Silver Butte Mines	1987-1988	41P12SW0028, 41PSW0039, & 41P12SW8451	Report of mapping and prospecting, 32 km of ground VLF-EM survey, and 624 B-horizon soil sampling (North/South Shear, Hydro, & Blanchard areas)
Blue Falcon Mines Ltd.	1985	41P12SW8506	4000 line km of airborne VLF-EM and magnetic survey covering parts of South Swayze East Property
Company	**Year**	**AFRI Number**	**Description of Historical Exploration Work**
Murgold Resources Inc.	1983	41P12SW0002	Regional ground VLF-EM surveys, 1000 B-horizon soils, part of survey covered off the (Highway 144/Benneweis Road – Sidewinder Showing) – reported 26.03 g/t Au fro grab sample
Murgold Resources Inc.	1981	41P12SW0004 & 41P12SW0071	Regional geological mapping/sampling with grab sample returning 6.85 g/t Au from Highway 144/Benneweis Road (Sidewinder Showing), regional VLF-EM survey covering the west part of the South Swayze East property
William Sims	1980	41P12SW0018	32.6 km of ground VLF-EM and magnetic surveys in the North/South Shear area
Sims Industries Ltd	1979	41P12SW0019	54.4 line km of airborne magnetic survey and prospecting/sampling on Hydro (16.44 g/t Au / 1.43m) and South Shear (20.20 g/t Au/1.02m)
Broken Hill Exploration	1971	41P12SW0020	305.1 meters of diamond drilling in 3 drill holes in the Bernic Lake area, no significant Au values intersected
W.R. Miller	1971	41P12SW0098	Drilling of 1 hole (45.7 meters) with no Au assays reported;

			located near bridge on Mesomikenda Lake near Cote Camp

Table 5 – Summary of Historical Exploration on Spyder Claims (King Errington)

Company	Year	AFRI Number	Description of Historical Exploration Work
King Errington Resources	1986-87	41P12SW0037	Check ground VLF-EM and magnetic surveys from previous airborne survey (1985), trenching, power-stripping, mapping/sampling, and shallow 11 drill-hole program totaling 771.4 meters near the Mesomikenda Lake Road. No Significant Au-Ag-Cu results were reported. A 2.3 tonne bulk sample was carried out over the King Errington Main Zone, which averaged 1.07 g/t Au, 17.6 g/t Ag, and 0.93% Cu.

4.1) 2010-17 IAMGOLD Corporation (Trelawney Mining & Exploration) Activities

IAMGOLD Corporation carried out a number of phased exploration programs that started in 2010 to recent on the various projects within the South Swayze East Property. (Table 6). Exploration work consisted of line-cutting, pole-dipole IP, geological mapping and sampling, prospecting and sampling, trenching/mapping/sampling, and humus/B-horizon sampling, and 6562 meters of diamond drilling in 23 drill holes (Table 6).

Table 6 - Exploration Work by IAMGOLD Corporation (Trelawney Mining & Exploration Ltd) from 2010-17

Time-Year	Project/Area	AFRI Number	Description of Exploration Program
Fall 2017	Watershed East	In this report	882 meters of diamond drilling in four (4) drill holes (including abandoned hole) on North Shear; highlights include WAT17-08A (2.08 g/t Au / 1.8m), WAT17-09 (0.34 g/t Au / 13.9m), and WAT17-10 (0.62 g/t Au / 16.5m)
Fall 2017	Makwa – Mollie River		13.9 line-cutting/gridding and 10.35 km of PDIP; several IP chargeability zones being outlined
Summer 2017	Watershed & TME East, Spyder Claims. Watershed North, & Arimathaea Northeast		Grid and regional mapping (~60 km) and sampling, orientation of B and humus soil sampling, trenching (2213 square meters) on North Shear which also included trench mapping, and grab/channel sampling (64.15 meters);
Spring 2017	Watershed and TME East	In this report	860 meters of diamond drilling in three (3) drill holes; targets are Hydro Zone and IP chargeability zones on RDZ/ECF; best intersection from Hydro Zone is from WAT17-07 which returned 1.59 g/t Au / 0.35 meters
Winter 2017	Watershed East – North-South Shear Grid		11.6 km of line cutting/gridding and 10.85 km of PDIP; outlined several IP chargeability zones
Fall 2016	Watershed East & Spyder Claims	In this report	1635 meters of diamond drilling in six (6) drill holes; best intersection from WAT16-02 (North Shear) in two separate zones which returned 0.57 g/t Au / 6.0 meters and 0.57 g/t Au / 7.0 meters
Summer-Fall 2016	Watershed & TME East & Spyder Claims - Highway 144 & Benneweis Logging Road		Mapping and sampling, 37.3 km of line-cutting/gridding, and 32.85km ground PDIP on three grids; 1) Benneweis Road, 2) Errington West, and 3) North Shear; outlined multiple IP chargeability zones on all three grids
Winter 2016	Arimathaea East - Benneweis Creek and Lake		9.45 km of in-fill pole-dipole IP to show continuity of chargeability zones between 400 m wide lines and complete IP chargeability shoulder anomalies
Fall 2015	Spyder Claims – King Errington	In this report	637 meters of diamond drilling in two (2) drill holes; highlight is 1.80 g/t Au (re-check 2.27 g/t Au) / 0.55 meters in KER15-01 on strike extension of the King Errington Zone as part of a 5.5 meter wide mineralized zone
Fall 2015	TME East -		1547 meters of diamond drilling in four (4) drill holes; highlight is 0.59 g/t Au / 0.55

	Benneweis Creek		meters in BEN15-07 within a wider 8.0 meter QTSW hosting arsenopyrite
Fall 2015	TM East - Benneweis Creek		Orientation B-horizon and humus samples (32 each) with follow-up 775 humus samples with outline of 5 gold anomalies and a strong gold-arsenic anomaly
Summer-Fall 2015	TME/Arimathaea East & Spyder Claims - Benneweis Creek and Lake		64 km of mapping, prospecting, sampling, and B-horizon soil (56 samples) on regional property and grid; highlights include grab samples up to 0.65 g/t Au and outline of QTSW for 550 meters proximal to chargeability response
Winter-Spring 2015	TME/Arimathaea East - Benneweis Creek		34.3 km of pole-dipole IP survey; outlined four distinct IP chargeability trends
Fall 2014	Arimathaea East - Benneweis Lake		815 meters of diamond drilling in three (3) drill holes; highlights include 0.60 g/t Au / 0.7 meters in BEN14-04
Summer 2014	Arimathaea East - Benneweis Lake		Geological mapping and sampling
Winter-Spring 2014	Arimathaea East - Benneweis Lake		31.6 km of pole-dipole IP survey (A=50 & A=100 and N=6) outlined a number of IP chargeability trends
Summer - 2013	Arimathaea East - Benneweis Lake		186 meters in 1 diamond drill hole; no significant Au results
Winter 2013	Sheridan Option – west of CN rail line		Gridding & PDIP survey, geological mapping/sampling, & 545 meters in two(2) diamond drill holes; no significant Au results
Summer 2012	Sheridan Option		Airborne magnetics and VLF-EM, gridding & PDIP, and soil sampling
2010	Regional	20010189	Airborne VLF-EM and magnetic gradient survey (5473 line km) covering all of TME/Arimathaea East Property

5.0) Regional Geological Setting

The supracrustal rocks underlying the general area are located in the Swayze area, as part of the Pacaud Assemblage (ca 2750-2735Ma) in the Abitibi Subprovince of the Superior Province in the Precambrian Shield (Figure 3). The eastern part of the Pacaud Assemblage marks the boundary domain between the southern flank of the Nat River (granodiorite/tonalite) and the Kenogamissi (tonalite/diorite) granitoid complex to the north.

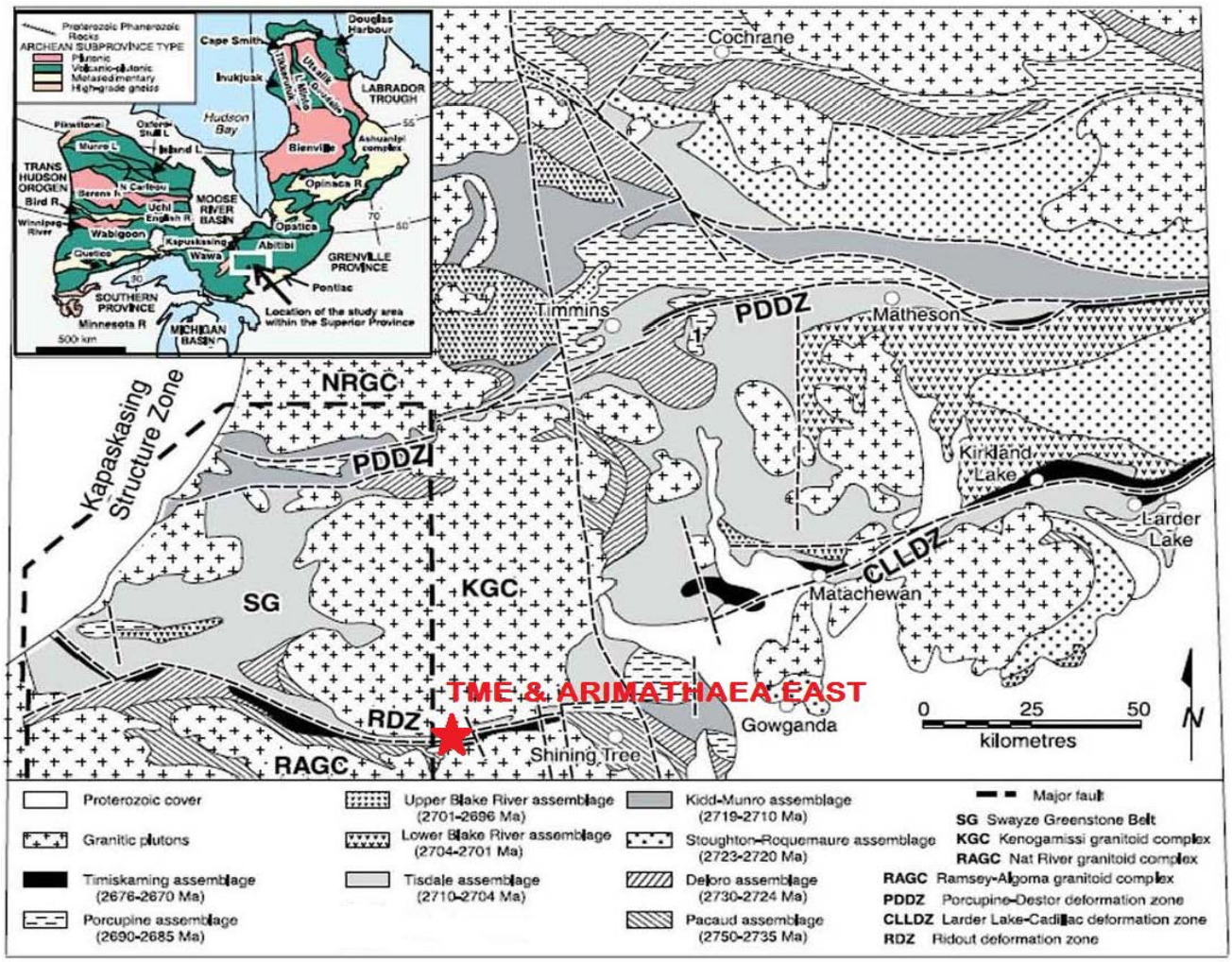
The eastern part of the Pacaud Assemblage is characterized by the eastern extension of the Chester Intrusive Complex (CIC - ca 2740 Ma), which comprises of a complex array of multiple intrusions of tonalite, granodiorite, to diorite in composition and associated intrusive breccias (Figure 4). This intrusive complex measures 24.5 km by the widest 4.5 km in the Cote Gold Deposit area. Bimodal felsic and mafic metavolcanics with clastic and chemical metasediments underlie the north side of the Chester Intrusive Complex (CIC). Timiskaming Sediments (ca 2676-2685 Ma) are prominent in the northwestern and northeastern part of the complex, and represent the youngest assemblage of rocks overlying the CIC. The Chester Group has also been intruded by younger gabbro and lesser diorite; although there are relationships which show contemporaneous timing of the gabbro with the CIC. Gabbro also occurs as an older series of intrusive bodies, acting as synvolcanic feeders to the extrusive mafic metavolcanics in both the southern and northern part of the mafic metavolcanics sequences. There are at least four separate diabase dike swarms, ranging in age from late Archean to late Proterozoic, present in the Swayze area: (1) the north striking Matachewan dike swarm, (2) the northwest striking Sudbury dike swarm, (3) the east to northeast striking Abitibi dike swarm, and (4) a southeast striking Biscotasing dike swarm (Lavigne et al – 2012).

The principal regional structure is the Ridout Deformation Zone (RDZ). The RDZ extends east-west for approximately 120 kilometers. Although not fully understood, this deformation zone consists of multiple, anastomosing high-strain zones reflected by a dominant penetrative foliation about un-deformed autochons, and shows a dominant dextral trans-compressional component. The RDZ marks the northern

boundary between the Kenogamissi (tonalite /diorite) granitoid complex and CIC for approximately 35 kilometers. The supracrustal rocks have undergone lower greenschist metamorphism.

The Côté Gold Project (IAMGOLD) has a measured mineral resource of 171,900,000 tonnes grading 0.96 g/t Au (5.31 Moz) and an indicated mineral resource of 183,500,000, tonnes grading 0.79 g/t Au (4.66 Moz) as stated in the most recent 2018 NI-43-101 Feasibility study (Wood, 2018). The Côté Gold deposit is hosted in the Chester Intrusive Complex in a series of altered and mineralized intrusives and intrusive breccias. Approximately 980,000 tons of gold-silver ore have been mined to date from seven deposits (Joburke, Jerome, Tionaga, Kingbridge-Gomak, Halcrow-Swayze, Young-Shannon, Lawrence). The largest production has been from the Joburke and Jerome Mines, The Joburke Mine yielded 632,292 tons grading 0.10 oz gold per ton (1973-75,1971-81), while the Jerome Mine produced some 56,893 oz Au and 15,114 oz Ag from 335,060 tons of ore (1938-1951) averaging 0.71 opt Au and 0.05 opt Ag (Coates – 2013).

Figure 3 – Regional Geology - Swayze Greenstone Belt in Abitibi Sub-Province (from van Breeman et al, 2006)



6.0) Property Geological Setting

The rocks underlying the South Swayze East Property are characteristic of the Chester Intrusive Complex (CIC) of the Pacaud Assemblage (Figure 4, 5, & 6). The property geology is consistent with the lithological rock type characteristics compiled by Berger (2011) and Siragusa (1983). Porphyritic felsic to intermediate intrusive of the CIC account for 65% of the underlying rock types on the eastern-most part of the property, with granodiorite and tonalite being the principal rock types (Figure 4). They are part of an extensive intrusive complex that extends east-west for approximately 24.5 kilometers. The metavolcanics are bimodal with both iron- and magnesium-rich basalts (8%) with minor ultramafic rocks and calc-alkaline rhyolite/rhyodacite felsic metavolcanics (2%) of the supracrustal rocks (Figure 5) The mafic metavolcanics consist of massive, very fine to fine-grained flows (may be in part evolved from gabbro feeders). Andesitic rocks are conspicuously absent. Felsic metavolcanics (2%) have been recognized in the western part of the property. Clastic metasediments in the form of Timiskaming Sediments account for 5% of the underlying rocks in the eastern-most part of the property. They form a 6.8 kilometer long stratigraphic section marking the northern mafic metavolcanics contact and the CIC and felsic metavolcanic equivalents to the south. This erosional and depositional nonconformity represents approximately a 55 to 66 My gap between the deposition of the Timiskaming Sediments and underlying CIC/felsic and the overlying mafic metavolcanics Gabbro-(diorite) intrusive bodies account for 20% and the remaining <1% part of the property is underlain by dominant north to northwest trending Matachewan diabase dykes. The supracrustal rocks underlying the property have undergone lower greenschist metamorphism.

The Ridout Deformation Zone (RDZ) is the most extensive regional structural boundary, extending east-west for approximately the length of the property for approximately 12 kilometers, as part of a 120 km regional strike length. The RDZ forms a series of anastomosing brittle-ductile dextral shear zones, which are found over a 300 meter width and represent a D2 deformation. It has largely overprinted both the mafic and felsic metavolcanic stratigraphy, and to a lesser degree the Timiskaming Sediments and the Chester Intrusive Complex. There are un-deformed domains within the RDZ. The Kenogamissi granitoid complex marks the approximate contact to the northern margin of the RDZ. It has been described as a moderately to steeply east-northeast to northeast plunging regional sequences, characterized by tight isoclinal folds. The RDZ has been cross-cut by two regional north-south faults with the most western-most Mesomikenda Lake Fault (120 km) and the eastern-most Minisinakwa Lake Fault (102 km). Both these faults show a significant sinistral displacement, between 300 meters and 700 meters, and reflect the earliest deformation (D1). The most other notable structures is the northwesterly Mesomikenda Structural Corridor, and the easterly trending Calvin and Hobbes Lineaments, which both parallel the RDZ within the CIC. The Côté Gold Deposit (IAMGOLD/Sumitomo Metals) is the principal gold resource in the area, with an indicated mineral resource of 196,079, 000 tonnes grading 0.90 g/t Au (5.93 Moz).

Figure 4 – South Swayze East - QAP Ternary Plot of CIC & Gabbro Intrusives

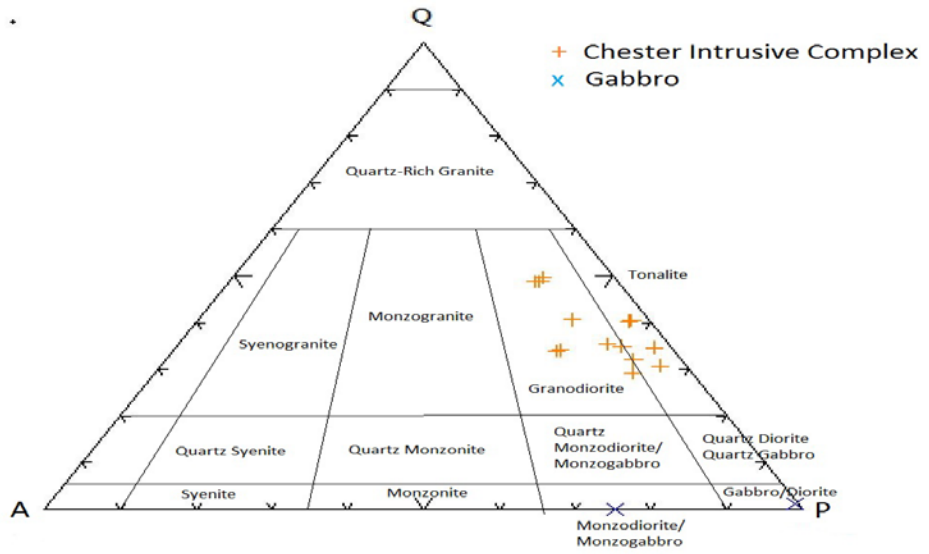
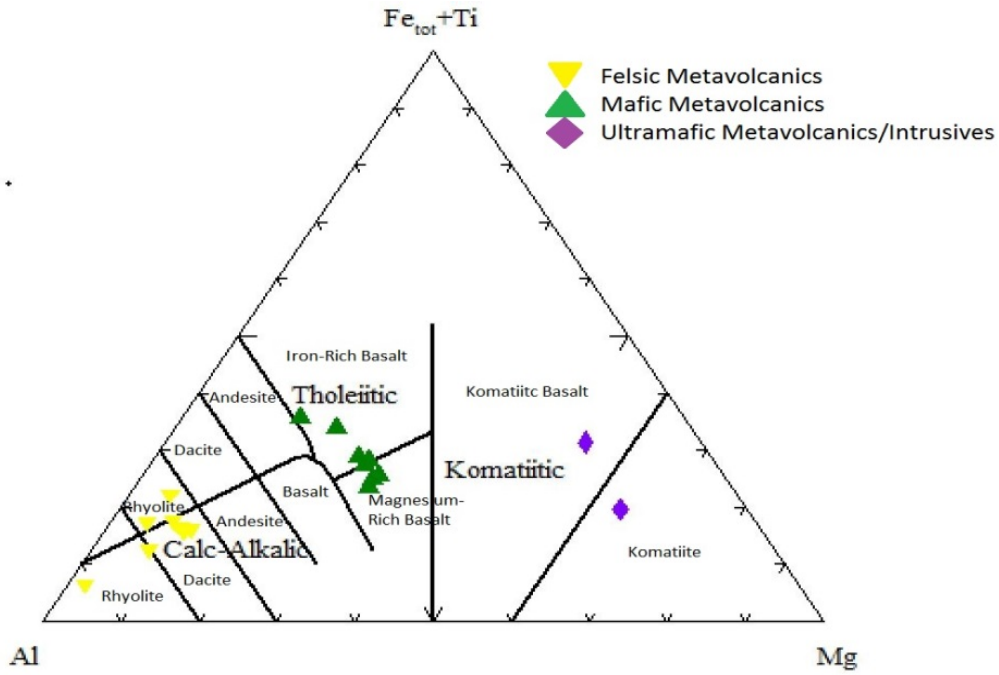


Figure 5 – South Swayze East – Jensen Cation Plot of Unaltered Metavolcanics

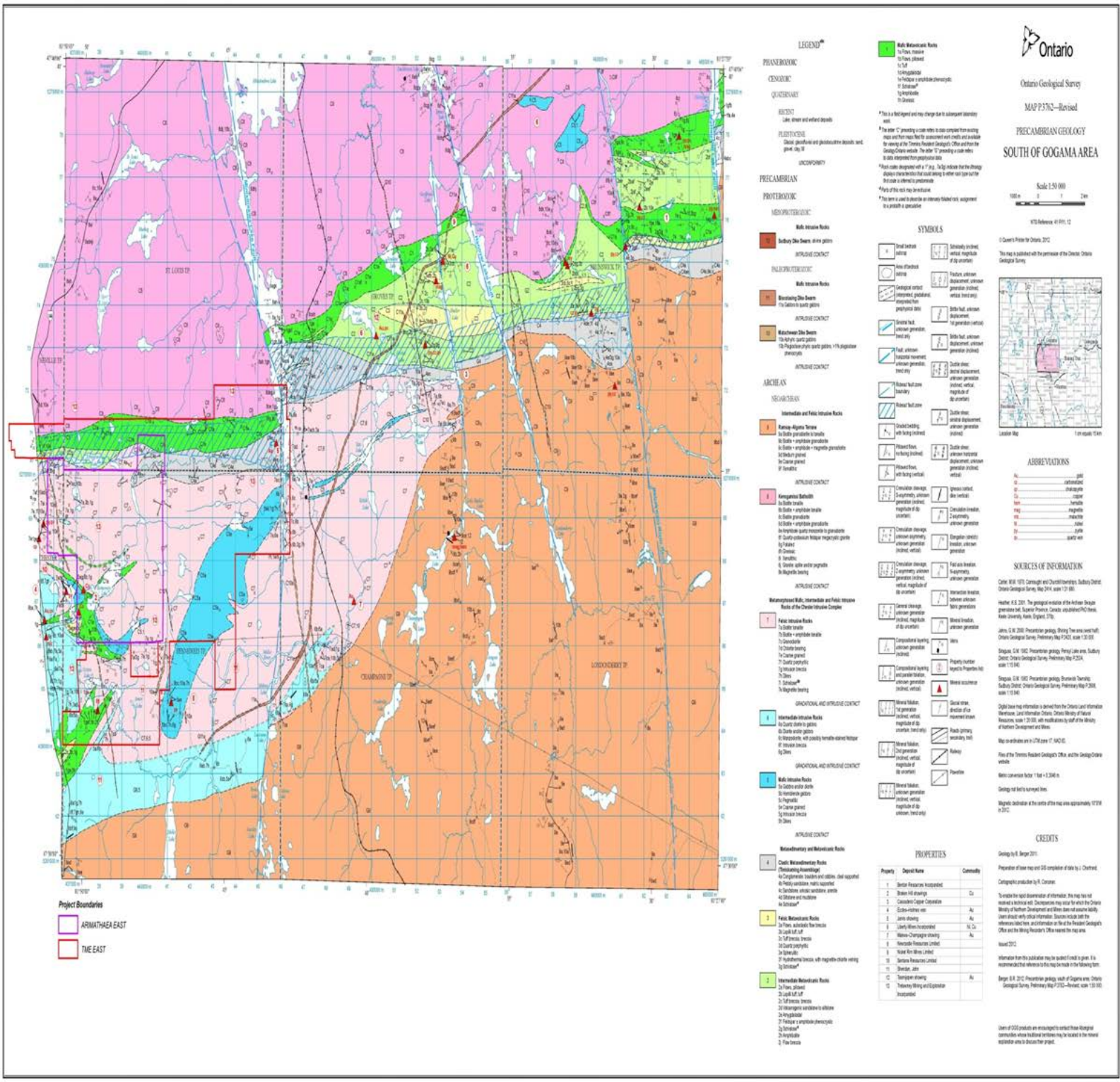


7.0) Deposit Types

The Swayze area is part of the Abitibi Subprovince, which extends from northwest Quebec to central Ontario and hosts a diverse array of precious and base metal deposits. Major breaks such as the Larder Lake-Cadillac and Destor-Porcupine Break host the majority of gold deposits (over 200 million oz of gold) in the Abitibi Subprovince. There are two distinct styles of gold mineralization; 1) orogenic lode-gold greenstone hosted mesothermal gold, and 2) intrusive-related 'porphyry' disseminated style. The latter are synvolcanic, showing similarities to multiple intrusive related to gold mineralization with a mesothermal overprint, such as the Lebel alkali syenite intrusive in Kirkland Lake and the Chester Intrusive Complex at Côté Gold Deposit

The potential of gold mineralization on South Swayze East Property fits more the orogenic style. The presence of a recessive east-west, linear, brittle-ductile shear structures between the more brittle CIC / felsic metavolcanics and relatively more ductile altered mafic metavolcanics and Timiskaming Sediments at their contacts is conducive to the orogenic model. Lode-gold quartz vein and wallrock replacement in shear environment (e.g. RDZ and their splays) are characteristic in most mining camps in the Canadian Shield.

Figure 6 – Regional Geology of South Swayze East Property –(OGS Map P3762)



8.0) Summary of 2015-17 Diamond Drill Programs

The purpose of this report is to describe several drill holes (15) within a number of different drill campaigns that spanned from 2015 to 2017. All the drill holes were to test a variety of targets, from known historical gold occurrences to ground IP chargeability and airborne magnetic responses. During this period, the drilling campaigns were to follow-up on positive results from surface exploration, which consisted of line-cutting/gridding, pole-dipole IP survey, mapping and prospecting, trenching and sampling, and limited humus/B-horizon soil sampling. This work led to confirmation of historical gold occurrences and the discovery of new gold zones, as well as, to explain a range of weak to strong chargeability and resistivity zones.

For the purposes of this report, the earliest stage of drilling commenced on December 9 to 14, 2015, with additional periods of drilling from October 21 to December 11, 2016, and from April 8 to November 19, 2017 in a two phase drill program. Two drilling contractors were used; 1) Laframboise Drilling Inc. (P.O. Box 400, Earlton, Ontario, P0J 1E0), and 2) Chenier Drilling Services Inc. (General Delivery, Val Caron, Ontario P3N 1N5). The drilling was conducted on single cell mining claims 183318 and 105649 in Benneweis Township, 258885, 222958, 100408, 163531, 325420, 313368, 129028, 157524, 102012, and 165492 in Chester & Neville Townships as well as two patented claims, PAT-28520 & PAT-28524 in Chester Township. A total of 3814 meters of diamond drilling in fifteen (15) diamond drill holes, which included two abandoned drill holes, were completed during this time, with the size of core being NQ. The drilling programs were conducted in the western part of the South Swayze East Property. This report describes and interprets the drilling results of the thirteen (13) completed diamond drill holes, WAT16-01 to WAT17-10, KER15-01 and 02, and BEN16-09A. Drill-hole survey data is presented in Table 7 and illustrated in the drill plan map in Figure 7. Drill logs, assay certificates, and QA/QC charts are located in Appendix 1, 2, and 3, respectively. A drill plan and vertical drill sections are presented in Appendix 4 and 5, respectively. A table of Abbreviations used throughout the report and drill logs is provided in Appendix 6. Appendix 7 summarizes drilling campaign expenditures as well as documents the invoices.

Table 7 – 2015-17 Diamond Drill Hole Survey Data

Drill Hole	Zone	Start Date	End Date	UTM_Easting	UTM_Northing	Elevation (m)	Azimuth	Collar Dip	Depth (m)	Total # of Samples
				(Nad 83, Zn 17N)	(Nad 83, Zn 17N)					
KER15-01	King Errington Main	09/12/15	13/12/15	434743	5269575	390	225	-50	413	194
KER15-02	King Errington Main	13/12/15	14/12/15	434575	5269743	391	251	-46.3	224	84
BEN16-09	IP chargeability	21/10/16	21/10/16	439142	5268479	391	191.5	-45	20	0
BEN16-09A	IP chargeability	21/10/16	26/10/16	439142	5268479	391	186	-45.6	506	330
WAT16-01	South Shear	27/11/16	01/12/16	435,470.12	5,267,534.30	399.82	49	-50	297	139
WAT16-02	North Shear	01/12/16	03/12/16	435,856.77	5,268,092.30	395.96	211	-70	184.5	109
WAT16-03	North Shear	04/12/16	11/12/16	436,106.49	5,267,715.65	404.55	22	-45	250.5	109
WAT16-04	Blanchard & Hydro	30/11/16	04/12/16	434,400.71	5,268,353.05	372.47	49	-46	377	177
WAT17-05	IP chargeability	17/04/17	19/04/17	434,899.18	5,270,231.25	377.48	356	-46	230	196
WAT17-06	IP chargeability	19/04/17	21/04/17	434,897.90	5,270,385.78	385.56	360	-46	230	174
WAT17-07	Hydro	08/04/17	10/04/17	434,632.52	5,268,530.49	378.21	228	-55	200	110
WAT17-08	North Shear	12/11/17	12/11/17	435944	5267915	397	37	-55	29	0
WAT17-08A	North Shear	12/11/17	14/11/17	435944	5267915	397	30	-55	243	109
WAT17-09	North Shear	14/11/17	17/11/17	436043	5267821	407	30	-55	302	205
WAT17-10	North Shear	17/11/17	19/11/17	435881	5267904	396	29.3	-53.7	308	153

8.1) Technical Aspects of the Drill Program

Two Hydraulic drill rigs, one by each drill contractor, were used to provide NQ sized (47.6mm diameter) core to a minimum length of 20 m and maximum length of 506 m (Table 7). Both Laframboise Drilling and Chenier Drilling made use of a feller buncher for tree harvesting to create drill pads and drill trails.

Single shot hole surveys were taken at 50m intervals and multi-shot surveys were conducted from the bottom of the hole at every 3m upward interval. Orientation of drill core was performed by the drill contractor using a Reflex Act-III core orientation tool which resulted in an orientation line at each 3m run. Core recovery was overall good. Measurements from the single shot survey were used to guide the hole during drilling while multi-shot survey data were used for plotting the drill hole.

The collar azimuths for drill holes were established using front and back site markers located in the field with compass or GPS. The collar locations were then taken by GPS waypoint averaging prior to drilling and the actual drill hole collar locations were subsequently re-surveyed post drilling. The UTM coordinates collected and recorded were in NAD 83, Zone 17.

8.2) Drill Core Processing and Procedures

Laframboise Drilling and Chenier Drilling Services delivered the drill core to the IAMGOLD Cote Gold core shack twice daily after each shift in secured wooden core boxes. The core boxes were then opened and laid out in sequence by IAMGOLD geologists and geotechnicians. A geologist would then perform a brief summary log of the drill core .

The drill core was then aligned by geotechnicians using the orientation lines located at every 3m run and a single line denoting the orientation would then be drawn. A geotechnician would then take geotechnical measurements of the drill core to record core recovery, RQD (Rock Quality Designation) and place meter markings on the drill core.

IAMGOLD corp. geologists were then tasked with performing geological core logging of each drill hole. The drill holes were logged using GEMS core logger software. The core logging geologist would use the software to identify the different lithological units down hole as well as provide observations on mineralization, alteration and veining. The geologist was also responsible for selecting and marking intervals for drill core sampling.

Following core logging the drill core was then transported to the core cutting room. Core cutting took place at the Cote Gold core shack. The core cutters would cut the drill core in half for the length of each sample and return each half back to the core box.

The drill core was then handed off to geotechnicians who were responsible for sampling. The geotechnicians, or ‘samplers’, would place one half of the cut core in a pre-labeled sample bag along with the respective half of the sample tag and the bag would be stapled shut. The other half of the drill core was left in place in the core box and the remaining half of the sample tag was stapled to the core box at the start of the sample. The samplers would also insert Certified Reference Material (CRMs) and blanks in labeled sample bags when indicated to do so. The samples were then placed in labeled rice bags with security tags which were then delivered to laboratory. Although diamond drilling reached completion on November 19th, 2017further processing of drill core continued into late November, 2017.

8.3) IAMGOLD Personnel

The drill program was carried out by IAMGOLD Corporation personnel. Alan Smith and Stephen Roach supervised logistics and QA/QC. Core logging, sampling and RQD at site was performed under the supervision of Stephen Roach. Table 8 lists all the personnel that were involved during diamond drilling at the Cote Gold site. The personnel involved in the program also had meals & lodging at the Cote Gold Exploration camp with the exception of the local core cutters & samplers.

This work was conducted at the Côté Gold Exploration camp and core shack on Mesomikenda Lake. All drill core from this program is stored at the property core farm.

Table 8 List of IAMGOLD Personnel

Name	Role	Location
Alan Smith	District Manager - Exploration	Sudbury, ON
Stephen Roach	Sr. Geologist -Exploration	Ottawa, ON
Joycelyn Smith	Jr. Geologist	Toronto, ON
Andrew Shea	Jr. Geologist	Sudbury, ON
Colin Dunham	Jr. Geologist	London, ON
Adam Waram	Jr. Geologist	Sudbury, ON
Shane O'Neil	Geotechnician	Sudbury, ON
Mark Sunarich	Geotechnician	Toronto, ON
Claude Constant	Cutters/Samplers	Gogama, ON
Doreen Luke	Cutters/Samplers	Mattagami, ON

9.0) Analytical Quality Control and Quality Assurance

An aggregate total of 2089 samples (including standards and blanks) were collected and analyzed from thirteen of the fifteen diamond drill holes. Samples from various drill holes were analyzed by three different laboratories with….

1) Activation Laboratories (1010 Lorne Street, Unit West 4, Sudbury, Ontario P3C 4R9) - BEN16-09A, WAT16-01 to WAT17-07
2) SGS Laboratories (1209 O'Neil Drive West, Garson, Ontario P3L 1L5) – KER15-01 and KER15-02
3) AGAT Laboratories (956 McAdam Road, Mississauga, Ontario L4Z 1N9) – WAT17-08A to WAT17-10

All samples were bagged, and secured with security twist tags in rice bags. The samples were personally delivered by IAMGOLD personnel to their respective site depots and/or picked up by transport and SGS and AGAT personnel. All samples were analyzed for gold by fire assay/AA with different ICP packages from the three laboratories. Activation Laboratories (Actlabs) carried out 61 element package, with SGS and AGAT at 49 and 48 element packages, respectively. All methods used, analyses, and detection limits are on hand in the form of assay certificates provided in Appendix 2.

All three laboratories are accredited by the Standards Council of Canada for accredited methods. Sample preparation, analytical and quality control procedures employed are mutually similar in procedure and are as follows:

9.1) Sample Preparation

Once the samples have been received, they are entered into a Laboratory Information Management System (LIMS) and given an internal sample control number. The samples are then checked for dryness prior to any sample preparation and dried if needed. The samples are crushed up to 90% passing through a 2 mm and rifle split 1000 passing 75 microns using a Jones Rifler.

Silica cleaning between each sample is also performed to prevent any cross contamination. Random screen analysis is performed daily to check for attainable mesh size.

9.2) Gold Analyses

A fire assay with an atomic absorption finish was used for gold analyses. All Au analysis is performed at a 50g charge by fire assay using lead collection with a silver inquart. The beads are then digested and an atomic absorption finish is used. The detection limit is 5 ppb

9.3) Multi Scan Analyses

A number of different element packages were utilized from the various laboratories with 61 element (Actlabs), 49 element (SGS), and 48 element (AGAT). All three laboratories performed a multi scan analysis using a near total to total four acid digestion (hydrochloric, nitric, perchloric, hydrofluoric). It is then analyzed by ICP-OES and ICP-MS method. Detection limits are outlined in the assay certificates in Appendix 2.

9.4) Whole Rock Package

A lithium borate fusion by XRF is used. This resulted in a 12 oxide element package with LOI and Total being measured. This package did not include rare earths or immobile elements such as Ta, Y, Zr, and Nb.

9.5) Laboratory and Company Quality Control / Quality Assurance (QC/QA)

Certified standard and blank assays are usually run for each rack of samples. A non-reproducible check assay are an indication of nugget problems within the sample and both laboratories recommend that further analysis be performed to generate a better representation of the sample.

All standards run are graphed to monitor the performance of the laboratory. Actlabs warning limit is 2 times the standard deviation and our control limit is 3 times the standard deviation. Any work order with a standard running outside the warning limit will have selected re-assays performed, and any work order with a standard running outside the control limit will have the entire batch of samples re-analysed.

All QC/QA data run with each work order is kept with the clients file. If desired, the client may have all the blanks and certified standards reported on a certificate to correspond to the client's samples. All quality control graphs are available upon request.

The laboratory also keeps daily log books for the sample throughput. These logs record all information pertaining to; 1) who performed the analysis, 2) when the analysis was done, 3) how the analysis was performed, and 4) what other sample were analyzed at the same time. This is done to help eliminate the possibility of misrepresentation and cross-contamination of the client's samples.

Actlabs instruments are calibrated using ISO traceable calibration standards and our quality control standards are created from separate stock solutions. Their instruments are directly tied to their quality control program eliminating the need for manual data entry, hence, reducing human error.

As part of IAMGOLD's QA/QC protocol on drilling programs, IAMGOLD inserted one standard and blank into this sample batch every 12 samples. The author believes that the results of sampling and analysis of core samples collected during this program reliably reflect the nature of mineralization observed. Standard and blank charts are presented in Appendix 3.

9.6) Discussion of Standard/Blank Analysis

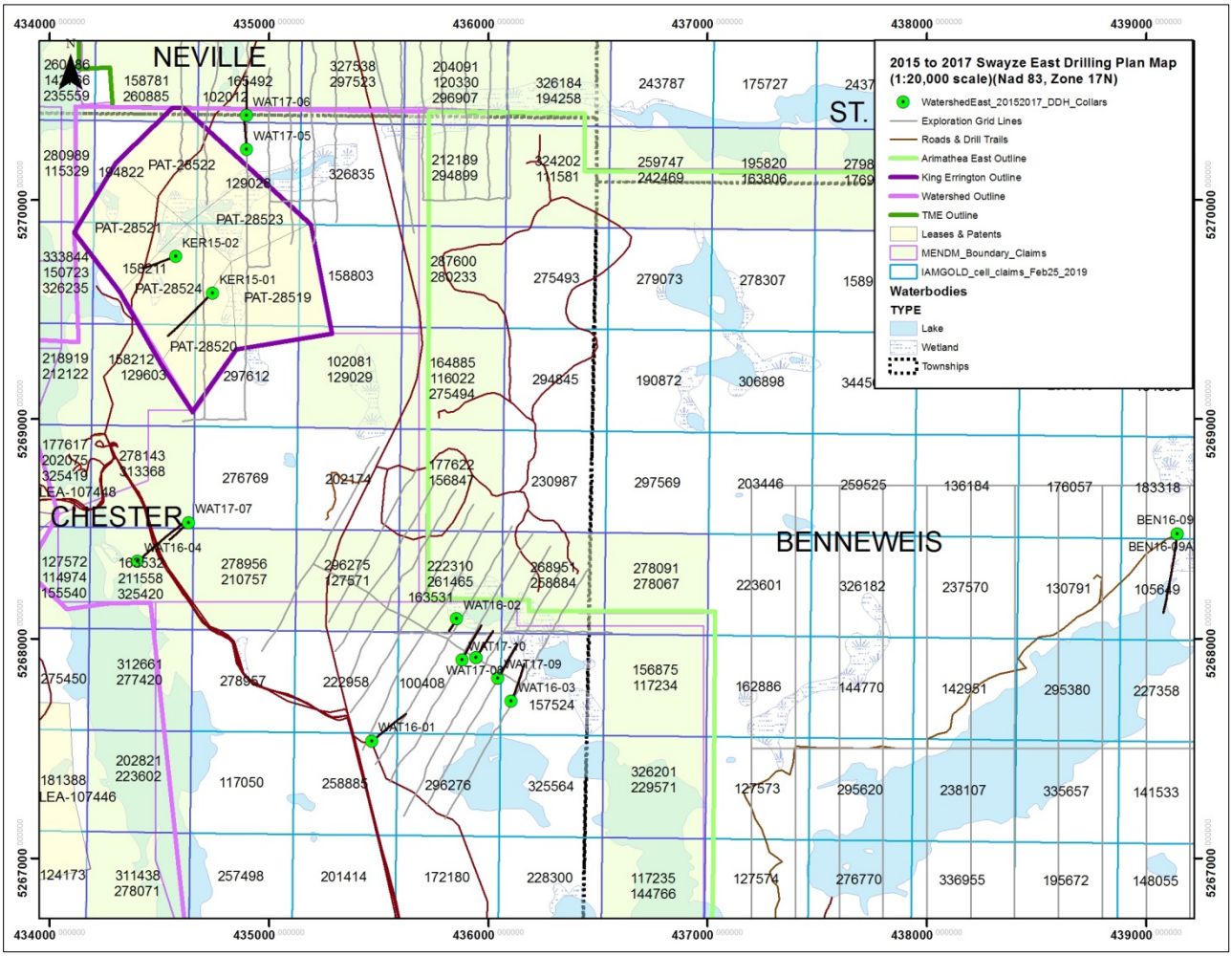
A total of 168 standard and blank samples were inserted into the core sample sequence, as every twelfth sample. QA/QC charts are presented in Appendix 3.

10.0) Discussion of Results from 2015-17 Drilling Program

The following discussion summarizes the geological and gold assay results from each drill-hole, highlighting the rock type intercepts and mineralization encountered.

A location drill plan is illustrated in Figure 7and in Appendix 4 (with provincial cell IDs) with drill sections illustrated in both the discussion of results and in Appendix 5.

Figure 7 – 2015-17 South Swayze East Drill Plan (1:20,000 scale)



KER15-01 & KER15-02

Both these diamond drill holes are located near the Mesomikenda Lake Road within the Spyder freehold patented claims on the western part of the South Swayze East Property (Figure 7). A total of 637 meters of drilling was completed in two diamond drill holes, KER15-01 and KER15-02. KER15-01 was designed to test the southeast extension of the King Errington Main Zone and the coinciding ground VLF-EM anomaly, as well as the down-dip projection of the King Errington South Zone. KER15-02 tested the down-dip projection of the King Errington Main Zone along strike and a coinciding strong and sharp VLF-EM cross-over and anomaly.

Steeply northeast dipping, granodiorite-tonalite of the CIC account for 53% of the rock type intercepts in KER15-01. The unaltered CIC classify as granodiorite with minor tonalite and is characteristically felsic to intermediate in composition (Figure 4). These rocks commonly have 15% to 30% finer to medium-grained (up to 3mm) bluish quartz-eyes in a more quartz-feldspathic interstitial matrix with weak chlorite and sericite. These rocks show a porphyritic to sub-porphyritic texture and are phaneritic. Felsic metavolcanics (20%) were encountered mainly at the bottom of both of these drill holes, and classify as calc-alkaline dacite (Figure 5). They show a well-developed fragmental texture, varying tuff to agglomerate-size, crystal-rich fragments up to 10 cm. The remaining rock types are gabbro (10%) and diabase (20%). The massive to equigranular gabbro are very fine, being predominantly melanocratic. The gabbro has undergone weak to moderate epidote alteration and variable weak to strong/intense carbonate alteration in the form of calcite. Leucoxene was locally observed. Thick intersections of both Biscotasing and Matachewan diabase dykes were intersected in both drill holes, from 201.2 to 254.3 in KER15-01 and 94.75 to 161.70 in KER15-02. The younger Matachewan dyke cross-cut the older Biscotasing diabase dyke. Chill zones are well developed. The Matachewan diabase dykes vary from weakly to moderately magnetic and coincide with a strong 2.8 km long northwestern magnetic feature. Both drill holes intersected a number of quartz-(carbonate) stockwork and variable altered chlorite, sericite, ankerite-dolomite, and silicified-albitized zones and shears, which range from 0.55 to 5.0 meters wide drill intersected intercepts. The Errington Creek Fault was intersected as a major fault breccia in KER15-02, from161.7 to 166.25. The fault is characterized by fractured and granulated quartz and silicified-rich clasts up to 4 cm in size in a silicified/amphibole-rich fault flour matrix. It trends between 270º and 310º, dipping to the north between 70º and 77º.

The King Errington Main Zone was intersected in both drill holes, with the most notable anomalous values from a 5.5 meter wide section between 163.35 and 168.85 in KER15-01 (Table 9). Similarly. the South Zone was also intersected in KER15-01. Those gold values occur over very narrow widths in both zones. The higher gold values in KER15-01 and KER15-02 are related to increased silicified quartz stockwork (QTSW) tonalite/granodiorite associated with disseminated and fracture-fill pyrrhotite and chalcopyrite (Table 9). The deeper footwall quartz-carbonate stockwork (QTCSW) of the South Zone is associated with a narrow quartz-carbonate vein hosting significant

concentrations of pyrrhotite-pyrite-chalcopyrite (Table 9). The program was also extremely successful in explaining the main VLF-EM cross-over/Fraser Filter/K-H Filter or linear filter with a coincidental resistivity low (conductive zone). KER15-01 intersections are also highlighted by:

- Complex litho/alteration and structural geological relationships.
- King Errington Main Zone from 163.35 to 168.85 (5.5 m) with localized 3% to 5% chalcopyrite in fractures>disseminated in wallrock and associated quartz-chalcopyrite stringers/veinlets with 0.76% Cu and 13.8 g/t Ag.
- Two thin chalcopyrite-rich structures (South Zone) near gabbro/Chester contact with localized up to 5% chalcopyrite fracture-filling in thin quartz-(carbonate) stringers, which has strata-bound implications. Cu-Ag values returned over their respective narrow 0.25m widths are 1.13% Cu and 14.3 g/t Ag and 0.78% Cu and 22.6 g/t Ag.

Table 9 - KER15-01 & 02 Summary of Mineralized Intercepts & Gold Results

Drill Hole	Zone	From	To	Width (m)	Au (g/t)	Significant Intercepts
KER15-01 (413m)	King Errington Main Zone	163.35	163.9	0.55	1.80 (re-check 2.27)	Quartz-Feldspar Stockwork - strongly sil-ab & cherty-like, 40% to 45% qfs/qs, banded/sh, disseminated 5% po with local 30% to 40% po in wr
	King Errington Main Zone	165.5	165.85	0.35	0.78	Silicified-(Albitized) Tonalite / Granodiorite – strong intense sil-(ab?) and cherty like, frequent to locally numerous po-py-(cpy) fractures with 3% to 5% cpy
	King Errington South Zone	312.5	313.15	0.65	0.19	Weak Quartz Stockwork – mod sil-(ab?) with strong sh/banded controlled alteration, 5% to 15% qcs/qs, <1% to 5% cpy with local 5% to 10% cpy at lower contact with 1% to 2% po-py-argentite
	King Errington South Zone	387.35	387.65	0.30	1.13	Quartz-Carbonate Stockwork – wk chl-cb-sil with strong calcite fractures, 20% qcs with 14 cm wide qcv hosting 5% to 10% po, 5% py, and < 1% cpy and up to 1% to 2% py-po-(sp) in wallrock
KER15-02 (224m)	King Errington Main Zone	166.25	166.9	0.65	0.05	Quartz-Carbonate & Albite Breccia - qtz-cb & qtz-ab composition with chl wallrock fragments, 1% to 3% py-po at upper contact with cb alteration and smoky grayish qtz-albite?

BEN16-09 & BEN16-09A

This diamond drill hole is located north of Benneweis Lake within the Arimathaea East Project area. This drill hole is designed to test a series of moderate chargeability zones within a northeast magnetic break and several stacked pyritic and chalcopyrite-rich silicified-sericitic shears and quartz stockwork structures which returned up to 124 ppb Au, 20.9 g/t Ag, 0.49% Cu, 0.11% Pb, 0.32% Zn, and 716 ppm As.

BEN16-09 had to be abandoned at 20 meters due to the hole's azimuth being off-line 5.5º to the east at 191.5º. BEN16-09A was completed to a depth of 506 meters with the top half of the drill hole being dominated by both granodiorite/tonalite of CIC and gabbro bodies. Felsic metavolcanics predominate the deeper part of the drill hole.

Porphyritic granodiorite (feldspar porphyry and quartz-feldspar porphyry) account for approximately 30% of the drill intercepts, and is generally found from the collar to 230.4 meters down hole. There are numerous gabbroic bodies within this top part of the drill hole. The porphyritic granodiorite is intermediate in composition being feldsphyric (25% to 45%0, being fine to medium grained. Fine to medium bluish quartz-eyes occur in local sections and are up to 10%. Alteration is variable with silicification-(albite alteration), hematite dusting, and local chloritic-(carbonate) alteration. Several intervals show well developed assimilated gabbroic/mafic rafts/inclusions up to 20 cm in size.

Gabbro accounts for approximately 27% of the drill intercepts in the drill hole and show numerous CIC dyke-like bodies. The gabbro is predominantly melanocratic, very fine to fine-grained, and massive to equigranular. Alteration ranges from weak to locally strong chlorite and calcite associated with the stronger sheared/foliated gabbro equivalents.

The felsic metavolcanics (43%) are the dominant rock type encountered in this drill hole, being dominant in the bottom half of the drill hole from 230.4 to 506. There are CIC and gabbro bodies located in the middle sequence of the felsics. The felsic metavolcanics are generally tuffaceous/crystal tuffs with coarser tuff to lapilli-size fragments (up to 2 to 3 cm) down the hole. The felsics are fragment supported and mono-lithological. The more prominent chlorite alteration with carbonate and lesser sericite occurs within the interstitial matrix in local intervals.

There is one local very fine-grained diabase dyke and it occurs between 177.0 and 179.8. The diabase is strongly magnetic.

Although no significant gold values were returned, a total of nine (9) significant, mineralized structural intercepts were recognized (Table 10). Those multiple sulphide are associated with the both the felsic metavolcanics and gabbro. The latter part to the drill hole intersected a thick (drill intersected 108.4 meters) package of felsic tuff-(crystal tuffs) from 397.6 to 506.0. The felsics also show a number of other disseminated sulphide zones in the form of shears from….

429.0 to 434.0 - 1% to 3% pyrite with up to 1% to 2% sphalerite in localized sections; sulphides occur as disseminations along shears
438.0 to 439.0 - 2% to 3% disseminated pyrite-(sphalerite)
440.0 to 441.0 - 5% to 10% disseminated to fracture-fill pyrite with up to 1% sphalerite-chalcopyrite
455.0 to 455.5 - 1% to 2% fracture-fill and disseminated along shears sphalerite > pyrite > chalcopyrite
462.0 to 463.4 - 1% to 3% disseminated pyrite with 1% to 2% sphalerite as fracture-filling from 462.9 to 463.4
466.3 to 467.15 - 1% to 3% pyrite-chalcopyrite-(pyrrhotite-spahalerite) as dissemination along shears

The felsics appear to show a zinc-enriched (disseminated and fracture-filling) upper part of interval with values up to 0.54% Zn (up the hole) to a relative more copper-enriched (0.18%) lower part of the interval towards the end of the drill hole. Weak to locally moderate sericite alteration is shear controlled throughout this section.

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Table 10 – Summary of Sulphide Intercepts in BEN16-09A

Drill Hole	From	To	Width (m)	Range of Au (g/t)	Significant Intercepts
BEN16-09A (506m)	215.3	221.4	5.7	<0.005 to 0.052	Quartz Stockwork & Chlorite-Carbonate Shear – strong chl-cb with sil cherty bnds at lower part of interval, local 15% to 20% qcs averaging 2% to 4% py (locally up to 5%) & < 1% cpy
	307.2	310.6	3.4	<0.005 to 0.009	Pyritic Gabbro – wk-mod bio/mus with <1% to locally 5% to 10% fracture-fill.disseminated over 1.85m
	317.1	319.6	2.5	<0.005 to 0.010	Quartz Breccia - strong intense sil flooding; <1% to 5% py-(aspy-cpy-sp)
	329.55	343.75	14.2	<0.005 to 0.010	Chloritic Felsic Tuff – mod chl with decrease in chl to 343.75, local sil and < 1% to 10% qs, 1% to 3% py with local 5% to 20% disseminated & fracture-fill py
	360.5	362.45	1.95	<0.005	Silicified QFP – bleached strong sil-(ab) & ser fractures, 1% to 4% po-py-(cpy)
	388.0	390.3	2.3	<0.005	Sheared & Pyritic Gabbro – mod to strong chl and localy strong cb, strongly sh, 5% to 10% cs/qcs, 5% to 15% disseminated sh-controlled py
	392.95	397.6	4.65	<0.005 to 0.008	Sheared & Pyritic Gabbro - mod to locally strong chl-cb, 1% to 5% qcs/qs with ep, 4% to 6% disseminated shear-controlled py and locally up to 10%
	421.9	423.2	1.3	0.006 to 0.050	Quartz Vein & Chloritic Felsic Tuff Wallrock – patchly coarse splashes of po (<1% to 20%) with <1% to 2% cpy at vn/wr contacts
	423.2	425.0	1.8	<0.005 to 0.007	Fractured Chloritic Felsic Tuff – strong pervasive chl, 5% to 10% qcs/qs, <1% to 5% po>cpy associated with fractures

WAT16-01 to WAT16-04

These drill holes are located east of Highway 144 and along the Mesomikenda Lake Road within the west-central part of the South Swayze East Property. A total of 1109 meters of drilling was completed entirely on the Watershed East Project. This part of the drill program is designed to follow-up on both favorable historical and 2016 results from mapping/sampling and a ground pole-dipole IP survey on the North Shear and partially on the South Shear.

WAT16-01 was designed to test the multiple shears on surface from the South Shear Zone, where it was confirmed high grade gold mineralization was returned in two areas with 26.8 g/t Au / 0.12m and 8.49 g/t Au / 0.8 meters. Previous historical values returned up to 16.03 g/t Au in the South Shear area.

The predominant rock type intersected in this drill hole is gabbro with lesser diorite (55%) and granodiorite-tonalite of the CIC (25%), which are crosscut by Matchewan diabase dykes (10%) and lamprophyre (2%). Numerous shears account for the remaining 8%, which overprinted the gabbro and the CIC 'magmatic' breccia. The gabbro is dark green in color and melanocratic, and varies from fine to medium-grained. It is weakly to moderately chloritic with epidote and carbonate. It is typically massive to equigranular. The CIC occurs as dyke and sill-like bodies, and form larger 'magmatic' breccia units, where there are numerous gabbro-diorite rafts and assimilated inclusions. There are magnetic, very-fine grained to coarser grained, porphyritic diabase (up to 24.25 meters drill intersected) and non-magnetic and porphyritic biotite-rich lamprophyre dykes (up to 2.2 meters drill intersected).

There are numerous shears (12), where chlorite-carbonate (host gabbro) are the dominant alteration types. A silicified sericitic shear occurs between 265.6 and 270.3 with sparse pyite (<0.5%). Although both high-grade zones were intersected at depth, none of the intercepts returned any significant precious or base metals values, as well as the remaining mineralized/structural intercepts in the drill hole.

WAT16-02 was designed to test the North Shear, where a historic channel cut returned 15.30 g/t Au / 3.51 meters with a coincidental weak chargeability IP response.

Porphyritic granodiorite to quartz diorite/diorite is the dominant rock intersected in this drill hole. The porphyritic granodiorite-quartz diorite (90%) is intermediate in composition and commonly very fine to locally coarse-grained feldspar > quartz-eyes in a very fine grained chloritic-carbonate altered interstitial matrix. This CIC displays a 'magmatic' breccia texture with numerous older gabbroic rafts and inclusions thoughout this drill hole. A gabbroic body (8%) was intersected between 72.1 and 86.3, and is dark green in color, being melanocratic, medium-grained, and massive in texture. A very fine grained magnetic diabase dyke (2%) cross-cuts the ankerite-siderite shear zone in the upper part of the drill hole.

The North Shear Zone intercepts occur between 10.0 and 72.1, and is characterized by an outer envelope of ankerite-siderite grading into a gold-bearing core of stronger silicification in the form of flooding and veining with patchy pyrite (Table 11). The predominant sulphide

Table 11 - 2016 Watershed East Drilling Significant Intercepts & Gold Results

Drill Hole	Zone	From	To	Width (m)	Composites/Range of Au (g/t)	Significant Intercepts
WAT16-01 (297m)		73.0	74.15	1.15	0.013	Chlorite-Carbonate Shear – mod to (strong) chl and strong cb, < 1% to 5% cs/qcs, <1% to local 3%-5% py-(cpy) as diss. & fract
	South Shear	96.0	97.0	1.0	0.010	Fractured Tonalite with 0.20m wide Quartz Carbonate Vein - 1% to 2% po-cpy-py seams/fractures at wr/vn contact and in vnlet -
	South Shear	120.0	126.3	6.3	0.10	Chlorite Shear/Fractured Tonalite/Granodiorite In-Situ Magmatic Breccia – mod sil and chl-cb (gabbro inclusions), weakly fractured with 5% to 10% qs/qcs with 0.3 m wide qcv with po-cpy-(py) (<1% to 2% and locally 5% po>cpy in chl matrix and along qs/qr contacts
		184.6	188.2	3.6	<0.005	Chlorite-Carbonate Shear - strong chlorite alteration, moderate patchy carbonate throughout interval, tr. py
		267.0	270.0	3.0	<0.005	Silicified-Sericitic QFP/FP – strong bleached sil-ser with relict porp texture, 5% qcs with up to 1% moly-py as scattered very fine grains
WAT16-02 (184.5m)	North Shear	17.0	23.0	6.0	0.57	Ankerite-Chlorite Shear & Quartz-Carbonate Stockwork – strong ank-chl, 10% to 15% qcs, 3% to 5% py & locally 10% (diabase dyke out from 23.8 to 30.05)
	North Shear	35.0	42.0	7.0	0.57	Ankerite-Chlorite Shear & Quartz-Carbonate Stockwork – strong ank-chl and sh, 15% qcs and increased disseminated 2% to 4% py
WAT16-03 (250.5m)	250.5	71.30	72.70	1.4	<0.005	Quartz Sulphide Vein – 40 cm wide quartz-sulphide vein with semi-massive coarse splashes 20% to 30% po-cpy-py in fractured qv/wr
		222.0	226.0	4.0	<0.005	Sheared & Banded Silicate Facies BIF - alternating massive black magnetite and chl.mag bands, strong chl slips with possible gf???, < 1% qcs and py
	IP Zone	226.0	230.0	4.0	<0.005	Sheared/Banded Greywacke - mod chl-(cb) and possibly carbonaceous along slips, overall < 1% py with increase in py from 228.5 to 229.5 with patchy py 1% to 2% (locally 5%)
WAT16-04 (377m)	377	141.25	145.3	4.05	<0.005 to 0.007	Ankerite-Chlorite Shear – mod to strong ank-chl and strong crn clvg sh, <1% py
	Blanchard Zone	145.3	149.3	4.0	<0.005 to 0.008	Quartz-Carbonate Stockwork – strong ank-chl-(sil) with 20% to 40% qcs, up to 2% py-cpy-cov-chal
		149.3	158.0	8.7	<0.005 to 0.007	Ankerite-Chlorite Shear (local QTCSW) – mod to strong ank-chl and strong crn clvg sh, up to 1% py
		319.7	321.0	1.3	<0.005	Quartz-Carbonate Vein – chl fractures with local hem, <0.5% py
	Hydro Zone	339.3	354.5	15.2	<0.005 to 0.030	Sericitic and Weakly Sheared QP – strong interstitial ser with strong sil; <1% qs/qcs, < 1% to locally 5% to 10% associated with increased sil

is pyrite and occurs as patchy disseminations within the shear, with increased concentrations associated with the silicification and quartz stockwork. Arsenopyrite with minor chalcopyrite and pyrrhotite were also observed with arsenic values up to 770 ppm and copper values up to 311 ppm. Two anomalous gold intercepts were encountered and returned 0.57 g/t Au / 6.0 meters and 0.57 g/t Au / 7.0 meters.

WAT16-03 was designed to test the southeastern-most strike and down-plunge extension of the North Shear and IP chargeability zone.

Granodiorite-quartz diorite 'magmatic' breccias of the CIC account for approximately 45% of the drill hole intercepts. They are intermediate in composition being feldsphyric > quartz-eyes, fine to medium-grained, and commonly has a porphyritic texture. These intrusive rocks host numerous gabbro-diorite rafts and inclusions. Gabbro-diorite (30%) bodies are characteristically green in color, being melanocratic, fine to medium-grained, and are massive to equigranular texture. Clastic metasediments (5%) were intersected near the bottom of the drill hole, from 222.0 to 230.0. Lean banded oxide banded iron formation (BIF) and greywacke show banding/bedding textures, with the BIF consisting of alternating black magnetite and magnetite/chlorite bands. Graphite and carbonaceous slips along bedding planes have also been observed. There are numerous diabase dykes cross-cutting all rock types and account for 20% of the drill hole. The dykes range in drill intersected thickness from 1.0 to 15.6 meters wide, and vary from being weakly to strongly magnetic. They are mafic in composition with variable epidote and carbonate alteration, being very fine to medium grained. They display well developed chill zones, and occupy several fault zones.

The IP chargeability may be explained by the graphitic slips and local pyrite mineralization (<1% to 2% to locally 5%) in the lower part of the drill hole. As well, a 0.40 meter wide quartz sulphide veinlet was intersected and is characterized semi-massive coarse splashes 20% to 30% pyrrhotite-chalcopyrite-pyrite in fractured CIC. No significant precious and base metal results were returned (Table 11).

WAT16-04 is located off the Mesomikenda Lake Road, and this drill hole is designed to test the down-dip extension of fold flexure (fold axis?) of Blanchard Showing (quartz-sulphide veins – up to 2.5 g/t Au & 0.64% Cu) and Hydro Zone (18.9 g/t Au & 17.6 g/t Ag). This drill hole is to intersect Blanchard at 75 meters and Hydro at 200 meters vertically below surface.

Porphyritic granodiorite-tonalite (85%) is the predominant rock type intersected in this drill hole and is characteristically felsic to intermediate in composition, being phaneritic and sub-porphyritic to porphyritic in texture. These rocks are generally moderately to strongly magnetic. There are at least three major hydrothermal alteration generations with…

1) Hematite ± magnetite
2) Chlorite ± carbonate
3) Quartz + sericite

There are less frequent bodies of gabbro (5%) which are characteristically dark green in color, mafic in composition with moderate to strong chlorite with carbonate, and generally

massive in appearance. There are numerous magnetic fine to medium grained diabase dykes (10%), which primarily cross-cuts the CIC.

Although no significant gold results were returned, both the Blanchard and Hydro Zone were intersected (Table 11). The Blanchard Zone intercept from 141.25 to 158.0 is characterized by both an ankerite-chlorite shear and a 4.0 meter wide quartz-carbonate stockwork hosting 2% pyrite-chalcopyrite-magnetite. The Blanchard Zone shows a strong magnetic signature. The Hydro Zone occurs between 339.3 and 354.5 and has a strong to intense silicification-sericite alteration overprint on the CIC. It hosts patchy sulphide in the form of disseminated pyrite associated with stronger silicification. This zone represents a zone of magnetite destruction, as reflected by a weak magnetic signature.

WAT17-05 to WAT17-07

This drilling represented a Phase 1 drilling program in 2017 and two of the drill holes (WAT17-05 & 06) were designed to test a series of stack IP chargeability zones/responses across the Ridout Deformation Zone (RDZ) and the Errington Creek Fault (ECF) areas. The remaining drill hole, WAT17-07, is designed to test the down-dip extension of the Hydro Zone at a relatively shallower depth, compared to the intercept in drill hole WAT17-04.

WAT17-05 represents the southern- most drill hole in a two-hole section across the RDZ, and was completed to a depth of 230 meters. The hole was designed to test the intersection of IP chargeability zones IP-3, 4, and 7 (5.2 to 8.15 mV/v) with a coinciding resistivity break of complex local highs and lows. There is a subtle NW magnetic break and this drill hole is closest to the Errington Creek Fault and mafic/felsic metavolcanic within the southern part of the RDZ. Mafic metavolcanics (65%) are the most prolific rock type in this drill hole with felsic metavolcanics (26%) and clastic metasediments (3%), and cross-cutting diabase dykes accounting for the remaining 6%. This drill hole established the southern contact between the overlying mafic metavolcanics and the felsic metavolcanics to the south within the southern margin of the RDZ. It also underlies an area close to the ECF. The metavolcanics and clastic metasediments dip steeply to the south.

The mafic metavolcanics underlies the lower part of this drill from 51.75 to the end of the hole at 230.0, with a 'break' of clastic metasediments and felsic metavolcanics from 115.75 to 140.2. The mafic metavolcanics are typically green to dark green in color being mafic in composition with moderate chlorite and weak to moderate carbonate in the form of calcite. Although strongly foliated and sheared for the most part, relict pillow flows and their volcaniclastic bedding are the dominant textures observed with local intercepts of massive flows. The intense sheared sections show strong chlorite + carbonate ± sericite, especially the banded/bedded mafic volcaniclastic intervals.

The felsic metavolcanics are prominent in the upper part of drill hole. They have undergone strong shearing with intermediate argillic alteration (sericite-chlorite) of the felsic protolith. There are varying amounts of carbonate and localized fuchsite alteration as well. Relict tuffaceous and locally coarser fragmentals in the form of tuff breccias (fragments up to 18 cm in width) and crystal tuff textures have been observed. Crystal tuffs are more

prominent down the hole, as per 128.05 to 140.2, with 15% to 25% fragmented and broken quartz crystals in a very fine-grained tuffaceous matrix giving a sub-porphyritic texture.

Clastic metasediments in the form of banded and bedded greywacke/siltstone/argillite was intersected between 115.75 and 128.05, as a series of intercalated horizons within the local felsic crystal tuff stratigraphy in a broader mafic sequence. The clastic metasediments are generally intermediate in composition with moderate to strong carbonate alteration with weak to moderate sericite with chlorite. The upper part of the sequence shows well developed bedding textures.

The metavolcanics have been cross-cut by diabase dykes (Matachewan). They are greenish-black in color, mafic in composition with weak to moderate carbonate alteration, being very fine grained and aphanitic, and show sharp upper and lower contacts. The diabase dykes show variable weak to strong magnetism.

Although no significant gold assays were returned, the results from the drilling did successfully explain the nature of the stronger IP chargeability zones (Table 12). Weakly disseminated pyrite was intersected in a number felsic metavolcanic intervals associated with varying intensities of chlorite, sericite, and carbonate with fuchsite and tourmaline. Only localized scattered pyrite and chalcopyrite were observed in the more sheared and fractured intervals of the mafic metavolcanics and clastic metasediments, with copper values up to 0.53%.

WAT17-06 represents the northern-most drill hole along the WAT17-05/06 section across the RDZ. It tested IP 1 down-dip with moderate chargeability responses ranging from 8.9 and 16.0 mV/v with a direct and coincidental strong resistivity. There is a flexure in the chargeability zone in a northeast direction. This drill hole was completed to a depth of 230 meters.

The mafic metavolcanics (70%) are the dominant rock type encountered in the drilling of this drill hole. They are typically green to dark green in color being mafic in composition, being moderately chloritic and carbonate altered with local intervals showing a mixture of sericite with chlorite. These rocks have undergone moderate to strong shearing within the RDZ, reflected by strongly altered shear zones and numerous parasitic folds and interference folds in the core, reflecting fold noses. The mafic metavolcanics show pillow, volcaniclastic, and massive flow textures with local areas showing well developed pillow and flow breccias as per 46.40 to 77.85.

The felsic metavolcanics (5%) occur as two thin intervals with the thickest section being from 175.00 to 183.80. The felsics are reworked tuffs / volcaniclastics and are characterized by moderate to strong pervasive carbonate in matrix and locally strong sericite. The reworked clasts are up to 2 cm in size (5% to 10% fragments) and are matrix supported. These felsics have undergone moderate shearing. Although moderately sheared, relict banding has been observed.

There are two drill intercepts of clastic/chemical metasediments (5%), and occurs towards the bottom of the drill hole. The upper interval is a graphitic argillite/siltstone and argillite with minor argillaceous mafic volcaniclastics. This interval has been cross-cut by a

diabase dyke. There is a well-developed banded and laminated texture between more siliceous and intermediate bands with local and variable graphite in those bands. A mixture of moderate to locally strong carbonate with sericite alteration occurs pervasively through the matrix, as well as strong carbonate fractures. The lower interval is a sequence of arenaceous metasediments with thin cherty exhalative horizons varying from 0.45 to 1.05 meters wide. The arenite is dirty beige-greenish gray and light to smoky gray colors, being siliceous in composition, with moderate pervasive sericite and wispy ankerite-(fuchsite) associated with thin chert bands. There is well developed banding/bedding/lamination that displays tight parasitic folds and flexures as a result of folding. There is an increase in sulphides associated with the graphitic sections and cherty sections.

Cross-cutting diabase dykes account for the remaining 10% of rock types. There are several diabase dykes. These are typically mafic in composition with variable weak to strong carbonate alteration, being massive to equigranular in texture. The dykes range from weakly to strongly magnetic.

Although no significant gold values were returned, significant arsenopyrite mineralization was encountered in thin, cherty exhalative horizons within the arenaceous clastic metasediments. Very-fine grained arsenopyrite varies from <1% to 4% with minor fracture-filling and is associated with pyrite. Anomalous arsenic values up to 0.58% were returned. Local 1% to 10% pyrite is associated with both argillaceous and graphitic argillite areas.

WAT17-07 tested the down-dip extension of Hydro Zone (18.9 g/t Au & 17.6 g/t Ag) and intersected Hydro at approximately 120 to 125 meters vertically below surface.

Porphyritic granodiorite-tonalite (70%) is the predominant rock type intersected in this drill hole and is characteristically felsic to intermediate in composition, being phaneritic and sub-porphyritic to porphyritic in texture. These rocks are generally moderately magnetic. There are at least three major hydrothermal alteration generations with…

1) Hematite ± magnetite
2) Chlorite ± carbonate
3) Quartz + sericite

Gabbro occurs as widely scattered intercepts ranging from 0.55 to 5.55 meters wide, which are characteristically dark green in color, mafic in composition with moderate to strong chlorite with carbonate, and have a general massive appearance. There are numerous magnetic fine to medium grained diabase dykes (10%), which primarily cross-cuts the CIC.

The inferred fault extension of the Hydro Zone is represented by a thin quartz stockwork (60% quartz-carbonate veining), which was intersected between 112.45 and 112.8. It returned 1.59 g/t Au and 0.61% Cu / 0.35 meters (Table 12). The quartz stockwork hosts < 1% to 2% chalcopyrite and up to 1% pyrite over the entire interval, with local 5% chalcopyrite. The Hydro Zone was intersected from 160.20 to 168.60 in a quartz porphyry characterized by moderate to strong sericite>silicification with a locally strong silicified

section from 165.4 to 165.7. There is sparse pyrite at < 1%. It represents a zone of magnetite destruction. There were no significant gold values in this section.

Table 12 – Summary of Gold Results & Pathfinders from Phase 1 Watershed East Drilling

Drill Hole	Final Depth (m)	From	To	Width (m)	Au (g/t)	Pathfinders (ppm)	Significant Intercepts
WAT17-05	230	33.1	36.9	3.8	NSV	None	Chlorite-Sericite-Pyrite Shear – moderate/ strong mixture of chl-ser intermediate argillic alteration, strongly sh & 10% to 12% qs/qcs, 3% to 4% py
		128.05	140.2	12.15	NSV	Hg (210 ppb), Bi (0.17)	Sericite Altered Felsic Crystal Tuff – strong pervasive ser in matrix with tour fractures & in sh/disseminated, strong fus along sh at/near uc, <1% to 10% qcs with tour/py, 1% to 10% vfg disseminated py 2% to 4%
		197.55	200.0	2.55	NSV	Cu (5320)	Quartz-Carbonate Stockwork - strong cb fracture-controlled with mod chl in matrix of wr, 20% to 22% qcs/cs/qs, <1% to local 4% cg splashes of cpy in veinlets/ stringers with local 1% to 2% pyrite
WAT17-06	230	111.7	115.0	3.3	NSV	Cu (355)-Hg (130 ppb)	Quartz Stockwork – strong chl and wk/mod cb, averages 15% to 20% qs, <1% to local 2% py-po-(aspy-cpy)
		152.5	153.55	1.05	NSV	As (53)	Quartz-Carbonate Stockwork - both argillaceous (ser-cb) and strongly gf, 20% to 25% qcs, <1% to 15%-20% py bx cement and fracture-filling
		204.85	205.35	0.50	0.10	As (3710)	Cherty Tuff - siliceous with mod/ strong cb, sh, 5% to 10% qcs/qs/sil flooding, scattered vg py (2% to 4%) with up to 1% to 2% patchy aspy xtls
		209.2	209.75	0.55	0.275	As (5780), Te (0.7), Zn (157)	Cherty Exhalative Tuff - 60% sil flood with ank-ser-fus, 10% qs, 2% to 4% seams/disseminations aspy and 1% to 2% py
WAT17-07 (***dn-dip flt extension to Hydro)***	200	112.45	112.8	0.35	1.59	Cu (6070), Ag (6.25)	Quartz Stockwork – edge of vein/CIC ser contact, 45% qcv xcutting strong chl-cb wallrock inclusions, a 10 cm wide section with 5% cpy & py (1%-2%)
Hydro Zone		154.45	156.8	2.35	NSV	None	Quartz-Carbonate Vein - quartz-carbonate composition with numerous chl seams/ 20% wr, <1% py with local/clustered 1% py.

WAT17-08 to WAT10

This Phase II drilling program in 2017 focused on deeper drilling on the North Shear, located east of Highway 144. A total of four drill holes were completed, including an abandoned drill hole, for a total of 882meters. The drilling was designed to test the deeper part of the North Shear system and stronger IP chargeability responses.

WAT17-08A was completed to a depth of 243 meters, with WAT17-08 being abandoned at 29 meters due the azimuth being off by 7º. It was designed to test the southeast strike and down-plunge extension of the North Shear and its widest part (up to 40 meters wide) of the ankerite-siderite alteration zone. Surface values returned 1.31 g/t Au / 3.16 meters, including 5.89 g/t Au./ 1.0 meter, and are hosted in strongly disseminated sulphides associated with stronger silicification flooding/veining. WAT17-08A intersected both granodiorite/tonalite (CIC) and gabbro being approximately equally proportioned. A number of thin diabase dykes account for approximately 5%.

Two unaltered phases of the CIC were recognized in the drilling with the younger porphyritic granodiorite/tonalite intrusives and older quartz diorite. The younger rocks are generally felsic to intermediate in composition being feldsphyric with medium-grained and tightly packed albite (15% to 30%) phenocrysts and bluish quartz-eyes ranging from 15% to 25%. There is a well-developed porphyritic texture. There are multiple intervals of CIC 'magmatic' breccia, hosting numerous gabbroic and locally quartz-diorite rafts/inclusions up to 0.5 meters in size. The quartz diorite represents a more intermediate to mafic phase in the CIC, and is predominantly feldsphyric (25% to 35%) with <1% to 5% quartz-eyes. These rocks generally have undergone weak to moderate epidote and saussurite alteration of the plagioclase. Gabbro occurs throughout the drill hole, and is more dominant in the latter part of the hole. It is commonly mafic in composition with moderate chlorite and weak to moderate carbonate alteration. There are local leucocratic varieties. They range from massive to equigranular/sub-porphyritic with very fine to medium-grained albite (10% to 35%) phenocrysts in a very fine-grained ferromagnesian-rich matrix. The section from 141.1 to 210.8 shows numerous CIC dykes cross-cutting an extensive gabbro body. All rock types have been cross-cut by Matachewan diabase dykes (5%). The diabase is mafic in composition, with an aphanitic, very-fined grained ferromagnesian-rich matrix. There are occasional coarse xenocrysts of altered albite (<1% and up to 0.5 cm in size). The diabase dykes are moderately to strongly magnetic.

This drill hole intersected the North Shear for over 67 drill intersected meters, in a series of two to three structurally mineralized intercepts. They are hosted in one of the widest areas of CIC 'magmatic' breccias. The mineralized zones spatially correspond to the strongly sheared CIC 'magmatic' breccias, where gabbro entities (apophyses or rafts) reflect strata-bound structural conduits for hydrothermal movement and precipitation. True thickness is approximately 20 to 25 meters wide. It intersected the North Shear between 65 and 80 meters vertically below surface. The most significant intercept is between 104.5 and 106.8 with 5% to 10% pyrite (2.08 g/t Au / 1.8m) hosted in a strongly silicified-ankerite-siderite shear. The altered zone is cross-cut by diabase. The remaining sections show intermittent silicified

sections with patchy sulphide mineralization, corresponding to increased veining and quartz stockwork within a wider berth of strong ankerite-siderite (Table 13).

Table 13 – Summary Highlights of North Shear 2017 Phase II Drilling

Drill Hole	Final Depth (m)	Zone	From	To	Width (m)	Au (g/t)	Significant Intercepts
WAT17-08A	243	North Shear (A South)	83.0	84.7	1.7	0.76	QTSW/QV/Silicified Shear – strong ank-sid with sil-chl, <1% to 100% qs/qv, 5% to 10% py-(aspy)
		North Shear (A-North)	104.5	107.8	3.3	1.46	Silicified-Ankerite-Siderite Shear – strong sil with ank-sid, strongly sh, 2% to 10% disseminated py
		Includes	105.0	106.8	1.8	2.08	Silicified-Ankerite-Siderite Shear – strong sil with ank-sid, strongly sh, 5% to 10% disseminated py
		FW Zone	177.7	178.7	1.0	1.95	GTT Breccia with Gabbro Raft – no alteration, <1% qs and py
WAT17-09	302	North Shear (A-South)	128.8	142.7	13.9	0.34	Ankerite-Siderite-Chlorite-Silicified Shear & QTSW – strong ank-sid with chl and strong sil sections, variable <1% to 10% py-aspy with local 20% py, 5% aspy>py locally in QTSW
		includes	135.6	137	1.4	1.36	Ankerite-Siderite-Silicified Shear – strong to intense ank-sid and sil, <1% qs, <1% to 20% py
		North Shear (A-North)	153.35	154.95	1.6	0.24	Variable strong alteration/sheared/bx with sil-ab, chl-fus, sil-ank-sid with <1% to 5% patchy py-aspy-cpy
WAT17-10	308	North Shear (A-North & South)	214.3	230.8	16.5	0.62	Ankerite-Siderite & Silcified-Pyrite Shears (QTSW) - strong pervasive ank-sid and sil sections, strongly sh with local 15% to 20% qs, strong sil-(ab-ank?) 10.9 m section averages 5% to 10% disseminated py, <1% aspy and cpy
		A-North	222.2	225.7	3.5	1.15	Silicified-Pyrite Shear – strong sil flooding, 1%-5% qs, 5% to 10% disseminated pyrite
		A-North	224.2	225.7	1.5	1.55	Silicified-Pyrite Shear – strong sil flooding, 2%-5% qs, 5% to 10% disseminated pyrite
			242.5	243.4	0.9	0.27	Silicified-Pyrite Shear – strong to intense sil-(ab-ank?) alteration and sheared, local 50% qs/qv, 5% disseminated py

WAT17-09 was designed to test the southeast strike and down-plunge extension of North Shear from the most easterly surface expression of a 6.0 meter wide silicified-(albitized-sericitic)-ankerite-siderite and pyritic/sheared CIC. It also coincides with a weak to moderate chargeability zone ranging from 5.85 to 6.86 mV/v. This drill hole was completed to a depth of 302 meters.

The CIC accounts for 76% of the drill intercepts with the unaltered rocks being predominantly granodiorite/tonalite with a minor quartz diorite/diorite. There are both porphyritic granodiorite/tonalite and porphyritic intrusive 'magmatic' breccias. These porphyritic rocks are felsic to intermediate in composition with fine to medium-grained (<0.3 cm) tightly packed albite phenocrysts (30% to 40%) and quartz-eyes ranging 5% to 15%. These rocks are more siliceous in nature compared to the CIC intersected in WAT17-08A, with relative increase in quartz-eye content. The 'magmatic' breccias are more prolific in the North Shear intercept area, on both the hanging-wall and footwall. These generally have assimilated rafts and inclusions that reach up to 3.4 meters in length. Gabbro accounts for approximately 12% of the intercepts and are characterized by green to dark green colors, being mafic in composition and melanocratic, having undergone moderate chlorite and moderate to strong carbonate. They are general very fine-grained to fine-grained and are typically massive to equigranular in texture. There are several diabase dykes (12%) and generally cross-cut the CIC. They are generally strongly magnetic with local weak to moderate magnetism.

There are two significant intercepts from the North Shear, with true thickness approximately 15 to 20 meters wide. They are hosted in strongly sheared CIC 'magmatic' breccias, where gabbro entities (apophyses or rafts) reflect strata-bound structural conduits for hydrothermal movement and precipitation. It intersected the North Shear between 100 and 130 meters vertically below surface. Gold results returned anomalous gold values (0.34 g/t Au / 13.9 meters) from A-South Shoot (Table 13). Increased gold values up to 2.32 g/t Au correspond to stronger silicified and pyritic intervals. The A-North returned anomalous gold values (0.24 g/t Au / 1.6 meters). This corresponds to strong silicified flooding, with patchy <1% to 5% pyrite. Two thin hydrothermal breccia were encountered up the hole between 19.75 and 20.25 (sericite-chlorite) and from 23.8 to 24.4 (silicified-hematite).

WAT17-10 was designed to test the down plunge extension of the North Shear at depth with channel samples returning up to 4.29 g/t Au /1.4 meters (including 10.56 g/t Au / 0.50 meters). This represents the strongest IP chargeability response (7.78 mV/v) from the PDIP survey over the North Shear. This drill hole was completed to a depth of 308 meters.

Unlike the other drill hole intercepts from WAT16-02 and WAT17-08A & 09, gabbro is the predominant rock type intersected in this drill hole. Gabbro is characterized by its dark green to green color, being mafic in composition with moderate chlorite and weak to locally strong carbonate. The thickest section is from 119.5 to 195.7, with a layered gradation in albite phenocrysts grain size , with coarser sections towards the middle part of the layer. Overall, there are <1% to 5% quartz eyes in the unit and shows varying degrees of epidote alteration throughout this section. The CIC (23%) is represented by both porphyritic

granodiorite-tonalite with minor quartz diorite and 'magmatic' breccia. The North Shear Zone is hosted in the sheared 'magmatic' breccia within a broader gabbroic body. These porphyritic granodiorite/tonalite rocks are generally felsic to intermediate in composition, porphyritic in nature, with a significant increase in quartz-eye content (25% to 40%) compared to the other three drill holes. The 'magmatic' breccias generally have both gabbroic and quartz diorite rafts and inclusions up to 1.45 meters wide. The quartz diorite is greenish gray and intermediate in composition with strong ep of 25% to 35% fine to medium grained (<0.3cm) albite phenocrysts with 20% bluish quartz interstitial, sub-porphyritic texture. There are four diabase dykes (7%), which cross-cut all rock types, including the North Shear Zone. They are typically mafic in composition being very fine grained/aphanitic, and generally massive. Chill margins are well developed at some of the contacts.

This hole represents the most significant gold mineralization encountered in the North Shear from this three hole drill program. The North Shear is hosted in strongly sheared CIC 'magmatic' breccias, where in this drill hole, reflects a structural strata-bound contact between gabbro and CIC breccia. It intersected widespread gold mineralization from 214.3 to 230.8 , which returned 0.62 g/t Au / 16.5 meters, including 1.55 g/t Au / 1.5 meters (Table 13). True thickness (60%) is estimated at 10 meters on the wider intercept. A second lens returned 0.27 g/t Au over 0.9 meters from 242.5 to 243.4. The North Shear lenses/shoots dips to north at 80º. It intersected the North Shear between 180 and 200 meters vertically below surface.

Increased gold mineralization is reflected by….

1) Significant increase in strong to intense pervasive silicification with albite alteration in the form of shear bands and silica flooding and quartz veining.

2) Significant increase in sulphides from 214.3 and 225.2, where an average of 5% to 10% disseminated pyrite-(arsenopyrite) was intersected.

The North Shear Zone lenses are located at a layered gabbro and altered Chester Intrusive (CIC) contact, which indicates strata-bound potential along litho-stratigraphical contacts. The alteration shows a well-developed alteration from HW to FW with….

Structural HW: Chlorite-(Calcite) → Propylitic Chlorite-(Epidote-Calcite) → Chlorite-(Ankerite-Siderite) → Ankerite-Siderite-(Silicified) → Ankerite-Siderite-Silicified → Silicified-Pyrite-(Ankerite-Siderite) → Silicified-Albitized-(Ankerite) → Silicified-Pyrite-Ankerite → Chlorite-(Carbonate): ***Structural FW***

11.0) Conclusions

These series of drilling programs were successful in both exploring the down-dip and depth potential of some of known historical occurrences and explaining the IP chargeability responses, especially on the RDZ. The discovery of deeper and wider gold/sulphide mineralization associated with intense silicification/albite alteration on the North Shear Zone is the most promising area to continue more drilling.

The regional MSC and RDZ are two spatially different structural domains, with the MSC possessing enhanced gold/polymetallic attributes over at least 2.5 kilometers. The RDZ represents an extensive series of anastomosing strain zones, where sporadic anomalous gold occurrences are hosted in tight, discontinuous, shear and fold structures, where hydrothermal alteration and gold-bearing mineralization is extremely restricted.

Both structural environments on the South Swayze East Property are conducive to a typical shear-hosted lode-gold mesothermal environment, where gold endowment is enhanced at in CIC (Big Sleep), CIC / gabbro litho-contacts (North Shear), and within the felsic metavolcanic litho-stratigraphy proximal to the CIC contact. The presence of multiple zones of weakness, flexuring, and potential intersecting structures/splays reflect dilatational-filled features, which would provide pathways and traps for auriferous hydrothermal fluid movement in steeply dipping / plunging structures. The presence of iron and sulfur-rich hosts (Fe-rich gabbro and basalt/inter-formational) would provide the chemical trap for gold to precipitate in the form of pyrite and pyrrhotite hosted in silica-'flooded' gold-bearing structures.

12.0) Recommendations

A thorough interpretative compilation is recommended and warranted before any future drilling exploration is considered on both the Mesomikenda Structural Corridor (MSC) and the Ridout Deformation (RDZ) due to the lack of significant gold results. The deeper North Shear intercepts of WAT17-09 and WAT17-10 shows the best potential for future drilling . The compilation will consider….

1) Integrate all historical and 2015-17 IAMGOLD drilling data and merge with surface geology, structure, and mineralization associated with regional gold-bearing structures, specifically the MSC.
2) Evaluate the surface prospectivity along the MSC and the potential of deeper and favorable gold vectors as observed at the North Shear with the wider dispersal of anomalous gold over thicker intercepts at depth (e.g. WAT17-09 and 10 on the A-South Shoot)
3) Consider bore-hole EM or IP to locate stronger off-hole and deeper conductors on the North Shear to enhance better targeting (WAT17-09 and 10)

13.0) References

Wood, 2018, Côté Gold Project, Ontario, NI 43-101 Technical Report on Feasibility Study, Ontario, Canada, prepared by Wood for IAMGOLD Corporation; November 1, 2018. (Available on SEDAR public files) https://sedar.com/

Coates, H.J. (2013); 43-101F Technical Report on the Chester, Neville/Potier, & Mollie River Properties, Porcupine Mining Division, Ontario, Canada for GoldON Resources Ltd. - pp 1-144.

Lavigne, J. and Roscoe, W.E. (2012); 43-101 Technical Report on the Côté Gold Project, Chester Township, Ontario, Canada for IAMGOLD Corporation - pp 1 to 207

Siemieniuk, S. (2012); 2011 Prospecting and Sampling Report on Newcastle Minerals Ltd Mollie River Property, Porcupine Mining Division, NTS 41P/12 (assessment report) - pp. 1 to 29

Berger, B. (2011); Precambrian Geology Compilation South of Gogama Area; Ontario Geological Survey map P.3762 – Scale: 1:50,000

Anderson, S. (2010); Work Report on the Mollie River Project West Block, Benneweis Township, Porcupine Mining Division, for Newcastle Minerals Ltd. (assessment report) - pp 1 to 15

Van Breeman, O., Heather, K.B., & Ayer, J.A. (2006). U-Pb geochronology of the Neoarchean Swayze sector of the southern Abitibi greenstone belt. Geological Survey of Canada, Current Research 2006-F1

Ayer, J.A. and Trowell, N.F. (2002);Precambrian Geology Compilation of the Swayze Area, Abitibi Greenstone Belt; Ontario Geological Survey Map P.3571 – Scale: 1:100,000

Siragusa, G.M. (1993); Precambrian Geology Parts of Benneweis and St. Louis Townships; Ontario Geological Survey Open File Map 208, Scale: 1:15,840

Siragusa, G.M. (1993);Geology, Geochemistry, and Mineralization of the South Margin of the Swayze Belt; Ontario Geological Survey Open File Report 5844 – pp 1 to 144

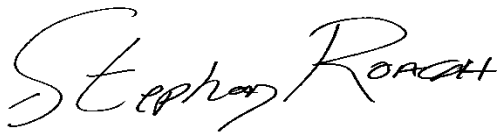
Peters, R.E. (1981); Geology Report on Benneweis Township Gogama Gold Prospect, District of Sudbury, Porcupine Mining Division, Ontario (assessment report) – pp 1 to 11

STATEMENT OF QUALIFICATIONS

I, Stephen Roach, of 47 Crantham Crescent, Stittsville, Ontario K2S 1R2, certify that;

1. I obtained a Bachelor degree in Geology from Concordia University in 1977. In addition, I attended Carleton University from 1981-83 in a Graduate Program.
2. I have worked as a geologist for more than 35 years since my graduation from university been in the practice of my profession as Exploration Geologist since 1977.
3. I am responsible for this report entitled, Report on 2015-17 Drilling Program on the South Swayze Property (Watershed/TME/Arimathaea East & Spyder Projects), Porcupine Mining Division, Northeastern Ontario (December 9, 2015 November 19, 2017)
4. I have no beneficial interest, direct or indirect in the South Swayze East Property that is the subject of this report.

Dated March 28, 2018



Stephen Roach, **B.Sc Geology, P.Geo.**

Jillian Craig, B.Sc, Geology; P.Geo

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Address : 2803 Winterhaven Ave, Sudbury, Ontario, P3G 1B6

I, Jillian Craig, do hereby certify that:

I have been a geologist for IAMGOLD Corporation, formerly Trelawney Mining and Exploration Inc., since July 19th, 2010.

I graduated with a B. Sc. Majoring in Geology from the University of New Brunswick in 2008.

I am responsible in part for the preparation of this assessment report.

I am a registered practicing professional member (P. Geo) of the Association of Professional Geoscientists of Ontario, Member 2471.

I have been tasked with preparing this report for IAMGOLD Corp.. I was not present during the execution of the mechanized stripping or diamond drilling programs.

Dated this the ninth of April, 2019.

Jillian Craig, B.Sc. (Geology), P.Geo

Appendices

APPENDIX 1

Proterozoic to Archean Mafic Intrusive
Matachewan (NW), Biscotasing (ENE), & Sudbury (WNW)
- 14A Unsubdivided
- 14B Fine-grained Diabase dykes
- 14C Coarse-grained Diabase dykes
- 14D Porphyritic Diabase dykes

ARCHEAN

Alkalic Intrusives
- 13A Unsubdivided
- 13B Syenite
- 13C Quartz-Monzonite to Monzonite
- 13D Monzodiorite
- 13E Pegmatite Dykes-Sills
- 13F Aplite Dykes-Sills

Porphyritic Felsic Intrusives (Porphyry Suite)
- 12A Porphyry
- 12B Quartz and/or Feldspar
- 12C Feldspar-Bearing
- 12D Tonalite, Granodiorite

Timiskaming Sediments - 2683-2695 Ma
- 11A Arenaceous-Arenite (sandstone)
- 11B Greywacke/Arkosic-wacke
- 11C Conglomerate
- 11C1 Conglomerate (Chester intrusive clast supported)
- 11C2 Conglomerate (volcanic clast supported)
- 11C3 Conglomerate (sedimentary clast supported)
- 11C4 Conglomerate (volcanic matrix supported)
- 11C5 Conglomerate (sedimentary matrix supported)
- 11D Argillite-Mudstone-Siltstone
- 11E Schistose Textured

Felsic to Intermediate Intrusives
Nat River Granotoid Complex/
Ramsay-Algoma Terrane - 2692-2705 Ma
- 10A Granodiorite-Tonalite
- 10B Granodiorite

Felsic to Intermediate Intrusives
Kenogamissi Batholith - 2697-2713 Ma
- 9A Unsubdivided
- 9B Granite
- 9C Granodiorite
- 9D Biotite Tonalite
- 9E Biotite-Amphibole Tonalite
- 9F Biotite Granodiorite
- 9G Biotite-Amphibole Granodiorite

Synvolcanic Felsic to Intermediate Intrusives
Chester Intrusives - 2740 Ma
- 8A Unsubdivided
- 8B Granite
- 8C Tonalite/Trondjhemite
- 8D Granodiorite-Monzodiorite
- 8E Quartz Diorite-Diorite
- 8F Quartz Porphyry
- 8G Feldspar Porphyry
- 8H Quartz-Feldspar Porphyry
- 8I Intrusive Breccia
- 8J Hydrothermal Tonalite Breccia with Dioritic Clasts
- 8K Hydrothermal Diorite Breccia with Tonalitic Clasts
- 8L Granodiorite-Tonalite-Trondjhemite (GTT) In-Situ Magmatic Breccia

Mafic to (Ultramafic) Intrusives
- 7A Unsubdivided
- 7B Diorite - Quartz Diorite
- 7C Gabbro
- 7Cl Leucocratic Gabbro
- 7Cm Melanocratic Gabbro
- 7D Hornblende-Feldspar Porphyry
- 7E Lamprohyre Dykes-Sills

Clastic Metasediments
- 6A Unsubdivided
- 6B Arenaceous - Arenite (Sandstone)
- 6C Arkose/Arkosic-wacke
- 6D Greywacke
- 6E Argillite - Mudstone-Shale
- 6F Epiclastic-Volcaniclastic

Chemical Metasediments
- 5A Unsubdivided
- 5B Chert - Cherty Tuff
- 5C Banded Magnetite-Chert IF
- 5D Banded Carbonate-Chert IF
- 5E Banded Silicate IF
- 5F Banded Sulphide IF

Felsic Metavolcanics
- 4A Unsubdivided
- 4B Massive flow
- 4C Banded flow
- 4D Spherulitic Flow
- 4E Autobreccia - flow breccia
- 4F Tuff
- 4G Lapilli-tuff
- 4H Tuff-breccia
- 4I Crystal tuff
- 4J Volcaniclastic - epiclastic (includes banded tuffs, heteroli

Intermediate Metavolcanics
- 3A Unsubdivided
- 3B Massive flow
- 3C Banded flow
- 3D Porphyritic Flow
- 3E Autobreccia - flow breccia
- 3F Tuff
- 3G Lapilli-tuff
- 3H Tuff-breccia
- 3I Crystal tuff
- 3J Volcaniclastic - epiclastic (includes banded tuffs, heterolithic breccia, lahar, et al)

Mafic Metavolcanics
- 2A Unsubdivided
- 2B Massive flow
- 2C Autoclastic flow/Flow top or bottom breccia
- 2D Amygdaloidal flow
- 2E Porphyritic Flow
- 2F Variolitic flow
- 2G Pillow flows - pillow breccia
- 2H Tuff
- 2I Lapilli-tuff
- 2J Tuff-breccia
- 2K Crystal Tuff
- 2L Volcaniclastic - epiclastic (includes reworked banded tuff heterolithic breccia, lahar, et al)

Ultramafic Metavolcanics/Intrusives
- 1A Unsubdivided
- 1B Basaltic Komatiite
- 1C Komatiite
- 1D Amphibolite
- 1E Pyroxenite
- 1F Anorthosite
- 1G Talc-Serpentine-(Carbonate) Schists

Vein and Stockwork Structures
- QCV Quartz-(Carbonate) Vein
- QV Quartz Vein
- QTCSW Quartz-(Carbonate) Stockwork
- QTSW Quartz Stockwork
- QTBX Quartz Breccia

Shear - Chl-Ser-Sil-Cb Sh e.g. Chl-Cb Sh
- SH (any combination of alteration - protolith uncertain)

Fault Structures
- FLTbx Fault Breccia
- FLTg Fault Gouge
- FLTss Slickenslides

DRILL HOLE REPORT

Hole Number: **BEN16-09A** Project: **BENNEWEIS** Project Number: **240**

Drilling		Casing		Core		Location		Other	
Azimuth:	186.2	**Length:**	506	**Dimension:**	NQ	**Claim No.:**	183318,105649	**Company:**	IAMGOLD
Dip:	-45.6	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	506	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Stephen Roach
Started:	21-Oct-16	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	no
Completed:	26-Oct-16	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	
Logged:	24-Oct-16	**Making water:**	no	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	BENNEWEIS	**Plugged:**	no						

Target: Chargeability high and stacked pyrite and chalcopyrite-rich silicified-sericitic shears and quartz stockw

Comment: Chargeability, surface mineralization, and a northeastern break of the E-W magnetics and arcuate flexuring of metavolcanics/gabbro

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	439142	**East:**	439142	**East:**	0
North:	5268479	**North:**	5268479	**North:**	0
Elev.:	391	**Elev.:**	391	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
0.00	186.20	-45.60		0	0		C	☑	
14.00	188.90	-45.60				56199	M	☑	
17.00	187.80	-45.40				54748	M	☑	
20.00	185.20	-45.60				53843	M	☑	
23.00	187.00	-45.70				53377	M	☑	
26.00	183.30	-45.30				53346	M	☑	
29.00	187.90	-45.20				53169	M	☑	
32.00	186.70	-45.30				53032	M	☑	
35.00	187.00	-45.30				52999	M	☑	
38.00	186.20	-45.40				52967	M	☑	
41.00	187.20	-45.50				52951	M	☑	
44.00	186.30	-45.30				52974	M	☑	
47.00	186.30	-45.40				52947	M	☑	
50.00	187.40	-45.20				52979	M	☑	
53.00	187.30	-45.20				52974	M	☑	

DRILL HOLE REPORT

Hole Number: **BEN16-09A** Project: **BENNEWEIS** Project Number: **240**

Drilling		Casing		Core		Location		Other	
Azimuth:	186.2	**Length:**	506	**Dimension:**	NQ	**Claim No.:**	183318,105649	**Company:**	IAMGOLD
Dip:	-45.6	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	506	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Stephen Roach
Started:	21-Oct-16	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	no
Completed:	26-Oct-16	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	
Logged:	24-Oct-16	**Making water:**	no	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	BENNEWEIS	**Plugged:**	no						

Target: Chargeability high and stacked pyrite and chalcopyrite-rich silicified-sericitic shears and quartz stockw

Comment: Chargeability, surface mineralization, and a northeastern break of the E-W magnetics and arcuate flexuring of metavolcanics/gabbro

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	439142	**East:**	439142	**East:**	0
North:	5268479	**North:**	5268479	**North:**	0
Elev.:	391	**Elev.:**	391	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
56.00	187.50	-45.10				52974	M	☑	
59.00	187.60	-45.20				52942	M	☑	
62.00	187.50	-45.10				52976	M	☑	
65.00	188.30	-45.00				53057	M	☑	
68.00	187.90	-45.20				52975	M	☑	
71.00	187.40	-45.20				52965	M	☑	
74.00	188.20	-45.40				52955	M	☑	
77.00	187.60	-45.20				52970	M	☑	
80.00	188.70	-45.20				52991	M	☑	
83.00	186.90	-45.20				52993	M	☑	
86.00	188.10	-45.00				52985	M	☑	
89.00	187.50	-45.10				52961	M	☑	
92.00	187.60	-45.20				52956	M	☑	
95.00	187.90	-45.00				52975	M	☑	
98.00	188.80	-44.90				53004	M	☑	
100.00	187.70	-44.90				55369		☑	

DRILL HOLE REPORT

Hole Number: **BEN16-09A** Project: **BENNEWEIS** Project Number: **240**

Drilling		Casing		Core		Location		Other	
Azimuth:	186.2	**Length:**	506	**Dimension:**	NQ	**Claim No.:**	183318,105649	**Company:**	IAMGOLD
Dip:	-45.6	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	506	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Stephen Roach
Started:	21-Oct-16	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	no
Completed:	26-Oct-16	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	
Logged:	24-Oct-16	**Making water:**	no	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	BENNEWEIS	**Plugged:**	no						

Target: Chargeability high and stacked pyrite and chalcopyrite-rich silicified-sericitic shears and quartz stockw

Comment: Chargeability, surface mineralization, and a northeastern break of the E-W magnetics and arcuate flexuring of metavolcanics/gabbro

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	439142	**East:**	439142	**East:**	0
North:	5268479	**North:**	5268479	**North:**	0
Elev.:	391	**Elev.:**	391	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
101.00	188.60	-44.90				53016	M	☑	
104.00	188.10	-45.00				52989	M	☑	
107.00	187.90	-45.00				52995	M	☑	
110.00	188.90	-45.00				53032	M	☑	
113.00	188.00	-44.90				53003	M	☑	
116.00	187.70	-44.90				53021	M	☑	
119.00	189.00	-45.00				53022	M	☑	
122.00	187.70	-45.00				52985	M	☑	
125.00	188.50	-44.90				53008	M	☑	
128.00	188.70	-44.80				53024	M	☑	
131.00	188.20	-44.80				53004	M	☑	
134.00	188.70	-44.90				52991	M	☑	
137.00	188.00	-44.90				52965	M	☑	
140.00	189.10	-44.90				52992	M	☑	
143.00	189.10	-44.90				53004	M	☑	
146.00	189.10	-44.90				52936	M	☑	

DRILL HOLE REPORT

Hole Number: **BEN16-09A** Project: **BENNEWEIS** Project Number: **240**

Drilling		Casing		Core		Location		Other	
Azimuth:	186.2	**Length:**	506	**Dimension:**	NQ	**Claim No.:**	183318,105649	**Company:**	IAMGOLD
Dip:	-45.6	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	506	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Stephen Roach
Started:	21-Oct-16	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	no
Completed:	26-Oct-16	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	
Logged:	24-Oct-16	**Making water:**	no	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	BENNEWEIS	**Plugged:**	no						

Target: Chargeability high and stacked pyrite and chalcopyrite-rich silicified-sericitic shears and quartz stockw

Comment: Chargeability, surface mineralization, and a northeastern break of the E-W magnetics and arcuate flexuring of metavolcanics/gabbro

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	439142	**East:**	439142	**East:**	0
North:	5268479	**North:**	5268479	**North:**	0
Elev.:	391	**Elev.:**	391	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
149.00	188.20	-44.80				52936	M	☑	
150.00	188.50	-44.70				55316		☑	
152.00	188.90	-44.70				52991	M	☑	
155.00	188.10	-44.70				52936	M	☑	
158.00	189.00	-44.60				53001	M	☑	
161.00	188.80	-44.60				53004	M	☑	
164.00	188.50	-44.50				53038	M	☑	
167.00	189.70	-44.40				53096	M	☑	
170.00	188.80	-44.50				53045	M	☑	
173.00	188.70	-44.60				52980	M	☑	
176.00	188.60	-44.40				53068	M	☑	
179.00	189.50	-44.50				53023	M	☑	
185.00	190.00	-44.60				52932	M	☑	
188.00	190.90	-44.70				52895	M	☑	
191.00	190.10	-44.70				53027	M	☑	
194.00	188.80	-44.70				53037	M	☑	

DRILL HOLE REPORT

Hole Number: **BEN16-09A** Project: **BENNEWEIS** Project Number: **240**

Drilling		Casing		Core		Location		Other	
Azimuth:	186.2	**Length:**	506	**Dimension:**	NQ	**Claim No.:**	183318,105649	**Company:**	IAMGOLD
Dip:	-45.6	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	506	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Stephen Roach
Started:	21-Oct-16	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	no
Completed:	26-Oct-16	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	
Logged:	24-Oct-16	**Making water:**	no	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	BENNEWEIS	**Plugged:**	no						

Target: Chargeability high and stacked pyrite and chalcopyrite-rich silicified-sericitic shears and quartz stockw

Comment: Chargeability, surface mineralization, and a northeastern break of the E-W magnetics and arcuate flexuring of metavolcanics/gabbro

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	439142	**East:**	439142	**East:**	0
North:	5268479	**North:**	5268479	**North:**	0
Elev.:	391	**Elev.:**	391	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
197.00	189.00	-44.60				53062	M	☑	
200.00	190.10	-44.50				53140	M	☑	
203.00	189.20	-44.40				53172	M	☑	
206.00	189.10	-44.50				53147	M	☑	
209.00	189.20	-44.40				53167	M	☑	
212.00	188.90	-44.40				53161	M	☑	
215.00	189.10	-44.40				53081	M	☑	
218.00	188.00	-44.30				53370	M	☑	
221.00	190.50	-44.30				53025	M	☑	
224.00	191.60	-44.20				53173	M	☑	
227.00	189.60	-44.30				52617	M	☑	
230.00	191.20	-44.10				52912	M	☑	
233.00	190.00	-44.10				52824	M	☑	
236.00	189.40	-44.20				52890	M	☑	
239.00	190.20	-44.00				52942	M	☑	
242.00	190.10	-44.00				52897	M	☑	

DRILL HOLE REPORT

Hole Number: **BEN16-09A** Project: **BENNEWEIS** Project Number: **240**

Drilling		Casing		Core		Location		Other	
Azimuth:	186.2	**Length:**	506	**Dimension:**	NQ	**Claim No.:**	183318,105649	**Company:**	IAMGOLD
Dip:	-45.6	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	506	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Stephen Roach
Started:	21-Oct-16	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	no
Completed:	26-Oct-16	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	
Logged:	24-Oct-16	**Making water:**	no	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	BENNEWEIS	**Plugged:**	no						

Target: Chargeability high and stacked pyrite and chalcopyrite-rich silicified-sericitic shears and quartz stockw

Comment: Chargeability, surface mineralization, and a northeastern break of the E-W magnetics and arcuate flexuring of metavolcanics/gabbro

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	439142	**East:**	439142	**East:**	0
North:	5268479	**North:**	5268479	**North:**	0
Elev.:	391	**Elev.:**	391	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
245.00	189.50	-43.90				52863	M	☑	
248.00	190.40	-44.00				52882	M	☑	
251.00	190.60	-43.90				52922	M	☑	
254.00	190.00	-43.80				52915	M	☑	
257.00	190.50	-43.70				52920	M	☑	
260.00	189.60	-43.80				52916	M	☑	
263.00	190.30	-43.80				52902	M	☑	
266.00	189.90	-43.70				52923	M	☑	
269.00	190.60	-43.70				52933	M	☑	
272.00	190.10	-43.50				52920	M	☑	
275.00	190.70	-43.50				52935	M	☑	
278.00	191.10	-43.40				52960	M	☑	
281.00	190.00	-43.40				52917	M	☑	
284.00	191.30	-43.30				52951	M	☑	
287.00	191.10	-43.40				52913	M	☑	
290.00	190.80	-43.30				52868	M	☑	

DRILL HOLE REPORT

Hole Number: **BEN16-09A** Project: **BENNEWEIS** Project Number: **240**

Drilling		Casing		Core		Location		Other	
Azimuth:	186.2	**Length:**	506	**Dimension:**	NQ	**Claim No.:**	183318,105649	**Company:**	IAMGOLD
Dip:	-45.6	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	506	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Stephen Roach
Started:	21-Oct-16	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	no
Completed:	26-Oct-16	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	
Logged:	24-Oct-16	**Making water:**	no	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	BENNEWEIS	**Plugged:**	no						

Target: Chargeability high and stacked pyrite and chalcopyrite-rich silicified-sericitic shears and quartz stockw

Comment: Chargeability, surface mineralization, and a northeastern break of the E-W magnetics and arcuate flexuring of metavolcanics/gabbro

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	439142	**East:**	439142	**East:**	0
North:	5268479	**North:**	5268479	**North:**	0
Elev.:	391	**Elev.:**	391	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
293.00	191.10	-43.40				52916	M	☑	
296.00	190.30	-43.20				53007	M	☑	
299.00	191.30	-43.10				52873	M	☑	
300.00	190.50	-43.20				55586		☑	
302.00	191.30	-43.30				52970	M	☑	
305.00	190.10	-43.20				52808	M	☑	
308.00	191.00	-43.20				52877	M	☑	
311.00	191.30	-43.10				52944	M	☑	
314.00	190.30	-43.00				52923	M	☑	
317.00	191.50	-42.90				52951	M	☑	
320.00	191.60	-42.90				52921	M	☑	
323.00	191.80	-42.80				52919	M	☑	
326.00	191.70	-42.80				52916	M	☑	
329.00	191.00	-42.90				52907	M	☑	
332.00	191.80	-42.60				52941	M	☑	
335.00	190.90	-42.70				52908	M	☑	

DRILL HOLE REPORT

Hole Number: **BEN16-09A** Project: **BENNEWEIS** Project Number: **240**

Drilling		Casing		Core		Location		Other	
Azimuth:	186.2	**Length:**	506	**Dimension:**	NQ	**Claim No.:**	183318,105649	**Company:**	IAMGOLD
Dip:	-45.6	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	506	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Stephen Roach
Started:	21-Oct-16	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	no
Completed:	26-Oct-16	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	
Logged:	24-Oct-16	**Making water:**	no	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	BENNEWEIS	**Plugged:**	no						

Target: Chargeability high and stacked pyrite and chalcopyrite-rich silicified-sericitic shears and quartz stockw

Comment: Chargeability, surface mineralization, and a northeastern break of the E-W magnetics and arcuate flexuring of metavolcanics/gabbro

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	439142	**East:**	439142	**East:**	0
North:	5268479	**North:**	5268479	**North:**	0
Elev.:	391	**Elev.:**	391	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
338.00	190.90	-42.70				52902	M	☑	
341.00	190.90	-42.70				52875	M	☑	
344.00	191.00	-42.70				52898	M	☑	
347.00	190.90	-42.50				52920	M	☑	
350.00	191.60	-42.50				52921	M	☑	
353.00	191.70	-42.40				52932	M	☑	
356.00	190.90	-42.40				53262	M	☑	
359.00	190.90	-42.60				52922	M	☑	
362.00	192.30	-42.50				53146	M	☑	
365.00	192.30	-42.50				53000	M	☑	
368.00	191.70	-42.50				52946	M	☑	
371.00	192.60	-42.50				52927	M	☑	
374.00	192.30	-42.30				52955	M	☑	
377.00	192.30	-42.30				52946	M	☑	
380.00	192.60	-42.30				52902	M	☑	
383.00	192.20	-42.20				52904	M	☑	

DRILL HOLE REPORT

Hole Number: **BEN16-09A** Project: **BENNEWEIS** Project Number: **240**

Drilling		Casing		Core		Location		Other	
Azimuth:	186.2	**Length:**	506	**Dimension:**	NQ	**Claim No.:**	183318,105649	**Company:**	IAMGOLD
Dip:	-45.6	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	506	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Stephen Roach
Started:	21-Oct-16	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	no
Completed:	26-Oct-16	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	
Logged:	24-Oct-16	**Making water:**	no	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	BENNEWEIS	**Plugged:**	no						

Target: Chargeability high and stacked pyrite and chalcopyrite-rich silicified-sericitic shears and quartz stockw

Comment: Chargeability, surface mineralization, and a northeastern break of the E-W magnetics and arcuate flexuring of metavolcanics/gabbro

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	439142	**East:**	439142	**East:**	0
North:	5268479	**North:**	5268479	**North:**	0
Elev.:	391	**Elev.:**	391	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
386.00	191.60	-42.20				52915	M	☑	
389.00	192.70	-42.10				52915	M	☑	
392.00	192.40	-42.10				52949	M	☑	
395.00	192.70	-42.00				52920	M	☑	
398.00	192.60	-42.00				52911	M	☑	
400.00	192.30	-42.00				55354		☑	
401.00	191.90	-41.90				52904	M	☑	
404.00	######	-41.80				52919	M	☑	
407.00	192.70	-41.70				52949	M	☑	
410.00	192.40	-41.80				52898	M	☑	
413.00	192.40	-41.70				52906	M	☑	
416.00	191.90	-41.60				52924	M	☑	
419.00	192.90	-41.60				52946	M	☑	
422.00	192.30	-41.60				52923	M	☑	
425.00	192.00	-41.60				52942	M	☑	
428.00	192.70	-41.50				52949	M	☑	

DRILL HOLE REPORT

Hole Number: **BEN16-09A** Project: **BENNEWEIS** Project Number: **240**

Drilling		Casing		Core		Location		Other	
Azimuth:	186.2	**Length:**	506	**Dimension:**	NQ	**Claim No.:**	183318,105649	**Company:**	IAMGOLD
Dip:	-45.6	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	506	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Stephen Roach
Started:	21-Oct-16	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	no
Completed:	26-Oct-16	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	
Logged:	24-Oct-16	**Making water:**	no	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	BENNEWEIS	**Plugged:**	no						

Target: Chargeability high and stacked pyrite and chalcopyrite-rich silicified-sericitic shears and quartz stockw

Comment: Chargeability, surface mineralization, and a northeastern break of the E-W magnetics and arcuate flexuring of metavolcanics/gabbro

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	439142	**East:**	439142	**East:**	0
North:	5268479	**North:**	5268479	**North:**	0
Elev.:	391	**Elev.:**	391	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
431.00	192.10	-41.50				52952	M	☑	
434.00	193.20	-41.50				52971	M	☑	
437.00	193.20	-41.40				52989	M	☑	
440.00	193.10	-41.50				52961	M	☑	
443.00	193.10	-41.40				52970	M	☑	
446.00	193.40	-41.30				52984	M	☑	
449.00	193.00	-41.40				52947	M	☑	
450.00	191.90	-41.30				55491		☑	
452.00	193.30	-41.20				52983	M	☑	
455.00	193.10	-41.20				52972	M	☑	
458.00	193.10	-41.10				52962	M	☑	
461.00	192.60	-41.20				52938	M	☑	
464.00	192.40	-41.10				52934	M	☑	
467.00	193.40	-41.00				52963	M	☑	
470.00	192.80	-41.00				52921	M	☑	
473.00	193.20	-41.00				52914	M	☑	

DRILL HOLE REPORT

Hole Number: **BEN16-09A** Project: **BENNEWEIS** Project Number: **240**

Drilling		Casing		Core		Location		Other	
Azimuth:	186.2	**Length:**	506	**Dimension:**	NQ	**Claim No.:**	183318,105649	**Company:**	IAMGOLD
Dip:	-45.6	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	506	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Stephen Roach
Started:	21-Oct-16	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	no
Completed:	26-Oct-16	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	
Logged:	24-Oct-16	**Making water:**	no	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	BENNEWEIS	**Plugged:**	no						

Target: Chargeability high and stacked pyrite and chalcopyrite-rich silicified-sericitic shears and quartz stockw

Comment: Chargeability, surface mineralization, and a northeastern break of the E-W magnetics and arcuate flexuring of metavolcanics/gabbro

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	439142	**East:**	439142	**East:**	0
North:	5268479	**North:**	5268479	**North:**	0
Elev.:	391	**Elev.:**	391	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
476.00	193.10	-41.00				52916	M	☑	
479.00	193.30	-40.80				52931	M	☑	
482.00	193.30	-40.80				52919	M	☑	
485.00	193.20	-40.70				52899	M	☑	
488.00	193.10	-40.80				52872	M	☑	
491.00	193.50	-40.60				52913	M	☑	
494.00	193.00	-40.70				52847	M	☑	
497.00	192.80	-40.70				52832	M	☑	
500.00	193.20	-40.50				52864	M	☑	
503.00	192.70	-40.40				52825	M	☑	
506.00	192.60	-40.40				52827	M	☑	

LITHOLOGY REPORT
- Detailed -

Hole Number **BEN16-09A** Project: **BENNEWEIS** Project Number: **240**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
0.00	4.00	**Overburden** **OB** ***Overburden***	4	3	BR									
		Overburden (Casing 0 to 6.0 m) - numerous boulders												
4.00	4.95	**Fresh Rock** **8D** ***Granodiorite-Monzodiorite***	1	1	GG									
		Granodiortite/Quartz-Feldspar Porphyry - greenish gray to gray color, felsic to intermediate in composition with weak to moderate sericite & carbonate alteration in matrix about fg to mg (<0.3 cm) quartz phenocrysts; porphritic texture being moderately sheared/foliated 45 from C.A.; <1% qcs/qs. Broken core from 4.2 to 4.5.												
		Mineralization: barren to occasional py < 0.5% Contact - shsarp contact 46 from C.A.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		4.00 - 4.95 CB MX 2 Weak to moderateCarbonatization, Matrix, Weak												
		4.00 - 4.95 SR MX 2 Weak to moderate Sericitization, Matrix, Weak												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		4.00 - 4.95 Py BLB 1 Pyrite, Blebs, 1%												
4.95	6.35	**Fresh Rock** **8D** ***Chloritic-Carbonate Altered Granodiorit***	1	1	GR									
		Chlorite-Carbonate Altered Granodiorite - green with locally grayish-green color, mafic composition with weak chlorite and weak to moderate carbonate (calcite) alteration of matrix; vfg to fg with local 5% cg quartz phenocrysts at 5.9 giving relict porphritic texture; moderately to strongly sheared 44 from C.A.; <1% qcs/cs												
		Mineralization - barren to < 0.5% py												

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Contact - sharp contact 25 from C.A.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		4.95 - 6.35 CL MX 2 Chloritization, Matrix, Weak												
		4.95 - 6.35 CB MX 3 Carbonatization, Matrix, Moderate												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		4.95 - 6.35 Py BLB 1 Pyrite, Blebs, <0.5%												
6.35	9.90	**Fresh Rock** **8D** ***Weakly Chloritic-Carbonate Altered Gra***	1	1	GG	283001	9.40	9.90	0.50	0	-	0.01	-	-
		Weakly Chloritic-Carbonate Altered Granodiorite/Quartz-Feldspar Porphyry - greenish gray color, felsic to intermediate in composition with weak to moderate insipient chl-cb alteration of interstitial matrix in tightly packed medium coarse grained (<0.5 to 1.0 cm) phenocrysts and xenocrysts; porphyritic texture,weakly foliated/sheared 30 to 35 from C.A., <1% qs/qcs.												
		Mineralization - barren to occasional py < 0.5% Contact - sharp contact 30 from C.A.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		6.35 - 9.90 CB IS 2 Carbonatization, Interstitial, Weak to Moderate												
		6.35 - 9.90 CL IS 2 Chloritization, Interstitial, Weak to Moderate												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		6.35 - 9.90 Py BLB 1 Pyrite, Blebs, <0.5%												
9.90	11.05	**Fresh Rock** **7C** ***Gabbro***	1	1	GR	283002	9.90	11.05	1.15	0	-	0.01	-	-
		Gabbro - green color, mafic composition with moderate to (strong) chl and cb with cb (calcite) being sh controlled, vfg to fg and strongly foliated/sheared 60 from C.A.; 2% to 4$ qcs/cs parallel to sh up to 1 cm												

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		in width. Mineralization - barren to < 0.5% py Contact - sharp contact 55 from C.A												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment*** 9.90 - 11.05 CB SP 3 Carbonatization, Along Shear Planes, Moderate to (Strong) 9.90 - 11.05 CL SP 3 Chloritization, Along Shear Planes, Moderate to (Strong)												
11.05	19.40	**Fresh Rock** **8D** ***Silicified-Albitized Granodiorite-Monzod***	1	1	WH	283003	11.05	12.00	0.95	0	-	0.01	-	-
		Silicified-Albitized Granodiorite-Monzodiorite - bleached white, grayish-white, and green color, altered felsic to intermediate composition with strong intense and pervasive sil-ab cherty-like alteration, relict vfg albite phenocrysts (5% to 10%) in sil-ab matrix, 20% to 25% vfg to fg amp-chl-(cb) grains throughout the section, 5% to 10% rounded, mafic gabbroic inclusions/rafts/xenoliths up to 35 cm in size with sharp irregular contacts, numerous thin (<0.1 cm) random oriented amp-chl fractures up to 15 fractures/meter…generally 45 to 55 from C.A.,occasional qs < 1%				283004	12.00	13.00	1.00	0	-	0.01	-	-
						283005	13.00	14.00	1.00	0	-	0.01	-	-
						283006	14.00	15.00	1.00	0	-	0.01	-	-
						283007	15.00	16.00	1.00	0	-	0.01	-	-
						283008	16.00	17.00	1.00	0	-	0.01	-	-
						283009	17.00	18.00	1.00	0	-	0.01	-	-
						283010	18.00	19.00	1.00	0	-	0.01	-	-
						283011	19.00	19.40	0.40	0	-	0.01	-	-
		Mineralization - barren to occasional <0.5% py Contact - sharp contact 79 from C.A. Mineralization - barren to occasiona l py < 0.5; non-magnetic Contact- sharp contact 72 from C.A.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment*** 11.05 - 19.40 AB PV 5 Albitization, Pervasive, Intense 11.05 - 19.40 SI PV 5 Silicification, Pervasive, Intense												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment*** 11.05 - 19.40 Py BLB 1 Pyrite, Blebs, <0.5%												

LITHOLOGY REPORT
- Detailed -

Hole Number **BEN16-09A** Project: **BENNEWEIS** Project Number: **240**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
19.40	23.55	**Fresh Rock** **7Cm** ***Melanocratic Gabbro***	1	1	GR	283013	19.40	20.00	0.60	0	-	0.01	-	-

Melanocratic Gabbro - green color; mafic composition with weak chl and moderate to (strong) cb (calcite) alteration, melanocratic with amp-chl>fd with 10% to 20% vfg to fg fd; massive texture, scattered qs/qcs, non-foliated

at 22.25 (4 cm wide) - QFP Dyke - felsic to intermediate composition, porphyritic texture, sharp contact 40 to 45 from C.A.

Mineralization - occasional py cubes < 0.5%; non-magnetic
Contact - sharp contact at 70 from C.A.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
19.40 - 23.55	CB MX 3	Carbonatization, Matrix, Moderate to Strong
19.40 - 23.55	CL MX 2	Chloritization, Matrix, Weak
Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
19.40 - 23.55	Py BLB 1	Pyrite, Blebs, <0.5%

Hole Number **BEN16-09A** Project: **BENNEWEIS** Project Number: **240**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
23.55	36.00	**Fresh Rock** **8D** ***Porphyritic Granodiorite-Monzodiorite/***	1	1	GG

Porphyritic Granodiorite-Monzodiorite/Quartz-Feldspar Porphyry - grayish-green, white, and green colors, felsic to intermediate composition with numerous, rounded gabbroic inclusions/rafts/xenoliths comprising 15% to 20% with rafts up to 0.81 m in size; strong feldspathic with 30% to 40% mg to cg (up to 1.0 cm) albite fd phenocrysts and 5% to 10% mg ((up to 0.3 cm) bluish quartz-eyes in an vfg amp-chl interstitial matrix, porphyritic texture, occasional to gradual increase in quartz veinlet fracturing from….

26.7 to 30.4 - Fracture Zone - local pinkish-red hem-(kspar?) alteration about qs margins, 5% to 40% qs ranging from <1cm to 8 cm wide….average 10% to 15% qs, quartz veinlets range from 58 to 85 from C.A.. < 0.5% py

Mineralization - occasional py cubes < 0.5%
Contact - sharp contact with 16 cm wide quartz veinlet at 48 from C.A.

Mineralization - occasional py cube < 0.5%, non-magnetic
Contact - sharp contact 46 from C.A. and increase in quartz veining

Alteration Maj:	***Type/Style/Intensity***	***Comment***
26.70 - 30.40	HM MTV 3	Hematization (kspar?), Marginal to veins, Moderate

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
23.55 - 36.00	Py BLB 1	Pyrite, Blebs,<0.5%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
283014	26.20	26.70	0.50	0	-	0.01	-	-
283015	26.70	27.20	0.50	0	-	0.01	-	-
283016	27.20	27.90	0.70	0	-	0.01	-	-
283017	27.90	28.50	0.60	0	-	0.01	-	-
283018	28.50	28.90	0.40	0	-	0.01	-	-
283019	28.90	29.60	0.70	0	-	0.01	-	-
283020	29.60	30.40	0.80	0	-	0.01	-	-
283021	30.40	31.40	1.00	0	-	0.01	-	-
283022	35.50	36.00	0.50	0	-	0.01	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
36.00	37.60	**Fresh Rock** **QTS W** ***Quartz Stockwork/Porphyritic Granodio***	1	1	WH

Quartz Stockwork/Porphyritic Granodiorite/QFP - grayish white, greenish grayish-white, and white color; felsic to intermediate composition of wallrock with scattered rounded gabbroic xenoliths/rafts up to 14 cm in size; strong feldspathic with 30% to 40% mg to cg (up to 1.0 cm) albite fd phenocrysts and 5% to 10% mg ((up to 0.3 cm) bluish quartz-eyes in an vfg amp-chl interstitial matrix, porphyritic texture, moderately to strongly fractured with 20% quartz veinlets up to 16 cm wide…quartz veinlets are wk fractured, bull-like quartz; quartz veinlets range 48 to 70 from C.A.

Mineralization - barren to occasional py < 0.5%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
283023	36.00	36.50	0.50	0	-	0.01	-	-
283025	36.50	37.00	0.50	0	-	0.01	-	-
283026	37.00	37.70	0.70	0	-	0.01	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Contact - sharp and irregular 50 from C.A.												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		36.00 - 37.60 Py BLB 1 Pyrite, Blebs, <0.5%												
37.60	39.70	**Fresh Rock** **7Cm** ***Melanocratic Gabbro***	1	1	GR	283027	37.70	38.50	0.80	0	-	0.01	-	-
		Melanocratic Gabbro - green color, mafic composition with weak to moderate chl and moderate cb (calcite) with strong chl alteration at upper contact from 37.6 to 38.45, vfg massive/sheared upper contact area to 38.45 and fg (<0.10 cm), melanocratic with amp>fd with 20% vfg fd (albite) giving an equigranular texture				283028	38.50	38.90	0.40	0	-	0.01	-	-
						283029	38.90	39.70	0.80	0	-	0.01	-	-
		38.0 to 38.3 - 10 cm wide QFP Dyke at 10 from C.A.; felsic to intermediate composition with hem or kspar, porphyritic texture, 1% qs, < 0.5% py												
		Mineralization - barren to occasional py <0.5%, non-magnetic Contact - sharp contact												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		37.60 - 39.70 CB MX 3 Carbonatization, Matrix, Moderate												
		37.60 - 39.70 CL MX 2 Chloritization, Matrix, Weak to Moderate with strong chlorite from 37.6 to 38.45												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		37.60 - 39.70 Py BLB 1 Pyrite, Blebs, <0.5%												
39.70	42.25	**Fresh Rock** **8D** ***Porphyritic Granodiorite-Monzodiorite/***	1	1	GY									
		Porphyritic Granodiorite-Monzodiorite/Quartz-Feldspar Porphyry - similar in description to section from												

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)

23.55 to 36.0 with…

1) no xenoliths/rafts/inclusions
2) 3% to 4% qs up to 2 cm

Mineralization - barren to occasional py < 0.5%, non-magnetic
Contact - sharp contact 11 from C.A.

Mineralization Maj. :	Type/Style/%Mineral	Comment
39.70 - 42.25	Py BLB 1	Pyrite, Blebs, <0.5%

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
42.25	55.70	**Fresh Rock** **7Cm** ***Melanocratic Gabbro***	1	1	GR									

Melanocratic Gabbro - green color, mafic composition with wk-mod chl and cb (calcite)…gradual more chl with local mod cb from 52.0 to 55.7 in the vfg section, melanocratic with amp-chl>fd with 25% to 35% albitic fd, vfg to fg equigranular texture with vfg lower contact from 52.0 to 55.7,

- numerous porphyritic granodiorite/QFP dykes from 47.0 to 53.25 accounting for 6% of interval, range from 2 cm to 13 cm wide, vary from 34 to 67 from C.A., occasional qs/qcs with increased fracturing in the form of thin (up to 4 cm wide) cs/qcs (5% to 7%) from 52.0 to 55.7 in the vfg, carbonate-altered section

Mineralization - barren to occasional py < 0.5%
Contact - sharp irregular contact with 5 cm qcs 70 from C.A

Alteration Maj:	Type/Style/Intensity	Comment
42.25 - 55.70	CB MX 2	Carbonatization, Matrix, Weak to Moderate
42.25 - 55.70	CL MX 2	Chloritization, Matrix, Weak to Moderate

Mineralization Maj. :	Type/Style/%Mineral	Comment
42.25 - 55.70	Py BLB 1	Pyrite, Blebs, <0.5%

Hole Number **BEN16-09A** Project: **BENNEWEIS** Project Number: **240**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
55.70	58.50	**Fresh Rock** **8D** ***Porphyritic Granodiorite-Monzodiorite/***	1	1	PI	283030	58.00	58.50	0.50	0	-	0.01	-	-
58.50	65.60	**Fresh Rock** **7Cm** ***Melanocratic Gabbro***	1	1	GR	283031	58.50	59.50	1.00	0	-	0.01	-	-
						283032	59.50	60.50	1.00	0	-	0.01	-	-

Porphyritic Granodiorite-Monzodiorite/Quartz-Feldspar Porphyry - pinkish grayish-white color, felsic to intermediate in composition with tightly packed pinkish white mg to cg (up to 1 cm in size) feldpar(35% to 40%) in an vfg quartz interstital matrix; 5% chl-amp in matrix, porphyritic texture, occasional chl wallrock inclusion (up to 3 cm wide) and widely scattered qs/qcs (<5%) up to 6 cm wide

Mineralization - barren to occasional py < 0.5%
Contact - sharp contact 21 from C.A.

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
55.70 - 58.50	Py BLB 1	Pyrite, Blebs, <0.5%

Melanocratic Gabbro - Similar in description to section from 42.25 to 55.7 with exception of…

1) being very fine grained
2) irregular shaped QFP dyke(s) from 62.35 to 63.15 with dykes ranging from 3cm to 18 cm wide
3) broken core between 63.95 and 64.45

64.85 to 65.1 - Quartz-Feldspar Porphyry Dyke - cream gray color, felsic to intermediate composition with mg to cg (<0.5 cm) bluish qe (10% to 20%) in a vfg qtz-fd matrix, porphyritic texture, 2% qs, < 1% py, sharp upper contact 51 from C.A. and irregular lower contact between 45 and 75 from C.A.

Mineralization - scattered cg py cubes < 1% at upper contact from 58.5 to 59.2 with a spec of cpy (<0.5%)
Contact - sharp contact 44 from C.A

Alteration Maj:	***Type/Style/Intensity***	***Comment***
58.50 - 65.60	CB MX 2	Carbonatization, Matrix, Weak to Moderate
58.50 - 65.60	CL MX 2	Chloritization, Matrix, Weak to Moderate

Hole Number **BEN16-09A** Project: **BENNEWEIS** Project Number: **240**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
65.60	75.20	**Fresh Rock** **8D** ***Porphyritic Granodiorite-Monzodiorite/***	1	1	GY	283033	74.00	74.60	0.60	0	-	0.01	-	-
						283034	74.60	75.20	0.60	0	-	0.01	-	-
75.20	77.10	**Fresh Rock** **2G** ***Mafic Pillow Flow***	1	1	GR	283035	75.20	76.20	1.00	0	-	0.01	-	-
						283037	76.20	77.10	0.90	0	-	0.01	-	-

Porphyritic Granodiorite-Monzodiorite/Quartz-Feldspar Porphyry - gray, to greenish-gray, to grayish white colors, felsic to intermediate in composition with 10% to 20% cg (up to 0.70 cm in size) bluish qe and 25% to 35% tightly packed mg to cg (up to 1.0 cm in size) albitic feldspar, 5% to 10% chl-amp interstitial matrix about qe and fd phenocrysts, porphritic texture, assimilated diffuse gabbroic wallrock inclusions from 65.6 to 66.8, scattered qs < 1% up to 14 cm in width, non-foliated with increased sh/foliated from 74.6 to 75.2 40 from C.A.

Mineralization- barren to occasional py < 0.5%
Contact - sharp sheared contact 51 from C.A. .

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
65.60 - 75.20	Py BLB 1	Pyrite, Blebs, <0.5%

Sheared Mafic Pillow Flow - green color, mafic in composition with moderate to strong chl and weak cb alteration, vfg and strongly sheared with possible relict pillow (attenuated bands up to 1.5 cm wide), strongly sh 40 to 45 from C.A.

Mineralization - occasional to widely scattered py averaging < 1% with local up to 1% scattered vfg cubes
Contact - sharp sheared contact 45 from C.A.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
75.20 - 77.10	CB SP 2	Carbonatization, Along Shear Planes, Weak
75.20 - 77.10	CL SP 4	Chloritization, Along Shear Planes, Moderate to Strong

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
75.20 - 77.10	Py BLB 1	Pyrite, Blebs, up to 1% scattered

Hole Number **BEN16-09A** Project: **BENNEWEIS** Project Number: **240**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
77.10	88.70	**Fresh Rock** **8D** ***Porphyritic Granodiorite-Monzodiorite/***	1	1	GG	283038	77.10	77.60	0.50	0	-	0.01	-	-
						283039	79.90	80.80	0.90	0	-	0.01	-	-
						283040	80.80	81.50	0.70	0	-	0.01	-	-
						283041	81.50	82.25	0.75	0	-	0.01	-	-
						283042	82.25	82.75	0.50	0	-	0.01	-	-
						283043	82.75	83.25	0.50	0	-	0.01	-	-

Porphyritic Granodiorite-Monzodiorite/Quartz-Feldspar Porphyry to Feldspar Porphyry - greenish gray, grayish white, with pinkish greenish-gray colors, felsic to intermediate in composition with mg to cg (0.3 to 1.0 cm in size) tightly packed albite phenocrysts and xenocrysts with 5% to 10% blue qe from 79.1 to 82.1 with a gradational decrease in quartz and more feldsphyric (FP) towards 88.7, albite phenocysts have a pinkish/reddish hue from 84.85 to 88.7 with hematite dusting on feldspars, 10% to 20% amp-chl interstitial matrix about the fd/qe phenocrysts, well developed porphyritic texture, more frequent mafic gabbroic, sometimes diffuse/assimilated, rafts/xenoliths from 82.75 to 88.7….. up to 20 cm wide (82.75 to 82.95), occasional to locally numerous qs with increase qs fracturing from 80.0. to 82.75 with about 10% to 15% qs ranging 2 to 12 cm wide, qs/qv are generally milky white, showing very little fracturing with a msv appearance and no sulphide, qs/wr contacts 50 from C.A.

Mineralization - barren to occasional py < 0.5%
Contact - gradational contact with assimilated gabbroic inclusions and QFP from 88.7 to 90.4

Alteration Maj:	***Type/Style/Intensity***	***Comment***
84.85 - 88.70	HM DISS 3	Hematization, Disseminated, Moderate to Strong Dusting

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
77.10 - 88.70	Py BLB 1	Pyrite, Blebs, <0.5%

88.70	117.10	**Fresh Rock** **7Cm** ***Melanocratic Gabbro***	1	1	GR									

Melanocratic Gabbro - green to whitish green with pinkish red hues, mafic composition being melanocratic with amp-chl>fd with weak to moderate chl and increased weak to moderate carbonate (calcite) from 112.8 to 117.1; mod to strong hem sections associated with QFP dykes from 92.4 to 104.6 and 115.4 to 117.1, generally vfg to fg with coarser grained section from 98.6 to 100.8 with up to 0.3 cm amp-fd grains with contacts at 48 and 56 from C.A , respectively, massive with equigranular texture in coarser sections.

Hole Number **BEN16-09A** Project: **BENNEWEIS** Project Number: **240**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)

Notable porphyritic granodiorite /QFP dykes from…

97.15 to 97.65 - felsic to intermediate with mod/strong hem/chl altered matrix, relict porphyritic texture, gradational contacts
101.95 to 102.8 - felsic to intermediate in composition with cg 40% to 45% fd and 10% to 15% qtz phenocrysts and up to 5% amp with rounded gabbroic inclusion between 2 and 8 cm, sharp upper contact 60 from C.A.

104.3 to 104.6 - felsic to intermediate with mod/strong hem altered matrix, relict porphyritic texture, sharp and irregular upper and broken lower contacts
107.8 to 108.25 - felsic to intermediate in composition with cg 40% to 45% fd and 10% to 15% qtz phenocryst, up to 5% amp-chl interstitial matrix, 25% to 30%stoped gabbroic xenoliths up to 5 cm

- numerous hematitic QFP dykeslets up to 2 to 3 cm wide from 115.4 to 117.2, numerous gabbroic inclusions with QFP dyking bodies at upper contact from 88.7 to 90.4 and from 101.95 to 108.25, broken core between 114.25 to 115.0

Mineralization - barren to occasional py < 0.5%, non-magnetic
Contact - gradationally finer grained from 108.9 to 117.2 and increase in hem QFP

Alteration Maj:	***Type/Style/Intensity***	***Comment***
88.70 - 92.40	CB MX 2	Carbonatization, Matrix, Weak
88.70 - 92.40	CL MX 2	Chloritization, Matrix, Weak to Moderate
92.40 - 104.60	HM GM 4	Hematization, Groundmass, Moderate to Strong
92.40 - 104.60	CB MX 2	Carbonatization, Matrix, Weak
92.40 - 104.60	CL MX 2	Chloritization, Matrix, Weak to Moderate
104.60 - 115.40	CB MX 2	Carbonatization, Matrix, Weak to Moderate
104.60 - 115.40	CL MX 2	Chloritization, Matrix, Weak to Moderate
115.40 - 117.10	HM GM 4	Hematization, Groundmass, Moderate to Strong
115.40 - 117.10	CB MX 2	Carbonatization, Matrix, Weak to Moderate
115.40 - 117.10	CL MX 2	Chloritization, Matrix, Weak to Moderate
Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
88.70 - 117.10	Py BLB 1	Pyrite, Blebs, <0.5%

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
117.10	118.80	**Fresh Rock** **FLTg** ***Fault Zone***	1	1	GR									
		Fault Zone (broken core) - green color, altered mafic composition with moderate chl and variable weak to strong carbonate in the form of calcite, local hem stain associated with porphyritic granodiorite/QFP dykes, vfg and massive appearance, extremely broken core from 117.1 to 118.4, observed slickenslides on broken core locally. Mineralization - barren to occasional py < 0.5%, non-magnetic Contact - gradational												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		117.10 - 118.80 HM SPT 3 Hematization, Spotty/Patchy, Moderate												
		117.10 - 118.80 CB MX 2 Carbonatization, Matrix, Weak to Strong												
		117.10 - 118.80 CL MX 2 Chloritization, Matrix, Weak												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		117.10 - 118.80 Py BLB 1 Pyrite, Blebs,<0.5%												
118.80	142.54	**Fresh Rock** **7Cm** ***Melanocratic Gabbro***	1	1	GR	283044	136.00	137.00	1.00	0	-	0.01	-	-
						283045	140.00	141.00	1.00	0	-	0.01	-	-
		Melanocratic Gabbro - similar in description to section from 88.7 to 117.1 with… 1) melanocratic with amp>fd being fg to mg (,0.2 to 0.3 cm), variable wk to mod cb in matrix, well deveoped equigranular texture in coarser sections with finer grained from 134.2 to 135.7. 2) numerous hematitic sections (up to 1.3 mwide) grading in and out of moderate to strong brick red hematite staining 3) non-foliated/sheared Numerous porphyritic granodiorite/feldspar porphyry dykes from… 129.7 to 130.5 - felsic to intermediate composition being strongly feldsphyric with 30% to 40% fg to mg (<0.3 cm) albite with strong hem upper and lower contact areas, porphyrtic texture, <5% mafic gabbroic												

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)

inclusions up to 7 cm in size, sharp upper contact 80 from C.A with stoped, irregular lower contact

133.35 to 134.2 0 - felsic to intermediate in composition being feldsphyric and strong hem stain, 40% to 45% tightly packed fd uo to 0.3 cm in size, porphyritic texture, < 1% qs, sharp upper and lower contact 70 and 60 from C.A., respectively, well developed chill zones

Mineralization - barren to occasiona py < 0.5%
Contact - sharp contact 50 from C.A.

135.7 to 137.61- gabbro with patchy epidote and patchy hematite alt. possible lcx scattered interstitially. Rock consists of feldspar and chl throughout interstitially. Chl looks like alteration product.
137.61 to 141.51- perv hem alt. possible lcx interstitial. rock composition as above.
141.51 to 142.59- hm spt 1, ep spt 1 composition as above, possible lcx interstitial.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
135.70 - 137.61	LX IS 1	Leucoxene, Interstitial, Very weak
135.70 - 137.61	CL IS 3	Chloritization, Interstitial, Moderate
135.70 - 137.61	EP SPT 1	Epidotization, Spotty/Patchy, Very weak
135.70 - 137.61	HM SPT 2	Hematization, Spotty/Patchy, Weak
137.61 - 141.51	LX IS 1	Leucoxene, Interstitial, Very weak
137.61 - 141.51	CL IS 3	Chloritization, Interstitial, Moderate
137.61 - 141.51	HM PV 2	Hematization, Pervasive, Weak
141.51 - 142.54	CL IS 3	Chloritization, Interstitial, Moderate
141.51 - 142.54	LX IS 1	Leucoxene, Interstitial, Very weak
141.51 - 142.54	EP SPT 1	Epidotization, Spotty/Patchy, Very weak
141.51 - 142.54	HM SPT 1	Hematization, Spotty/Patchy, Very weak

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
135.70 - 142.54	Py DIS 0	Pyrite, Disseminated, 0%

Texture Maj:	***Type***	***Comment***
135.70 - 142.54	MG	Medium Grained(1-5mm)

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
142.54	142.95	**Fresh Rock** **7C** ***Gabbro***	1	1	GR	283046	142.54	142.95	0.41	0	-	0.01	-	-

Gabbro dyke, light to medium green colour. Foliated throughout, pervasive chl alt, with carb alt along foliation planes. Unit is fg, with vfg patches of more intense chl alt. there is no mineralization visible.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
142.54 - 142.95	CB FP 1	Carbonatization, Along Foliation Planes, Very weak
142.54 - 142.95	CL SPT 4	Chloritization, Spotty/Patchy, Strong
142.54 - 142.95	CL FP 2	Chloritization, Along Foliation Planes, Weak

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
142.54 - 142.95	Py DIS 0	Pyrite, Disseminated, 0%

142.95	151.16	**Fresh Rock** **8D** ***Granodiorite-Monzodiorite***	1	1	REBR	283047	146.00	147.00	1.00	0	-	0.01	-	-
						283049	147.50	148.50	1.00	0	-	0.01	-	-
						283050	150.00	151.16	1.16	0	-	0.01	-	-

mg to cg granodiorite.
Zones of weak to moderate hem alt, as well as epidote alt. unit consists mainly of feldspar grains with large ammounts of interstitial chlorite, which appears to be a replacement product. There is some carbonate along a few fractures, but overall the unit is fairly competent. Towards the end of the unit, hematite alt becomes less prevalent, and epidote becomes the predominate alteration. The core becomes more greenish down hole. There is a large ammount of disseminated leucoxene throughout this unit.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
142.95 - 147.30	LX DISS 1	Leucoxene, Disseminated, Very weak
142.95 - 147.30	HM SPT 3	Hematization, Spotty/Patchy, Moderate
142.95 - 147.30	EP SPT 2	Epidotization, Spotty/Patchy, Weak
142.95 - 147.30	CL IS 3	Chloritization, Interstitial, Moderate
147.30 - 151.16	HM SPT 1	Hematization, Spotty/Patchy, Very weak

From (m)	To (m)		Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		147.30 - 151.16	SR SPT 3	Sericitization, Spotty/Patchy, Moderate											
		147.30 - 151.16	EP PV 1	Epidotization, Pervasive, Very weak											
		147.30 - 151.16	CL IS 3	Chloritization, Interstitial, Moderate											
		Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***											
		142.95 - 151.16	Py DIS 0.05	Pyrite, Disseminated, 0.05%											
		Texture Maj:	***Type***	***Comment***											
		142.95 - 151.16	MG	Medium Grained(1-5mm)											
151.16	154.75	**Fresh Rock**	**8D**	***Granodiorite-Monzodiorite***	1	1	LGR	283051	151.16	151.63	0.47	0	-	0.01	-	-
		lightly chloritized and epidote alt'd granodiorite. Some zones have silicic overprint, particularly at the start. There are zones of stronger chl alt and epidote alt towards the end of the unit. Leucoxene is present throughout. There is very little (trace) mineralization, however there are several veins running through the unit, in particular at the start around the silicified zone.						283052	154.00	154.75	0.75	0	-	0.01	-	-
		Alteration Maj:	***Type/Style/Intensity***	***Comment***											
		151.16 - 151.63	CB FRC 1	Carbonatization, Along Fractures, Very weak											
		151.16 - 151.63	CL IS 1	Chloritization, Interstitial, Very weak											
		151.16 - 151.63	HM PV 1	Hematization, Pervasive, Very weak											
		151.16 - 151.63	SI PV 3	Silicification, Pervasive, Moderate											
		151.63 - 153.33	SR FRC 2	Sericitization, Along Fractures, Weak											
		151.63 - 153.33	CL IS 2	Chloritization, Interstitial, Weak											
		151.63 - 153.33	EP AFG 1	Epidotization, Alteration of feldspar grains, Very weak											
		151.63 - 153.33	SI SPT 2	Silicification, Spotty/Patchy, Weak											
		153.33 - 154.75	EP SPT 2	Epidotization, Spotty/Patchy, Weak											
		153.33 - 154.75	CB SPT 1	Carbonatization, Spotty/Patchy, Very weak											
		153.33 - 154.75	SR FRC 1	Sericitization, Along Fractures, Very weak											

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		153.33 - 154.75 CL PV 4 Chloritization, Pervasive, Strong												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		151.16 - 154.75 Py DIS 0.05 Pyrite, Disseminated, 0.05%												
		Texture Maj: ***Type*** ***Comment***												
		151.16 - 154.75 MG Medium Grained(1-5mm)												
154.75	177.04	**Fresh Rock** **8D** ***Granodiorite-Monzodiorite***	1	1	DGR	283053	154.75	156.00	1.25	0	-	0.01	-	-
		feldspathic granodiorite. Pervasive chl alt through the unit, along with sericite alteration yields a greenish colour, ranging from very dark where chlorite is more intense, to medium green where it is more a mixture of sericite and chlorite. Where the chlorite is less intense, the underlying texture of the rock can be seen more clearly. The unit is cut by several quartz veins, often with carbonate present along the edges of them. There is leucoxene disseminated throughout the unit. Parts of the unit have carbonate alteration replacing feldspar grains giving a felsic appearance. Parts of the unit are foliated. There are also more sulphides in these zones, including cpy and and py. Unit becomes progressively less altered down hole.				283054	156.00	157.00	1.00	0	-	0.01	-	-
						283055	158.08	159.00	0.92	0	-	0.01	-	-
						283056	159.00	160.00	1.00	0	-	0.01	-	-
						283057	163.00	163.75	0.75	0	-	0.01	-	-
						283058	163.75	164.52	0.77	0	-	0.01	-	-
						283059	164.52	165.43	0.91	0	-	0.01	-	-
						283061	165.43	166.58	1.15	0	-	0.01	-	-
						283062	167.00	168.26	1.26	0	-	0.01	-	-
						283063	169.40	170.47	1.07	0	-	0.01	-	-
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		154.75 - 156.22 CB SPT 2 Carbonatization, Spotty/Patchy, Weak												
		154.75 - 156.22 SR FP 1 Sericitization, Along Foliation Planes, Very weak												
		154.75 - 156.22 CL PV 2 Chloritization, Pervasive, Weak												
		154.75 - 156.22 LX DISS 1 Leucoxene, Disseminated, Very weak												
		156.22 - 158.08 SR IS 1 Sericitization, Interstitial, Very weak												
		156.22 - 158.08 CB FRC 1 Carbonatization, Along Fractures, Very weak												
		156.22 - 158.08 CL IS 2 Chloritization, Interstitial, Weak												
		156.22 - 158.08 LX DISS 1 Leucoxene, Disseminated, Very weak												
		158.08 - 161.00 CL PV 4 Chloritization, Pervasive, Strong												
		158.08 - 161.00 CB FP 2 Carbonatization, Along Foliation Planes, Weak												
		158.08 - 161.00 SR MTV 1 Sericitization, Marginal to veins, Very weak												

Hole Number **BEN16-09A** Project: **BENNEWEIS** Project Number: **240**

From (m)	To (m)		Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		158.08 - 161.00	SI MTV 2	Silicification, Marginal to veins, Weak											
		161.00 - 164.53	CB FP 2	Carbonatization, Along Foliation Planes, Weak											
		161.00 - 164.53	CL PV 3	Chloritization, Pervasive, Moderate											
		161.00 - 164.53	SI MTV 1	Silicification, Marginal to veins, Very weak											
		161.00 - 164.53	LX SPT 1	Leucoxene, Spotty/Patchy, Very weak											
		164.53 - 168.27	CB AFG 1	Carbonatization, Alteration of feldspar grains, Very weak											
		164.53 - 168.27	CL SPT 5	Chloritization, Spotty/Patchy, Intense											
		164.53 - 168.27	LX DISS 1	Leucoxene, Disseminated, Very weak											
		164.53 - 168.27	CL IS 2	Chloritization, Interstitial, Weak											
		168.27 - 172.00	CL SPT 4	Chloritization, Spotty/Patchy, Strong											
		168.27 - 172.00	CB FRC 2	Carbonatization, Along Fractures, Weak											
		168.27 - 172.00	CB AFG 1	Carbonatization, Alteration of feldspar grains, Very weak											
		168.27 - 172.00	CL IS 2	Chloritization, Interstitial, Weak											
		172.00 - 174.80	CL IS 1	Chloritization, Interstitial, Very weak											
		172.00 - 174.80	EP SPT 1	Epidotization, Spotty/Patchy, Very weak											
		172.00 - 174.80	LX DISS 2	Leucoxene, Disseminated, Weak											
		172.00 - 174.80	SR IS 1	Sericitization, Interstitial, Very weak											
		174.80 - 177.04	CL IS 1	Chloritization, Interstitial, Very weak											
		174.80 - 177.04	EP SPT 1	Epidotization, Spotty/Patchy, Very weak											
		Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***											
		154.75 - 156.22	Py DIS 0.5	Pyrite, Disseminated, 0.5%											
		156.22 - 156.75	Py BLB 1	Pyrite, Blebs, 1%											
		156.22 - 156.75	Py DIS 2	Pyrite, Disseminated, 2%											
		156.75 - 158.28	Py DIS 0.5	Pyrite, Disseminated, 0.5%											

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		158.28 - 160.00 Py BLB 1 Pyrite, Blebs, 1%												
		158.28 - 160.00 Cpy BLB 1 Chalcopyrite, Blebs, 1%												
		160.00 - 164.53 Py DIS 0.5 Pyrite, Disseminated, 0.5%												
		164.53 - 168.27 Py BLB 0.25 Pyrite, Blebs, 0.25%												
		164.53 - 168.27 Py DIS 0.75 Pyrite, Disseminated, 0.75%												
		168.27 - 169.50 Py DIS 0.05 Pyrite, Disseminated, 0.05%												
		169.50 - 170.50 Py BLB 0.25 Pyrite, Blebs, 0.25%												
		169.50 - 170.50 Py DIS 0.25 Pyrite, Disseminated, 0.25%												
		170.50 - 177.04 Py DIS 0.05 Pyrite, Disseminated, 0.05%												

Minor Interval:

172.37 172.68 Fresh Rock 8D *Granodiorite-Monzodiorite* 1

granodiorite with large qtz eyes. Pinkish grey colour. Mg texture.

Alteration Min:	Type/Style/Intensity	Comment
172.37 - 172.68	CL IS 1	Chloritization, Interstitial, Very weak
172.37 - 172.68	CB MTV 3	Carbonatization, Marginal to veins, M
172.37 - 172.68	SI PV 3	Silicification, Pervasive, Moderate

Mineralization Min:	Type/Style/%Mineral	Comment
172.37 - 172.68	Py DIS 0	Pyrite, Disseminated, 0%

Texture Min:	Type	Comment
172.37 - 172.68	MG	Medium Grained(1-5mm)

177.04 179.28 **Fresh Rock** **14B** ***Fine-grained Diabase dykes*** 1 1 BLK

fine grained black aphanitic diabase. Fractured in the middle but sharp upper and lower contacts. Pervasive strong magnetism.

Alteration Maj:	Type/Style/Intensity	Comment
177.04 - 179.28	CB CLTS 1	Carbonatization, Clots, Very weak

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
179.28	192.49	**Fresh Rock** **8D** ***Granodiorite-Monzodiorite***	1	1	GR	283064	180.00	181.00	1.00	0	-	0.01	-	-
						283065	185.00	185.95	0.95	0	-	0.01	-	-

Greenish granodiorite. Alteration consists of pervasive interstitial chl, and patchy carb along feldspar grains near the start of the unit. There are several carbonate and qtz carbonate veinlets throughout, and around some of these there are chloritic patches. There is one larger qtz vein in the second meter of the unit. Several fractures and veins have hematite alteration halos around them. Moving further downcore towards 190 m the rock becomes progressively less altered with the exception of the alt halos.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
179.28 - 181.00	SR IS 1	Sericitization, Interstitial, Very weak
179.28 - 181.00	CL CLTS 4	Chloritization, Clots, Strong
179.28 - 181.00	CL IS 1	Chloritization, Interstitial, Very weak
179.28 - 181.00	SI MTV 2	Silicification, Marginal to veins, Weak
181.00 - 185.43	HM MTV 1	Hematization, Marginal to veins, Very weak
181.00 - 185.43	LX SPT 1	Leucoxene, Spotty/Patchy, Very weak
181.00 - 185.43	EP SPT 1	Epidotization, Spotty/Patchy, Very weak
181.00 - 185.43	CB AFG 2	Carbonatization, Alteration of feldspar grains, Weak
185.43 - 192.25	HM MTV 2	Hematization, Marginal to veins, Weak
185.43 - 192.25	CL IS 2	Chloritization, Interstitial, Weak
185.43 - 192.25	SR SPT 2	Sericitization, Spotty/Patchy, Weak
185.43 - 192.25	CB FRC 3	Carbonatization, Along Fractures, Moderate
192.25 - 192.49	CB DISS 2	Carbonatization, Disseminated, Weak
192.25 - 192.49	CL PV 2	Chloritization, Pervasive, Weak

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
179.28 - 192.49	Py DIS 0.05	Pyrite, Disseminated, 0.05%

Hole Number **BEN16-09A** Project: **BENNEWEIS** Project Number: **240**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Texture Maj: ***Type*** ***Comment***												
		179.28 - 192.49 MG Medium Grained(1-5mm)												
192.49	193.45	**Fresh Rock** **QV** ***Quartz Vein***	1	1	WH	283066	192.38	193.45	1.07	0	-	0.01	-	-
		white bull quartz vein with minor chl tourmaline fractures. There is carbonate on the edges.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		192.49 - 193.45 CB MTV 3 Carbonatization, Marginal to veins, Moderate												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		192.49 - 193.45 Py DIS 0.05 Pyrite, Disseminated, 0.05%												
		Texture Maj: ***Type*** ***Comment***												
		192.49 - 193.45 FG Fine Grained (<1mm)												
193.45	201.96	**Fresh Rock** **8D** ***Granodiorite-Monzodiorite***	1	1	GR	283067	194.22	195.20	0.98	0	-	0.01	-	-
						283068	196.00	197.00	1.00	0	-	0.01	-	-
		granodiorite with chl alt interstitially, and some patches of chl alt where it is more pervasive. There is carbonate alt along fractures and disseminated in some areas. There is some minor sericite along some fractures. Midway through the unit there is some leucoxene right before a fine-grained section where chl alt is pervasive and some carb alt along veinlets and fractures. Tonalite minor from 201.07 to 261.32.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		193.45 - 193.80 CB FP 2 Carbonatization, Along Foliation Planes, Weak												
		193.45 - 193.80 CL PV 2 Chloritization, Pervasive, Weak												
		193.80 - 198.80 CL SPT 1 Chloritization, Spotty/Patchy, Very weak												
		193.80 - 198.80 CB MTV 2 Carbonatization, Marginal to veins, Weak												
		193.80 - 198.80 CL IS 2 Chloritization, Interstitial, Weak												

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From (m)	To (m)		Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		193.80 - 198.80	SR SPT 2	Sericitization, Spotty/Patchy, Weak											
		198.80 - 199.08	CB FRC 1	Carbonatization, Along Fractures, Very weak											
		198.80 - 199.08	CL PV 2	Chloritization, Pervasive, Weak											
		198.80 - 199.08	LX DISS 1	Leucoxene, Disseminated, Very weak											
		199.08 - 199.78	CB FRC 1	Carbonatization, Along Fractures, Very weak											
		199.08 - 199.78	SR IS 1	Sericitization, Interstitial, Very weak											
		199.08 - 199.78	CB IS 1	Carbonatization, Interstitial, Very weak											
		199.08 - 199.78	CL IS 2	Chloritization, Interstitial, Weak											
		199.78 - 201.96	CB FRC 2	Carbonatization, Along Fractures, Weak											
		199.78 - 201.96	CL PV 2	Chloritization, Pervasive, Weak											
		199.78 - 201.96	LX DISS 1	Leucoxene, Disseminated, Very weak											
		Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***											
		193.45 - 195.00	Py DIS 1.5	Pyrite, Disseminated, 1.5%											
		195.00 - 197.90	Py BLB 1	Pyrite, Blebs, 1%											
		197.90 - 201.96	Py DIS 0.5	Pyrite, Disseminated, 0.5%											
		Texture Maj:	***Type***	***Comment***											
		193.45 - 201.96	MG	Medium Grained(1-5mm)											
Minor Interval:															
201.07	201.32	Fresh Rock	8D	*Granodiorite-Monzodiorite*		1									
		silicified granodiorite. Fractured with sericite and some carb alt.													
		Alteration Min:	***Type/Style/Intensity***	***Comment***											
		201.07 - 201.32	CB SPT 2	Carbonatization, Spotty/Patchy, Wea											
		201.07 - 201.32	SR FRC 1	Sericitization, Along Fractures, Very											
		201.07 - 201.32	SI PV 4	Silicification, Pervasive, Strong											
		Mineralization Min:	***Type/Style/%Mineral***	***Comment***											

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
201.96	203.68	**Fresh Rock** **8E** ***Quartz Diorite-Diorite***	1	1	LGR									

quartz diorite with a silicified zone surrounding an irregular qtz vein at the start of the unit. This silicified zone has some weak hematite alteration around it as well. Following the silicified zone is a small area of pervasive chl alt. the rest of the diorite is fairly fresh, with interstitial chl alt and fracture controlled sericite alt. there are several large blue qtz eyes along the unit.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
202.00 - 202.21	CL IS 1	Chloritization, Interstitial, Very weak
202.00 - 202.21	CL SPT 2	Chloritization, Spotty/Patchy, Weak
202.00 - 202.21	HM MTV 1	Hematization, Marginal to veins, Very weak
202.00 - 202.21	SI MTV 2	Silicification, Marginal to veins, Weak
202.21 - 203.68	EP SPT 1	Epidotization, Spotty/Patchy, Very weak
202.21 - 203.68	SR FRC 1	Sericitization, Along Fractures, Very weak
202.21 - 203.68	CL IS 2	Chloritization, Interstitial, Weak

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
201.96 - 203.68	Py DIS 0.5	Pyrite, Disseminated, 0.5%

Texture Maj:	***Type***	***Comment***
201.96 - 203.68	MG	Medium Grained(1-5mm)

203.68	205.07	**Fresh Rock** **8D** ***Granodiorite-Monzodiorite***	1	1	GR									

fine grained granodiorite similar to the previous gabbro unit. Perv chl alt, and someirregular qtz diorite/granodiorite fragments throughout. Some relic texture seen through the chlorite alteration.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
203.68 - 205.07	CB MTV 1	Carbonatization, Marginal to veins, Very weak

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		203.68 - 205.07 CL PV 3 Chloritization, Pervasive, Moderate												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		203.68 - 205.07 Py DIS 0.05 Pyrite, Disseminated, 0.05%												
		Texture Maj: ***Type*** ***Comment***												
		203.68 - 205.07 FG Fine Grained (<1mm)												
205.07	208.07	**Fresh Rock** **8E** ***Quartz Diorite-Diorite***	1	1	GG	283069	205.33	205.87	0.54	0	-	0.01	-	-
		quartz diorite with similar but stronger alteration. The unit has a greyish green colour, with the same interstitial chl alt through the unit, but stronger carbonate and sericite interstitially throughout the unit giving a cloudy colouring obscuring the primary texture. From 205.3 to 205.6 thers is a zone of stronger chl alt around a qtz carb vein.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		205.07 - 205.30 SR IS 2 Sericitization, Interstitial, Weak												
		205.07 - 205.30 CB IS 1 Carbonatization, Interstitial, Very weak												
		205.07 - 205.30 CL IS 1 Chloritization, Interstitial, Very weak												
		205.30 - 205.60 CB FP 2 Carbonatization, Along Foliation Planes, Weak												
		205.30 - 205.60 CL PV 4 Chloritization, Pervasive, Strong												
		205.60 - 208.07 CB IS 1 Carbonatization, Interstitial, Very weak												
		205.60 - 208.07 SR MTV 2 Sericitization, Marginal to veins, Weak												
		205.60 - 208.07 SR IS 2 Sericitization, Interstitial, Weak												
		205.60 - 208.07 CL IS 1 Chloritization, Interstitial, Very weak												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		205.07 - 208.07 Py DIS 0.05 Pyrite, Disseminated, 0.05%												
		Texture Maj: ***Type*** ***Comment***												
		205.07 - 208.07 MG Medium Grained(1-5mm)												

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
		Vein Maj. : ***Style/%vein/CoreA/%min/min*** ***Comment***			
		205.07 - 206.00 STWV 0 100 QV Quartz Vein, 100%			
208.07	215.32	**Fresh Rock** **7C** ***Gabbro***	1	1	DGR

fine grained gabbro with pervasive chl alt and from 211.49m downwards there is a large ammount of carbonate alt along blebs and fractures. There are several zones of high magnetism from 212.9 to the end of the unit. These areas have a lot of carbonate alteration as well. There are some small zones of py near some of the magnetism zones. The unit has a medium green colour at the start of the unit, getting darker to almost black green in the middle of the unit, and slightly more medium green around 214.5 to end of unit.
Minor granodiorite unit at 209.42 to 209.83m
second minor granodiorite/qtz diorite unit at 210.8 to 211.49

Alteration Maj:	***Type/Style/Intensity***	***Comment***
208.07 - 209.42	CL PV 2	Chloritization, Pervasive, Weak
209.42 - 212.90	CB FRC 3	Carbonatization, Along Fractures, Moderate
209.42 - 212.90	CB FP 2	Carbonatization, Along Foliation Planes, Weak
209.42 - 212.90	CL PV 1	Chloritization, Pervasive, Very weak
212.90 - 215.32	MAG BNDS 3	Magnetite, Bands/Banded, Moderate
212.90 - 215.32	CB FRC 2	Carbonatization, Along Fractures, Weak
212.90 - 215.32	CB FP 3	Carbonatization, Along Foliation Planes, Moderate
212.90 - 215.32	CL PV 1	Chloritization, Pervasive, Very weak

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
208.07 - 209.98	Py CLTS 1	Pyrite, Clots, 1%
209.98 - 212.91	Py DIS 1	Pyrite, Disseminated, 1%
212.91 - 215.32	Py DIS 0.5	Pyrite, Disseminated, 0.5%
212.91 - 215.32	Py BNDS 1.5	Pyrite, Bands, 1.5%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
283070	209.83	210.80	0.97	0	-	0.01	-	-
283071	210.80	211.49	0.69	0	-	0.01	-	-
283073	211.49	212.00	0.51	0	-	0.01	-	-
283074	212.90	214.00	1.10	0	-	0.01	-	-
283075	214.00	215.00	1.00	0	-	0.01	-	-

Minor Interval:

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
209.42	209.83	8D *Granodiorite-Monzodiorite*												

silicified granodiorite zone with chl and tourmaline filled fractures. Carb blebs around the qtz vein in the unit. Unit meets a 20 cm qtz vein at the end of the unit.

Alteration Min:	Type/Style/Intensity	Comment
209.42 - 209.83	SR FRC 1	Sericitization, Along Fractures, Very
209.42 - 209.83	CB MTV 3	Carbonatization, Marginal to veins, M
209.42 - 209.83	SI PV 3	Silicification, Pervasive, Moderate

Mineralization Min:	Type/Style/%Mineral	Comment
209.42 - 209.83	Py DIS 0.05	Pyrite, Disseminated, 0.05%

Minor Interval:

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
210.80	211.49	8D *Granodiorite-Monzodiorite*												

slightly silicified more heavily chloritized granodiorite/qtz diorite unit with interstitial chl and sericte, and weaker carb alt also interstitial. Some zones are more heavily chloritized.

Alteration Min:	Type/Style/Intensity	Comment
210.80 - 211.49	SR IS 2	Sericitization, Interstitial, Weak
210.80 - 211.49	CL SPT 3	Chloritization, Spotty/Patchy, Modera
210.80 - 211.49	CL IS 2	Chloritization, Interstitial, Weak
210.80 - 211.49	SI SPT 1	Silicification, Spotty/Patchy, Very wea

Mineralization Min:	Type/Style/%Mineral	Comment
210.80 - 211.49	Py DIS 0.05	Pyrite, Disseminated, 0.05%

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
215.32	230.38	**Fresh Rock** **MINZN** ***Mineralized zone***	1	1	GR

mineralized zone of gabbro. Dark green to medium green colour, mostly fg at the start, with some more mg to cg sections downcore. The alteration consists mostly of chlorite and carbonate, with patchy sericite and epidote. From ~220.5 to 224.4 there is patchy magnetite. The enitre unit has a significant ammount of pyrite throughout.

Minor unit of granodiorite at 224.30 to 225.65
and another minor unit of granodiorite at 226.1-226.65m

Alteration Maj:	***Type/Style/Intensity***	***Comment***
215.32 - 220.38	EP SPT 2	Epidotization, Spotty/Patchy, Weak
215.32 - 220.38	CB FP 3	Carbonatization, Along Foliation Planes, Moderate
215.32 - 220.38	CL SPT 3	Chloritization, Spotty/Patchy, Moderate
215.32 - 220.38	CL PV 2	Chloritization, Pervasive, Weak
220.38 - 224.37	EP SPT 2	Epidotization, Spotty/Patchy, Weak
220.38 - 224.37	CB FP 3	Carbonatization, Along Foliation Planes, Moderate
220.38 - 224.37	CL SPT 3	Chloritization, Spotty/Patchy, Moderate
220.38 - 224.37	CL PV 2	Chloritization, Pervasive, Weak
224.37 - 230.38	CB FRC 3	Carbonatization, Along Fractures, Moderate
224.37 - 230.38	CL PV 2	Chloritization, Pervasive, Weak
224.37 - 230.38	HM FRG 2	Hematization, Fragments, Weak
224.37 - 230.38	CL SPT 3	Chloritization, Spotty/Patchy, Moderate

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
215.32 - 217.40	Py BNDS 3	Pyrite, Bands, 3%
215.32 - 217.40	Py DIS 2	Pyrite, Disseminated, 2%
217.40 - 219.13	Py DIS 1.5	Pyrite, Disseminated, 1.5%
219.13 - 221.40	Py DIS 1	Pyrite, Disseminated, 1%
219.13 - 221.40	Py BNDS 3	Pyrite, Bands, 3%
221.40 - 226.65	Py DIS 1.5	Pyrite, Disseminated, 1.5%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
283076	215.32	216.20	0.88	0	-	0.05	-	-
283077	216.20	217.00	0.80	0	-	0.01	-	-
283078	217.00	218.00	1.00	0	-	0.01	-	-
283079	218.00	219.36	1.36	0	-	0.01	-	-
283080	219.36	220.00	0.64	0	-	0.02	-	-
283081	220.00	221.00	1.00	0	-	0.01	-	-
283082	221.00	222.00	1.00	0	-	0.01	-	-
283083	222.00	223.00	1.00	0	-	0.01	-	-
283085	223.00	224.30	1.30	0	-	0.01	-	-
283086	226.65	227.50	0.85	0	-	0.01	-	-
283087	227.50	228.00	0.50	0	-	0.01	-	-
283088	228.00	229.00	1.00	0	-	0.01	-	-
283089	229.00	230.38	1.38	0	-	0.01	-	-

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		226.65 - 230.38 Py BLB 0.5 Pyrite, Blebs, 0.5%												
		226.65 - 230.38 Py DIS 2.5 Pyrite, Disseminated, 2.5%												

Texture Maj:	Type	Comment
215.32 - 230.38	FG	Fine Grained (<1mm)

Vein Maj. :	Style/%vein/CoreA/%min/min			Comment
221.00 - 230.38	VN 10	40	QCV	Quartz-Calcite Vein, 40%
221.00 - 230.38	VN 10	20	QV	Quartz Vein, 20%
221.00 - 230.38	VN 10	40	CBV	Carbonate Vein, 40%

Minor Interval:

224.30 225.65 Fresh Rock 8D *Granodiorite-Monzodiorite* 1

silicified granodiorite with pervasive hem alt at start along with silicification which washes out the core. Down unit it becomes less altered and the original texture can be seen. Possibly a porphyry unit near the end.

Possible gabbro unit within, ~33cm long, but unsure if just alteration.

Alteration Min:	Type/Style/Intensity	Comment
224.30 - 225.17	CL FRC 1	Chloritization, Along Fractures, Very
224.30 - 225.17	SI PV 2	Silicification, Pervasive, Weak
224.30 - 225.17	HM PV 1	Hematization, Pervasive, Very weak
225.17 - 225.48	SR SPT 1	
225.17 - 225.48	CL PV 2	Chloritization, Pervasive, Weak
225.48 - 225.65	CL FRC 1	Chloritization, Along Fractures, Very
225.48 - 225.65	HM SPT 1	Hematization, Spotty/Patchy, Very w

Mineralization Min:	Type/Style/%Mineral	Comment
224.30 - 225.65	Py 0	Pyrite, 0%

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
Minor Interval:														
226.10	226.65	Fresh Rock 8D *Granodiorite-Monzodiorite* unit as the above minor description		1										
		Alteration Min: ***Type/Style/Intensity*** ***Comment***												
		226.10 - 226.65 SR MTV 3 Sericitization, Marginal to veins, Mod												
		226.10 - 226.65 CL FRC 1 Chloritization, Along Fractures, Very												
		226.10 - 226.65 SI SPT 1 Silicification, Spotty/Patchy, Very wea												
		226.10 - 226.65 HM PV 1 Hematization, Pervasive, Very weak												
		Mineralization Min: ***Type/Style/%Mineral*** ***Comment***												
		226.10 - 226.65 Py 0 Pyrite, 0%												
230.38	242.00	**Fresh Rock 4A *Unsubdivided - Felsic Metavolcanics***	1	1	GY	283090	230.38	232.00	1.62	0	-	0.01	-	-
		Heavily bleached zone, not sure of rock type. Possibly a felsic composition, but silicification and sericite may be obscuring a gabbroic texture, as there is no sharp contact with the above gabbro unit, and further down hole, there are more minor units of qtz diorite similar to what was seen uphole within the gabbro units. Minor chl alt in fractures. There is sericite and silicification throughout the unit. There is heavy py diss throughout the unit, and some areas with fractures filled and surrounded by pyrite.				283091	232.00	233.00	1.00	0	-	0.01	-	-
						283092	233.00	234.00	1.00	0	-	0.01	-	-
						283093	234.00	235.00	1.00	0	-	0.01	-	-
						283094	235.00	236.00	1.00	0	-	0.01	-	-
						283095	236.00	237.00	1.00	0	-	0.01	-	-
						283097	237.00	237.80	0.80	0	-	0.01	-	-
						283098	237.80	239.00	1.20	0	-	0.01	-	-
						283099	239.00	240.00	1.00	0	-	0.01	-	-
						283100	240.00	241.00	1.00	0	-	0.01	-	-
						283101	241.00	242.00	1.00	0	-	0.01	-	-
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		230.38 - 238.10 CL FRC 1 Chloritization, Along Fractures, Very weak												
		230.38 - 238.10 SR PV 2 Sericitization, Pervasive, Weak												
		230.38 - 238.10 SI PV 2 Silicification, Pervasive, Weak												
		238.10 - 242.00 CB MTV 2 Carbonatization, Marginal to veins, Weak												
		238.10 - 242.00 CL BNDS 2 Chloritization, Bands/Banded, Weak												
		238.10 - 242.00 SR PV 2 Sericitization, Pervasive, Weak												
		238.10 - 242.00 SI PV 2 Silicification, Pervasive, Weak												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		230.38 - 233.00 Py DIS 1.5 Pyrite, Disseminated, 1.5%												
		233.00 - 239.00 Py FAC 3 Pyrite, Fracture-controlled, 3%												
		233.00 - 239.00 Py DIS 4 Pyrite, Disseminated, 4%												

From (m)	To (m)		Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		239.00 - 242.00	Py FAC 1.5			Pyrite, Fracture-controlled, 1.5%									
		239.00 - 242.00	Py DIS 2			Pyrite, Disseminated, 2%									
		Texture Maj:	***Type***			***Comment***									
		230.38 - 242.00	NET			Net Textured									
		230.38 - 242.00	FG			Fine Grained (<1mm)									
		Vein Maj. :	***Style/%vein/CoreA/%min/min***			***Comment***									
		230.38 - 238.00	VN 1 100 CBV			Carbonate Vein, 100%									
		238.00 - 242.00	VN 5 40 10 QV			Quartz Vein, 10%									
		238.00 - 242.00	VN 5 40 90 CBV			Carbonate Vein, 90%, 40° CA									
242.00	307.15	**Fresh Rock**	**4A** ***Unsubdivided - Felsic Metavolcanics***	1	1	GY	283102	242.00	243.44	1.44	0	-	0.01	-	-
		moderately bleached zone at start, less so farther down unikt. Unit very similar to above, not sure of rock type. Alteration is silicification and sericite alt, with occasional chl on fractures and carb in blebs and fractures. The chl and carb are very spotty, although there are possible chl which has been overprinted by the silicification, giving a darker grey colour to the rock. There is scattered py along fractures and as blebs or clots, however it is not nearly as prevalent as the above unit, hence the separation. There are sections with relatively regular dark lines surrounding lighter sections, which look as if they could be relic bedding if this was an ash fall, however it may just be chl healed fractures as well. Several zones of intense pyritization, mostly along fractures but also disseminated around them. There is scattered pyrrhotite in the lower part of the unit, giving very patchy weak magnetism. Minor unit of qtz diorite at 257.72 to 258.74 second minor of qtz diorite at 261.2 to 261.4 minor gabbro/mafic dyke at 271.86 to 272.70 granodiorite dykes at 288.99 to 290.36, 294.3 to 294.64, 294.9 to 295.05, 295.17 to 295.36, 295.43 to 295.48, 299.8 to 299.91, 303.3 to 303.54, 306.7 to 307.15.														
		Alteration Maj:	***Type/Style/Intensity***			***Comment***									
		242.00 - 267.93	CL FRC 2			Chloritization, Along Fractures, Weak									
		242.00 - 267.93	SR SPT 1			Sericitization, Spotty/Patchy, Very weak, weak to moderate down unit.									
							283103	243.44	244.40	0.96	0	-	0.01	-	-
							283104	244.80	246.00	1.20	0	-	0.01	-	-
							283105	246.00	247.00	1.00	0	-	0.01	-	-
							283106	247.00	247.87	0.87	0	-	0.01	-	-
							283107	247.87	249.20	1.33	0	-	0.01	-	-
							283108	250.66	252.00	1.34	0	-	0.01	-	-
							283109	252.50	254.00	1.50	0	-	0.01	-	-
							283110	257.00	257.72	0.72	0	-	0.01	-	-
							283111	257.72	258.74	1.02	0	-	0.01	-	-
							283113	258.74	260.00	1.26	0	-	0.01	-	-
							283114	260.00	261.40	1.40	0	-	0.01	-	-
							283115	261.40	262.10	0.70	0	-	0.01	-	-
							283116	262.10	263.00	0.90	0	-	0.01	-	-
							283117	263.00	264.50	1.50	0	-	0.01	-	-
							283118	264.50	266.00	1.50	0	-	0.01	-	-

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From (m)	To (m)	Lithology	Weathering Oxidation Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
	242.00 - 267.93	SI PV 1	Silicification, Pervasive, Very weak, stronger at start of unit, falling off farther down core.	283119	266.00	267.36	1.36	0	-	0.01	-	-
				283120	267.36	268.20	0.84	0	-	0.01	-	-
	242.00 - 267.93	CB MTV 1	Carbonatization, Marginal to veins, Very weak	283121	271.86	272.70	0.84	0	-	0.01	-	-
	267.93 - 272.70	CL PV 2	Chloritization, Pervasive, Weak	283122	275.50	276.50	1.00	0	-	0.01	-	-
	267.93 - 272.70	SR SPT 1	Sericitization, Spotty/Patchy, Very weak	283123	276.50	278.00	1.50	0	-	0.01	-	-
	267.93 - 272.70	SI MTV 1	Silicification, Marginal to veins, Very weak	283125	278.00	279.16	1.16	0	-	0.01	-	-
	272.70 - 279.16	CL PV 2	Chloritization, Pervasive, Weak	283126	279.16	280.45	1.29	0	-	0.01	-	-
	272.70 - 279.16	SR PV 2	Sericitization, Pervasive, Weak	283127	280.45	281.54	1.09	0	-	0.01	-	-
	279.16 - 290.71	CL PV 2	Chloritization, Pervasive, Weak	283128	281.54	282.43	0.89	0	-	0.01	-	-
	279.16 - 290.71	SI SPT 1	Silicification, Spotty/Patchy, Very weak	283129	282.43	284.00	1.57	0	-	0.01	-	-
	279.16 - 290.71	SR PV 3	Sericitization, Pervasive, Moderate	283130	284.00	285.06	1.06	0	-	0.01	-	-
	279.16 - 290.71	CL SPT 3	Chloritization, Spotty/Patchy, Moderate	283131	285.06	286.00	0.94	0	-	0.01	-	-
	290.71 - 294.30	CL PV 3	Chloritization, Pervasive, Moderate, variable down segment, more intense chl when less sericite.	283132	288.00	288.99	0.99	0	-	0.01	-	-
				283133	288.99	290.36	1.37	0	-	0.01	-	-
	290.71 - 294.30	SR PV 1	Sericitization, Pervasive, Very weak	283134	290.36	291.08	0.72	0	-	0.01	-	-
	290.71 - 294.30	CB SPT 1	Carbonatization, Spotty/Patchy, Very weak	283135	294.00	294.81	0.81	0	-	0.01	-	-
	294.30 - 297.15	CL PV 2	Chloritization, Pervasive, Weak	283137	294.81	296.00	1.19	0	-	0.01	-	-
	294.30 - 297.15	SR PV 2	Sericitization, Pervasive, Weak	283138	297.50	299.00	1.50	0	-	0.01	-	-
	297.15 - 303.54	SI SPT 1	Silicification, Spotty/Patchy, Very weak	283139	300.00	301.07	1.07	0	-	0.01	-	-
	297.15 - 303.54	CB MTV 3	Carbonatization, Marginal to veins, Moderate	283140	301.07	302.00	0.93	0	-	0.01	-	-
	297.15 - 303.54	CL PV 2	Chloritization, Pervasive, Weak	283141	302.00	303.30	1.30	0	-	0.01	-	-
	297.15 - 303.54	SR SPT 1	Sericitization, Spotty/Patchy, Very weak	283142	303.30	303.92	0.62	0	-	0.01	-	-
	303.54 - 303.87	CB FRC 2	Carbonatization, Along Fractures, Weak	283143	303.92	305.00	1.08	0	-	0.01	-	-
	303.54 - 303.87	CL PV 3	Chloritization, Pervasive, Moderate	283144	305.00	306.19	1.19	0	-	0.01	-	-
				283145	306.19	306.70	0.51	0	-	0.01	-	-
				283146	306.70	307.15	0.45	0	-	0.01	-	-

Hole Number **BEN16-09A** Project: **BENNEWEIS** Project Number: **240**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
307.15	310.62	**Fresh Rock** **MINZN** ***Pyritic Gabbro***	1	1	GG

Pyritic Gabbro - grayish green to light green color, mafic composition with vfg to fg amp-fd with weak local carbonate (calcite), increased biotite/muscovite alteration associated with disseminated and fracture-fill pyrite from 307.15 to 309.0, eEquigranular 'salt n pepper shake' texture with amphibole and feldspar, non-foliated with pyritic fractures 45 from C.A, < 1% qcs

308.75 to 308.79 - Silicified-Carbonate Altered Granodiorite Dyklet (Feldspar Porphyry) - bleached white, strong sil and wk cb, relict porphyritic texture, < 1% py, sharp contact 45 to 47 from C.A.

Mineralization - occasional to finely disseminated and fracture-fill pyrite ranging < 1% to locally 10% with increased pyrite from 307.75 to 309 with 5% to 10% fracture-fill>disseminated pyrite

Contact - gradational and irregular fracturing with amphibole-calcite fractures

Alteration Maj:	***Type/Style/Intensity***	***Comment***
307.15 - 310.62	SR FRC 1	Sericitization, Along Fractures, Very weak
307.15 - 310.62	CB FRC 2	Carbonatization, Along Fractures, Weak
307.15 - 310.62	CL PV 3	Chloritization, Pervasive, Moderate

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
307.15 - 308.00	Po DIS 0.05	Pyrrhotite, Disseminated, 0.05%
307.15 - 308.00	Py FAC 1	Pyrite, Fracture-controlled, 1%
307.15 - 308.00	Au DIS 0.00005	Native Gold, Disseminated, 0.00005%possible, one grain
307.15 - 308.00	Py DIS 4	Pyrite, Disseminated, 4%
308.00 - 308.43	Po DIS 0.05	Pyrrhotite, Disseminated, 0.05%
308.00 - 308.43	Py FAC 5	Pyrite, Fracture-controlled, 5%
308.00 - 308.43	Py DIS 5	Pyrite, Disseminated, 5%
308.43 - 310.62	Po DIS 0.05	Pyrrhotite, Disseminated, 0.05%
308.43 - 310.62	Py FAC 2	Pyrite, Fracture-controlled, 2%
308.43 - 310.62	Py DIS 1	Pyrite, Disseminated, 1%

Texture Maj:	***Type***	***Comment***
307.15 - 310.62	ACC	Acicular

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
283147	307.15	307.75	0.60	0	-	0.01	-	-
283149	307.75	308.50	0.75	0	-	0.01	-	-
283150	308.50	309.00	0.50	0	-	0.01	-	-
283151	309.00	310.00	1.00	0	-	0.01	-	-
283152	310.00	310.60	0.60	0	-	0.01	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
Minor Interval:														
308.75	308.79	Fresh Rock 8D *Granodiorite-Monzodiorite*		1										
		silicified granodiorite. Chlorite and sericite along fractures.												
		Alteration Min: ***Type/Style/Intensity*** ***Comment***												
		308.75 - 308.79 CL FRC 1 Chloritization, Along Fractures, Very												
		308.75 - 308.79 SR FRC 1 Sericitization, Along Fractures, Very												
		308.75 - 308.79 SI PV 3 Silicification, Pervasive, Moderate												
		Mineralization Min: ***Type/Style/%Mineral*** ***Comment***												
		308.75 - 308.79 Py DIS 0.5 Pyrite, Disseminated, 0.5%												
		Texture Min: ***Type*** ***Comment***												
		308.75 - 308.79 MG Medium Grained(1-5mm)												
310.62	317.11	**Fresh Rock 4F *Felsic Tuff***	1	1	GY	283153	315.60	316.10	0.50	0	-	0.01	-	-
		Felsic Tuff - gray to light greenish-gray color, felsic to (intermediate) composition being feldspathic and weakly chloritic with increase in chl in matrix from 316.1 to 317.1, no to weak carbonate, vfg massive fragmental texture with weak foliation from 40 to 46 from C.A., occasional to widely scattered qcs < 1%				283154	316.10	316.60	0.50	0	-	0.01	-	-
						283155	316.60	317.10	0.50	0	-	0.01	-	-
		Mineralization - generally occasional py < 1% with increase in pyrite fracturing 2% to 3% assocaiated with increase in chlorite in matrix from 316.1 to 317.1												
		Contact - Sharp contact 15 from C.A.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		310.62 - 316.00 SR PV 3 Sericitization, Pervasive, Moderate												
		310.62 - 316.00 CL PV 2 Chloritization, Pervasive, Weak												
		316.00 - 317.11 SR PV 2 Sericitization, Pervasive, Weak												
		316.00 - 317.11 CB FRC 2 Carbonatization, Along Fractures, Weak												
		316.00 - 317.11 CL PV 3 Chloritization, Pervasive, Moderate												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		310.62 - 311.36 Po FAC 1 Pyrrhotite, Fracture-controlled, 1%												

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		310.62 - 311.36 Py FAC 1.5 Pyrite, Fracture-controlled, 1.5%												
		311.36 - 316.00 Py DIS 0.05 Pyrite, Disseminated, 0.05%												
		316.00 - 317.11 Po FAC 0.05 Pyrrhotite, Fracture-controlled, 0.05%												
		316.00 - 317.11 Py FAC 1.5 Pyrite, Fracture-controlled, 1.5%												
		316.00 - 317.11 Py DIS 0.5 Pyrite, Disseminated, 0.5%												
		Texture Maj: ***Type*** ***Comment***												
		310.62 - 317.11 FG Fine Grained (<1mm)												
Minor Interval:														
312.39	312.44	Fresh Rock 8D *Granodiorite-Monzodiorite* silicified granodiorite,		1										
		Alteration Min: ***Type/Style/Intensity*** ***Comment***												
		312.39 - 312.44 CL IS 1 Chloritization, Interstitial, Very weak												
		312.39 - 312.44 SR IS 1 Sericitization, Interstitial, Very weak												
		312.39 - 312.44 SI PV 4 Silicification, Pervasive, Strong												
		Mineralization Min: ***Type/Style/%Mineral*** ***Comment***												
		312.39 - 312.44 Py DIS 0 Pyrite, Disseminated, 0%												
317.11	319.62	**Fresh Rock** **QTBX** ***Quartz breccia***	1	1	WH	283156	317.10	317.80	0.70	0	-	0.01	-	-
		Quartz Breccia (Silicified & Fractured Granodiorite) - bleached white to smokey gray colors, felsic composition with moderate sil from 317.1 to 317.8relict porphyritic texture with mg to cg (up to 1 cm in size) 20% to 30% white albite phenocrysts in a sil matrix, <5% cg bluish quartz-eyes/flooding, increased strong pervasive sil from 317.8 to 319.6, as well as strongly fractured and brecciated texture, fractures seams are generally smokey gray with qtz-ser-chl forming as in-situ matrix about pre-existing sil wallrock and are 40 to 50 from C.A.; <1% to 10% qs with increased qs (10%) at upper interval from 317.1 to 317.8				283157	317.80	318.30	0.50	0	-	0.01	-	-
						283158	318.30	318.80	0.50	0	-	0.01	-	-
						283159	318.80	319.60	0.80	0	-	0.01	-	-
		Mineralization - varies < 1% to 5% py with gradual increase in pyrite from 318.3 to 319.6 with sulphides generally assocated with smokey grayfracture seams/in-situ matrix of qtz-ser-ch, local po-cpy-sp? (<0.5%)												
		Contact - sharp cross-cutting and irregular contact 31 from C.A; cross-cuts into lower interval as dyke-like feature												

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)

Alteration Maj:	Type/Style/Intensity	Comment
317.11 - 317.77	SR MTV 2	Sericitization, Marginal to veins, Weak
317.11 - 317.77	AK MTV 3	Ankerite, Marginal to veins, Moderate
317.11 - 317.77	CL IS 2	Chloritization, Interstitial, Weak
317.11 - 317.77	SI PV 2	Silicification, Pervasive, Weak
317.77 - 317.87	CL FRC 1	Chloritization, Along Fractures, Very weak
317.77 - 317.87	SI PV 3	Silicification, Pervasive, Moderate
317.87 - 319.62	CL SPT 3	Chloritization, Spotty/Patchy, Moderate
317.87 - 319.62	CL FRC 2	Chloritization, Along Fractures, Weak
317.87 - 319.62	SI PV 4	Silicification, Pervasive, Strong

Mineralization Maj. :	Type/Style/%Mineral	Comment
317.11 - 317.77	Py DIS 0.05	Pyrite, Disseminated, 0.05%
317.77 - 319.62	Po DIS 0.05	Pyrrhotite, Disseminated, 0.05%
317.77 - 319.62	Py DIS 0.5	Pyrite, Disseminated, 0.5%
317.77 - 319.62	Py FAC 1	Pyrite, Fracture-controlled, 1%

Texture Maj:	Type	Comment
317.11 - 317.77	CG	Coarse Grained (>5mm)
317.77 - 319.62	CX	Crystalline
317.77 - 319.62	FG	Fine Grained (<1mm)
317.77 - 319.62	AP	Aphanitic

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
319.62	343.73	**Fresh Rock** **4F** ***Chloritic Felsic Tuff***	1	1	GG

Felsic Tuff - light greenish-gray to gray colors, altered felsic composition with moderate chlorite and weak to moderate carbonate insipient alteration of matrix, gradational decrease in chloritic alteration from 330.5 to 343.75, locally strong sericitic-(epidote) alteration near local quartz veining and sil flooding in <5 to 8 cm wide structures from 329.5 to 330.5 and intermittent sil flooding/qs to 343.25; widely scattered qs up to 10 cm wide ranging < 1% to locally 10%, but averaging <1% to 2%, weakly to locally moderately foliated 30 to 60 from C.A. averaging 42.6 from C.A with strong shearing 55 to 60 from C.A. from 323.6 to 323.9.

323.9 to 324.15 - Silicified Granodiorite (fP) bleached white, strong pervasive sil with relict fd phenocrysts/porp texture, fract/bx, numerous chl fractures seams, <1% py, sharp lower contact 50 from C.A.

342.75 to 343.05 - Silicified Granodiorite/Feldspar Porphyry - bleached white and strong sil with relict vfg to fg crowded fd phenocrysts, relict porp texture, lower contact with 4 cm wide qs, 1% scattered vfg py-(aspy?) clots/splashes; sharp upper and lower contact 80 and 65 from C.A., respectively.

Mineralization - wide range of disseminated with fracture-fill pyrite varying < 1% to to local 5% to 20%, averaging 1% to 3% pyrite from 329.55 to 343.75, increase in pyrite (5% to 20% in sections with stronger sil flooding and qs and along shears/shear fractures, particularly from 333.7 to 342.4

Contact - sharp contact 60 from C.A.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
319.62 - 343.73	SI BNDS 4	Silicification, Bands/Banded, Locally Strong from 329.5 to 330.5
319.62 - 343.73	SR MTV 4	Sericitization, Marginal to veins, Locally Strong
319.62 - 343.73	CB MX 2	Carbonatization, Matrix, Weak to Moderate
319.62 - 343.73	CL MX 3	Chloritization, Matrix, Moderate

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
319.62 - 343.73	Py FAC 1	Pyrite, Fracture-controlled, <1% to 20% as above
319.62 - 343.73	Py DIS 1	Pyrite, Disseminated, variable < 1% to 20% disseminated with fracture-fill pyrite varying < 1% to to local 5% to 20%, averaging 1% to 3% pyrite from 329.55 to 343.75, increase in pyrite (5% to 20% in sections with stronger sil flooding and qs and along shears/shear fractures, particularly from 333.7 to 342.4

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
283161	319.60	320.00	0.40	0	-	0.01	-	-
283162	320.00	321.00	1.00	0	-	0.01	-	-
283163	321.00	322.00	1.00	0	-	0.01	-	-
283164	322.00	323.00	1.00	0	-	0.01	-	-
283165	323.00	323.60	0.60	0	-	0.01	-	-
283166	323.60	323.90	0.30	0	-	0.03	-	-
283167	323.90	324.15	0.25	0	-	0.02	-	-
283168	324.15	325.00	0.85	0	-	0.01	-	-
283169	329.00	329.55	0.55	0	-	0.01	-	-
283170	329.55	330.00	0.45	0	-	0.01	-	-
283171	330.00	330.50	0.50	0	-	0.01	-	-
283173	330.50	331.00	0.50	0	-	0.01	-	-
283174	331.00	332.00	1.00	0	-	0.01	-	-
283175	332.00	333.00	1.00	0	-	0.01	-	-
283176	333.00	334.00	1.00	0	-	0.01	-	-
283177	334.00	335.00	1.00	0	-	0.01	-	-
283178	335.00	335.80	0.80	0	-	0.01	-	-
283179	335.80	336.50	0.70	0	-	0.01	-	-
283180	336.50	337.50	1.00	0	-	0.01	-	-
283181	337.50	338.50	1.00	0	-	0.01	-	-
283182	338.50	339.30	0.80	0	-	0.01	-	-
283183	339.30	340.00	0.70	0	-	0.01	-	-
283185	340.00	341.00	1.00	0	-	0.01	-	-
283186	341.00	341.50	0.50	0	-	0.01	-	-
283187	341.50	342.00	0.50	0	-	0.01	-	-
283188	342.00	342.75	0.75	0	-	0.01	-	-
283189	342.75	343.05	0.30	0	-	0.01	-	-

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
343.73	356.15	**Fresh Rock** **8D** ***Porphyritic Granodiorite-Monzodiorite (***	1	1	GY

Porphyritic Granodiorite-Monzodiorite (Quartz-Feldspar Porphyry) - gray to light greenish gray colors, felsic to intermediate composition being feldsphyric with 30% 40% tightly packed mg to cg (<0.2 to 1.0 cm in size) white albite phenocrysts and 10% tom20% bluish mg to cg (0.2 to 0.4 cm in size) sub-rounded quartz-eyes, increase in shear insipient sericitic-(chloritic) alteration in the matrix about fd/qe phenocrysts from 348.4 to 356.15; local weak carbonate alteration associated with ser-chl alteration, local weak sil in matrix from 354.15 to 355.85, well developed porphyritic texture, increased shearing ranging from 54 to 70 from C.A associated with the ser-(chl-cb) alteration; generally < 1% qs with slight increase in qs (20% to 25)% from 353.5 to 355.15 with widely scattered 10 cm wide discrete quartz veining, range 15 to 43 from C.A., local sections vary 30% to 35% qs

Mineralization - occasional to widely scattered with minor fracture-filling po>py>cpy ranging from < 1% to local 2% to 5%....general increase in sulphides with increased matrix/sh controlled ser-(chl-cb) alteration; more consistent increase in py-po-(cpy)from 351.5 to 353.5

Contact - sharp irregular contact 77 from C.A.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
343.73 - 356.15	SI SPT 2	Silicification, Spotty/Patchy, Weak
343.73 - 356.15	SR MX 2	Sericitization, Matrix, Weak
343.73 - 356.15	CL MX 2	Chloritization, Matrix, Weak
343.73 - 356.15	CB MX 2	Carbonatization, Matrix, Weak associated with weak chl-ser

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
343.73 - 356.15	Cpy BLB 1	Chalcopyrite, Blebs, ocassional <0.5%
343.73 - 356.15	Po DIS 1	Pyrrhotite, Disseminated, as above
343.73 - 356.15	Py DIS 1	Pyrite, Disseminated, <1% to local 2% to 5% , minor fracture-filling

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
283190	343.05	343.75	0.70	0	-	0.01	-	-
283191	343.75	344.25	0.50	0	-	0.01	-	-
283192	344.25	345.00	0.75	0	-	0.01	-	-
283193	345.00	346.00	1.00	0	-	0.01	-	-
283194	346.00	347.00	1.00	0	-	0.01	-	-
283195	347.00	348.40	1.40	0	-	0.01	-	-
283197	348.40	349.30	0.90	0	-	0.01	-	-
283198	349.30	350.00	0.70	0	-	0.01	-	-
283199	350.00	350.80	0.80	0	-	0.01	-	-
283200	350.80	351.50	0.70	0	-	0.01	-	-
283201	351.50	352.10	0.60	0	-	0.01	-	-
283202	352.10	353.00	0.90	0	-	0.01	-	-
283203	353.00	353.50	0.50	0	-	0.01	-	-
283204	353.50	354.15	0.65	0	-	0.01	-	-
283205	354.15	354.60	0.45	0	-	0.01	-	-
283206	354.60	355.15	0.55	0	-	0.01	-	-
283207	355.15	356.15	1.00	0	-	0.01	-	-

Hole Number **BEN16-09A** Project: **BENNEWEIS** Project Number: **240**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
356.15	360.50	**Fresh Rock** **7C** ***Gabbro***	1	1	DGR	283209	356.15	357.00	0.85	0	-	0.01	-	-
						283210	357.00	358.00	1.00	0	-	0.01	-	-
						283211	358.00	359.00	1.00	0	-	0.01	-	-
						283212	359.00	360.00	1.00	0	-	0.01	-	-
						283213	360.00	360.50	0.50	0	-	0.01	-	-

Gabbro - green to dark green color, mafic composition with moderate to strong chlorite throughout the whole section and moderate to strong carbonate (calcite) from 356.15 to 359.0 with weak to 360.15, vfg and moderately sheared 15 to 25 from C.A. with numerous cs/qcs (up to 3 cm thick) ranging from 5% to 10% from 356.15 to 359.7 following shearing.

Mineralization - vfg scattered disseminated po and py ranging < 1% to 4% with increased sulphides (2% to 4%) from 356.15 to 359.0 associated with both strong chl-cb alteration and increased cs/qcs (5% to 10%), weakly magnetic unit

Contact - sharp/gradational contact

Alteration Maj:	***Type/Style/Intensity***	***Comment***
356.15 - 360.50	CB MX 3	Carbonatization, Matrix, Moderate to Strong between 356.15 to 359.0
356.15 - 360.50	CL MX 3	Chloritization, Matrix, Moderate to Strong

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
356.15 - 360.50	Py DIS 1	Pyrite, Disseminated, as above incuded
356.15 - 360.50	Po DIS 1	Pyrrhotite, Disseminated, <1% to 4%

360.50	362.45	**Fresh Rock** **8D** ***Silicified Porphyritic Granodiorite-Monz***	1	1	WH	283214	360.50	361.00	0.50	0	-	0.01	-	-
						283215	361.00	361.50	0.50	0	-	0.01	-	-
						283216	361.50	362.00	0.50	0	-	0.01	-	-
						283217	362.00	362.45	0.45	0	-	0.01	-	-

Silicified Porphyritic Granodiorite-Monzodiorite (QFP) - bleached white to grayish white color; altered felsic to intermediate composition with strong intense pervasive sil-(ab) flooding with relict fg to mg (<0.3 cm) albitic fd (15% to 20%) and deep blue coarser (<0.6 cm in size) quartz eyes (205 to 30%)…appears to be flooding the altered matrix, relict porphyritic texture, < 1% qs with numerous thin hairline sericite shear fractures, particularly towards the bottom interval, shear fractures vary 30 to 45 from C.A.

Mineralization - varying po-py-(cpy) sulphide ranging < 1% to 4% with increase in sulphides 1% to 4% at both upper (po>py) and lower(py>po)contacts, more recognizeable cpy at upper contact but still < 1%, increased sulphides are associated with both ser and chl hairline shear fractures, with numerous fractures at the lower interval/contact

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Contact - sharp contact 53 from C.A.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		360.50 - 362.45 AB MX 5 Albitization, Matrix, Intense												
		360.50 - 362.45 SI MX 5 Silicification, Matrix, Intense												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		360.50 - 362.45 Cpy BLB 1 Chalcopyrite, Blebs, 1%												
		360.50 - 362.45 Py FAC 1 Pyrite, Fracture-controlled, as above included, po>py												
		360.50 - 362.45 Po FAC 1 Pyrrhotite, Fracture-controlled, <1% to 4%												
362.45	381.70	**Fresh Rock** **7Cm** ***Melanocratic Gabbro***	1	1	GR	283218	362.45	363.10	0.65	0	-	0.01	-	-
		Melanocratic Gabbro xcut by Porphyritic Granodiorite (QFP) Dykes - green to dark green with light gray to grayish white bands, mafic composition with moderate chl-(ep) and variable weak to strong cb (calcite) with generally moderate to strong cb in matrix and fractures from 363.1 to 367.0 and from 369.3 to 369.7 in a strongly sheared section, weakly sheared 36 to 46 from C.A. with strong sh from 369.3 to 369.7 44 from C.A., scattered qcs/cs (up to 10 cm wide) with increased veining from 377.0 to 380.1 up to 10%.				283219	363.10	364.00	0.90	0	-	0.01	-	-
						283221	364.00	364.50	0.50	0	-	0.01	-	-
						283222	364.50	365.10	0.60	0	-	0.01	-	-
						283223	365.10	365.50	0.40	0	-	0.01	-	-
		Numerous porphyritic granodiorite (QFP/FP) dykes, accounting for 10% to 15%x% of the section with the more noteable ones from….				283224	365.50	366.00	0.50	0	-	0.04	-	-
						283225	366.00	367.00	1.00	0	-	0.01	-	-
		365.1 to 365.5 - Silicified Porphyritic Granodiorite (QFP) - bleached white color, strong pervasive and intense sil with relict fg to mg (< 0.2 cm) relict fd phemnocrysts, numerous ch-(cb) fractures, local po-(cpy) along core joint near upper contact, but overall < 1% po-cpy, sharp upper and lower contacts 35 and 40 from C.A., respectively.				283226	367.00	367.90	0.90	0	-	0.02	-	-
						283227	367.90	368.25	0.35	0	-	0.03	-	-
						283228	368.25	369.30	1.05	0	-	0.01	-	-
		369.8 to 369.95 - Silicified Cherty Zone - smokey grayish white color, strong sil cherty like with diffuse chl at upper and lower contact, 15% to 20% pyrite fracture-filling with < 1% cpy, sharp upper and lower contacts 39 and 60 from C.A., respectively				283229	369.30	369.70	0.40	0	-	0.01	-	-
						283230	369.70	370.00	0.30	0	-	0.02	-	-
						283231	370.00	371.00	1.00	0	-	0.01	-	-
		372.55 to 373.05 - Porphyritic Granodiorite (Feldspar Porphyry) - pinkish creamy white color, felsic composition with 20% to 30% vfg to mg (<0.2 to 0.3 cm) pinkish white fd in a vfg feldsphyric (kspar?) matrix, porphyritic texture, local chl fractures, 105 bluish qs with ep-chl, < 1% py, sharp upper and lower contacts 50 and 47 from C.A, respectively.				283233	371.00	372.00	1.00	0	-	0.01	-	-
						283234	372.00	372.55	0.55	0	-	0.01	-	-
						283235	372.55	373.05	0.50	0	-	0.01	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Other porphyritic granodiorite(QFP/FP) dykes vary from 2 cm to 20 cm as per from 371.2 to 371.4, 371.75 to 371.85, 374.2 to 374.4, at 375.45 (2 cm dyke), at 375.45 (5 cm dyke), 379.9 to 380.1, 380.6 to 380.8, and from 381.2 to 381.4				283236	373.05	374.00	0.95	0	-	0.01	-	-
						283237	376.50	377.80	1.30	0	-	0.01	-	-
		Mineralization - Variable sulphide with py-po-(cpy) ranging from < 1% to local sections 10%, sulphides occur as disseminations and fracture-filling, increase in sulphides from….												
		363.1 to 365.1 - 5%to 10% fracture-fill to disseminated py-po 365.5 to 366.0 - 5% to 10% disseminated py-(po) 366.0 to 367.0 - 2% to 3% disseminated py and po 367.9 to 368.25 - 5% to 10% disseminated py cubes 370.0 to 372.0 - 1% to 3% disseminated py>po												
		Contact - sharp contact 53 from C.A.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		362.45 - 381.70 EP MX 2 Epidotization, Matrix, Weak												
		362.45 - 381.70 CB MX 2 Carbonatization, Matrix, Weak, moderate to strong cb in matrix and fractures from 363.1 to 367.0 and from 369.3 to 369.7 in a strongly sheared section.												
		362.45 - 381.70 CL MX 3 Chloritization, Matrix, Moderate												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		363.10 - 381.70 Cpy BLB 1 Chalcopyrite, Blebs, <1%												
		363.10 - 381.70 Po DIS Pyrrhotite, Disseminated, % included as above												
		363.10 - 381.70 Py FAC 1 Pyrite, Fracture-controlled, <1% to local sections of 10%, as per log												
381.70	384.70	**Fresh Rock** **8D** ***Porphyritic Granodiorite-Monzodiorite (***		1	1 GG	283238	383.50	384.70	1.20	0	-	0.01	-	-
		Porphyritic Granodiorite-Monzodiorite (QFP) - greenish gray to greenish grayish white color, felsic composition with 25% to 35% mg to cg (<0.7 cm in size) white albitic feldspar phenocrysts and xenocrysts in a vfg qtz-fd matrix, up to 5% fg to mg (<0.2 cm in size) bluish quartz eyes; well developed												

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		porphyritic texture, scattered qs up to 10 cm 30 to 35 From C.A. Gabbro Raft from.... 382.7 to 383.15 - Gabbro - green color, mafic composition with moderate chl and strong cb, vfg to fg equigranular texture, massive with 2% to 3% thin cross-cutting qs, scattered py 1%, sharp upper and lower contacts 40 and 90 from C.A., respectively Mineralization - occasional py < 1% Contact - sharp contact 40 from C.A. (not well developed) ***Mineralization Maj. :*** ***Type/Style/%Mineral*** ***Comment*** 381.70 - 384.70 Py BLB 1 Pyrite, Blebs, <0.5%												
384.70	388.00	**Fresh Rock** **7Cm** ***Melanocratic Gabbro***	1	1	GR	283239	384.70	385.65	0.95	0	-	0.01	-	-
		Melanocratic Gabbro - green color, mafic composition with moderate chlorite and weak to moderate carbonate (calcite) , melanocratic with amp-chl>fd with vfg to fg equigranular and for the most part 'salt n pepper' texture and non to very faint weak foliation, scattered thin qs (2% to 3%) up to 3 cm wide and thin granodiorite dykes 1 to 5 cm wide with the most noteable from… 385.65 to 385.85 - Silicified Porphyritic Granodiorite (FP) - bleached white to grayish white color, altered felsic to intermediate in composition with strong sil altered matrix with 25 to 4% mg relict albite phenocrysts giving a relict sub-porphyritic texture, <1% py, sharp upper and lower contacts 49 to 52 from C.A. Mineralization - scattered < 1% to 4% vfg scattered py averaging 1% to 2%, increased py (2%) from 384.7 to 385.65 and increased py (2% to 4%) towards sheared contact from 387.8 to 388.0, pyrite mainly occurs as disseminations Contact - sharp sheared contact 40 from C.A. with gradational increase in pyrite(2% to 4%) towards contact ***Alteration Maj:*** ***Type/Style/Intensity*** ***Comment*** 384.70 - 388.00 CB MX 2 Carbonatization, Matrix, Weak to Moderate 384.70 - 388.00 CL MX 3 Chloritization, Matrix, Moderate				283240	385.65	385.85	0.20	0	-	0.01	-	-
						283241	385.85	386.70	0.85	0	-	0.01	-	-
						283242	386.70	387.70	1.00	0	-	0.01	-	-
						283243	387.70	388.00	0.30	0	-	0.01	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		384.70 - 388.00 Py DIS 1 Pyrite, Disseminated, 1% to 2%												
388.00	390.30	**Fresh Rock** **SH** ***Sheared and Pyritc Gabbro***	1	1	DGR	283245	388.00	388.50	0.50	0	-	0.01	-	-
		Sheared and Pyritic Gabbro - green to dark green color, altered mafic composition with moderate to strong chlorite and weak to locally strong white carbonate bands (10% to 20%) up to 2 cm wide, increase in cb seams/bands from 389.0 to 390,3, strongly sheared ranging from 40 to 48 from C.A., scattered cs/qcs < 5% with local 10% up to 3 cm wide parallel to strong shearing				283246	388.50	389.00	0.50	0	-	0.01	-	-
						283247	389.00	389.50	0.50	0	-	0.01	-	-
						283248	389.50	390.30	0.80	0	-	0.01	-	-
		Mineralization - vfg to fg disseminated and shear controlled pyrite varying 5% to locally 15%, averaging 5% to 10%, general increase in py in carbonate bands Contact - sharp sheared contact 35 from C.A.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		388.00 - 390.30 CB BNDS 2 Carbonatization, Bands/Banded, Weak to Locally Strong												
		388.00 - 390.30 CL SP 3 Chloritization, Along Shear Planes, Moderate to Strong												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		388.00 - 390.30 Py FOL 5 Pyrite, Along foliation, averages 5% to 10%...locally to 15%												
390.30	392.95	**Fresh Rock** **8F** ***Quartz Porphyry***	1	1	GY	283249	390.30	391.30	1.00	0	-	0.01	-	-
		Quartz Porphyry - moderate to dark gray, gray, and greensih gray, felsic to intermediate composition with gradual increasing ser along hairline shears from 391.3 to 392.95, 10% to 20% fg to mg (<0.30 cm in size) sub-rounded quartz-eyes ina vfg quartz-felspathic matrix..l…diffuse xtl margins, porphyritic texture, < 1% qs up to 1 cm				283250	391.30	392.30	1.00	0	-	0.01	-	-
						283251	392.30	392.95	0.65	0	-	0.01	-	-
		Mineralization - ocassional py < 1% with slight increase in scattered py towards lower contact, up to 1%												

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Contact - sharp sheared contact 35 from C.A.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		390.30 - 392.95 SR SP 4 Sericitization, Along Shear Planes, Locally Strong ser along hairline shears from 391.3 to 392.95												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		390.30 - 392.95 Py BLB 1 Pyrite, Blebs, <1% and up to 1%												
392.95	397.60	**Fresh Rock** **SH** ***Sheared and Pyritic Gabbro***	1	1	GR	283252	392.95	393.50	0.55	0	-	0.01	-	-
		Sheared and Pyritic Gabbro - green color, mafic composition with moderate and locally strong chlorite with moderate to strong carbonate (calcite), numerous (up to 20%) calcite seams/bands (up to 1 cm wide) associated with strongly sheared section from 392.95 to 394.0, moderately to strongly sheared 25 to 46 from C.A., scatterdd qcs/cs < 1% to 5% with local calcite-epidote veinlet from 396.5 to 396.8 with irregular sharp contacts 0 to 25 from C.A.				283253	393.50	394.00	0.50	0	-	0.01	-	-
						283254	394.00	394.50	0.50	0	-	0.01	-	-
						283255	394.50	395.00	0.50	0	-	0.01	-	-
						283257	395.00	395.50	0.50	0	-	0.01	-	-
		Mineralization - 3% to 10% vfg to fg disseminated pyrite (sh controlled) from 392.95 to 395.0, averaging 4% to 6% py, decrease in disseminated py (1% to 3%) from 395.0 to 397.6				283258	395.50	396.50	1.00	0	-	0.01	-	-
						283259	396.50	397.00	0.50	0	-	0.01	-	-
		Contact - sharp sheared contact 37 from C.A.				283260	397.00	397.60	0.60	0	-	0.01	-	-
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		392.95 - 397.60 CB SP 3 Carbonatization, Along Shear Planes, Moderate to Strong												
		392.95 - 397.60 CL SP 3 Chloritization, Along Shear Planes, Moderate to locally Strong												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		392.95 - 397.60 Py DIS 4 Pyrite, Disseminated, averages 4% to 6% varying 3% to 10%												

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
397.60	418.90	**Fresh Rock** **4F** ***Felsic Tuff-(Crystal Tuff)***	1	1	GY

Felsic Tuff-(Crystal Tuff) - light gray, gray, to light greenish gray colors, felsic composition with gradual increase in chlorite from 415 to 418.9, vfg matrix composed of quartz-feldspar with scattered vfg to fg qtz-fd xtls, overall a massive fragmental texture with possible xtl tuff from….

408.8 to 410.4 - Felsic Crystal Tuff - felsic composition with 15% to 25% fg to cg (<0.2 cm and up to <0.5 cm) bluish quartz-eyes>fd xtls in a vfg qtz-fd matrix, weakly sheared, sub-porphyritic texture, scattered py>po 1% to 2%, gradational upper and lower contacts

-weak sheared with moderate shearing at upper contact rangign 38 to 60 from C.A., averaging 44.8 from C.A., ocassional qs/qcs (<1%) up to 2 cm wide

Mineralization - ocasional vfg py-(po) < 0.5% with slight increase in sulphides with 1% to 2% py>po from 409.7 to 410.4, observed a sp fracture at 404.95 and 2 cm wide massive py band at 406.05.

Contact - sharp contact 60 from C.A.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
397.60 - 418.90	CL MX 2	Chloritization, Matrix, Weak & Moderate 415.0 to 418.9

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
397.60 - 418.90	Sph FAC 1	Sphalerite, Fracture-controlled, <0.5% local
397.60 - 418.90	Po BLB 1	Pyrrhotite, Blebs, <1%
397.60 - 418.90	Py DIS 1	Pyrite, Disseminated, <1% with 1% to 2% py>po from 409.7 to 410.4

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
283261	397.60	398.60	1.00	0	-	0.01	-	-
283262	404.40	404.90	0.50	0	-	0.01	-	-
283263	404.90	405.55	0.65	0	-	0.01	-	-
283264	405.55	406.10	0.55	0	-	0.01	-	-
283265	406.10	407.00	0.90	0	-	0.01	-	-
283266	407.00	408.00	1.00	0	-	0.01	-	-
283267	408.00	408.85	0.85	0	-	0.01	-	-
283269	408.85	409.70	0.85	0	-	0.01	-	-
283270	409.70	410.40	0.70	0	-	0.01	-	-
283271	410.40	410.90	0.50	0	-	0.01	-	-
283272	418.40	418.90	0.50	0	-	0.01	-	-

Hole Number **BEN16-09A** Project: **BENNEWEIS** Project Number: **240**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
418.90	421.90	**4F** ***Chloritic Felsic Tuff***				283273	418.90	419.60	0.70	0	-	0.01	-	-
						283274	419.60	420.30	0.70	0	-	0.01	-	-
						283275	420.30	421.00	0.70	0	-	0.01	-	-
						283276	421.00	421.90	0.90	0	-	0.01	-	-
421.90	423.20	**Fresh Rock** **QV** ***Quartz Vein/Chloritic Felsic Tuff Wallroc***	1	1	WH	283277	421.90	422.30	0.40	0	-	0.01	-	-
						283278	422.30	422.60	0.30	0	-	0.05	-	-
						283279	422.60	422.90	0.30	0	-	0.01	-	-
						283281	422.90	423.20	0.30	0	-	0.01	-	-

Chloritic Felsic Tuff - green to locally grayish green colors, altered felsic composition with moderate to strong pervasive chlorite alteration with moderate to strong cb in matrix and fracture-filling from 418.9 to 420.75 decreasing with depth, vfg and generally massive with increased sh towards lower contact 44 from C.A., ocassional wo widely scattered qcs/qs < 1% with local 2% to 3% qcs/qs

Mineralization - 1% to 4% scattered vfg py-(po-cpy-sp) with 2% to 4% disseminated-(minor fracture-fill) py from 418.9 to 419.6 with 1% to local 2% py in the remaining part of the section

Contact - sharp contact 0 to 10 from C.A.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
418.90 - 421.90	CB FRC 3	Carbonatization, Along Fractures & Matrix, Moderate to Strong from 418.9 to 420.75
418.90 - 421.90	CL PV 3	Chloritization, Pervasive, Moderate to Strong

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
418.90 - 421.90	Sph 1	Sphalerite, <0.5%
418.90 - 421.90	Cpy 1	Chalcopyrite, <0.5%
418.90 - 421.90	Po 1	Pyrrhotite, up to 1%
418.90 - 421.90	Py DIS 1	Pyrite, Disseminated & Minor Fracture-Fill, <1% to 4%

Quartz Vein/Chloritic Felsic Tuff Wallrock (25% to 30%) - white vein and green wallrock, quartz composition of vein with localized strong carbonate fractures, vfg and weak to moderately fractured vein matte, 50% to 70% strongly chl altered wallrock at both upper and lower contacts and as wallrock inclusions in vein (<2cm to 4cm), sharp irregular contacts between the quartz vein and altered wallrock ranging 20 to 80 from C.A.

Mineralization - erratic distributed po-cpy as massive splashes up to 4 cm wide, po varies from < 1% to 20% with <1% to 2% cpy, increase 10% to 20% po-cpy from 422.3 to 422.6 and from 422.9 to 423.2, po-cpy occur within the quartz vein at vein/wallrock/inclusion contacts and as vfg disseminations in vein to a lesser extent.

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Contact - sharp 85 from C.A.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		421.90 - 423.20 CL MX 4 Chloritization, Matrix, Strong												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		421.90 - 423.20 Cpy FAC 1 Chalcopyrite, Fracture-controlled, <1% to 2%												
		421.90 - 423.20 Po FAC 1 Pyrrhotite, Fracture-controlled, variable <1% to 20%												
423.20	426.00	**Fresh Rock** **4F** ***Chloritic Felsic Tuff***	1	1	GR	283282	423.20	423.80	0.60	0	-	0.01	-	-
		Chloritic Felsic Tuff - green color, altered felsic composition with strong pervasive chlorite alteration to the matrix, gradational decrease in chl (moderate) towards 426.0, vfg and massive with local not well developed sh 50 from C.A.,local sh associated with qcs/cs margins parallel to C.A with 5% to 10% qcs/cs from 423.8 to 425.0.				283283	423.80	424.30	0.50	0	-	0.01	-	-
						283284	424.30	425.00	0.70	0	-	0.01	-	-
						283285	425.00	426.00	1.00	0	-	0.01	-	-
		Mineralization - < 1% to 5% po>py with < 1% cpy with increased sulphide in the weakly fractured section from 423.8 to 425.0, sulphides occur as disseminations and at vn/wallrock contact												
		Contact - gradational decrease in chlorite												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		423.20 - 426.00 Cpy BLB 1 Chalcopyrite, Blebs, <1%												
		423.20 - 426.00 Py DIS 1 Pyrite, Disseminated, <1% to 5% included as above												
		423.20 - 426.00 Po DIS 1 Pyrrhotite, Disseminated & at vn/wr contact, <1% to 5%												

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
426.00	506.00	**Fresh Rock** **4F** ***Felsic Tuff***	1	1	GY

Felsic Tuff - gray with lighter and darker gray varieties, felsic composition with wk hairline ser shears with local sections of moderate ser, vfg to fg (<0.10 cm in size) scattered 5% to 10% bluish gray yo gray quartz eyes xtls in a vfg quartz-feldspathic-sericitic-(chlorite) matrix, massive fragmental texture being weak to moderate sheared/foliated ranging from 24 to 50 from C.A (average is 42.8 from C.A., ocassional qs/qcs < 1% with local increase 5% to 10% qs/qcs from 423.8 to 425.0 with stringers/veinlets up to 2 cm wide.

449.35 to 449.45 - Fault - broken core with strong ser along broken faces and joints

Mineralization - variable sections of increased sulphides with overall average < 1% py-sp-cpy-(po), increased sections of sulphes from….

429.0 to 434.0 - 1% to 3% py with up to 1% to 2% sp in localized sections; sulphides occur as disseminations along shears
438.0 to 439.0 - 2% to 3% disseminated py-(sp)
440.0 to 441.0 - 5% to 10%disseminated to fracture-fill py with up to 1% sp-cpy
455.0 to 455.5 - 1% to 2% fracture-fill and disseminated along shears sp>py>cpy
462.0 to 463.4 - 1% to 3% disseminated py with 1% to 2% sp as fracture-filling from 462.9 to 463.4
466.3 to 467.15 - 1% to 3% py-cpy-(po-sp) as dissemination along shears

Alteration Maj:	***Type/Style/Intensity***	***Comment***
426.00 - 506.00	SR SP 2	Sericitization, Along Shear Planes, Weak to Locally Moderate

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
426.00 - 506.00	Po BLB 1	Pyrrhotite, Blebs,<0.5%
426.00 - 506.00	Cpy FOL	Chalcopyrite, Along foliation & fractures, up to 1% locally
426.00 - 506.00	Sph FOL 1	Sphalerite, Along foliation & diss/ fractures, <1% to 2%
426.00 - 506.00	Py FOL 1	Pyrite, Along foliation & fractures, 1% to locally 10%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
283286	428.50	429.00	0.50	0	-	0.01	-	-
283287	429.00	430.00	1.00	0	-	0.03	-	-
283288	430.00	431.00	1.00	0	-	0.02	-	-
283289	431.00	432.00	1.00	0	-	0.01	-	-
283290	432.00	433.00	1.00	0	-	0.03	-	-
283291	433.00	434.00	1.00	0	-	0.02	-	-
283293	434.00	435.00	1.00	0	-	0.01	-	-
283294	437.00	438.00	1.00	0	-	0.01	-	-
283295	438.00	439.00	1.00	0	-	0.01	-	-
283296	439.00	440.00	1.00	0	-	0.01	-	-
283297	440.00	441.00	1.00	0	-	0.03	-	-
283298	441.00	442.00	1.00	0	-	0.01	-	-
283299	447.60	448.60	1.00	0	-	0.01	-	-
283300	448.60	449.00	0.40	0	-	0.01	-	-
283301	449.00	450.00	1.00	0	-	0.01	-	-
283302	454.00	455.00	1.00	0	-	0.01	-	-
283303	455.00	455.50	0.50	0	-	0.02	-	-
283305	455.50	456.50	1.00	0	-	0.01	-	-
283306	456.50	457.50	1.00	0	-	0.01	-	-
283307	457.50	458.50	1.00	0	-	0.01	-	-
283308	458.50	459.50	1.00	0	-	0.01	-	-
283309	459.50	460.50	1.00	0	-	0.01	-	-
283310	460.50	461.00	0.50	0	-	0.01	-	-
283311	461.00	462.00	1.00	0	-	0.01	-	-
283312	462.00	462.90	0.90	0	-	0.01	-	-
283313	462.90	463.40	0.50	0	-	0.01	-	-
283314	463.40	464.40	1.00	0	-	0.01	-	-

LITHOLOGY REPORT
- Detailed -

Hole Number **BEN16-09A** Project: **BENNEWEIS** Project Number: **240**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
						283315	464.40	465.40	1.00	0	-	0.01	-	-
						283317	465.40	466.30	0.90	0	-	0.02	-	-
						283318	466.30	467.15	0.85	0	-	0.01	-	-
						283319	467.15	468.00	0.85	0	-	0.01	-	-
						283320	475.00	476.00	1.00	0	-	0.01	-	-
						283321	476.00	477.00	1.00	0	-	0.01	-	-
						283322	477.00	478.00	1.00	0	-	0.01	-	-
						283323	478.00	479.00	1.00	0	-	0.01	-	-
						283324	479.00	480.00	1.00	0	-	0.01	-	-
						283325	480.00	481.00	1.00	0	-	0.01	-	-
						283326	481.00	481.50	0.50	0	-	0.02	-	-
						283327	481.50	482.00	0.50	0	-	0.01	-	-
						283329	482.00	483.00	1.00	0	-	0.01	-	-
						283330	500.00	501.00	1.00	0	-	0.01	-	-

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number **BEN16-09A** Project: **BENNEWEIS** Project Number: **240**

From (m)	To (m)	Length (m)	Sample #	Comments
9.40	9.90	0.50	283001	Weakly Choritic Granodiorite - felsic to intermediate composition with wk chl-cb interstitial altered matrix, porp texture, < 1% qs and py
9.90	11.05	1.15	283002	Gabbro - green color, mafic with mod to strong chl-cb alteration, vfg and mod to strongly sh, 2% to 4% qcs/cs parallel to sh, < 1% py
11.05	12.00	0.95	283003	Silicified-Albitized Granodiorite - bleached white; strong pervasive sil-ab, diffuse altered ch wr xenoliths, < 1% qs & py
12.00	13.00	1.00	283004	Silicified-Albitized Granodiorite - bleached white; strong pervasive sil-ab, diffuse altered ch wr xenoliths, numerous amp-chl fractures, < 1% qs & py
13.00	14.00	1.00	283005	Silicified-Albitized Granodiorite - bleached white; strong pervasive sil-ab, numerous amp-chl fractures, altered mafic wr xenoliths, < 1% qs & py
14.00	15.00	1.00	283006	Silicified-Albitized Granodiorite - bleached white; strong pervasive sil-ab, numerous amp-chl fractures, altered mafic wr xenoliths, < 1% qs & py
15.00	16.00	1.00	283007	Silicified-Albitized Granodiorite - bleached white; strong pervasive sil-ab, numerous amp-chl fractures, altered mafic wr xenoliths, < 1% qs & py
16.00	17.00	1.00	283008	Silicified-Albitized Granodiorite - bleached white; strong pervasive sil-ab, numerous amp-chl fractures, < 1% qs & py
17.00	18.00	1.00	283009	Silicified-Albitized Granodiorite - bleached white; strong pervasive sil-ab, numerous amp-chl fractures, < 1% qs & py
18.00	19.00	1.00	283010	Silicified-Albitized Granodiorite - bleached white; strong pervasive sil-ab, numerous amp-chl fractures, < 1% qs & py
19.00	19.40	0.40	283011	Silicified-Albitized Granodiorite - bleached white; strong pervasive sil-ab, numerous amp-chl fractures, < 1% qs & py
19.40	20.00	0.60	283013	Gabbro - mafic composition with mod-(strong) cb, 1% to 2% qcs/cs, < 0.5% py
26.20	26.70	0.50	283014	Porphyritc Granodiorite/QFP- felsic to intermediate composition, wk-mod chl in matrix, porp texture, < 1% qs & py
26.70	27.20	0.50	283015	Fracture Zone - host porp granodiorite/QFP with 20% xcutting qs, < 0.5% py
27.20	27.90	0.70	283016	Weak Fracture Zone - host porp granodiorite/QFP with 5% xcutting qs, < 0.5% py
27.90	28.50	0.60	283017	Fracture Zone - host porp granodiorite/QFP with 15% xcutting qs, < 0.5% py
28.50	28.90	0.40	283018	Fracture Zone - host porp granodiorite/QFP with 40% to 45% xcutting qs, < 0.5% py
28.90	29.60	0.70	283019	Weak Fracture Zone - host porp granodiorite/QFP with 5% to 7% xcutting qs, < 0.5% py
29.60	30.40	0.80	283020	Weak Fracture Zone - host porp granodiorite/QFP with 10% xcutting qs, < 0.5% py
30.40	31.40	1.00	283021	Porphyritic Granodiorite/QFP - felsic to intermediate composition, porp texyure, 1% to 2% qs, < 0.5% py
35.50	36.00	0.50	283022	Porphyritic Granodiorite/QFP - felsic to intermediate composition, porp texture, 5% qs, < 0.5% py
36.00	36.50	0.50	283023	Quartz Veinlets xcut Porphyritic Granodiorite/QFP - felsic composition with no alteration marginal to qv, 46% of interval xcut by qv up to 15 cm wide, wk to mod fractured vn matte, < 0.5% py
36.50	37.00	0.50	283025	Porphyritic Granodiorite/QFP - felsic to intermediate composition, porp texture, <1% qs, < 0.5% py
37.00	37.70	0.70	283026	QTSW/Fractured Porphyritic Granodiorite/QFP - similar to section between 36.0 and 36.5 with 18% qs fracturung up to 13 cm wide, < 0.5% py
37.70	38.50	0.80	283027	Gabbro - mafic composition being strong chl and wk cb, vfg msv/sh, <1% qcs, <0.5% py
38.50	38.90	0.40	283028	QFP Dyke - felsic composition, wk/mod sil, relict porp, 1% qs, <0.5% py

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number **BEN16-09A** Project: **BENNEWEIS** Project Number: **240**

From (m)	To (m)	Length (m)	Sample #	Comments
38.90	39.70	0.80	283029	Gabbro - mafic composition with wk-mod chl and mod cb, melanocratic, <1% qcs, < 0.5% py
58.00	58.50	0.50	283030	Porphyritic Granodiorite/QFP - felsic to intermediate composition, porp texture,10% qs, < 0.5% py
58.50	59.50	1.00	283031	Gabbro - mafic composition with wk-mod chl and wkcb, vfg to fg, equigranular texture, <1% qcs/qs, clustered cg py cubes < 1% and onserved spec of cpy < 0.5%
59.50	60.50	1.00	283032	Gabbro - mafic composition with stong cb in matrix and fractures, wk-mod chl, vfg, scattered cs/qcs up to 5% fracturing, occasional py cube< 0.5%
74.00	74.60	0.60	283033	Porphyritic Granodiorite/QFP - felsic to intermediate composition with 105 to 15% blue qe and 25% to 35% fd, porp, < 1% qs/qcs, < 1% py
74.60	75.20	0.60	283034	Sheared Porphyritic Granodiorite/QFP - felsic to intermediate composition with 105 to 15% blue qe and 25% to 35% fd, porp, < 1% qs/qcs, < 1% py
75.20	76.20	1.00	283035	Sheared Mafic Pillow Flow - green color, mafic composition, mod to strong chl and wk cb, strongly sh, <1% qcs, scattered py < 1% and locally up to 1% py cubes
76.20	77.10	0.90	283037	Sheared Mafic Pillow Flow - green color, mafic composition, mod to strong chl and wk cb, strongly sh, <1% qcs and occasional py
77.10	77.60	0.50	283038	Porphyritic Granodiorite/QFP - felsic to intermediate composition with 15% to 20% chl/amp matrix about fd>qe with <5% qe, porp texture, < 1% qs/qcs and py
79.90	80.80	0.90	283039	Porphyritic Granodiorite/QFP - felsic to intermediate composition being wk to locally mod sil, porp texture, 5% qs, <0.5% py
80.80	81.50	0.70	283040	Fractured Porphyritic Granodiorite/QFP - felsic to intermediate composition with no sil, porp texture, 30% qs ranging 2 to 13 cm wide, local strong chl on lower qs in interval, barren qs and wr with <0.5% py
81.50	82.25	0.75	283041	Porphyritic Granodiorite/QFP - felsic to intermediate compositio, porp texture, 1%-2% qs, occasional <0.5% py
82.25	82.75	0.50	283042	Fractured Porphyritic Granodiorite/QFP - felsic to intermediate composition, porp texture, fractured with 30% to 40% qs up to 12 cm, occasional py < 1%
82.75	83.25	0.50	283043	Porphyritic Granodiorite/QFP - felsic to intermediate composition with o.4 m wide vfg mafic inclusion, , porp texture, 1% qs, occasional <0.5% py
136.00	137.00	1.00	283044	Epidote and hematite altered gabbro, interstitial chl, minor qtz vein and stronger chloritic zone.
140.00	141.00	1.00	283045	Gabbro with pervasive hem alt, patchy ep alt, interstitial chl alt. diss lx
142.54	142.95	0.41	283046	foliated gabbro dyke, perv chl alt, and carb alt along foliation planes.
146.00	147.00	1.00	283047	gabbro with patchy hem alt, patchy ep alt. chl alt interstital. One minor qtz vein.
147.50	148.50	1.00	283049	mg gabbro, with patchy ep alt, and interstitial chl. Minor carb along fractures.
150.00	151.16	1.16	283050	Gabbro, heavy chl alt down hole, some sericite and chl interstitial. One faulted qtz vein.
151.16	151.63	0.47	283051	at contact with gabbro at start. Perv silicification washes out most of the other alteration. There are some qtz veins throughout.
154.00	154.75	0.75	283052	end of the granodiorite unit. Minor qtz veins/stockwork at end. There is pervasive chl alt.
154.75	156.00	1.25	283053	Start of gabbro, perv chl and minor py diss. There is some carb alt throughout.
156.00	157.00	1.00	283054	Gabbro with less chl alt, grains are more visible along with original texture. There are some blebs and disseminated grains of pyrite. Carb alt along fractures.
158.08	159.00	0.92	283055	sheared gabbro. Qtz vein at start. One cloudy qtz vein with sericite surrounding it near middle of sample. blebs of cpy and py throughout.
159.00	160.00	1.00	283056	Sheared gabbro with minor blebs of py and cpy along foliation planes. Heavy chl alt and some carb alt also along foliation planes.

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number **BEN16-09A** Project: **BENNEWEIS** Project Number: **240**

From (m)	To (m)	Length (m)	Sample #	Comments
163.00	163.75	0.75	283057	sheared gabbro with chl and carb alt. minor qtz vein with hem alt. foliated.
163.75	164.52	0.77	283058	sheared gabbro, end of sheared part. Alt as above.
164.52	165.43	0.91	283059	start of nonsheared gabbro. Carb alt along feldspars and chl alt interstitial with occasional bands. There is 0.5-1% dissem fg py in this unit.
165.43	166.58	1.15	283061	gabbro as above, with larger carbonate veins and more dissem py, up to 1-1.5%
167.00	168.26	1.26	283062	gabbro as above, minus carb veins. Py up to 1%
169.40	170.47	1.07	283063	Gabbro as above with heavily chloritized patches, blebs and patches of dissem py, up to 1%
180.00	181.00	1.00	283064	Gabbro with minor carb alt and chl interstitiall. Large qtz vein running through sample making up about 50%.
185.00	185.95	0.95	283065	Gabbro with less alteration, minor chl zones and carb fractures. There is a qtz vein at the end of the sample with a large hematite alteration halo around it.
192.38	193.45	1.07	283066	large qtz vein with minor sulphide in host rock around edges, strong chl alt around edges.
194.22	195.20	0.98	283067	Gabbro with is chl and carb alt. spotty patches of dissem py. Some carb on fractures.
196.00	197.00	1.00	283068	gabbro as above, some areas of stronger chl alt giving a darker, more fg appearance. Spotty blebs of py.
205.33	205.87	0.54	283069	Qtz diorite unit with a qtz vein in top half. Above the qv there is some sheared up host rock which has been heavily chloritized and carb alt'd. sericite and minor py throughout the unit.
209.83	210.80	0.97	283070	qtz vein and gabbro, with the gabbro being moderately foliated and chl altered, along with carbonate alt along fol planes.
210.80	211.49	0.69	283071	qtz diorite with is chl alt, patches of heavier chl alt. carb alt is and mtv. Minor irregular quartz veins. Sericite nets throughout.
211.49	212.00	0.51	283073	gabbro weakly banded with chl and carbonate. There are carb alt on irregular qtz veining.
212.90	214.00	1.10	283074	Gabbro with a darker colour, with chl alt and magnetite alteration in bands throughout. There are small areas of py scattered throughout, focused primarily in the magnetite zones.
214.00	215.00	1.00	283075	gabbro as above, with bleached section in last 15 cm. magnetite is more prevalent
215.32	216.20	0.88	283076	foliated gabbro, banded areas with greenish and blackish chl. Carb throughout. Much diss and banded py.
216.20	217.00	0.80	283077	foliated gabbro as above, some veining at start with heavy py(up to 5%) in it. Rest of sample has dissem clouds of py.
217.00	218.00	1.00	283078	less altered gabbro, with a more mg texture visible within the core. Minor clouds of py. Carb diss throughout.
218.00	219.36	1.36	283079	gabbro as above, but finer grained py dissem along foliation planes. Becomes more foliated down sample.
219.36	220.00	0.64	283080	sheared fg gabbro, fg chl alt. fg diss py, 2-3%,
220.00	221.00	1.00	283081	fg gabbro with darker colour, magnetite alt in lower half. Fg py diss throughout.
221.00	222.00	1.00	283082	fg dark gabbro. Magnetic throughout. Perv chl alt, and very prevalent carb alt. fg py along fractures and fol planes.
222.00	223.00	1.00	283083	fg gabbro as above, slightly lighter colour. 2% py diss.
223.00	224.30	1.30	283085	fg gabbro, getting more greenish instead of blackish. End of magnetic sections. Fg py diss, up to 3-5%, as low as 1%

Hole Number **BEN16-09A** Project: **BENNEWEIS** Project Number: **240**

From (m)	To (m)	Length (m)	Sample #	Comments
226.65	227.50	0.85	283086	dark green gabbro, perv chl alt. py diss, 1%.
227.50	228.00	0.50	283087	fg to mg gabbro, py 2-3%
228.00	229.00	1.00	283088	gabbro as above
229.00	230.38	1.38	283089	gabbro getting into bleached section, py diss and frc, 3-4%
230.38	232.00	1.62	283090	bleached unit. Perv sericite and sil. Minor py <1%.
232.00	233.00	1.00	283091	bleached unit as above. Py 3-5% diss.
233.00	234.00	1.00	283092	bleached unit as above. Py near end of sample diss, 2%
234.00	235.00	1.00	283093	bleached unit, alteration as above. Py in bands for first 30 cm, 2%, diss 1-3%
235.00	236.00	1.00	283094	bleached unit, alteration as above. Py diss, up to 5%
236.00	237.00	1.00	283095	bleached unit, pervasive sil 2-3, pervasive ser 2. py diss 3-5%
237.00	237.80	0.80	283097	bleached unit, alt as above, py diss 3-5%
237.80	239.00	1.20	283098	bleached unit as above with chl alt and a qtz carb vein taking up 10% of the sample. Foliated and more chl altered. Py is diss as well as in and around fractures, 10%.
239.00	240.00	1.00	283099	bleached but darker unit, with sil 2 pv, ser 2 pv, chl 1 int. 1% qcv. Py dis 1%
240.00	241.00	1.00	283100	alteration as above. 1% veining and 1% py.
241.00	242.00	1.00	283101	alteration as above, possible small clot of granodiorite/diorite 2cm wide. Chl more intense in some areas, up to 2-3. 2% qcv. 2-3% py in fractures and diss.
242.00	243.44	1.44	283102	perv sil 2-3, patchy ser 1-2. is chl 1-2. carb veinlets and qcv 5-6%. Py 1-2%
243.44	244.40	0.96	283103	alteration as above, py up to 1%. 1% qcv
244.80	246.00	1.20	283104	alt as above. 2-3% qv. Py diss and in veins, 5%
246.00	247.00	1.00	283105	alt as above, 2-4% qcv. Py up to 1%.
247.00	247.87	0.87	283106	sil 2 pv, ser 1-2 pv, chl is/spt 1-2. 1% qv, 0.5% py on frac
247.87	249.20	1.33	283107	alt as above plus carb alt 1-2 in foliated zone. 2% qv. 0.5% py frc.
250.66	252.00	1.34	283108	alt as 106. veining 2-4%, py fac up to 0.5%
252.50	254.00	1.50	283109	alt as above, slightly lighter in colour. 1% qcv around fractures. One possible granodiorite/diorite clot near start. Py <0.5% frc.
257.00	257.72	0.72	283110	alt 108. dark colour. Trace py. No veining
257.72	258.74	1.02	283111	qtz diorite pv sil 1-2, chl is 1-2. ser fracs 1. py diss <0.5%. <1% qcv.
258.74	260.00	1.26	283113	unit as 110. alt the same. Py diss and on frc, <0.5%.

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number **BEN16-09A** Project: **BENNEWEIS** Project Number: **240**

From (m)	To (m)	Length (m)	Sample #	Comments
260.00	261.40	1.40	283114	bleached unit with diorite raft at end. Alteration as above two samples. Minor py diss in bleached unit and on fracs in diorite, <0.5%. 2% qv.
261.40	262.10	0.70	283115	bleached unit, alt as 110. trace py, <1% qv.
262.10	263.00	0.90	283116	alt as 113. Py dis and frac, up to 0.5%. <1% carb veining.
263.00	264.50	1.50	283117	alt as above. 1-2% qv. Up to 0.5% py dis and frc.
264.50	266.00	1.50	283118	alt as above, with possible less chl alt. 2-4% qv, 0.5-1% py diss and frc.
266.00	267.36	1.36	283119	alt as above, <0.5% py.
267.36	268.20	0.84	283120	pervasive chl, minor sil, pervasive sericite. Up to 0.5% py.
271.86	272.70	0.84	283121	mafic dyke, pervasive chl, py dis, up to 5-10%
275.50	276.50	1.00	283122	volcanics, pervasive chl and sericite, moderate. 0.5-1% py
276.50	278.00	1.50	283123	volcanics, alt as above, py diss and frac, up to 1%
278.00	279.16	1.16	283125	volcanics as above
279.16	280.45	1.29	283126	volcanics with more seiricite and less chl, still pervasive. Py up to 1.5%
280.45	281.54	1.09	283127	volcanics, alt as above, up to 0.5% py
281.54	282.43	0.89	283128	volcanics, weak to mod chl alt pv, weak sericite pv. Blebs of py, trace to 0.5 %
282.43	284.00	1.57	283129	volcanics as above.
284.00	285.06	1.06	283130	volcanics as above, patchy zones of stronger/more prevalent chl alt. py up to 0.5%
285.06	286.00	0.94	283131	volcanics, pervasive mod to strong ser, weak to mod chl, giving a more grey colour. Py is dis, 15-20% at start, down to 1% near end.
288.00	288.99	0.99	283132	volcanics, perv wk to mod chl alt and wk ser alt. dark greenish grey colour. Tr py, bracket to granodiorite dyke.
288.99	290.36	1.37	283133	granodiorite dyke, carb, is chl, minor veining. Perv wk to mod sil, ser on fracs. Py diss and frac up to 1%.
290.36	291.08	0.72	283134	volcanics bracketing granodiorite, perv chl alt. no min seen.
294.00	294.81	0.81	283135	volcanics with granodiorite raft/dykes within them. Pv chl in volcanics, minor sericite. Perv sil and interstitial chl in granodiorite, with minor carb on fractures and around veins. Blebs of py and po, up to 1% each.
294.81	296.00	1.19	283137	as above
297.50	299.00	1.50	283138	volcancis with stronger sericite, weak to very weak chl. Weak carb on veinlets and fractures. Py up to 1%, po blebs trace to 0.5%.
300.00	301.07	1.07	283139	volcanics similar to above, heavier chl alt giving darker green colour. More carb on fractures, weak to mod. Py on fracs, 1-2%, po blebby on fracs, up to 1%, minor blebs of cpy, trace.
301.07	302.00	0.93	283140	volcanics, alt as above but less carb alt, minor po dis and on carb veinlets, up to 0.5%
302.00	303.30	1.30	283141	volcanics, alt as above, minor stringer/bleb of granodiorite, irregular and not through whole core. Alteration is as above, minor py 0.5%, po up to 0.5%.

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number **BEN16-09A** Project: **BENNEWEIS** Project Number: **240**

From (m)	To (m)	Length (m)	Sample #	Comments
303.30	303.92	0.62	283142	granodiorite dyke at start for 24 cm, followed by heavily chl alt'd (strong chl alt) volcanics with heavily pyritized fractures and veinlets, py up to 10%. Granodiorite alt is as above, with more silicification. Mineralization is absent to trace within the granodiorite.
303.92	305.00	1.08	283143	volcanics, weak to mod chl alt, minor sericite around fractures. Py and possible po on fractures and diss, up to 0.5% total.
305.00	306.19	1.19	283144	volcanics as above, py is diss up to 2%, 0.5-1% po.
306.19	306.70	0.51	283145	volcanics as above, bracketing granodiorite zone. Trace mineralization.
306.70	307.15	0.45	283146	granodiorite unit, pervasive sil, interstitial chl alt.
307.15	307.75	0.60	283147	Pyritic Gabbro - mafic composition & <5 bio/mus, vfg to fg equigranular texture, < 1% qcs, 1% to 2% scattered vfg py
307.75	308.50	0.75	283149	Pyritic Gabbro - mafic composition with 5% to 10% bio/mus, wk cb along fractures, numerous py fractures ranging 5% to 10% py fractures>disseminated
308.50	309.00	0.50	283150	Pyritic Gabbro - mafic composition & <5 bio/mus, vfg to fg equigranular texture, < 1% qcs, 2% to 3% scattered & minor fracture-fill vfg py
309.00	310.00	1.00	283151	Gabbro - mafic composition with vfg to fg amp-fd, equigranular texture/massive, < 1% qcs, non-foliated, occasional to widely scattered py up to 1%
310.00	310.60	0.60	283152	Gabbro - mafic composition with vfg to fg amp-fd, equigranular texture/massive, < 1% qcs, non-foliated, occasional py < 1%
315.60	316.10	0.50	283153	Felsic Tuff - felsic to intermediate composition, wk sh, <1%-2% qcs/qs, < 1% py
316.10	316.60	0.50	283154	Felsic Tuff - felsic to intermediate composition with moderate chl matrix, wk fractured < 1% qcs/cs with scattered py fract-disseminated ranging 1% to 2%
316.60	317.10	0.50	283155	Felsic Tuff - felsic to intermediate composition with moderate chl matrix, wk fractured < 1% qcs/cs with scattered fracture-fill.disseminated py 2% to 4%
317.10	317.80	0.70	283156	Silicified Feldspar Porphyry/Granodiorite - white color, strong sil matrix with 20% fd phenocrysts, relict porp texture, fractured with 10% qs, occasional py < 1%
317.80	318.30	0.50	283157	Quartz Breccia - bleached white/grayish white colors, strong pervasive sil with relict FP, fractured with numerous qtz-ser fractures about sil wr, <1% qs, <1% py in fracture seams
318.30	318.80	0.50	283158	Quartz Breccia - smokey gray strong sil altered matrix, numerous vfg smoky gray altered fractures and seams, <1% qs, < 1% to 3% py-(po-cpy-sp?) in fracture seams increasing to 318.5
318.80	319.60	0.80	283159	Quartz Breccia - smokey gray and bleached white color, strong pervasive sil-cherty-like, relict porp, strongly fract/bx, 5% disseminated py along chl-ser-qtz? Seams
319.60	320.00	0.40	283161	Chloritic-Pyritic Felsic Tuff - altered felsic with mod chl, mod fract with 10% qcs/qs, 25% to 25% disseminated and sh-controlled/fracture-fill py with < 1% po-cpy; 2% to 3% py>po>cpy in qcs/qs
320.00	321.00	1.00	283162	Chloritic Felsic Tuff - altered felsic with moderate chl and wk-mod cb, <1% to 2% qcs/qs, 5% to 10% vfg disseminated >fracture-fill py-(cpy)
321.00	322.00	1.00	283163	Chloritic Felsic Tuff - altered felsic with moderate chl & cb alteration in matrx, up to 1% qcs/qs, 2% to 3% vfg disseminated >fracture-fill py-po
322.00	323.00	1.00	283164	Chloritic Felsic Tuff - altered felsic with weak to moderate chl & cb alteration in matrx, up to 2% qcs/qs, occasional py < 1%
323.00	323.60	0.60	283165	Chloritic Felsic Tuff - altered felsic with weak to moderate chl & cb alteration in matrx, up to 1% qcs/qs, occasional py < 1%
323.60	323.90	0.30	283166	Sheared Chloritic Felsic Tuff - altered felsic with moderate chl-ep with wk cb, strongly sheared, <1% qcs, up to 1% py along sh towards 323.9
323.90	324.15	0.25	283167	Silicified Granodiorite/Quartz Breccia - bleached white, strong pervasive sil with relict fd phenocrysts/porp texture, fract/bx, numerous chl fractures seams, <1% py
324.15	325.00	0.85	283168	Chloritic Felsic Tuff - altered felsic with moderate to strong chl and weak cb, vfg and msv/wk sh, <1% qs/qcs, < 1% py
329.00	329.55	0.55	283169	Sheared Chloritic Felsic Tuff - altered felsic with moderate chl-ep-ser with wk cb, wk-mod sheared, <1% qcs, <1% py

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329.55	330.00	0.45	283170	Chloritic Felsic Tuff - altered felsic with moderate ser-ep-chl with 10% qs/sil flooding with associated < 1% to 3% py
330.00	330.50	0.50	283171	Chloritic Felsic Tuff - altered felsic with moderate ser-ep-chl with 10% to 15% qs/sil flooding with associated < 1% to 2% patchy py
330.50	331.00	0.50	283173	Felsic Tuff - weakly altered felsic with wk chl-ser-cb alteration in matrix, vfg and massive, <1% to 2% qs/qcs, 2% to 3% patchy py
331.00	332.00	1.00	283174	Felsic Tuff - weakly altered felsic with wk chl-ser-cb alteration in matrix, vfg and massive, <1% qs/qcs, 1% to 2% patchy py
332.00	333.00	1.00	283175	Felsic Tuff - weakly altered felsic with wk chl-ser-cb alteration in matrix, vfg and massive, <1% qs/qcs, up to 1% py
333.00	334.00	1.00	283176	Felsic Tuff - altered felsic with wk to moderate chl and wk cb, msv, <1% qcs/qs, < 1% py
334.00	335.00	1.00	283177	Felsic Tuff - altered felsic with wk to moderate chl and wk cb, msv, <1% to 2% qcs/qs, < 1% to 2% scattered & as fracture-fill py
335.00	335.80	0.80	283178	Felsic Tuff - altered felsic with wk chl and wk cb, msv, <1% to 2% qcs/qs, < 1% to 3% scattered & as fracture-fill py
335.80	336.50	0.70	283179	Felsic Tuff - felsic composition with wk chl-cb, weakly fractured with 5% to 7% folded qs/qcs, 2% to locally 5% fg py following local sh and fractures
336.50	337.50	1.00	283180	Felsic Tuff - felsic with wk chl and wk cb, msv, <1% qcs/qs, < 1% scattered py
337.50	338.50	1.00	283181	Felsic Tuff - felsic with wk chl and wk cb, msv, <1% qcs/qs, < 1% scattered py
338.50	339.30	0.80	283182	Felsic Tuff - felsic composition with wk chl-cb, scattered patchy sil/qs with assocated 5% to 20% py with overall 3% to 5% py
339.30	340.00	0.70	283183	Felsic Tuff - felsic composition with wk chl-cb, msv texture, local wk sh/fol, <1% qs/qcs, 1% to 2% scattered py
340.00	341.00	1.00	283185	Felsic Tuff - felsic composition with wk chl-cb, msv texture, local wk sh/fol, <1% qs/qcs, 1% to 2% scattered & fracture-fill py
341.00	341.50	0.50	283186	Felsic Tuff - felsic composition with wk chl-cb, msv with 5% to 7% qs, 2% to 4% scattered disseminated and fracture-fill py
341.50	342.00	0.50	283187	Quartz Veinlet/Felsic Tuff - felsic composition with wk chl-cb, xcut at upper contact by 10 cm wide qs with diffuse wr inclusions, scattered 1% to 2% py in wr and along lower margin of quartz veinlet
342.00	342.75	0.75	283188	Felsic Tuff - felsic composition with moderate to strong patchy sil-ser, 5% strong sil flood/qs, 1% to 2% scattered py generally in patchy sil sectionsi
342.75	343.05	0.30	283189	Silicified Granodiorite/Feldspar Porphyry - bleached white and strong sil with relict vfg to fg crowded fd phenocrysts, relict porp texture, lower contact with 4 cm wide qs, 1% scattered vfg py-(aspy?) clots/splashes
343.05	343.75	0.70	283190	Felsic Tuff - felsic with wk chl-cb, massive, < 1% qs and py
343.75	344.25	0.50	283191	Porphyritic Granodiorite (QFP) - felsic to intermediate in composition with 30% to 35% fd phenocrysts, 5% to 10% qe, 1% to 3% qs, and < 1% po as fracture-filling
344.25	345.00	0.75	283192	Porphyritic Granodiorite (QFP) - felsic to intermediate in composition with 30% to 35% fd phenocrysts, 5% to 10% qe, 1% to 2% qs, and < 1% po as fracture-filling assocaited with qs
345.00	346.00	1.00	283193	Weakly Fractured Porphyritic Granodiorite (QFP) - felsic to intermediate in composition with 30% to 35% fd phenocrysts, 5% to 10% qe, 10% qs, local po-py splash in 5 cm qs at 345.25
346.00	347.00	1.00	283194	Porphyritic Granodiorite (QFP) - felsic to intermediate in composition with 30% to 35% fd phenocrysts, 5% to 10% qe,<1% qs and barren to < 0.5% po-py
347.00	348.40	1.40	283195	Porphyritic Granodiorite (QFP) - felsic to intermediate in composition with 30% to 35% fd phenocrysts, 5% to 10% qe,<1% qs and barren to < 0.5% po-py
348.40	349.30	0.90	283197	Sericitic Porphyritic Granodiorite (QFP) - altered felsic with mod to strong sh controlled ser-(chl-cb), mod sh up to 0.20 m wide, <1% qs, scatterd up to 1% po-py locally
349.30	350.00	0.70	283198	Sericitic Porphyritic Granodiorite (QFP) - altered felsic with mod to strong sh controlled ser-(chl-cb), mod sh, <1% qs, scatterd 1% po-py locally

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350.00	350.80	0.80	283199	Sericitic Porphyritic Granodiorite (QFP) - altered felsic with mod to strong sh controlled ser-(chl-cb), mod sh, <1% qs, scatterd <1% po-py locally
350.80	351.50	0.70	283200	Sericitic Porphyritic Granodiorite (QFP) - altered felsic with mod to strong sh controlled ser-(chl-cb), mod sh, <1% qs, scatterd 1% to 2% po-py locally
351.50	352.10	0.60	283201	Sericitic Porphyritic Granodiorite (QFP) - altered felsic with stronger sh controlled ser-(chl-cb), mod sh, <1% qs, sh controlled fractures with py-po ranging 2% to 5% with < 1% cpy fractures
352.10	353.00	0.90	283202	Sericitic Porphyritic Granodiorite (QFP) - altered felsic with stronger sh controlled ser-(chl-cb), mod sh, <1% qs, sh controlled fractures with po-py ranging 1% to 3%
353.00	353.50	0.50	283203	Sericitic Porphyritic Granodiorite (QFP) - altered felsic with stronger sh controlled ser-(chl-cb), mod sh, <1% qs, sh controlled fractures with po-py ranging 1% to 2%
353.50	354.15	0.65	283204	Quartz Vein/Sericitic Porphyritic Granodiorite (QFP) - altered felsic with stronger sh controlled ser-(chl-cb), mod sh, 25% to 30% qs up to 10 cm wide, <1% py-po with py-po splash on lower qs
354.15	354.60	0.45	283205	Porphyritic Granodiorite (QFP) - felsic composition with wk sil, porp texture, wk sh, <1% to 2% qs, <1% py-po
354.60	355.15	0.55	283206	Quartz Vein/ Porphyritic Granodiorite (QFP) - felsic composition with wk sil, porp texture, fractured with 30% to 35% qs up to 10 cm wide, <1% py-po
355.15	356.15	1.00	283207	orphyritic Granodiorite (QFP) - felsic composition with local ser-(chl), porp texture, wk sh, <1% to 2% qs, <1% py-po
356.15	357.00	0.85	283209	Gabbro - altered mafic with strong chl-cb, sh with 5% cs/qcs parallel to sh, 2% to 4% scattered po-py with increased po in cb-rich bnds/cs
357.00	358.00	1.00	283210	Gabbro - altered mafic with strong chl-cb, 5% to 10% cs/qcs parallel to sh, 2% to 3% vfg disseminated po-py
358.00	359.00	1.00	283211	GABBRO - altered mafic with strong chl-cb, 4% to 7% cs/qcs parallel to sh, 2% to 3% vfg disseminated py>po
359.00	360.00	1.00	283212	Gabbro - altered mafic with strong chl and wk cb, vfg and msv, 2% to 3% cs/qcs, < 1% py-po
360.00	360.50	0.50	283213	Gabbro - altered mafic with strong chl and wk cb, vfg and msv, <1% cs/qcs, < 1% py-po
360.50	361.00	0.50	283214	Silicified Porphyritic Granodiorite (QFP) - strong sil-(ab) flooding, frequent chl-ser fractures, occasional qs up to 1%, 3% to 5% po>py and < 1% cpy associated with fractures but also disseminated
361.00	361.50	0.50	283215	Silicified Porphyritic Granodiorite (QFP) - strong sil-(ab) flooding, frequent ser-chl fractures, occasional qs up to 1%, <1% po>py
361.50	362.00	0.50	283216	Silicified Porphyritic Granodiorite (QFP) - strong sil-(ab) flooding, frequent ser-chl fractures, occasional qs up to 1%, <1% po>py
362.00	362.45	0.45	283217	Silicified Porphyritic Granodiorite (QFP) - strong sil-(ab) flooding, numerous ser>chl fractures, occasional qs up to 1%, 1% to 3% py>po associated with ser fractures (near lower contact) and as diss.
362.45	363.10	0.65	283218	Gabbro - altered mafic with mod chl and wk cb, wk sh with scattered blue detached qs 1% to 2%, < 1% py
363.10	364.00	0.90	283219	Gabbro - altered mafic with mod chl and mod/strong cb, wk sh, < 1% qcs/qs, 5% to 10% disseminated and fracture-filll py-po associated with cb
364.00	364.50	0.50	283221	Gabbro - altered mafic with mod chl and wk to local mod cb in fractures, wk sh, < 1% to 2% discontinuous qs/qcs, up to local 1% py
364.50	365.10	0.60	283222	Gabbro - alterd mafic with wk-(mod) cb in fractures, wk sh with scattered cs/qcs < 1% to 2%, 5% py following those fractures with increased po 2% to 3% at lower contact, but overall < 1% po
365.10	365.50	0.40	283223	Silicified Granodiorite (QFP) - strong pervasive sil-(ab?), relict porp texture, numerous chl seams/fractures, <1% po-(cpy) with local sulphide in joint at upper contact
365.50	366.00	0.50	283224	Gabbro - altered mafic with wk to mod chl and mod cb in matrix/fractures, msv, < 1% qcs/cs, 5% to 7% disseminated py-(po-cpy)
366.00	367.00	1.00	283225	Gabbro - altered mafic with mod chl-ep and strong cb in matrix, msv and < 1% qcs/cs, 2% to 3% vfg py and po
367.00	367.90	0.90	283226	Gabbro - altered mafic with mod chl and wk to no cb, msv, < 1% qcs/cs, up to 1% scattered po>py

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367.90	368.25	0.35	283227	Gabbro - mafic composition with mod chl and wk cb, msv, < 1% qcs/cs, 5% to 10% py cibes
368.25	369.30	1.05	283228	Gabbro - mafic composition with mod chl and wk cb, msv, < 1% qcs/cs, <1% py-po
369.30	369.70	0.40	283229	Sheared Gabbro - mafic composition with mod/strong cb, strong sh, < 1% qcs/cs, < 1% py-po
369.70	370.00	0.30	283230	Silicified-Cherty Zone - strong pervasive sil-cherty-like, diffuse chl along upper and lower contacts, 15% to 20% py fractures with < 1% cpy
370.00	371.00	1.00	283231	Gabbro - mafic composition with moderate to strong cb, msv equigranular texture, <1% qcs/cs, 2% to 3% vfg disseminated and minor fracture-fill py-(po)
371.00	372.00	1.00	283233	Gabbro xcut Granodiorite Dykes - mafi ccomposition with wk chl-cb, equigranular texture, xcut by 30% granodiorite (QFP) dykelets up to 10 cm wide, scattered and strung out py fract up to 1% to 2%
372.00	372.55	0.55	283234	Gabbro xcut Granodiorite Dykes - mafi ccomposition with wk chl-cb, equigranular texture, xcut by 30% granodiorite (QFP) dykelets up to 10 cm wide, scattered < 1% py-(po)
372.55	373.05	0.50	283235	Porphyritic Granodiorite (FP) - felsic to intermediate in composition with 20% to 30% fd, porp texture, 10% bluish qs, < 1% py
373.05	374.00	0.95	283236	Gabbro - mafic composition wk chl/cb being vfg, <1% qcs, widely scattered py cubes < 1%
376.50	377.80	1.30	283237	Fractured Gabbro - mafic composition with mod chl with increased ep along fractures, wk cb, fractured with 5% to 10% qcs/qcv with ep, scattered < 1% to local 2% py cubes
383.50	384.70	1.20	283238	Fractured Porphyritic Granodiorite (QFP) - felsic to intermediate composition being porp, scattered qs 10% to 15% up to 10 cm, < 1% py
384.70	385.65	0.95	283239	Gabbro - mafic composition with mod chl and wk cb, msv and up to 1% qcs, 2% vfg to fg scattered py with minor fractures
385.65	385.85	0.20	283240	Silicified Porphyritic Granodiorite (FP) - bleached white to grayish white color, altered felsic to intermediate in composition with strong sil altered matrix with 25 to 4% mg relict albite phenocrysts giving a relict sub-porphyritic texture, <1% py
385.85	386.70	0.85	283241	Gabbro - mafic composition with wk chl-cb, fg equigranular texture, < 1% qcs/qs, widely scattered vfg py < 1%
386.70	387.70	1.00	283242	Gabbro - mafic composition with wk chl and mod cb, fg equigranular texture, 2% to 3% qcs/qs, widely scattered vfg py < 1%
387.70	388.00	0.30	283243	Gabbro - mafic composition with wk chl and mod-(strong) cb in matrix, increase in sh and py fracture-filling and dissemination 2% to 4%
388.00	388.50	0.50	283245	Sheared & Pyritic Gabbro - mafic composition with mod chl and mod-(strong) cb, strongly sh, 2% to 3% cs/qcs, 10% to 15% sh and fracture-fill py
388.50	389.00	0.50	283246	Sheared & Pyritic Gabbro - mafic composition with mod chl and mod-(strong) cb, strongly sh with fracturing 5% to 10% qcs/cs, 5% to 10% sh disseminated py
389.00	389.50	0.50	283247	Sheared & Pyritic Gabbro - mafic composition with mod chl and mod-(strong) cb, strongly sh with numerous calcite seams/bnds (10% to 15%), up 1% to 2% qcs, 5% sh disseminated py
389.50	390.30	0.80	283248	Sheared and Pyritic Gabbro - altered mafic with strong chl and wk cb with 10% to 20% calcite seams/bnds parallel to sh, strongly sh, 2% to 4% qcs/cs, <5% disseminated py
390.30	391.30	1.00	283249	Quartz Porphyry - felsic composition, 15% tp 20% fg to mg bluish white qe, porp texture, <1% qs and py
391.30	392.30	1.00	283250	Quartz Porphyry - felsic composition with increase in ser along hairline sh, 15% tp 20% fg to mg bluish white qe, porp texture, <1% qs and py
392.30	392.95	0.65	283251	Quartz Porphyry - felsic composition with increasing ser hairline sh, 15% tp 20% fg to mg bluish white qe, porp texture, <1% qs, widely scattered py < 1% with increasing py towards the lower contact
392.95	393.50	0.55	283252	Sheared and Pyritic Gabbro - mafic composition with mod chl and mod cb, 5% cb seams/bnds, strongly sh, 1% to 3% qcs, 5% disseminated py
393.50	394.00	0.50	283253	Sheared and Pyritic Gabbro - mafic composition with mod chl and mod cb, numerous cb bands 10% to 20% cb seams/bnds, strongly sh, 1% to 5% qcs, 3% to 5% disseminated py
394.00	394.50	0.50	283254	Sheared and Pyritic Gabbro - mafic composition with strong cb in matrix, mod sh, 5% qcs, 5% to 10% disseminated py

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394.50	395.00	0.50	283255	Sheared and Pyritic Gabbro - mafic composition with mod chl and cb in matrix, mod sh, <1% to 2% qcs, 5% disseminated py
395.00	395.50	0.50	283257	Sheared and Pyritic Gabbro - mafic composition with mod chl and mod to strong cb in matrix, mod sh, <2% to 3% qcs, 1% disseminated py
395.50	396.50	1.00	283258	Sheared and Pyritic Gabbro - mafic composition with mod chl and strong per cb, strongly sh, 50% calcite-epidoteveining, scattered 1% to 2% py
396.50	397.00	0.50	283259	Sheared and Pyritic Gabbro - mafic composition with strong chl and wk-9mod0 cb, strongly sh, 1% to 2% qcs/cs, scattered vfg 1% py
397.00	397.60	0.60	283260	Sheared and Pyritic Gabbro - mafic composition with strong chl and wk-9mod0 cb, strongly sh, 1% to 2% qcs/cs, scattered vfg 1% py
397.60	398.60	1.00	283261	Felsic Tuff - felsic composition, vfg wk to mod sh upper contact, msv, < 1% qs/qcs, < 1% py,
404.40	404.90	0.50	283262	Felsic Tuff - felsic composition, vfg and massive, <1% qcs, < 1% py
404.90	405.55	0.65	283263	Felsic Tuff - felsic in composition, vfg and massive, <1% qcs, 1% to 2% patchy py with sp fracture (<1%) near upper part of interval
405.55	406.10	0.55	283264	Felsic Tuff - felsic in composition, vfg and massive, <1% qcs, overall < 1% py with 2 cm wide msv py band near lower part of interval
406.10	407.00	0.90	283265	Felsic Tuff - felsic composition, vfg and massive, <1% qcs, < 1% py
407.00	408.00	1.00	283266	Felsic Tuff - felsic composition, vfg and massive,<1% qcs, < 1% py
408.00	408.85	0.85	283267	Felsic Tuff - felsic composition, vfg and msv, 1% to 2% qcs, < 1% py
408.85	409.70	0.85	283269	Felsic Crystal Tuff - felsic in composition with mod/strong cb in matrix/fract, 5% to 15% bluish qe xtls giving sub-porp texture, < 1% qcs, widely scattered py-(po) < 1%
409.70	410.40	0.70	283270	Felsic Crystal Tuff - felsic in composition with mod/strong cb in matrix and fractures, vfg and msv xtl tf texture with 10% to 15% bluish qe, wk sh, < 1% qcs, 1% to 2% scattered py-po
410.40	410.90	0.50	283271	Felsic Tuff - felsic composition, vfg and massive,<1% qcs, < 1% py
418.40	418.90	0.50	283272	Felsic Tuff - felsic in composition with wk-mod chl-ser, wk/mod sh, <1% qcs and py
418.90	419.60	0.70	283273	Chloritic Felsic Tuff - altered felsic with mod to strong chl and cb in matrix, vfg and msv, <1% qcs, 2% to 4% vfg disseminated py
419.60	420.30	0.70	283274	Chloritic Felsic Tuff - altered felsic with mod to strong chl with mod cb, vfg and msv, <1% qcs, 1% widely scattered py-(po) with sp<0.5%
420.30	421.00	0.70	283275	Chloritic Felsic Tuff - altered felsic with mod to strong chl and wk cb, vfg and msv, scattered qcs/cs 2% to 3%, 1% widely scattered vfg py
421.00	421.90	0.90	283276	Chloritic Felsic Tuff - altered felsic with mod chl with wk-(mod) insipient sil, no-wk cb, vfg and wk sh, scattered qcs/cs up to 1% qcs, 1% widely scattered vfg py-po-(cpy)
421.90	422.30	0.40	283277	Quartz Vein/Chloritic Felsic Tuff - 50% qv and 50% vfg chloritic felsic tuff following C.A., stoped wallrock and irregular contact, 1% to 2% cpy-po at wr and vn contacts
422.30	422.60	0.30	283278	Quartz Vein - quartz composition with strong cb fractures, msv vfg po (up to 4 cm wide) with overall 10% to 20% po and 2% cpy
422.60	422.90	0.30	283279	Quartz Vein - quartz composition with local cb in fractures, wk fractured quartz vein matte, vfg, scattered chl wr inclusions (<2 to 3 cm), ocassional po < 1%
422.90	423.20	0.30	283281	Quartz Vein/Chloritic Felsic Tuff - altered felsic with strong pervasive chl, 30% to 40% qs/qv irregular contact with wr, 15% to 20% po in vn at wr contact with up to 1% cpy
423.20	423.80	0.60	283282	Chloritic Felsic Tuff - altered felsics with strong chl and strong cb with 1% to 2% cs following sh, 25 to 3% po with <1% cpy assocaited with qcs
423.80	424.30	0.50	283283	Weakly Fractured Chloritic Felsic Tuff - altered felsic with strong chl with strong cb along sh and fractures, vfg and mod sh and wk fractured with 10% cs/qcs, <5% po>py with < 1% cpy

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number **BEN16-09A** Project: **BENNEWEIS** Project Number: **240**

From (m)	To (m)	Length (m)	Sample #	Comments
424.30	425.00	0.70	283284	Weakly Fractured Chloritic Felsic Tuff - altered felsic with strong chl with strong cb along sh and fractures, vfg and mod sh and wk fractured with 5% to 10% cs/qcs, 1% to 3% po>py with < 1% cpy
425.00	426.00	1.00	283285	Chloritic Felsic Tuff - altered felsic with gradationallly weaker chl ranging from wk-mod chl, wk cb, vfg and massive, < 1% qcs and < 1% po-py
428.50	429.00	0.50	283286	Felsic Tuff - felsic composition and wk chl, vfg and msv, < 1% qcs and < 1% py
429.00	430.00	1.00	283287	Felsic Tuff - felsic composition with wk sil, vfg and massive with up to 1% qs/qcs, scattered patchy py 1% to 3% with vfg scattered red sp < 1%
430.00	431.00	1.00	283288	Felsic Tuff - felsic composition, vfg and msv, < 1% qcs, <1% to 2% vfg disseminated sp with up to 1% py
431.00	432.00	1.00	283289	Felsic Tuff - felsic composition, vfg and msv, < 1% qcs, up to 1% sp>py as vfg dissemianted/scattered grains
432.00	433.00	1.00	283290	Felsic Tuff - felsic composition, vfg and msv, < 1% qcs, <1% to 2% py>sp as vfg dissemianted/scattered grains
433.00	434.00	1.00	283291	Felsic Tuff - felsic composition with weak sil, vfg and msv, < 1% qcs, <1% to 3% py with < 1% sp as vfg dissemianted/scattered grains
434.00	435.00	1.00	283293	Felsic Tuff - felsic composition, vfg and msv, <1% qcs, <1% scattered vfg py-sp
437.00	438.00	1.00	283294	Felsic Tuff - felsic composition, vfg and msv, <1% qcs, up to 1% scattered vfg py
438.00	439.00	1.00	283295	Felsic Tuff - felsic composition with weak sil, vfg and msv, <1% qcs, 2% to 3% vfg disseminated py with increasing py to 439.0
439.00	440.00	1.00	283296	Felsic Tuff - felsic composition with thin hairline ser sh, vfg and wk-(mod) sh, < 1% qcs and py
440.00	441.00	1.00	283297	Felsic Tuff - felsic composition with wk sil, vfg and increased fract with 1% to 2% qs?qcs, vfg disseminated 5% to 10% py with < 1% sp-cpy
441.00	442.00	1.00	283298	Felsic Tuff - felsic composition with weak sil, hairline ser sh, vfg and massive with up to 1% qs lenses, up to 1% py
447.60	448.60	1.00	283299	Felsic Tuff - felsic composition with wk-(mod) ser, wk sh with fine hairline ser fractures and ser sh fractures, 1% qs/qcs, <1% py
448.60	449.00	0.40	283300	Weakly Fractured Felsic Tuff - felsic composition with wk-(mod) ser, fractured with 5% ovoid/oval-shaped bluish qs pods, <1% py
449.00	450.00	1.00	283301	Felsic Tuff - felsic composition with wk-(mod) ser, wk sh with fine hairline ser fractures and ser sh fractures, broken core (flt) from 449.35 to 449.45<1% qs/qcs, <1% py
454.00	455.00	1.00	283302	Felsic Tuff - felsic in composition with wk ser, vfg & msv, <1% qcs/qs, < 1% py-(cpy) at end of interval
455.00	455.50	0.50	283303	Felsic Tuff - felsic in composition with wk ser, vfg & msv, <1% qcs/qs, < 1%-2% sp>py>cpy along diffuse qs fractures and disseminated
455.50	456.50	1.00	283305	Felsic Tuff - felsic composition with wk ser, wk sh and vfg and msv, < 1% qcs/qs, < 1% py-sp
456.50	457.50	1.00	283306	Felsic Tuff - felsic composition with wk ser, wk sh and vfg and msv, < 1% qcs/qs, < 1% py-sp
457.50	458.50	1.00	283307	Felsic Tuff - felsic composition with wk ser, wk sh and vfg and msv, < 1% qcs/qs, local scattered < 1% py-sp
458.50	459.50	1.00	283308	Felsic Tuff - felsic composition with wk ser, wk sh and vfg and msv, < 1% qcs/qs, local scattered py-sp < 1%
459.50	460.50	1.00	283309	Felsic Tuff - felsic composition with wk ser, wk sh and vfg and msv, < 1% qcs/qs, local scattered py-sp < 1%
460.50	461.00	0.50	283310	Felsic Tuff - felsic composition with wk ser, wk sh and vfg and msv, < 1% qcs/qs, 2% to 5% disseminated py-(sp) along sh
461.00	462.00	1.00	283311	Felsic Tuff - felsic composition with wk ser, wk sh and vfg and msv, < 1% qcs/qs, <1% py-(sp)

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number **BEN16-09A** Project: **BENNEWEIS** Project Number: **240**

From (m)	To (m)	Length (m)	Sample #	Comments
462.00	462.90	0.90	283312	Felsic Tuff - felsic in composition with wk ser, vfg and msv, <1% qcs, widely scattered vfg 1% to 3% py
462.90	463.40	0.50	283313	Felsic Tuff - felsic in composition with wk ser, vfg and msv, <1% qcs, 1% to 2% sp fractures with 2% to 3% disseminated py>sp
463.40	464.40	1.00	283314	Felsic Tuff - felsic composition with wk ser, wk sh and vfg and msv, < 1% qcs/qs, <1% py-(sp)
464.40	465.40	1.00	283315	Felsic Tuff - felsic composition with wk ser, wk sh and vfg and msv, < 1% qcs/qs, <1% py-(sp)
465.40	466.30	0.90	283317	Felsic Tuff - felsic composition with wk ser, vfg and msv, <1% qcs, 1% to 2% vfg scattered py with < 1% cpy
466.30	467.15	0.85	283318	Felsic Tuff - felsic composition, vfg and msv, <1% qcs, 1% to 3% py-cpy-(po-sp) as localized patchy mineralization along shears with increased sulphides at end of interval
467.15	468.00	0.85	283319	Felsic Tuff - felsic composition with wk ser, wk sh and < 1% qcs, <1% py-cpy
475.00	476.00	1.00	283320	Felsic Tuff - felsic composition with hairline ser sh, wk-mod sh, <1% qcs, localized < 1% cpy-py along sh
476.00	477.00	1.00	283321	Felsic Tuff - felsic composition with hairline ser sh, wk-mod sh, <1% qcs, localized < 1% py-cpy along sh, more towards end of interval
477.00	478.00	1.00	283322	Felsic Tuff - felsic composition with hairline ser sh, wk-mod sh, <1% qcs, localized < 1% cpy-py along sh
478.00	479.00	1.00	283323	Felsic Tuff - felsic composition with hairline ser sh, wk-mod sh, <1% qcs, localized/patchy < 1% cpy-py along sh
479.00	480.00	1.00	283324	Felsic Tuff - felsic composition with hairline ser sh, wk-mod sh, <1% qcs, <1% py-cpy
480.00	481.00	1.00	283325	Felsic Tuff - felsic composition with hairline ser sh, wk-mod sh, <1% qcs, localized/patchy < 1% cpy-(py) along sh and sh fractures
481.00	481.50	0.50	283326	Felsic Tuff - felsic in composition with wk-mod ser, vfg and wk-mod sh, < 1% qcs, up to 1% cpy>py along sh in upper part of interval,
481.50	482.00	0.50	283327	Felsic Tuff - felsic composition with hairline ser sh, wk-mod sh, <1% qcs,<1% cpy-py
482.00	483.00	1.00	283329	Felsic Tuff - felsic composition with hairline ser sh, wk-mod sh, <1% qcs,<1% cpy-py
500.00	501.00	1.00	283330	Felsic Tuff - felsic composition with wk-mod ser-(chl), mod sh, <1% qcs, <1% py-ser

DRILL HOLE REPORT

Hole Number: **KER15-01** Project: **CHESTER 3B-JACK RABBIT** Project Number: **234**

Drilling		Casing		Core		Location		Other	
Azimuth:	225	**Length:**	7.5	**Dimension:**	NQ	**Claim No.:**	PAT-28520 & PAT28524	**Company:**	IAMGOLD
Dip:	-51	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	413	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Adam Waram
Started:	09-Dec-15	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	
Completed:	13-Dec-15	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	
Logged:	11-Jan-16	**Making water:**	no	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: Southeast extension of King Errington Main Zone and coincidental VLF-EM anomaly and down-dip ext

Comment: Designed to test SE extension (130m SW) of the King Errington Main Zone at depth with three discrete targets; 1) Historical drill hole K.E. 86-6 intersected numerous mineralized and brecciated zones in altered Chester granodiorite, highlighted by 2.3m of QV/QTSW hosting 3%-10% py-cpy and the last 6m ended in 1% to 5% py-cpy in a fractured diorite, 2) 2 strong VLF-EM anomalies coincidental to above, and 3) South Zone which consists of a 0.30m wide quartz-chalcopyrite vein which returned 0.25 g/t Au. 37.3 g/t Ag, and 5.84% Cu

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	434732	**East:**	434732	**East:**	0
North:	5269568	**North:**	5269568	**North:**	0
Elev.:	389	**Elev.:**	389	**Elev.:**	0

Deviation Tests

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
0.00	225.00	-51.00	0	0	0		C	☑	
14.00	225.00	-51.00				55518.9	M	☑	
17.00	225.60	-51.00				55599	M	☑	
20.00	225.80	-50.50				55405	M	☑	
23.00	225.30	-50.60				55285.9	M	☑	
26.00	224.80	-50.60				55206.7	M	☑	
29.00	224.30	-50.70				55101.4	M	☑	
32.00	224.40	-50.50				55054.3	M	☑	
35.00	225.10	-50.50				55114.5	M	☑	
38.00	225.00	-50.50				55102.5	M	☑	
41.00	224.30	-50.30				55051.7	M	☑	
44.00	224.80	-50.20				55072	M	☑	
47.00	224.10	-50.40				55088.4	M	☑	
50.00	224.50	-50.50				55155.5	M	☑	
53.00	224.40	-50.40				55107.3	M	☑	

Density Tests

DRILL HOLE REPORT

Hole Number: **KER15-01** Project: **CHESTER 3B-JACK RABBIT** Project Number: **234**

Drilling		Casing		Core		Location		Other	
Azimuth:	225	**Length:**	7.5	**Dimension:**	NQ	**Claim No.:**	PAT-28520 & PAT28524	**Company:**	IAMGOLD
Dip:	-51	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	413	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Adam Waram
Started:	09-Dec-15	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	
Completed:	13-Dec-15	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	
Logged:	11-Jan-16	**Making water:**	no	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: Southeast extension of King Errington Main Zone and coincidental VLF-EM anomaly and down-dip ext

Comment: Designed to test SE extension (130m SW) of the King Errington Main Zone at depth with three discrete targets; 1) Historical drill hole K.E. 86-6 intersected numerous mineralized and brecciated zones in altered Chester granodiorite, highlighted by 2.3m of QV/QTSW hosting 3%-10% py-cpy and the last 6m ended in 1% to 5% py-cpy in a fractured diorite, 2) 2 strong VLF-EM anomalies coincidental to above, and 3) South Zone which consists of a 0.30m wide quartz-chalcopyrite vein which returned 0.25 g/t Au. 37.3 g/t Ag, and 5.84% Cu

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	434732	**East:**	434732	**East:**	0
North:	5269568	**North:**	5269568	**North:**	0
Elev.:	389	**Elev.:**	389	**Elev.:**	0

Deviation Tests

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
56.00	222.80	-50.70				55102	M	☑	
59.00	224.10	-50.30				54840.6	M	☑	
62.00	224.30	-50.50				54998.2	M	☑	
65.00	224.40	-50.20				55195.6	M	☑	
68.00	224.80	-50.40				55189.8	M	☑	
71.00	225.20	-50.20				55003.3	M	☑	
74.00	226.30	-50.10				54956.3	M	☑	
77.00	225.90	-50.20				55215.6	M	☑	
80.00	225.90	-50.20				55748	M	☑	
83.00	224.20	-50.00				58635.9	M	☑	
89.00	224.50	-50.30				59479.1	M	☑	
98.00	226.70	-49.80				55489.9	M	☑	
101.00	226.40	-49.70				55442.8	M	☑	
104.00	225.90	-50.00				55437.7	M	☑	
107.00	224.90	-50.10				55363.4	M	☑	
113.00	223.70	-49.90				55898.5	M	☑	

Density Tests

DRILL HOLE REPORT

Hole Number: **KER15-01** Project: **CHESTER 3B-JACK RABBIT** Project Number: **234**

Drilling		Casing		Core		Location		Other	
Azimuth:	225	**Length:**	7.5	**Dimension:**	NQ	**Claim No.:**	PAT-28520 & PAT28524	**Company:**	IAMGOLD
Dip:	-51	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	413	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Adam Waram
Started:	09-Dec-15	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	
Completed:	13-Dec-15	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	
Logged:	11-Jan-16	**Making water:**	no	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: Southeast extension of King Errington Main Zone and coincidental VLF-EM anomaly and down-dip ext

Comment: Designed to test SE extension (130m SW) of the King Errington Main Zone at depth with three discrete targets; 1) Historical drill hole K.E. 86-6 intersected numerous mineralized and brecciated zones in altered Chester granodiorite, highlighted by 2.3m of QV/QTSW hosting 3%-10% py-cpy and the last 6m ended in 1% to 5% py-cpy in a fractured diorite, 2) 2 strong VLF-EM anomalies coincidental to above, and 3) South Zone which consists of a 0.30m wide quartz-chalcopyrite vein which returned 0.25 g/t Au. 37.3 g/t Ag, and 5.84% Cu

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	434732	**East:**	434732	**East:**	0
North:	5269568	**North:**	5269568	**North:**	0
Elev.:	389	**Elev.:**	389	**Elev.:**	0

Deviation Tests

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
116.00	224.50	-49.80				55220.6	M	☑	
119.00	224.70	-49.90				55121.6	M	☑	
125.00	224.60	-49.70				56162.4	M	☑	
128.00	220.40	-49.70				57261.6	M	☑	
131.00	221.90	-49.90				57470	M	☑	
134.00	226.30	-49.60				55430.4	M	☑	
137.00	224.90	-49.70				55167.2	M	☑	
140.00	225.80	-49.40				55192.4	M	☑	Strong magnetics
143.00	225.40	-49.70				55203	M	☑	
146.00	224.30	-49.60				55216.3	M	☑	
149.00	224.30	-49.50				55168.2	M	☑	
152.00	225.50	-49.30				55204.2	M	☑	
155.00	226.00	-49.20				55252.5	M	☑	
158.00	226.10	-49.30				55325.9	M	☑	
161.00	225.70	-49.40				55419.1	M	☑	
164.00	223.70	-49.30				55401.5	M	☑	

Density Tests

DRILL HOLE REPORT

Hole Number: **KER15-01** Project: **CHESTER 3B-JACK RABBIT** Project Number: **234**

Drilling		Casing		Core		Location		Other	
Azimuth:	225	**Length:**	7.5	**Dimension:**	NQ	**Claim No.:**	PAT-28520 & PAT28524	**Company:**	IAMGOLD
Dip:	-51	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	413	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Adam Waram
Started:	09-Dec-15	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	
Completed:	13-Dec-15	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	
Logged:	11-Jan-16	**Making water:**	no	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: Southeast extension of King Errington Main Zone and coincidental VLF-EM anomaly and down-dip ext

Comment: Designed to test SE extension (130m SW) of the King Errington Main Zone at depth with three discrete targets; 1) Historical drill hole K.E. 86-6 intersected numerous mineralized and brecciated zones in altered Chester granodiorite, highlighted by 2.3m of QV/QTSW hosting 3%-10% py-cpy and the last 6m ended in 1% to 5% py-cpy in a fractured diorite, 2) 2 strong VLF-EM anomalies coincidental to above, and 3) South Zone which consists of a 0.30m wide quartz-chalcopyrite vein which returned 0.25 g/t Au. 37.3 g/t Ag, and 5.84% Cu

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	434732	**East:**	434732	**East:**	0
North:	5269568	**North:**	5269568	**North:**	0
Elev.:	389	**Elev.:**	389	**Elev.:**	0

Deviation Tests

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
167.00	225.10	-49.20				55117.7	M	☑	
170.00	225.70	-49.30				54960.8	M	☑	
176.00	226.60	-49.10				55239	M	☑	
179.00	226.40	-49.10				55230.2	M	☑	
182.00	225.50	-49.00				55127.7	M	☑	
185.00	224.90	-49.10				55082.4	M	☑	
188.00	225.40	-49.10				55112.7	M	☑	
194.00	224.70	-49.00				55120.1	M	☑	
197.00	224.40	-48.90				55046.8	M	☑	
200.00	225.40	-48.80				55001.6	M	☑	
206.00	224.60	-48.70				56083.6	M	☑	
209.00	222.90	-48.70				55863.3	M	☑	
212.00	224.30	-48.60				56266.2	M	☑	
215.00	225.20	-48.90				56362.9	M	☑	
230.00	224.90	-48.70				55798.5	M	☑	
257.00	225.90	-48.70				55356.2	M	☑	

Density Tests

DRILL HOLE REPORT

Hole Number: **KER15-01** Project: **CHESTER 3B-JACK RABBIT** Project Number: **234**

Drilling		Casing		Core		Location		Other	
Azimuth:	225	**Length:**	7.5	**Dimension:**	NQ	**Claim No.:**	PAT-28520 & PAT28524	**Company:**	IAMGOLD
Dip:	-51	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	413	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Adam Waram
Started:	09-Dec-15	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	
Completed:	13-Dec-15	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	
Logged:	11-Jan-16	**Making water:**	no	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: Southeast extension of King Errington Main Zone and coincidental VLF-EM anomaly and down-dip ext

Comment: Designed to test SE extension (130m SW) of the King Errington Main Zone at depth with three discrete targets; 1) Historical drill hole K.E. 86-6 intersected numerous mineralized and brecciated zones in altered Chester granodiorite, highlighted by 2.3m of QV/QTSW hosting 3%-10% py-cpy and the last 6m ended in 1% to 5% py-cpy in a fractured diorite, 2) 2 strong VLF-EM anomalies coincidental to above, and 3) South Zone which consists of a 0.30m wide quartz-chalcopyrite vein which returned 0.25 g/t Au. 37.3 g/t Ag, and 5.84% Cu

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	434732	**East:**	434732	**East:**	0
North:	5269568	**North:**	5269568	**North:**	0
Elev.:	389	**Elev.:**	389	**Elev.:**	0

Deviation Tests

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
260.00	226.10	-48.50				55302.2	M	☑	
263.00	226.50	-48.70				55285.1	M	☑	
266.00	226.60	-48.30				55015.4	M	☑	
269.00	226.20	-48.50				55238.6	M	☑	
272.00	226.90	-48.20				55314.2	M	☑	
275.00	226.80	-48.20				55285.9	M	☑	
278.00	227.40	-48.20				55238.9	M	☑	
284.00	228.50	-48.10				56283	M	☑	
287.00	227.20	-48.20				55209	M	☑	
290.00	227.50	-48.20				55298.1	M	☑	
293.00	227.40	-48.00				55564.1	M	☑	
296.00	226.40	-48.30				55155.6	M	☑	
299.00	227.40	-48.20				55338.3	M	☑	
302.00	226.20	-47.90				56089.5	M	☑	
305.00	227.00	-48.10				55388.2	M	☑	
308.00	227.10	-47.80				55353.1	M	☑	

Density Tests

DRILL HOLE REPORT

Hole Number: **KER15-01** Project: **CHESTER 3B-JACK RABBIT** Project Number: **234**

Drilling		Casing		Core		Location		Other	
Azimuth:	225	**Length:**	7.5	**Dimension:**	NQ	**Claim No.:**	PAT-28520 & PAT28524	**Company:**	IAMGOLD
Dip:	-51	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	413	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Adam Waram
Started:	09-Dec-15	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	
Completed:	13-Dec-15	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	
Logged:	11-Jan-16	**Making water:**	no	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: Southeast extension of King Errington Main Zone and coincidental VLF-EM anomaly and down-dip ext

Comment: Designed to test SE extension (130m SW) of the King Errington Main Zone at depth with three discrete targets; 1) Historical drill hole K.E. 86-6 intersected numerous mineralized and brecciated zones in altered Chester granodiorite, highlighted by 2.3m of QV/QTSW hosting 3%-10% py-cpy and the last 6m ended in 1% to 5% py-cpy in a fractured diorite, 2) 2 strong VLF-EM anomalies coincidental to above, and 3) South Zone which consists of a 0.30m wide quartz-chalcopyrite vein which returned 0.25 g/t Au. 37.3 g/t Ag, and 5.84% Cu

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	434732	**East:**	434732	**East:**	0
North:	5269568	**North:**	5269568	**North:**	0
Elev.:	389	**Elev.:**	389	**Elev.:**	0

Deviation Tests

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
311.00	226.10	-48.00				55315.7	M	☑	
320.00	226.80	-48.00				55422.5	M	☑	
323.00	227.80	-47.70				55423.5	M	☑	
326.00	228.00	-47.60				55332	M	☑	
329.00	228.40	-47.60				55284.2	M	☑	
332.00	228.40	-47.40				55362.5	M	☑	
335.00	227.20	-47.80				55346.6	M	☑	
338.00	227.70	-47.60				55375.7	M	☑	
341.00	227.20	-47.50				55268.8	M	☑	
344.00	228.20	-47.50				55352.9	M	☑	
347.00	228.10	-47.40				55268.2	M	☑	
350.00	227.90	-47.30				55295.6	M	☑	
353.00	227.00	-47.70				55293.1	M	☑	
356.00	228.30	-47.50				55306.6	M	☑	
359.00	228.10	-47.40				55308.3	M	☑	
362.00	228.20	-47.40				55310.4	M	☑	

Density Tests

DRILL HOLE REPORT

Hole Number: **KER15-01** Project: **CHESTER 3B-JACK RABBIT** Project Number: **234**

Drilling		Casing		Core		Location		Other	
Azimuth:	225	**Length:**	7.5	**Dimension:**	NQ	**Claim No.:**	PAT-28520 & PAT28524	**Company:**	IAMGOLD
Dip:	-51	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	413	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Adam Waram
Started:	09-Dec-15	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	
Completed:	13-Dec-15	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	
Logged:	11-Jan-16	**Making water:**	no	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: Southeast extension of King Errington Main Zone and coincidental VLF-EM anomaly and down-dip ext

Comment: Designed to test SE extension (130m SW) of the King Errington Main Zone at depth with three discrete targets; 1) Historical drill hole K.E. 86-6 intersected numerous mineralized and brecciated zones in altered Chester granodiorite, highlighted by 2.3m of QV/QTSW hosting 3%-10% py-cpy and the last 6m ended in 1% to 5% py-cpy in a fractured diorite, 2) 2 strong VLF-EM anomalies coincidental to above, and 3) South Zone which consists of a 0.30m wide quartz-chalcopyrite vein which returned 0.25 g/t Au. 37.3 g/t Ag, and 5.84% Cu

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	434732	**East:**	434732	**East:**	0
North:	5269568	**North:**	5269568	**North:**	0
Elev.:	389	**Elev.:**	389	**Elev.:**	0

Deviation Tests

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
368.00	228.40	-47.40				55323.3	M	☑	
371.00	228.50	-47.30				55248.8	M	☑	
374.00	228.60	-47.30				55201.7	M	☑	
377.00	227.60	-47.50				55465.4	M	☑	
380.00	228.60	-47.30				55396	M	☑	
383.00	228.60	-47.30				55286.5	M	☑	
386.00	228.50	-47.30				55290.5	M	☑	
389.00	226.40	-47.40				55432.1	M	☑	
392.00	228.90	-47.40				55293.4	M	☑	
395.00	227.80	-47.60				55293.5	M	☑	
398.00	228.20	-47.30				55261.6	M	☑	
401.00	227.40	-47.60				55251.3	M	☑	
404.00	228.80	-47.20				55281.6	M	☑	
407.00	228.90	-47.40				55323.5	M	☑	
410.00	228.00	-47.50				55250.1	M	☑	
413.00	227.70	-47.50				55233.6	M	☑	

Density Tests

DRILL HOLE REPORT

Hole Number: **KER15-01** Project: **CHESTER 3B-JACK RABBIT** Project Number: **234**

Drilling		Casing		Core		Location		Other	
Azimuth:	225	**Length:**	7.5	**Dimension:**	NQ	**Claim No.:**	PAT-28520 & PAT28524	**Company:**	IAMGOLD
Dip:	-51	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	413	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Adam Waram
Started:	09-Dec-15	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	
Completed:	13-Dec-15	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	
Logged:	11-Jan-16	**Making water:**	no	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: Southeast extension of King Errington Main Zone and coincidental VLF-EM anomaly and down-dip ext

Comment: Designed to test SE extension (130m SW) of the King Errington Main Zone at depth with three discrete targets; 1) Historical drill hole K.E. 86-6 intersected numerous mineralized and brecciated zones in altered Chester granodiorite, highlighted by 2.3m of QV/QTSW hosting 3%-10% py-cpy and the last 6m ended in 1% to 5% py-cpy in a fractured diorite, 2) 2 strong VLF-EM anomalies coincidental to above, and 3) South Zone which consists of a 0.30m wide quartz-chalcopyrite vein which returned 0.25 g/t Au. 37.3 g/t Ag, and 5.84% Cu

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	434732	**East:**	434732	**East:**	0
North:	5269568	**North:**	5269568	**North:**	0
Elev.:	389	**Elev.:**	389	**Elev.:**	0

Deviation Tests ***Density Tests***

LITHOLOGY REPORT
- Detailed -

Hole Number **KER15-01** Project: **CHESTER 3B-JACK RABBIT** Project Number: **234**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
0.00	6.35	**Overburden** **OB** ***Overburden***	4	3	BR									
		Overburden - silty-sand soil with numerous boulders												
6.35	9.30	**Fresh Rock** **8C** ***Tonalite/Trondjhemite/Granodiorite***	1	1	GY									
		Granodiorite/Trondjhemite/Granodiorite - gray color, felsic to intermediate composition, weak to (moderate) cb with strong cb hairline fractures, 205 to 25% bluish gray fg to mg (<0.2 to 0.3 cm) sub-rounded tightly packed qe in a weak ser-chl interstitial matrix; sub-porphyritic texture, scattered hairline calcite fractures, non-foliated/sheared; occasional py < 1%												
		Contact - sharp contact 70 from C.A.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		6.35 - 9.30 CL IS 2 Chloritization, Interstitial, Weak												
		6.35 - 9.30 SR IS 2 Sericitization, Interstitial, Weak												
		6.35 - 9.30 CB FRC 4 Carbonatization, Along Fractures, Strong												
		6.35 - 9.30 CB DISS 2 Carbonatization, Disseminated, Weak to (9Moderate)												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		6.35 - 9.30 Py BLB 1 Pyrite, Blebs, 1%												
9.30	11.95	**Fresh Rock** **14B** ***Diabase***	1	1	BLK									
		Diabase Dyke - black to dark greenish black color, mafic composition with weak local calcite-rich cb, generally near calcite-chlorite fractures, vfg and msv/aphanitic, frequent randomly oriented calcite-chlorite fractures, occasional py < 1% and wk-moderately magnetic with up to 1% to 2% vfg magnetite.												

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
		Contact - sharp contact 65 from C.A.			
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***			
		9.30 - 11.95 CB FRC 4 Carbonatization, Along Fractures, Strong			
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***			
		9.30 - 11.95 Py BLB 1 Pyrite, Blebs, 1%			
11.95	44.00	**Fresh Rock** **8C** ***Tonalite/Trondjhemite/Granodiorite***	1	1	GY
		Tonalite/Trondjhemite/Granodiorite - gray to light greenish gray with local bleached white and pinkish red hues, felsic to intermediate in composition with local 20 cm bleached sil-(ab) with hem sections associated with scattered qs/qcs, 20% to 25% bluish gray fg to mg (up to 0.3 cm) rounded qe and increase in 15% to 25% fd towards 44.0, < 1% local rounded mafic xenolith up to 2 to 3 cm in size; weakly foliated 50 to 60 from C.A. as local shears, scattered qs/qcs (up to 10 cm wide) < 1% to local 10% 40 to 45 from C.A.			
		Mineralization - occasional py-cpy < 0.5% with local py and cpy from 21.9 to 22.3 (5% pyand 1%-2% cpy as fractureds associated with wk-mod sil, 2% cpy associated with 0.5 cm wide qcs at at 24.95			
		Contact - sharp sheared contact 60 from C.A.			
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***			
		11.95 - 44.00 AB BNDS 3 Albitization, Bands/Banded, Moderate to strong			
		11.95 - 44.00 SI BNDS 3 Silicification, Bands/Banded, Moderate to strong			
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***			
		11.95 - 21.90 Cpy BLB 1 Chalcopyrite, Blebs, 1%			
		11.95 - 21.90 Py BLB 1 Pyrite, Blebs, 1%			
		21.90 - 22.30 Cpy FAC 1 Chalcopyrite, Fracture-controlled, <1% to 2%			
		21.90 - 22.30 Py DIS 5 Pyrite, Disseminated, 5%			
		22.30 - 44.00 Cpy DIS 1 Chalcopyrite, Disseminated, <1%			
		22.30 - 44.00 Py DIS 1 Pyrite, Disseminated, <1%			

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
344609	13.70	14.70	1.00	<0	-	<0.01	-	-
344610	21.40	21.90	0.50	<0	-	<0.01	-	-
344611	21.90	22.30	0.40	0	-	0.06	-	-
344613	22.30	23.30	1.00	<0	-	<0.01	-	-
344614	23.30	24.30	1.00	<0	-	<0.01	-	-
344615	24.30	24.90	0.60	<0	-	<0.01	-	-
344616	24.90	25.20	0.30	<0	-	<0.01	-	-
344617	25.20	26.20	1.00	<0	-	<0.01	-	-
344618	26.20	27.20	1.00	<0	-	<0.01	-	-

Hole Number **KER15-01** Project: **CHESTER 3B-JACK RABBIT** Project Number: **234**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)

44.00 61.05 **Fresh Rock** **7C** ***Gabbro*** 1 1 GR

Gabbro - green to whitish green color, mafic composition being leucocratic with amp = fd with weak to (moderate) epidote and weak cb, increase in vfg white disseminated lx (5% to local 10%) from 54.5 to 59.2 and up to 15 to 2% tan lx at lower contact, mod to strong pervasive calcite-rich cb from 54.5 to 61.85.

- generally msv equigranular texture with bx and sh gabbroic wallrock at upper contact from 44.0 to 44.50, general increase in sh from 58.5 to 61.05 ranging 70 to 75 from C.A., scattered qcs/qs < 1% with increase to 5% qcs/cs parallel to sh from 58.5 to 61.05

Mineralization - occasionalbleb/spec of py < 0.5%, non-magnetic
Contact - sharp 85 from C.A.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
44.00 - 54.50	LX DISS 2	Leucoxene, Disseminated, Weak 95 to locally 10%); white in color with tan lx (1% to 2%)at lower contact
44.00 - 54.50	CB MX 2	Carbonatization, Matrix, Weak
44.00 - 54.50	EP DISS 2	Epidotization, Disseminated, Weak to (Moderate)
54.50 - 61.05	CB MX 2	Carbonatization, Matrix, Weak
54.50 - 61.05	LX DISS 2	Leucoxene, Disseminated, Weak
54.50 - 61.05	EP MX 2	Epidotization, Matrix, Weak
54.50 - 61.05	CB PV 3	Carbonatization, Pervasive, Moderate to Strong

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
44.00 - 61.05	Py BLB 1	Pyrite, Blebs, 1%

LITHOLOGY REPORT
- Detailed -

Hole Number **KER15-01** Project: **CHESTER 3B-JACK RABBIT** Project Number: **234**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
61.05	64.35	**Fresh Rock** **SH** ***Albite-Chlorite Shear/Shear Zone***	1	1	GY	344619	63.00	63.50	0.50	<0	-	<0.01	-	-
						344620	63.50	64.05	0.55	<0	-	<0.01	-	-
						344621	64.05	64.35	0.30	<0	-	<0.01	-	-

Albite-Chlorite Shear/Shear Zone - whitish gray to greenish-gray color, altered mafic composition with mod to strong albite-(chl-cb); strong sh/bnded texture with alternating ab-rich and chl-cb bnds/lam with chl-cb forming as interstitial; strongly sheared 60 to 86 from C.A., scattered qs/qfs-(qcs) up to 1% to 3% parallel to shearing

Mineralization - occasional bleb of py < 0.5%
Contact - sharp increase in qfs/qs

Alteration Maj:	*Type/Style/Intensity*	*Comment*
61.05 - 64.35	CB BNDS 2	Carbonatization, Bands/Banded, Weak
61.05 - 64.35	CL BNDS 2	Chloritization, Bands/Banded, Weak
61.05 - 64.35	AB BNDS 3	Albitization, Bands/Banded, Moderate to Strong

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
61.05 - 64.35	Py BLB 1	Pyrite, Blebs, <1% occasional

64.35	65.70	**Fresh Rock** **QTS W** ***Quartz-Feldspar Stockwork***	1	1	GY	344622	64.35	64.90	0.55	<0	-	<0.01	-	-
						344623	64.90	65.35	0.45	<0	-	<0.01	-	-
						344625	65.35	65.70	0.35	<0	-	<0.01	-	-

Quartz-Feldspar Stockwork - gray, grayish-white, and white color, strongly sheared and banded texture with strong ab-si; white bands in form of quartz-felspar alteration or veins (up to 3 to 6 cm wide) trending 80 to 90 from C.A.; host in sil granodiorite with relict qe-fd phenocrysts, strongly sheared, fractured texture with 30% to 35% qfs/qs; local weak cb.

Mineralization - widely scattered vfg py <1%
Contact - sharp, sheared and broken contact

Alteration Maj:	*Type/Style/Intensity*	*Comment*
64.35 - 65.70	SI BNDS 4	Silicification, Bands/Banded, Strong sh and bnded
64.35 - 65.70	AB BNDS 4	Albitization, Bands/Banded, Strong sh and bnded

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
64.35 - 65.70	Py BLB 1	Pyrite, Blebs, <1% widely scattered

LITHOLOGY REPORT
- Detailed -

Hole Number **KER15-01** Project: **CHESTER 3B-JACK RABBIT** Project Number: **234**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
65.70	70.35	**Fresh Rock** **SH** ***Albite-Silicified Shear/Shear Zone***	1	1	GY	344626	65.70	66.80	1.10	<0	-	<0.01	-	-
		Albite-Silicified Shear/Shear Zone - light gray to greenish gray color, altered mafic composition with moderate to strong shear controlled ab-(sil) with weak cb; strongly sheared and locally banded 70 to 75 from C.A., scattered to locally numerous qfs/qfv/qcs up to 5 cm wide rangong 75 to 85 from C.A.……5% to 65% with increase 60% to 65% qfs/qfv from 69.0 to 69.35.				344627	66.80	68.00	1.20	<0	-	<0.01	-	-
						344628	68.00	69.00	1.00	<0	-	<0.01	-	-
						344629	69.00	69.35	0.35	<0	-	<0.01	-	-
		Mineralization - occassional to disseminated vfg to fg < 1% to 10% py-(cpy) with increased py (5% to 10%), 2% cpy, and up to 1% aspy at lower contact from 69.85 to 70.35				344630	69.35	69.85	0.50	0	-	0.01	-	-
		Contact - sharp irregular contact 25 from C.A.				344631	69.85	70.35	0.50	0	-	0.01	-	-
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		65.70 - 70.35 SI BNDS 2 Silicification, Bands/Banded, Weak												
		65.70 - 70.35 AB BNDS 3 Albitization, Bands/Banded, Moderate												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		65.70 - 69.85 Py BLB 1 Pyrite, Blebs, <1% occasional												
		69.85 - 70.35 Aspy DIS 1 Arsenopyrite, Disseminated, up to 1%												
		69.85 - 70.35 Cpy DIS 2 Chalcopyrite, Disseminated, 2%												
		69.85 - 70.35 Py DIS 7 Pyrite, Disseminated, 5% to 10%												
70.35	80.80	**Fresh Rock** **8C** ***Silicified Tonalite/Trondjhemite/Granodi***	1	1	WH	344632	70.35	71.30	0.95	0	-	0.04	-	-
		Silicified Tonalite/Trondjhemite/Granodiorite - bleached whitish gray to grayish-white color, strongly pervasive sil with intense sil with hem dusting from 76.4 to 80.8 and numerous irregularly oriented chl-cb-sil hairline fractures (20%), scattered to disseminated packed fg to mg (up to 0.3 cm) bluish gray qe and fd (20% to 30%).				344633	71.30	72.30	1.00	<0	-	<0.01	-	-
						344634	76.35	76.85	0.50	<0	-	<0.01	-	-
						344635	76.85	77.05	0.20	0	-	0.29	-	-
		- relict porphyritic texture, numerous thin irregular thin hairline fractures throughout the entire interval, occasional qs up to 1 cm wide with increased qs 10% to 15% from 76.85 to 77.05 60 to 65 from C.A.				344637	77.05	77.55	0.50	<0	-	<0.01	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)

Mineralization - occasiona py < 1% with increased sulphide with 10% py and up to 1% cpy and < 1% aspy from 76.85 to 55.05 associated with 10% to 15% qs
Contact - sharp contact 52 from C.A.

Alteration Maj:	Type/Style/Intensity	Comment
70.35 - 80.80	HM MX 3	Hematization, Matrix, Moderate hem dusting from 76.4 to 80.8
70.35 - 80.80	CB FRC 3	Carbonatization, Along Fractures, Moderate
70.35 - 80.80	CL FRC 4	Chloritization, Along Fractures, Strong
70.35 - 80.80	SI PV 4	Silicification, Pervasive, Strong

Mineralization Maj. :	Type/Style/%Mineral	Comment
70.35 - 76.85	Py BLB 1	Pyrite, Blebs, <1% occasional
76.85 - 77.05	Aspy BLB 1	Arsenopyrite, Blebs, <1%
76.85 - 77.05	Cpy DIS 1	Chalcopyrite, Disseminated, up to 1% associated with10% to 15% qs
76.85 - 77.05	Py DIS 10	Pyrite, Disseminated, 10% associated with 10% to 15% qs

80.80 88.75 **Fresh Rock** **14B** ***Diabase*** 1 1 GREBL

Diabase - greenish black to black color, mafic composition being vfg and aphanitic with vfg ophitic texture of calcic-plagiocalse and pyroxene, massive and broken towards lower contact, occasional qcs < 1%; occasional py < 1% and moderate to strong magnetite (2% to 4%)

Contact - sharp contact 89 from C.A.

Mineralization Maj. :	Type/Style/%Mineral	Comment
80.80 - 88.75	Py BLB 1	Pyrite, Blebs, <1% occasional

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
88.75	91.05	**Fresh Rock** **SH** ***Chlorite-Carbonate-Albite Shear/Shear***	1	1	GREBL									
91.05	109.10	**Fresh Rock** **4I** ***Felsic Crystal Tuff/Quartz Porphyry***	1	1	GY	344638	94.80	95.35	0.55	0	-	0.04	-	-
						344639	95.35	95.85	0.50	0	-	0.03	-	-
						344640	95.85	96.15	0.30	0	-	0.02	-	-
						344641	96.15	97.00	0.85	<0	-	<0.01	-	-
						344642	97.00	98.00	1.00	<0	-	<0.01	-	-
						344643	102.50	103.50	1.00	0	-	0.01	-	-
						344644	103.50	104.10	0.60	0	-	0.01	-	-
						344645	104.10	104.60	0.50	<0	-	<0.01	-	-

Chlorite-Carbonate-Albite Shear/Shear Zone - dark greenish black to dark gray colors, mod to strong chl with wk cb and local banded mod-strong ab-(sil) from 88.75 to 89.7 with brownish-red sheared muscovite/ankerite?? (5% to 10% as wispy bands); strongly sheared and banded texture 75 to 85 from C.A., occasional to scattered qcs < 1%; occasional py < 1%. Contact - sharp contact 60 from C.A.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
88.75 - 89.70	SI BNDS 3	Silicification, Bands/Banded, Moderate, local
88.75 - 89.70	AB BNDS 3	Albitization, Bands/Banded, Moderate; local
88.75 - 89.70	CB MX 2	Carbonatization, Matrix, Weak
88.75 - 89.70	CL MX 3	Chloritization, Matrix, Moderate to Strong
89.70 - 91.05	CB MX 1	Carbonatization, Matrix, Very weak
89.70 - 91.05	CL MX 3	Chloritization, Matrix, Moderate

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
88.75 - 91.05	Py BLB 1	Pyrite, Blebs, <1% occasional

Felsic Crystal Tuff/Quartz Porphyry - light greenish-gray color, felsic composition with moderate interstitial sericite and weak cb, strong pervasive sil from 104.1 to 105.55, 25% to 25% vfg to fg (up to 0.10 cm im size) qtz xtls in a mod altered ser matrix.; crystal-rich tuffaceous fragmental texture, weakly foliated/sheared 50 to 90 from C.A., scattered thin qs/qfs/qcs up to 30 cm wide 50 to 70 from C.A. - local concentration 5% to 10%

Mineralization - occasional to widely scattered < 1% to 2% py as disseminated and fracture-fill with < 1% po-cpy-(aspy??)
Contact - sharp, sheared with 0.70 cm wide qs 79 from C.A.

Alteration Maj:	***Type/Style/Intensity***	***Comment***

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From (m)	To (m)		Lithology		Weathering	Oxidation	Colour
		91.05 - 104.10	CB MX 2	Carbonatization, Matrix, Weak			
		91.05 - 104.10	SR IS 3	Sericitization, Interstitial, Moderate			
		104.10 - 105.55	SI PV 4	Silicification, Pervasive, Strong			
		105.55 - 109.10	CB MX 2	Carbonatization, Matrix, Weak			
		105.55 - 109.10	SR IS 3	Sericitization, Interstitial, Moderate			
		Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***			
		91.05 - 109.10	Py FAC 1	Pyrite, Fracture-controlled, <1%			
109.10	109.90	**Fresh Rock**	**SH**	***Silicified-Albitized-Chlorite-(Carbonate)***	1	1	LGR

Silicified-Albitized-Chlorite-(Carbonate) Shear/Shear Zone - light green, greenish-gray, and gray color, varibaly altered in banded form with sil-ab-chl-(cb) alteration…unknown protolith; strongly sh and banded 80 to 90 from C.A., numerous folds and contorted bands with box fold at 109.4 0 from C.A. with assymmetrical Z-shape parasitic fold/limbs 40 from C.A., 5% to 20% qs/qfs/qcs up to 3.5 cm wide parallel to banding.

Mineralization - up to 1% to 2% scattered to disseminated vfg py with < 0.5% aspy and massive po seam at lower contact
Contact - sharp, sheared contact 90 from C.A. with msv po seam up to 0.5 cm wide

Alteration Maj:	***Type/Style/Intensity***	***Comment***
109.10 - 109.90	CB BNDS 3	Carbonatization, Bands/Banded, Variable Moderate
109.10 - 109.90	CL BNDS 3	Chloritization, Bands/Banded, Variable Moderate
109.10 - 109.90	AB BNDS 3	Albitization, Bands/Banded, Variable Moderate
109.10 - 109.90	SI BNDS 3	Silicification, Bands/Banded, Variable Moderate

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
109.10 - 109.90	Aspy BLB 1	Arsenopyrite, Blebs, <1% occasional
109.10 - 109.90	Py DIS 1	Pyrite, Disseminated, 1% to 2%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
344646	104.60	105.55	0.95	0	-	0.01	-	-
344647	105.55	106.50	0.95	0	-	0.05	-	-
344649	106.50	107.00	0.50	0	-	0.02	-	-
344650	107.00	107.50	0.50	0	-	0.01	-	-
344651	107.50	108.00	0.50	0	-	0.01	-	-
344652	108.00	108.50	0.50	0	-	0.01	-	-
344653	108.50	109.10	0.60	0	-	0.01	-	-
344654	109.10	109.50	0.40	0	-	0.19	-	-
344655	109.50	109.90	0.40	0	-	0.02	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
109.90	112.40	**Fresh Rock** **8C** ***Silicified Tonalite/Trondjhemite/Granodi***	1	1	GY	344656	109.90	111.00	1.10	0	-	0.01	-	-
						344657	111.00	112.00	1.00	0	-	0.01	-	-
						344658	112.00	112.40	0.40	0	-	0.01	-	-

Silicified Tonalite/Trondjhemite/Granodiorite - bleached grayish white and gray colors, altered felsic composition with moderate to strong pervasive sil-(ab?) with intense sil associated with numerous hairline fractures/fracture clvg at upper interval from 109.9 to 111.0; wk sh with local sh fractures 55 and 78 from C.A., numerous hairline fractures at upper contact from 109.9 to 111.0 decreasing to 112.4, occasional qs/qfs/qcs < 1%.

Mineralization - < 1% to 2% scattered vfg disseminated and fracture-fill py>po with occasional cpy < 0.5%
Contact - sharp contact 57 from C.A.

Alteration Maj:	Type/Style/Intensity	Comment
109.90 - 112.40	SI FRC 4	Silicification, Along Fractures, Strong
109.90 - 112.40	AB PV 2	Albitization, Pervasive, Weak
109.90 - 112.40	SI PV 3	Silicification, Pervasive, Moderate to Strong

Mineralization Maj. :	Type/Style/%Mineral	Comment
109.90 - 112.40	Po DIS 1	Pyrrhotite, Disseminated, <1%
109.90 - 112.40	Py DIS 2	Pyrite, Disseminated, < 1% to 2%

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
112.40	113.40	**Fresh Rock** **7C** ***Gabbro***	1	1	DGR	344659	112.40	113.40	1.00	<0	-	<0.01	-	-

Gabbro - dark green and dark grayish green color, mafic composition being melanocratic with moderate chl and weak cb, vfg and massive, < 1% qcs; < 1% py and non-magnetic

Contact - sharp sheared contact 70 from C.A.

Alteration Maj:	Type/Style/Intensity	Comment
112.40 - 113.40	CB MX 2	Carbonatization, Matrix, Weak
112.40 - 113.40	CL MX 3	Chloritization, Matrix, Moderate

Mineralization Maj. :	Type/Style/%Mineral	Comment
112.40 - 113.40	Py BLB 1	Pyrite, Blebs, <1%

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
113.40	122.70	**Fresh Rock** **8C** ***Tonalite/Trondjhemite/Granodiorite (QP***	1	1	GY

Tonalite/Trondjhemite/Granodiorite (QP) - gray to light gray, and bleached grayish white sections, overall felsic composition with local sections of moderate to strong sil in matrix from 113.4 to 114.5 associated with sulphides and strong and intense pervasive ab>sil from 115.55 to 116.5 with gradational contacts, generally 20% to 35% fg to cg (<0.4 cm in size) sub-elliptical to rounded bluish-gray qe in a ser-(chl) matrix with chl increasing towards 122.7.

- porphyritic texture with strong obliteration of texture in intense ab section from 115.55 to 116.5, <1% to locaL10% qs up 3 cm wide, weakly foliated/sheared 50 to 60 from C.A.

Mineralization - generally <1% py-(cpy-aspy-po) with increase in sulphides at upper contact between 113.4 to 114.5 associated with mod sil of matrix and 1% to 2% qs, section varies 3% to 10% disseminated py with < 1% cpy-aspy-po assocated with increased sulphides (5% to 10%) assocated and within 1% to 2% qs

Contact - sharp contact 60 from C.A. with 4 cm wide qs

Alteration Maj:	*Type/Style/Intensity*	*Comment*
113.40 - 114.50	SI PV 4	Silicification, Pervasive, Moderate to Strong associated with increase py
115.55 - 116.50	SI PV 3	Silicification, Pervasive, Moderate
115.55 - 116.50	AB PV 4	Albitization, Pervasive, Strong

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
113.40 - 114.50	Aspy BLB 1	Arsenopyrite, Blebs, <1%
113.40 - 114.50	Po BLB 1	Pyrrhotite, Blebs,<1%
113.40 - 114.50	Cpy BLB 1	Chalcopyrite, Blebs, <1%
113.40 - 114.50	Py DIS 7	Pyrite, Disseminated, 3% to 10%
114.50 - 122.70	Cpy BLB 1	Chalcopyrite, Blebs, <1% occasional
114.50 - 122.70	Py BLB 1	Pyrite, Blebs, <1% occasional

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
344661	113.40	114.00	0.60	0	-	0.03	-	-
344662	114.00	114.50	0.50	0	-	0.08	-	-
344663	114.50	115.00	0.50	0	-	0.01	-	-
344664	115.00	115.55	0.55	<0	-	<0.01	-	-
344665	115.55	116.50	0.95	<0	-	<0.01	-	-
344666	116.50	117.30	0.80	<0	-	<0.01	-	-
344667	117.30	118.20	0.90	<0	-	<0.01	-	-
344668	118.20	119.20	1.00	<0	-	<0.01	-	-
344669	119.20	120.10	0.90	0	-	0.01	-	-
344670	120.10	120.70	0.60	0	-	0.01	0.01	-

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
Minor Interval:														
120.10	120.70	Fresh Rock 4I *Felsic Crystal Tuff*		1										
		Felsic Crystal Tuff - creamy white color, altered felsic composition with strong sil cherty altered matrix about 10% to 20% vfg to fg (up to 0.1 cm) broken, sub-rounded to sub-angular quartz xtls fragments, mod sh 70 to 75 from C.A., <15 qs, < 1% py with local py (2%-3%) at lower contact; sharp uppe contact 70 from C.A. and lower contact at 61 from C.A.												
122.70	132.90	**Fresh Rock 7Cm *Melanocratic Gabbro***	1	1	DGR	344671	125.90	127.00	1.10	<0	-	<0.01	-	-
		Melanocratic Gabbro - dark green to green color, mafic composition being melanocratic with amp-chl>fd, mod chl alteration of amp with moderate to strong pervasive calcite-rich cb of matrix; massive appearance with increased grain size from upper and lower contact to middle section; scattered qcs (<0.5 to 1 cm wide) < 1% to locally 5%; widely scattered py < 1% with local sections showing 1% to 2% vfg disseminated py; moderately magnetic with 2% to 4% vfg black magnetite.												
		Contact - sharp contact 60 from C.A.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		122.70 - 132.90 CB MX 3 Carbonatization, Matrix, Moderate to Strong												
		122.70 - 132.90 CL MX 3 Chloritization, Matrix, Moderate												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		122.70 - 132.90 Py BLB 1 Pyrite, Blebs, <1% with local 1%												

Hole Number **KER15-01** Project: **CHESTER 3B-JACK RABBIT** Project Number: **234**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
132.90	163.35	**Fresh Rock** **8C** ***Tonalite/Trondjhemite/Granodiorite***	1	1	GY

Tonalite/Trondjhemite/Granodiorite - gray to light gray color, felsic composition with variable local wk to moderate ser-sil-cb about 25% to 35% fg to cg (<0.2 to 0.4 cm in size) sub-rounded to sub-elliptical tightly packed bluish gray quartz eyes in a weak to locally moderate ser-(cb) interstitial matrix (network shape).

- porphyritic texture, widely scattered randonmly oriented cb hairline fractures and < 1% qcs/qs/shear fractures, local and scattered wek to strong fracture cleavage trending 52 to 73 from C.A., sh fractures up to 5 cm wide and are ser-cb altered with or without qs/qcs.

Mineralization - occasional to widely scattered py-po-cpy generally as thin discontinuous fractures < 1% sulphide, slight increase in sulphide 1% to 2% po-(py-cpy) from 162.0 to 163.35 towards lower contact with po occurring as disseminations and fracturefilling with py-cpy fracture-filling, increase in po towards lower contact.

Contact - sharp contact 65 from C.A. with 0.5 cm wide quartz-felspar veinlet

Alteration Maj:	***Type/Style/Intensity***	***Comment***
132.90 - 163.35	CB IS 1	Carbonatization, Interstitial, Very weak
132.90 - 163.35	SI IS 2	Silicification, Interstitial, Weak
132.90 - 163.35	SR IS 2	Sericitization, Interstitial, Weak to Moderate

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
132.90 - 162.00	Cpy FAC 1	Chalcopyrite, Fracture-controlled, <1%
132.90 - 162.00	Po FAC 1	Pyrrhotite, Fracture-controlled, <1%
132.90 - 162.00	Py FAC 1	Pyrite, Fracture-controlled, <1%
162.00 - 163.35	Cpy BLB 1	Chalcopyrite, Blebs, <1%
162.00 - 163.35	Py DIS 1	Pyrite, Disseminated, <1%
162.00 - 163.35	Po DIS 1	Pyrrhotite, Disseminated, 1% to 2% also as fracture-filling

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
344673	132.90	134.00	1.10	0	-	0.01	-	-
344674	134.00	135.00	1.00	0	-	0.01	-	-
344675	135.00	135.50	0.50	0	-	0.01	-	-
344676	143.00	144.00	1.00	0	-	0.01	-	-
344677	144.00	145.00	1.00	0	-	0.02	-	-
344678	145.00	146.00	1.00	<0	-	<0.01	-	-
344679	146.00	147.00	1.00	<0	-	<0.01	-	-
344680	147.00	148.00	1.00	<0	-	<0.01	-	-
344681	148.00	149.00	1.00	<0	-	<0.01	-	-
344682	157.00	158.00	1.00	<0	-	<0.01	-	-
344683	158.00	159.00	1.00	0	-	0.01	-	-
344685	159.00	160.00	1.00	<0	-	<0.01	-	-
344686	160.00	161.00	1.00	0	-	0.01	-	-
344687	161.00	162.00	1.00	0	-	0.03	-	-
344688	162.00	163.00	1.00	0	-	0.02	-	-
344689	163.00	163.35	0.35	0	-	0.03	-	-

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From (m)	To (m)	Lithology			Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
163.35	163.90	**Fresh Rock**	**QTS W**	***Quartz-Feldspar Stockwork***	1	1	GY	344690	163.35	163.90	0.55	2	-	1.80	-	-

Quartz-Feldspar Stockwork - bleached grayish white, light gray, and white colors, strongly siicifiedl-albitized wallrock, wallrock textures are obliteration and vfg/cherty-like; crosscut by numerous qfs/qs (40% to 45%) ranging < 1 cm to 9 cm in width giving this section a banded appearance; vfg disseminated (minor fracture-filling) 5% po with local 30% to 40% po in altered wr, < 1% py-cpy.

Contact - sharp contact with 3 cm wide QS 18 from C.A.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
163.35 - 163.90	AB PV 4	Albitization, Pervasive, Strong
163.35 - 163.90	SI PV 4	Silicification, Pervasive, Strong

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
163.35 - 163.90	Po DIS 5	Pyrrhotite, Disseminated, 5% with local 30% to 40%; also as fracture-filling

163.90	168.10	**Fresh Rock**	**8C**	***Silicified-Albitized Tonalite/Trondjhemit***	1	1	BE	344691	163.90	164.50	0.60	<0	-	<0.01	-	-
								344692	164.50	165.50	1.00	0	-	0.01	-	-
								344693	165.50	165.85	0.35	1	-	0.78	-	-
								344694	165.85	166.55	0.70	0	-	0.01	-	-
								344695	166.55	167.00	0.45	0	-	0.03	-	-
								344697	167.00	167.50	0.50	0	-	0.01	-	-
								344698	167.50	168.10	0.60	0	-	0.01	-	-

Silicified-Albitized Tonalite/Trondjhemite/Granodiorite - bleached dirty beige gray to light gray colors, strong intense and pervasive sil-ab (cherty-like)of wallrock with relict qtz phenocrysts….alteration occurs as bands and a pervasive flooding of altered wallrock matrix, vfg and msv appearance with all textures being obliterated, scattered to frequent (locally numerous) sulphide (po-py-cpy) and quartz-sulphide fractures ranging 65 to 73 from C.A. with local variations, more intense sulphide (cpy-py-po) fractures from 165.5 to 165.85 with 3% to 5% cpy fractures and numerous py-po fractures (3% to 5%).….associated with 5% to 10% fractures and local 10% quartz-chalcopyrite stringer up to 2 cm.

Contact - sharp contact 50 from C.A. with 5 cm wide qfs

Alteration Maj:	***Type/Style/Intensity***	***Comment***
163.90 - 168.10	AB PV 5	Albitization, Pervasive, Intense
163.90 - 168.10	SI PV 5	Silicification, Pervasive, Intense

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
163.90 - 165.50	Py FAC 5	Pyrite, Fracture-controlled,<1% to 10%, also as diss.

From (m)	To (m)		Lithology		Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		163.90 - 165.50	Po FAC 5	Pyrrhotite, Fracture-controlled, <1% to 10%; also as diss.												
		165.50 - 165.85	Cpy FAC 3	Chalcopyrite, Fracture-controlled, 3% to 5%												
		165.85 - 168.10	Py FAC 1	Pyrite, Fracture-controlled, <1% to 10%, also as diss.												
		165.85 - 168.10	Po FAC 1	Pyrrhotite, Fracture-controlled, <1% to 10%; also as diss.												
168.10	171.65	**Fresh Rock**	**8C**	***Tonalite/Trondjhemite/Granodiorite***	1	1	GY	344699	168.10	169.00	0.90	0	-	0.02	0.01	-
								344700	169.00	170.00	1.00	0	-	0.41	-	-
								344701	170.00	170.90	0.90	<0	-	<0.01	-	-
								344702	170.90	171.65	0.75	<0	-	<0.01	-	-

Tonalite/Trondjhemite/Granodiorite - gray to light gray color, felsic composition with weak sil-ser-cb with gradual increase in mod sil-ser from 170.0 to 171.65 towards the lower contact, 15% to 25% fg to mg bluish gray qe; porphyritic texture, non-foliated/sheared with widely scattered qfs/qs (up to 5 cm wide) ranging < 1% to locally 10%.

Mineralization - widely scattered to patchy < 1% to 2% (average of 1%) occurring as disseminated grains in matrix, < 0.5% cpy
Contact - sharp contact 52 from C.A. with 1 cm qfs with micro-fault graben box fold 0 from C.A.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
168.10 - 170.00	CB IS 2	Carbonatization, Interstitial, Weak
168.10 - 170.00	SR IS 2	Sericitization, Interstitial, Weak
168.10 - 170.00	SI IS 2	Silicification, Interstitial, Weak
170.00 - 171.65	SR IS 3	Sericitization, Interstitial, Moderate
170.00 - 171.65	SI IS 3	Silicification, Interstitial, Moderate

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
168.10 - 171.65	Py BLB 1	Pyrite, Blebs, 1% widely scattered
168.10 - 171.65	Po BLB 1	Pyrrhotite, Blebs, 1% widely scattered

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From (m)	To (m)	Lithology			Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
171.65	172.45	**Fresh Rock**	**QTS W**	***Quartz Stockwork***	1	1	WH	344703	171.65	171.90	0.25	0	-	0.01	-	-
								344704	171.90	172.45	0.55	0	-	0.02	-	-

Quartz Stockwork - bleached grayish white, white, and dirty beige gray color, strong to locally intense bleached white ab-sil alteration with mod ser and wk cb, upper interval from 171.65 to 171.9 has strong cherty-like ab-sil alteration of matrix associated with numerous cross-cutting po fractures; diffuse bnded interval 70 to 90 from C.A, 20% qcs up to 10 cm wide forming lower contact.

Mineralization - numerous 10% thin msv po fractures with up to 1% py and <1% cpy from 171.65 to 171.9 associated with strong msv cherty-like ab-sil alteration, remaining section up to 1% scattered py>po

Contact - Sharp sh contact 58 from C.A.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
171.65 - 172.45	CB MX 2	Carbonatization, Matrix, Weak
171.65 - 172.45	SR MX 3	Sericitization, Matrix, Moderate
171.65 - 172.45	SI BNDS 4	Silicification, Bands/Banded, Strong
171.65 - 172.45	AB BNDS 4	Albitization, Bands/Banded, Strong
Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
171.65 - 171.90	Cpy BLB 1	Chalcopyrite, Blebs, <1%
171.65 - 171.90	Py FAC 1	Pyrite, Fracture-controlled, up to 1%
171.65 - 171.90	Po FAC 10	Pyrrhotite, Fracture-controlled, 10%
171.90 - 172.45	Po BLB 1	Pyrrhotite, Blebs,<1%
171.90 - 172.45	Py DIS 1	Pyrite, Disseminated, up to 1%

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
172.45	180.20	**Fresh Rock** **7C** ***Gabbro***	1	1	GR

Gabbro - green to grayish green color, mafic composition with weak to moderate chl and variable wk to mod/strong calcite-rich cb with gradual increase in cb towards 180.2; vfg and massive to weakly sh/foliated 43 to 58 from C.A., widely scatterd qfs/qs/qcs up to 9 cm wide, ranging < 1% to locally 55 to 12% qfs/qs from 173.0 to 175.0

Mineralization - widely scattered to weakly disseminated vfg to fg py ranging from < 1% to locally 3%
Contact - sharp contact 65 from C.A.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
172.45 - 180.20	CB PV 2	Carbonatization, Pervasive, Variable Weak to Strong towards 180.2
172.45 - 180.20	CL MX 2	Chloritization, Matrix, Weak to Moderate

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
172.45 - 180.20	Py BLB 1	Pyrite, Blebs, < 1% to locally 3%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
344705	172.45	173.00	0.55	<0	-	<0.01	-	-
344706	173.00	174.00	1.00	<0	-	<0.01	-	-
344707	174.00	175.00	1.00	0	-	0.03	-	-
344709	175.00	176.00	1.00	0	-	0.01	-	-
344710	176.00	177.00	1.00	0	-	0.02	-	-
344711	177.00	178.00	1.00	0	-	0.02	-	-
344712	178.00	179.00	1.00	0	-	0.01	-	-
344713	179.00	180.20	1.20	<0	-	<0.01	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
180.20	186.05	**Fresh Rock** **8C** ***Tonalite/Trondjhemite/Granodiorite***	1	1	GG

Tonalite/Trondjhemite/Granodiorite (QFP) xcut by Gabbro Dykes - greenish gray to grayish green and black/dark green colors, felsic to intermediate composition with 20% to 25% fg to mg (<0.2 to 0.3 cm in size) bluish gray qe in a more chl interstitial matrix, 15% to 20% fg to cg albitic fd phenocrysts; porphyritic texture, chl sh bands and locally mod sh 52 to 60 from C.A., occasional qs < 1% up to 2 cm wide.

184.4 to 184.5 - Gabbro Dyke - blackish gray color, mafic composition being vfg and aphanitic, msv chilled dyke occupying chl shear at upper contact, < 1% qs and py and non-magnetic, sharp irregular contacts 30 to 50 from C.A.

184.95 to 185.4 - Gabbro Dyke - similar to description in section from 184.4 to 184.5 with sharp irregular contacts 0 to 90 from C.A.

Mineralization - occassional to scattered cg py cubes associated with local qs < 0.5% with slight increase in py <1% at both upper and lower contact areas

Alteration Maj:	***Type/Style/Intensity***	***Comment***

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
344714	180.20	181.00	0.80	0	-	0.01	-	-
344715	181.00	182.00	1.00	0	-	0.01	-	-

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		180.20 - 186.05 CB IS 1 Carbonatization, Interstitial, Very weak												
		180.20 - 186.05 SR IS 2 Sericitization, Interstitial, Weak												
		180.20 - 186.05 CL IS 3 Chloritization, Interstitial, Moderate												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		180.20 - 186.05 Py BLB 1 Pyrite, Blebs, <1% occasional												
Minor Interval:														
184.40	184.50	Fresh Rock 7C *Gabbro*		1										
		Gabbro Dyke - blackish gray color, mafic composition being vfg and aphanitic, msv chilled dyke occupying chl shear at upper contact, < 1% qs and py and non-magnetic, sharp irregular contacts 30 to 50 from C.A.												
Minor Interval:														
184.95	185.40	Fresh Rock 7C *Gabbro*		1										
		Gabbro Dyke - similar to description in section from 184.4 to 184.5 with sharp irregular contacts 0 to 90 from C.A.												
186.05	188.85	**Fresh Rock 7C *Gabbro***	1	1	GREBL	344716	188.00	188.85	0.85	0	-	0.01	-	-
		Gabbro - dark green to greenish black color, mafic composition being melanocratic (amp-chl>fd) with very weak cb in matrix, vfg and massive and weakly sheared 65 to 70 from C.A., occasional qcs < 1%; occasional wto scattered py cubes < 1% with increased py at lower contact up to 1%												
		Contact - gradational decrease in grain size to 188.85 and sh sharp contact 70 from C.A.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		186.05 - 188.85 CB MX 1 Carbonatization, Matrix, Very weak												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		186.05 - 188.85 Py BLB 1 Pyrite, Blebs, <1% occasional												

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
188.85	200.45	**Fresh Rock** **8C** ***Tonalite/Trondjhemite/Granodiorite***	1	1	GY

Tonalite/Trondjhemite/Granodiorite (QFP) - similar in description to section from 180.2 to 186.05 with….

1) increased hem stain and numerous chl fracturing from 196.45 to 200.45

197.60 198.35 - Gabbro Dyke - blackish green color, mafic composition with mod chl, vfg and aphanitic, wk sh 80 to 90 from C.A., < 1% qcs, scattered 1% vfg to fg py, non-magnetic, sharp upper contact 60 from C.A. and lower contact 58 from C.A.

Contact - sharp contact 45 from C.A.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
196.45 - 200.45	CL FRC 4	Chloritization, Along Fractures, Strong
196.45 - 200.45	HM MX 3	Hematization, Matrix, Moderate

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
188.85 - 200.45	Py BLB 1	Pyrite, Blebs, <1% occasional

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
344717	188.85	190.00	1.15	0	-	0.01	-	-
344718	190.00	191.00	1.00	0	-	0.01	-	-
344719	191.00	192.00	1.00	0	-	0.01	-	-
344721	192.00	193.00	1.00	0	-	0.01	-	-
344722	193.00	194.00	1.00	0	-	0.01	-	-
344723	194.00	195.00	1.00	0	-	0.02	-	-

Minor Interval:

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
197.60	198.35	Fresh Rock 7C *Gabbro*		1	

Gabbro Dyke - blackish green color, mafic composition with mod chl, vfg and aphanitic, wk sh 80 to 90 from C.A., < 1% qcs, scattered 1% vfg to fg py, non-magnetic, sharp upper contact 60 from C.A. and lower contact 58 from C.A.

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
200.45	201.20	**Fresh Rock** **7C** ***Gabbro***	1	1	GREBL

Gabbro - similar in description to section from 186.05 to 188.85 with….

Contact - sharp irregular contact with chill zone of diabase 90 from C.A.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
200.45 - 201.20	CB MX 2	Carbonatization, Matrix, Weak

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)

Mineralization Maj. :	Type/Style/%Mineral	Comment
200.45 - 201.20	Py BLB 1	Pyrite, Blebs, <1% occasional

201.20 229.05 **Fresh Rock** **14C** ***Biscotasing Diabase Dyke*** 1 1 DGR

Biscotasing Diabase Dyke - dark green to blackish green color, mafic composition with 15% to 25% vfg to mg (<0.3 cm) plagioclase in a vfg amp-(bio-fd) matrix, weak cb and ep; sub-porphyritic texture with gradual coarsening of grain size from 212.0 to 229.05 giving a porphyritic appearance, < 1% qcs/qs, broken core from 203.0 to 210.0; occasional py < 1% and weakly magnetic with 1% to 2% vfg scattered magnetite.

Contact - upper contact chill zone from 201.2 to 201.65 being strongly magnetic and sharp lower contact 51 from C.A.; Matachewan xcutting and younger than Biscotasing diabase

Alteration Maj:	Type/Style/Intensity	Comment
201.20 - 229.05	EP MX 2	Epidotization, Matrix, Weak
201.20 - 229.05	CB MX 2	Carbonatization, Matrix, Weak

Mineralization Maj. :	Type/Style/%Mineral	Comment
201.20 - 229.05	Py BLB 1	Pyrite, Blebs, <1% occasional

229.05 246.70 **Fresh Rock** **14B** ***Matachewan Diabase Dyke*** 1 1 GREBL

Matachewan Diabase Dyke - blackish green to black color, mafic composition being melanocratic with a vfg to fg amp-px-calcic plagioclase-ep-mag matrix with < 1% light green sauss mg (0.2cm to 0.3cm in size) plagioclase; sub-equigranular texture, < 1% qcs/qs, < 1% py and weakly to locally moderately magnetic with < 15 to 3% vfg magnetite.

Contact - well developed upper and lower chill zones coming into the Biscotasing diabase with the lower sharp contact at

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		229.05 - 246.70 Py BLB 1 Pyrite, Blebs, <1% occasional												
246.70	254.30	**Fresh Rock** **14B** ***Biscotasing Diabase***	1	1	DGR	344724	253.30	253.80	0.50	<0	-	<0.01	-	-
		Biscotasing Diabase - similar in description to section from 201.2 to 229.05				344725	253.80	254.30	0.50	<0	-	<0.01	-	-
		Contact - sharp altered silicified contact 60 from C.A.												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		246.70 - 254.30 Py BLB 1 Pyrite, Blebs, <1% occasional												
254.30	260.25	**Fresh Rock** **8A** ***Felsite***	1	1	BE	344726	254.30	255.00	0.70	0	-	0.01	-	-
		Silicified-Albitized Felsite - bleached dirty grayish beige and beige gray colors, strong intense and pervasive sil-(ab) cherty like altered matrix with spotty bio and thin vfg black hairline bio fractures grading from 258.0 to 259.7; overall a msv appearance with bx upper contact with angular to sub-rounded xtl and lithic fragments (up to 0.5 cm) in a vfg sil-ab matrix, weak sh bio fractures 40 to 50 from C.A., occasional qcs < 1%.				344727	255.00	256.00	1.00	0	-	0.01	-	-
						344728	256.00	257.00	1.00	0	-	0.04	-	-
						344729	257.00	258.00	1.00	0	-	0.05	-	-
		Mineralization - <1% to locally 10% sulphides (averaging 2% to 4%) with < 1% to 5% disseminated (local fracture-filling) py, < 1% to 5% disseminated po, up to 1% aspy and arsenian py, and occasional cpy <0.5% associated with po				344730	258.00	259.00	1.00	<0	-	<0.01	-	-
						344731	259.00	259.70	0.70	<0	-	<0.01	-	-
						344733	259.70	260.20	0.50	0	-	0.01	-	-
		Contact - sharp irregular contact 24 from C.A. with thin qs lense.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		254.30 - 260.25 BIO FRC 3 Biotitization, Along Fractures, Moderate												

From (m)	To (m)		Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		254.30 - 260.25	AB PV 4	Albitization, Pervasive, Strong											
		254.30 - 260.25	SI PV 5	Silicification, Pervasive, Intense											
		Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***											
		254.30 - 260.25	Aspy BLB 1	Arsenopyrite, Blebs, up to 1% (arsenian pyrite)											
		254.30 - 260.25	Po DIS 2	Pyrrhotite, Disseminated, <1% to 5%											
		254.30 - 260.25	Py DIS 2	Pyrite, Disseminated, <1% to 5% as well as fracture-fill											
260.25	299.55	**Fresh Rock**	**8C**	***Tonalite/Trondjhemite/Granodiorite (QP***	1	1	GG	344734	260.20	261.00	0.80	0	-	0.01	-	-
								344735	261.00	262.00	1.00	<0	-	<0.01	-	-
								344736	262.00	263.00	1.00	<0	-	<0.01	-	-
								344737	263.00	263.70	0.70	<0	-	<0.01	-	-
								344738	263.70	264.60	0.90	0	-	0.03	-	-
								344739	264.60	265.45	0.85	<0	-	<0.01	-	-
								344740	265.45	266.25	0.80	0	-	0.04	-	-
								344741	266.25	267.00	0.75	0	-	0.01	-	-
								344742	267.00	268.00	1.00	0	-	0.01	-	-
								344743	268.00	269.00	1.00	<0	-	<0.01	-	-
								344745	269.00	270.00	1.00	0	-	0.01	-	-
								344746	270.00	270.45	0.45	0	-	0.01	-	-
								344747	270.45	271.00	0.55	0	-	0.23	-	-
								344748	271.00	272.00	1.00	0	-	0.01	-	-
								344749	272.00	273.00	1.00	<0	-	<0.01	-	-
								344750	273.00	274.00	1.00	0	-	0.07	-	-

Tonalite/Trondjhemite/Granodiorite (QP/QFP) - greenish gray to gray and green colors, felsic to intermediate composition with an overall wk to mod chl and wk cb and local mod sil (266.25 to 267.0), 20% to 30% fg to mg (<0.3 cm) blue to bluish gray 20% to 30% qe with 15% to 205 white albitic phenocrysts from 260.25 to 262.0; strong cb and mod chl in shears from 263.7 to 264.6 and from 265.45 to 266.25.

- porphyritic texture, overall < 1% qcs with local increase in qcs associated in shears 5% to locally 10%, variable weakly sh fractures 47 to 60 from C..A

270.45 to 271.2 - Gabbro - greenish black color, strongly chl with wk cb, msv, < 1% qcs, 10% to 15% disseminated and fracture-fill py. Contacts - sharp upper 52 and lower contact 51 from C.A.

Mineralization - variable sulphide content < 1% to locally 15% with general increase in py>po>cpy from 263.7 to 269.0 (1% to 10% py with po < 1% to 2% and < 1% cpy) and from 270.0 to 273.0 with 1% to 15% py with 10% to 15% disseminated and fracture fill py in gabbro as above, locally increase in disseminated and fracture-fill py (2% to 5%) from 289.1 to 289.9, sulphides are generally disseminated with fracture-fill in local sections.

Contact - sharp contact 45 from C.A.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
260.25 - 299.55	SI PV 3	Silicification, Pervasive, Moderate from 266.25 to 270

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From (m)	To (m)		Lithology		Weathering	Oxidation	Colour
		260.25 - 299.55	CB MX 2	Carbonatization, Matrix, Weak			
		260.25 - 299.55	CL MX 3	Chloritization, Matrix, Weak to Moderate			
		Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***			
		260.25 - 263.70	Py BLB 1	Pyrite, Blebs, <1% occasional			
		263.70 - 269.00	Cpy BLB 1	Chalcopyrite, Blebs, <1%			
		263.70 - 269.00	Po DIS 1	Pyrrhotite, Disseminated, 1% to 2%			
299.55	300.25	**Fresh Rock**	**QTCSW**	***Weak Quartz-Carbonate Stockwork (Ga***	1	1	GR

Weak Quartz-Carbonate Stockwork (Gabbro) - green and white color, altered mafic composition with strong pervasive chl and calcite-rich cb; weakly to llocally fractured 10% to 15% qcs/cs up to 3 cm wide, fractured and strongly sheared 45 to 50 from C.A.

Mineralization - occasional < 1% py with 3 cm wide qs at lower contact with 5% fracture-fill cpy and up to 1% po and < 1% py
Contact - sharp contact 45 from C.A. with 3 cm wide quartz-chalcopyrite veinlet

Alteration Maj:	***Type/Style/Intensity***	***Comment***
299.55 - 300.25	CB PV 4	Carbonatization, Pervasive, Strong
299.55 - 300.25	CL PV 4	Chloritization, Pervasive, Strong
Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
299.55 - 300.25	Po DIS 1	Pyrrhotite, Disseminated, <1%
299.55 - 300.25	Cpy FAC 1	Chalcopyrite, Fracture-controlled, <1% with 55 at lower contact
299.55 - 300.25	Py DIS 1	Pyrite, Disseminated, <1%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
344751	274.00	275.00	1.00	0	-	0.01	<0.01	-
344752	275.00	276.00	1.00	<0	-	<0.01	-	-
344753	288.10	289.10	1.00	<0	-	<0.01	-	-
344754	289.10	289.90	0.80	0	-	0.05	-	-
344755	289.90	290.40	0.50	<0	-	<0.01	-	-
344757	298.00	299.00	1.00	<0	-	<0.01	-	-
344758	299.00	299.55	0.55	0	-	0.01	-	-
344759	299.55	300.00	0.45	0	-	0.09	-	-
344760	300.00	300.25	0.25	0	-	0.08	-	-

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
300.25	304.65	**Fresh Rock** **8C** ***Sheared Tonalite/Trondjhemite/Granodi***	1	1	GG

Sheared Tonalite/Trondjhemite/Granodiorite - grayish green and greenish-gray color, felsic to intermediate composition with mod chl-ser) and wk cb; relict 15% to 20% fg to mg qe>fd; strongly sheared at upper and lower contacts 40 to 53 from C.A., occasional qcs/qs/qv with quartz vein from 301.6 to 301.8 with local <15 to 5% tourmaline fracture-filling in vn

Mineralization - generally occasional to widely scattered py < 1% with increased disseminated py (2% to 3%) at upper contact from 300.25 to 301.05
Contact - sharp diffuse contact

Alteration Maj:	Type/Style/Intensity	Comment
300.25 - 304.65	CB IS 3	Carbonatization, Interstitial, Moderate
300.25 - 304.65	SR IS 3	Sericitization, Interstitial, Moderate
300.25 - 304.65	CL IS 3	Chloritization, Interstitial, Moderate

Mineralization Maj. :	Type/Style/%Mineral	Comment
300.25 - 301.05	Py DIS 2	Pyrite, Disseminated, 2% to 3%
301.05 - 304.65	Py BLB 1	Pyrite, Blebs, <1% occasional

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
344761	300.25	301.05	0.80	0	-	0.07	-	-
344762	301.05	301.60	0.55	0	-	0.01	-	-
344763	301.60	302.00	0.40	0	-	0.01	-	-
344764	302.00	303.00	1.00	<0	-	<0.01	-	-
344765	303.00	304.00	1.00	<0	-	<0.01	-	-
344766	304.00	304.65	0.65	0	-	0.01	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
304.65	312.50	**Fresh Rock** **7C** ***Gabbro***	1	1	GR

Gabbro - green and white color, mafic composition with moderate to (strong) chlorite with weak calcite-rich cb in matrix and strong cb in fractures, moderately sh and fractured 40 to 51 from C.A. with 10% to 20% qcs/cs from 304.65 to 306 and from 311.5 to 312.5 with 10% to 15% qcs/cs……up to 2 cm to 4 cm wide; occasional bleb/spec of py< 0.5%

Contact - sharp contact 51 from C.A.

Contact - sharp contact 51 from C.A.

Alteration Maj:	Type/Style/Intensity	Comment
304.65 - 312.50	CB MX 2	Carbonatization, Matrix, Weak
304.65 - 312.50	CL MX 3	Chloritization, Matrix, Moderate to Strong

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
344767	304.65	305.60	0.95	0	-	0.01	-	-
344769	305.60	306.60	1.00	0	-	0.01	-	-
344770	306.60	307.60	1.00	<0	-	<0.01	-	-
344771	311.50	312.50	1.00	0	-	0.08	-	-

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		304.65 - 312.50 Py BLB 1 Pyrite, Blebs, <1% occasional												
312.50	313.15	**Fresh Rock** **QTS W** ***Weak Quartz Stockwork***	1	1	WH	344772	312.50	312.90	0.40	0	-	0.22	0.21	-
						344773	312.90	313.15	0.25	0	-	0.15	-	-
		Weak Quartz Stockwork - white to grayish white color, altered composition with moderate banded and shear controlled silicified and albitic alteration, strongly sheared and banded 50 from C.A. with 5% to 15% qcs/qs (up to 7 cm wide)												
		Mineralization - vfg disseminated cpy ranging < 1% to 5% with lower contact from 312.9 to 313.15 hosting 5% to 10% disseminated and fracture-fill cpy in vning, scattered vfg po-py-argentite up to 1% to 2%, cpy found in both altered wallrock and in veining.												
		Contact - sharp contact 53 from C.A.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		312.50 - 313.15 AB BNDS 3 Albitization, Bands/Banded, Moderate to (Strong)												
		312.50 - 313.15 SI BNDS 3 Silicification, Bands/Banded, Moderate to (Strong)												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		312.50 - 312.90 Cpy DIS 5 Chalcopyrite, Disseminated, 5% to locally 10%												
		312.90 - 313.15 Cpy DIS 1 Chalcopyrite, Disseminated, <1% to 55, also as fracture-filling												

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
313.15	341.15	**Fresh Rock** **8C** ***Tonalite/Trondjhemite/Granodiorite (QP***	1	1	GY

Tonalite/Trondjhemite/Granodiorite (QP) xcut by Diabase Dyke - gray to creamy whitish gray color, felsic to intermediate in composition with increase in sh-controlled mod to locally strong ser from 328.65 to 341.15 with strong pervasive sh controlled ser from 336.6 to 338.5, 20% to 30% fg to mg blue to bluish-gray qe with gradual coarsening of qe from 332 to 341.5 up to 0.5 to 0.6 cm in size, sub-rounded to sub-elliptical shape qe.

- porphyritic texture with weak to moderate sh with strongly sh from 331.5 to 341.5 varying 51 to 63 from C.A. (average is 59.5 from C.A.) with increase core angles from 331.5 to 341.15 closer to 55 to 60 from C.A., possible sh xenoliths/rafts/inclusions of fd-amp (intermediate in composition) forming as bands up to 1cm to 45cm wide from 331.6 to 334.3…….possible diorite sill/dykes, occasional to scattered < 1% qs up to 2 cm wide.

315.25 to 316.0 - Diabase - black color, mafic composition, vfg aphanitic and msv, scattered calcite hairline fractures, <1% py and weakly magnetic with up to 15 magnetite, sharp upper 80 from C.A. and lower 65 from C.A. contacts

336.6 to 338.5 - Sericite-(Carbonate) Shear - creamy whitish color, strong sh controlled ser with wk-(mod) cb and locally strong calcite fractures, relict 10% to 20% qe porphyritic texture, < 1% to 10% qcs/qs with orthogonal oriented calcite gash veinlets, strongly sh 50 to 60 from C.A., up to 1% vfg disseminated py.

Mineralization - occasional to widely scattered py < 1% with local 15 py in strongly sh and ser sections with sh/qcs
Contact - sharp contact 56 from C.A.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
328.65 - 336.60	SR SP 3	Sericitization, Along Shear Planes, Moderate
336.60 - 338.50	CB PV 2	Carbonatization, Pervasive, Weak to Moderate
336.60 - 338.50	SR PV 4	Sericitization, Pervasive, Strong and sh controlled
338.50 - 341.15	SR MX 3	Sericitization, Matrix, Moderate

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
313.15 - 341.15	Py BLB 1	Pyrite, Blebs, <1% occasional

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
344774	313.15	314.00	0.85	0	-	0.05	-	-
344775	314.00	315.25	1.25	0	-	0.02	-	-
344776	315.25	316.00	0.75	<0	-	<0.01	-	-
344777	316.00	317.00	1.00	0	-	0.02	-	-
344778	335.40	336.00	0.60	<0	-	<0.01	-	-
344779	336.00	336.60	0.60	<0	-	<0.01	-	-
344781	336.60	337.60	1.00	<0	-	<0.01	-	-
344782	337.60	338.00	0.40	0	-	0.02	-	-
344783	338.00	338.50	0.50	0	-	0.02	-	-
344784	338.50	339.00	0.50	<0	-	<0.01	-	-
344785	339.00	340.00	1.00	<0	-	<0.01	-	-

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
Minor Interval:					
315.25	316.00	Fresh Rock 14B *Diabase Dyke* Diabase - black color, mafic composition, vfg aphanitic and msv, scattered calcite hairline fractures, <1% py and weakly magnetic with up to 15 magnetite, sharp upper 80 from C.A. and lower 65 from C.A. contacts		1	
Minor Interval:					
336.60	338.50	Fresh Rock SH *Sericite-(Carbonate) Shear/Shear Zone* Sericite-(Carbonate) Shear - creamy whitish color, strong sh controlled ser with wk-(mod) cb and locally strong calcite fractures, relict 10% to 20% qe porphyritic texture, < 1% to 10% qcs/qs with orthogonal oriented calcite gash veinlets, strongly sh 50 to 60 from C.A., up to 1% vfg disseminated py.		1	
341.15	374.55	**Fresh Rock 4F *Felsic to 9Intermediate) Tuff to Tuff Bre*** Felsic to Intermediate Tuff-Lapilli-Tuff-Tuff Breccia - greenish gray to grayish green color, felsic-(intermediate_ composition becoming gradually more felsic with depth, wk-mod chl-ser and variable weak to locally moderate cb in matrix, vfg to fg disseminated 5% to 205 broken qtz xtls. - fragmental texture with alternating coarser sections of fragments at upper part of the interval with monolithic, sub-elliptical shaped felsic fragments up to 5 cm in size, mod to strongly sheared 48 to 60 from C.A. (average is 55.1 from C.A.), scattered <1% to 5% qcs/qs/cs up to 4 to 5 cm in size, local increase 10% to 205 qcs/cs from 357.5 to 358.5. Mineralization - occasional to widely scattered py-(aspy) < 1%; random and local 2% to 3% py-(aspy) associated with thin qcs/cs Contact - sharp contaxct 45 from C.A.		1	GG

Alteration Maj:	*Type/Style/Intensity*	*Comment*
341.15 - 374.55	CB MX 2	Carbonatization, Matrix, Weak to Moderate
341.15 - 374.55	CL GM 3	Chloritization, Groundmass, Moderate about felsic fragments

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
341.15 - 374.55	Aspy BLB 1	Arsenopyrite, Blebs, <1% associated with local qcs
341.15 - 374.55	Py BLB 1	Pyrite, Blebs, 1% to local 2% to 3% associated with qcs

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
344786	349.50	350.00	0.50	<0	-	<0.01	-	-
344787	350.00	351.00	1.00	0	-	0.01	-	-
344788	351.00	351.50	0.50	<0	-	<0.01	-	-
344789	356.50	357.50	1.00	<0	-	<0.01	-	-
344790	357.50	358.50	1.00	<0	-	<0.01	<0.01	-
344791	358.50	359.50	1.00	0	-	0.01	-	-
344793	363.00	364.00	1.00	0	-	0.02	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
374.55	377.65	**Fresh Rock** **7C** ***Gabbro***	1	1	GR									
377.65	413.00	**Fresh Rock** **4G** ***Felsic to (Intermediate) Lapilli-Tuff-Tuff***	1	1	GY									
						344794	385.85	386.85	1.00	<0	-	<0.01	-	-
						344795	386.85	387.35	0.50	0	-	0.02	-	-
						344796	387.35	387.65	0.30	1	-	1.13	-	-
						344797	387.65	388.20	0.55	0	-	0.12	-	-
						344798	388.20	389.20	1.00	<0	-	<0.01	-	-
						344799	391.00	392.00	1.00	<0	-	<0.01	-	-
						344800	397.00	398.00	1.00	<0	-	<0.01	-	-
						344801	398.00	399.00	1.00	0	-	0.02	-	-
						344802	399.00	400.00	1.00	<0	-	<0.01	-	-

Gabbro - green color, mafic composition with moderate chlorite and weak pervasive calcite-rich cb, amp = fd, vfg to fg having a massive equigranular texture, <1% to 5% qcs up to 5 cm in size, occasional vfg to fg py cube < 0.5%

Contact - sharp contact 50 from C.A.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
374.55 - 377.65	CB MX 2	Carbonatization, Matrix, Weak
374.55 - 377.65	CL MX 3	Chloritization, Matrix, Moderate

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
374.55 - 377.65	Py BLB 1	Pyrite, Blebs, <1%

Felsic to (Intermediate) Lapilli-Tuff-Tuff Breccia (Tuff) - dark gray, gray, greenish gray, and green color, felsic to (intermdiate) in composition with wk to mod chl-(cb) bands of chl tuffaceous matrix about more siliceous felsic fragments (rounded…agglomerate), 55 to 10% scattered vfg to fg qtz xtls.

- fragmental texture with rounded siliceous fragments up to 5 to 10 cm insize and tightly packed, moderately sh/foliated 50 to 65 from C.A. (average is 57.8 from C.A., scattered qcs/cs/qs up to 14 cm wide with localized increase in qcs (45% to 50%) from 387.35 to 387.65, generally 5% fracturing with qcs/cs/qs.

387.35 to 388.2 - Quartz-Carbonate Stockwork - wk chl-cb-sil with strong calcite-rich cb along fractures, fractured with overall 20% qcs with major 14 cm wide qtz-cb veinlet, 5% to 10% disseminated po, 5% py, < 1% to 2% sp, and < 1% cpy in veining and disseminated <1% to 2% py-po-(sp) in section from 387.65 to 388.2 with mod sh and 5% qcs parallel to sh

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)

Mineralization -overall occasional py and po < 1% with local 5% to 10% disseminated po, 5% py, <1% to 2% sp, and < 1% cpy associated with 14 cm wide qcs and < 1% to 2% py-po-(sp) from 387.65 to 388.2

Alteration Maj:	***Type/Style/Intensity***	***Comment***
377.65 - 413.00	CB MX 1	Carbonatization, Matrix, Very weak
377.65 - 413.00	DM MX 2	Dolomitization, Matrix, Weak to Moderate
Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
377.65 - 413.00	Py BLB 1	Pyrite, Blebs, <1%

Minor Interval:

387.35	388.20	Fresh Rock	QTCS W	*Quartz-Carbonate Stockwork*		1								

Quartz-Carbonate Stockwork - wk chl-cb-sil with strong calcite-rich cb along fractures, fractured with overall 20% qcs with major 14 cm wide qtz-cb veinlet, 5% to 10% disseminated po, 5% py, < 1% to 2% sp, and < 1% cpy in veining and disseminated <1% to 2% py-po-(sp) in section from 387.65 to 388.2 with mod sh and 5% qcs parallel to sh

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number **KER15-01** Project: **CHESTER 3B-JACK RABBIT** Project Number: **234**

From (m)	To (m)	Length (m)	Sample #	Comments
13.70	14.70	1.00	344609	Tonalite/Granodiorite - felsic to intermediate in composition, 20% to 25% qe, porp, < 1% qcs, < 1% py
21.40	21.90	0.50	344610	Tonalite/Granodiorite - felsic to intermediate in composition, 20%-25% qe, sub-porp/equigranular, <15 qcs, <1% py
21.90	22.30	0.40	344611	Tonalite/Granodiorite - felsic to intermediate in composition with wk-mod sil, 20% to 25% qe, <1% qcs, 5% fract/diss py and up to 1% to 2% cpy
22.30	23.30	1.00	344613	Tonalite/Granodiorite - felsic to intermediate composition, wk chl-ser-cb, 20% to 25% qe, sub-porp, < 1% qs, < 1% py
23.30	24.30	1.00	344614	Tonalite/Granodiorite - felsic to intermediate composition, wk chl-ser-cb, 20% to 25% qe, sub-porp, 6% qs, < 1% py
24.30	24.90	0.60	344615	Tonalite/Granodiorite - felsic to intermediate composition, wk chl-ser-cb, 20% to 25% qe, sub-porp, < 1% qs, < 1% py
24.90	25.20	0.30	344616	Tonalite/Granodiorite - felsic to intermediate composition, wk chl-ser-cb, 20% to 25% qe, sub-porp, < 1% qs with 0.5 cm wide qcs with overall 2% cpy
25.20	26.20	1.00	344617	Tonalite/Granodiorite - felsic to intermediate composition, wk-mod chl and weak ser-cb, 20% to 25% qe, sub-porp, 10% qcs/qs, < 1% py-cpy
26.20	27.20	1.00	344618	Tonalite/Granodiorite - felsic to intermediate composition, wk cb-chl-ser, strong cb fractures, 20% to 25% qe, 2% to 3% qcs, < 1% py-cpy
63.00	63.50	0.50	344619	Albitized-Silicified Shear (Gabbro) - strong ab-sil and wk chl-cb, strongly sh/bnded, up to 1% to 2% qfs, < 1% py
63.50	64.05	0.55	344620	Albitized-Silicified Shear (Gabbro) - strong ab-sil and wk chl-cb, strongly sh/bnded, 5% qfs, < 1% py
64.05	64.35	0.30	344621	Albitized-Silicified Shear (Gabbro) - strong/intense ab-sil, strongly sh/bnded, <1% qfs, < 1% py
64.35	64.90	0.55	344622	QTSW (Granodiorite/Tonalite) - strong intense sil-ab, strongly sh/bnded, 35% to 45% qfs, up to 1% py
64.90	65.35	0.45	344623	QTSW (Granodiorite/Tonalite) - strong intense sil-ab, strongly sh/bnded, 25% to 35% qfs, <1% py
65.35	65.70	0.35	344625	QTSW (Granodiorite/Tonalite) - strong intense sil-ab, strongly sh/bnded, bx 75% to 85% qfs, <1% py
65.70	66.80	1.10	344626	Albitized-Silicified Shear (Gabbro) - mod to strong ab-sil, up to 1% fus, strongly sh/bnded, 10% qfs, < 1% py
66.80	68.00	1.20	344627	Albitized-Silicified Shear Zone - mod to strong ab-sil with wk chl-cb, < 1% fus, sh and fractured with 5% qcs, up to 1% py
68.00	69.00	1.00	344628	Albitized-Silicified Shear Zone - mod to strong ab and wk-mod sil, wk chl-cb, < 1% fus, sh and fractured with 10% to 15% qcs, 1% to 3% py
69.00	69.35	0.35	344629	QTSW - strong ab-sil bnds qfs veinlets 60% to 65% with stolitic fractures/seams in vning, strongly sh, <1% py
69.35	69.85	0.50	344630	Shear Zone - wk chl and mod cb, sh, 10% qcs, 1% to 2% py and < 1% aspy
69.85	70.35	0.50	344631	Shear Zone - - wk chl and mod cb, sh, < 1% qcs, 5% to 10% py, 2% cpy, and up to 1% aspy xtls
70.35	71.30	0.95	344632	Tonalite/Granodiorite (QFP)- mod to strong sil, relict porp, < 1% qcs, < 1% py
71.30	72.30	1.00	344633	Tonalite/Granodiorite (QFP)- mod to strong sil, relict porp, < 1% qcs, < 1% py
76.35	76.85	0.50	344634	Tonalite/Granodiorite (QFP) - strong sil with hem and numerous chl-cb-sil random hairline fractures, < 1% qs and < 1% py
76.85	77.05	0.20	344635	QTSW - strong sil and 15% to 20% qs, 10% py in qs with up to 1% cpy and < 1% aspy
77.05	77.55	0.50	344637	Tonalite/Granodiorite (QFP) - strong sil with hem and numerous chl-cb-sil random hairline fractures, < 1% qs and < 1% py

IAMGOLD CORPORATION

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number **KER15-01** Project: **CHESTER 3B-JACK RABBIT** Project Number: **234**

From (m)	To (m)	Length (m)	Sample #	Comments
94.80	95.35	0.55	344638	Felsic Crystal Tuff (QP) - mod-strong sil, vfg and msv, <1% qcs, < 1% py
95.35	95.85	0.50	344639	Felsic Crystal Tuff (QP) - mod-strong sil, vfg and msv, <1% qcs, up to 1% scattered py
95.85	96.15	0.30	344640	Silicified-Albitized Band - strong pervasive ab-sil with xcutting qcs, up to 1% aspy and < 1% py, sharp contacts
96.15	97.00	0.85	344641	Felsic Crystal Tuff (QP) - mod sil, wk-mod sh, <1% qcs, up to 1% scattered py-aspy
97.00	98.00	1.00	344642	Felsic Crystal Tuff (QP) - mod sil, wk-mod sh, <1% qcs, <1% scattered py-aspy
102.50	103.50	1.00	344643	Felsic Crystal Tuff - felsic composition with mod ser and wk cb, wk sh xtl tf texture, < 1% qs/qcs, < 1% py
103.50	104.10	0.60	344644	Felsic Crystal Tuff - felsic composition with mod ser and wk cb, wk sh xtl tf texture, < 1% qs/qcs, < 1% py
104.10	104.60	0.50	344645	Silicified Felsic Crystal Tuff - strong pervasive sil-ser, wk sh, <1% qs/qcs with tour, up to 1% fracture-fill and scattered py
104.60	105.55	0.95	344646	Silicified Felsic Crystal Tuff - strong pervasive sil-ser, wk sh and frequent hairline fractures, up to 1% qs/qcs with tour, 1% - 2% fracture-fill and scattered py
105.55	106.50	0.95	344647	Felsic Crystal Tuff - felsic composition with mod ser and wk cb, wk sh xtl tf texture, < 1% qs/qcs with tour, < 1% py
106.50	107.00	0.50	344649	Felsic Crystal Tuff - felsic composition with mod ser and wk cb, wk sh xtl tf texture, < 1% qs/qcs with tour, < 1% py
107.00	107.50	0.50	344650	Felsic Crystal Tuff - felsic composition with mod ser and wk cb, wk sh xtl tf texture, 5% qs/qfs/qcs with tour, < 1% py-aspy
107.50	108.00	0.50	344651	Felsic Crystal Tuff - felsic composition with mod ser and wk cb, wk sh xtl tf texture, 10% qs/qfs/qcs with tour, 1% py>cpy-aspy
108.00	108.50	0.50	344652	Felsic Crystal Tuff - felsic composition with mod ser and wk cb, wk sh xtl tf texture, < 1% qs/qcs, < 1% py
108.50	109.10	0.60	344653	Felsic Crystal Tuff - felsic composition with mod ser and wk cb, wk sh xtl tf texture, < 1% qs/qcs, < 1% py
109.10	109.50	0.40	344654	Shear - variable ab-sil-chl-cb, strong sh/bnded texture, strongly folded/bnded and contorted bnds, <1% to 2% py mainly in 5% to 10% qs/qfs
109.50	109.90	0.40	344655	QTSW/Shear - varibale ab-sil-chl-cb, 20% qs/qfs with up to 1% py and msv po seam at lower contact
109.90	111.00	1.10	344656	Tonalite/Granodiorite (QP) - strong sil and mod/strong ab, numerous hairline fractures, <1% qs, 1% to 2% disseminated and fracture-fill py
111.00	112.00	1.00	344657	Tonalite/Granodiorite (QP) - mod sil-(ab),msv/sub-porp, <1% qs, up to 1% disseminated py
112.00	112.40	0.40	344658	Tonalite/Granodiorite (QP) - mod sil-(ab),msv/sub-porp, <1% qs, up to 1% disseminated py
112.40	113.40	1.00	344659	Gabbro - mafic composition being melanocratic with mod chl and wk cb, msv, < 1% qcs, < 1% py
113.40	114.00	0.60	344661	Tonalite/Granodiorite (QP) -mod to strong sil in matrix, relict porp, up to 1% qs, 3% to 5% disseminated py and < 1% cpy with increased sulphides associated with qs
114.00	114.50	0.50	344662	Tonalite/Granodiorite (QP) - mod to strong sil in matrix, relict porp, 10% qs, 5% to 10% disseminated py and < 1% cpy-aspy-po with increased sulphides associated with qs
114.50	115.00	0.50	344663	Tonalite/Granodiorite (QP) - felsic composition with wk-(mod) sil, 30%-35% qe, porp texture, < 1% qs, < 1% py
115.00	115.55	0.55	344664	Tonalite/Granodiorite (QP) - felsic composition with wk-(mod) sil, 30%-35% qe, porp texture, < 1% qs, < 1% py
115.55	116.50	0.95	344665	Albitized Tonalite/Granodiorite - altered felsic composition with intense bleached white ab>sil, vfg and obliterated porp texture, < 1% qs, < 1% py

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number **KER15-01** Project: **CHESTER 3B-JACK RABBIT** Project Number: **234**

From (m)	To (m)	Length (m)	Sample #	Comments
116.50	117.30	0.80	344666	Tonalite/Granodiorite (QP) - felsic composition with wk-(mod) sil, 25%-30% qe, porp texture, < 1% qs, < 1% py
117.30	118.20	0.90	344667	Tonalite/Granodiorite (QP) - felsic composition with wk-sil and increase to mod sil about 2% qs, 25%-30% qe, porp texture, 2% qs, < 1% py
118.20	119.20	1.00	344668	Tonalite/Granodiorite (QP) - felsic composition with wk-(mod) sil, 25%-30% qe, porp texture, < 1% qs, < 1% py
119.20	120.10	0.90	344669	onalite/Granodiorite (QP) - felsic composition with wk-(mod) sil, 25%-30% qe, porp texture, < 1% qs, < 1% py
120.10	120.70	0.60	344670	Felsic Crystal Tuff - strong sil cherty matrix with 5% to 10% qtz xtl fragments, wk sh, < 1% qs, < 1% py with 2%-3% py at lower contact
125.90	127.00	1.10	344671	Gabbro - mafic composition with mod chl and mod-strong cb, msv with 2% to 5% qcs, 1% to 2% scattered py and moderately mag (2% to 4%)
132.90	134.00	1.10	344673	Tonalite/Granodiorite (QP) - felsic composition with wk cb, porp texture with 30% to 35% qe, sh at upper contact, < 1% qcs, < 1% scattered py
134.00	135.00	1.00	344674	Tonalite/Granodiorite (QP) - felsic composition with wk cb, porp texture with 30% to 35% qe, sh at upper contact, < 1% qcs, up to 1% scattered py
135.00	135.50	0.50	344675	Tonalite/Granodiorite (QP) - felsic composition with mod cb in ser interstitial matrix, porp texture with 30% to 35% qe, sh at upper contact, < 1% qcs, < 1% scattered py
143.00	144.00	1.00	344676	Tonalite/Granodiorite (QP) - felsic composition with 25% to 35% qe, porp texture, < 1% qcs and py
144.00	145.00	1.00	344677	Tonalite/Granodiorite (QP) - felsic composition with 25% to 35% qe, porp texture, < 1% qcs and scattered <1% py-aspy-cpy-po fractures
145.00	146.00	1.00	344678	Tonalite/Granodiorite (QP) - felsic composition with 25% to 35% qe, porp texture, < 1% qcs and scattered <1% py-aspy-cpy-po fractures
146.00	147.00	1.00	344679	Tonalite/Granodiorite (QP) - felsic composition with 25% to 35% qe, porp texture, < 1% qcs and local <1%-cpy-po fracture
147.00	148.00	1.00	344680	Tonalite/Granodiorite (QP) - felsic composition with 25% to 35% qe, porp texture, < 1% qcs and scattered <1% py-po fractures
148.00	149.00	1.00	344681	Tonalite/Granodiorite (QP) - felsic composition with 25% to 35% qe, porp texture, < 1% qcs and py
157.00	158.00	1.00	344682	Tonalite/Granodiorite (QP) - felsic composition with wk to mod ser about 20% to 30% qe, wk sh, < 1% qcs, local < 1% py-cpy
158.00	159.00	1.00	344683	Tonalite/Granodiorite (QP) - felsic composition with wk ser about 20% to 30% qe, wk sh, < 1% qcs, local < 1% cpy fracture-filling>diss. At end of interval
159.00	160.00	1.00	344685	Tonalite/Granodiorite (QP) - felsic composition with wk ser about 25% to 35% qe, porp texture, < 1% qcs and py-cpy
160.00	161.00	1.00	344686	Tonalite/Granodiorite (QP) - felsic composition with wk ser about 25% to 35% qe, porp texture, < 1% sh fractures with <1% py-po-cpy fractures
161.00	162.00	1.00	344687	Tonalite/Granodiorite (QP) - felsic composition with wk ser-cb about 25% to 35% qe, porp texture, 1% sh fractures with up to 1% py-po-cpy fractures
162.00	163.00	1.00	344688	Tonalite/Granodiorite (QP) - felsic composition with wk ser-cb about 25% to 35% qe, porp texture, 1% sh/qcs fractures with up to 1% po-py-cpy fractures
163.00	163.35	0.35	344689	Tonalite/Granodiorite (QP) - felsic composition with wk ser-cb about 25% to 35% qe, porp texture, strongly sh towards the contact with up to 1% qcs/sh fractures, 1% to 2% diss po>py-cpy
163.35	163.90	0.55	344690	Quartz-Feldspar Stockwork - strong per sil-ab wallrock, fractured and bx with 40% to 45% qfs/qs, overall 55 disseminated po with local 30% to 40% diss. Po in altered wallrock bands up to 3 cm wide
163.90	164.50	0.60	344691	Strongly Silicified-Albitized Tonalite-Granodiorite - strong/intense pervasive sil-ab (cherty-like), vfg and msv, scattered hairline fractures filled with up to 1% po>py-cpy
164.50	165.50	1.00	344692	Strongly Silicified-Albitized Tonalite-Granodiorite - strong/intense pervasive sil-ab (cherty-like), vfg and msv, scattered hairline fractures filled with up to 1% py>po-cpy
165.50	165.85	0.35	344693	Weakly Fractured & Strongly Silicified-Albitized Tonalite-Granodiorite - strong/intense pervasive sil-ab (cherty-like), vfg and msv, 10% qs and numerous hairline fractures filled with up to 3%-5% cpy, 2% to 3% py, and 1% to 2% po fractures and associated with qs

SAMPLE DESCRIPTION REPORT

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Hole Number **KER15-01** Project: **CHESTER 3B-JACK RABBIT** Project Number: **234**

From (m)	To (m)	Length (m)	Sample #	Comments
165.85	166.55	0.70	344694	Weak to Moderately Silicified-Albitized Tonalite-Granodiorite - weak to moderate perervasive sil-ab, vfg and msv, <1% py-po-cpy
166.55	167.00	0.45	344695	Strongly Silicified-Albitized Tonalite-Granodiorite - strong/intense pervasive sil-ab (cherty-like), vfg and msv, < 1% qs/qcs scattered hairline fractures with 5% to 10% disseminated and fracture-fill py with < 1% po-cpy
167.00	167.50	0.50	344697	Strongly Silicified-Albitized Tonalite-Granodiorite - strong/intense pervasive sil-ab (cherty-like), vfg and msv, 5% qfs/qs, up to 1% po-(sp?) in fractures
167.50	168.10	0.60	344698	Strongly Silicified-Albitized Tonalite-Granodiorite - strong/intense pervasive sil-ab (cherty-like), vfg and wk sh, 5% to 10% qfs/qs, 1% to 2% po-py with < 0.5% cpy as fractures and in qfs/qs
168.10	169.00	0.90	344699	Tonalite/Granodiorite - felsic composition with wksil-ser-cb, porp texture, 3% to 5% qfs, < 1% py-po-cpy
169.00	170.00	1.00	344700	Tonalite/Granodiorite - felsic composition with wksil-ser-cb, porp texture, up to 1% qs/qfs, 1% to 2%% py-po with < 0.5% cpy
170.00	170.90	0.90	344701	Moderate Silicified-Sericitic Tonalite/Granodiorite - mos sil-ser, porp, <1% qs and raft, up to 1% patchy disseminated py>po>cpy
170.90	171.65	0.75	344702	Moderate Silicified-Sericitic Tonalite/Granodiorite - mos sil-ser, porp, 10% qcs, 1% to 2% disseminated po>py with increased 5% po to 171.65
171.65	171.90	0.25	344703	Silicified-Albitized Tonalite/Granodiorite - strong intense cherty-like sil-ab with ser-cb, msv, numerous 10% po fractures with up to 1% py and < 1% cpy
171.90	172.45	0.55	344704	QTSW - strong sil-ab and mod ser with wk cb, strong intense bleached white ab-sil bnds, 10% qcs, up to 1% disseminated py>po in both wr and vn
172.45	173.00	0.55	344705	Gabbro - mafic composition with mod chl and wk cb, broken core, vfg and msv, <1% qcs and py
173.00	174.00	1.00	344706	Gabbro - mafic composition with mod chl and wk-mod cb, vfg and wk sh and msv, 5% qfs, up to 1% py
174.00	175.00	1.00	344707	Gabbro - mafic composition with wk-mod cb and wk chl, vfg and wk sh and msv, 10% to 12% qs, 2% to 4% disseminated py
175.00	176.00	1.00	344709	Gabbro - mafic composition with wk chl-cb, vfg and msv to wk sh, <1% qcs/qfs, < 1% py
176.00	177.00	1.00	344710	Gabbro -mafic composition with wk-mod cb and wk chl, vfg and msv to wk sh, up to 1% qcs, up to 1% scattered py
177.00	178.00	1.00	344711	Gabbro - mafic composition, mod cb and wk chl, vfg and msv to wk sh, scattered < 1% qcs, 15 to 3% scattered py
178.00	179.00	1.00	344712	Gabbro -mafic composition, mod to strong cb and wk chl, vfg and msv to wk sh, < 1% qcs, up to 1% py
179.00	180.20	1.20	344713	Gabbro -mafic composition, mod to strong cb and wk to mod chl, vfg and msv to wk sh, 1% to 2% qcs,<1% py
180.20	181.00	0.80	344714	Tonalite/Granodiorite - felsic to intermediate composition with wk-mod chl interstitial about 20% to 25% qe, porp texture, < 1% qs, scattered < 1% py
181.00	182.00	1.00	344715	Tonalite/Granodiorite - felsic to intermediate composition with wk-mod chl interstitial about 20% to 25% qe, porp texture, < 1% qs, < 1% py
188.00	188.85	0.85	344716	Gabbro - mafic composition with mod chl, vfg and msv, <15 qcs, up to 1% scattered py
188.85	190.00	1.15	344717	Tonalite/Granodiorite - felsic to intermediate composition with wk chl, porp, < 1% qs/qcs, up to 1% scattered py
190.00	191.00	1.00	344718	Tonalite/Granodiorite - felsic to intermediate composition with wk chl, porp, < 1% qs/qcs, <1% scattered py
191.00	192.00	1.00	344719	Tonalite/Granodiorite - felsic to intermediate composition with wk chl, porp, < 1% qs/qcs, <1% scattered py
192.00	193.00	1.00	344721	Tonalite/Granodiorite - felsic to intermediate composition with wk chl, porp, < 1% qs/qcs, <1% scattered py
193.00	194.00	1.00	344722	Tonalite/Granodiorite - felsic to intermediate composition with wk chl, porp, < 1% qs/qcs, 1% to 2% scattered py

IAMGOLD CORPORATION

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number **KER15-01** Project: **CHESTER 3B-JACK RABBIT** Project Number: **234**

From (m)	To (m)	Length (m)	Sample #	Comments
194.00	195.00	1.00	344723	Tonalite/Granodiorite - felsic to intermediate composition with wk chl, porp, < 1% qs/qcs, <1% scattered py
253.30	253.80	0.50	344724	Biscotasing Diabase - mafic composition, msv and vfg, <1% qcs and < 1% py & wk magnetic
253.80	254.30	0.50	344725	Biscotasing Diabase - mafic composition, msv and vfg, <1% qcs and < 1% py & wk magnetic
254.30	255.00	0.70	344726	Felsite - strong intense sil-(ab) cherty like and bx, up to 1% qcs, scattered vfg py up to 1%
255.00	256.00	1.00	344727	Felsite - strong intense sil-(ab) cherty like, msv, < 1% qcs, 1% to 5% py along core jnts with up to 1% aspy and < 1% po-cpy
256.00	257.00	1.00	344728	Felsite - strong intense sil-(ab) cherty like, msv, < 1% qcs, 25 to 5% diss po, 1% to 2% py, up to 1% aspy, and < 1% cpy
257.00	258.00	1.00	344729	Felsite - strong intense sil-(ab) cherty like, msv, 2% qcs,5% diss/fracture-fil py and 5%diss po, up to 1% aspy, and < 1% cpy
258.00	259.00	1.00	344730	Felsite - strong sil-(ab) with hairline and spotty bio, <1% qcs, 3% to 5% patchy & fract-fill py, 2% po, up to 1% aspy, and , 1% cpy
259.00	259.70	0.70	344731	Felsite - strong sil-(ab) with hairline and spotty bio, <1% qcs and wk sh, 1% to 2% py with < 1% aspy-po-cpy
259.70	260.20	0.50	344733	Felsite - mod sil-(ab) with bio and hairline and spotty bio, <1% qcs and wk sh, 2% to 4% py with < 1% aspy-po-cpy
260.20	261.00	0.80	344734	Tonalite/Granodiorite - felsic composition with wk sil, 20% to 30% qe and porp, wk sh, < 1% qs, <1% py
261.00	262.00	1.00	344735	Tonalite/Granodiorite - felsic composition with wk sil, 20% to 30% qe and porp, wk sh, 1% qs, <1% py
262.00	263.00	1.00	344736	Tonalite/Granodiorite - felsic composition with wk sil, 20% to 30% qe and porp, wk sh, <1% qs, <1% occasional py towards 263.0
263.00	263.70	0.70	344737	Tonalite/Granodiorite - felsic composition with wk chl alteration in interstitial matrix, 20% to 30% qe and porp, wk sh, <1% qs, <1% widely scattered py
263.70	264.60	0.90	344738	Shear Zone - strong pervasive cb and mod chl, relict porp texture, strongly sh, 3% to 5% qcs, 1% to 2% scattered py
264.60	265.45	0.85	344739	Tonalite/Granodiorite - felsic composition with mod chl interstitial and cb fractures, 20% to 30% qe and porp, wk sh, 1%-2% qs, up to 1% widely scattered py
265.45	266.25	0.80	344740	Shear Zone - strong pervasive cb and mod to strong chl, local sil, strongly sh, fractured and bx with 5% to 10% qcs, 5% py with < 1% po-cpy
266.25	267.00	0.75	344741	Tonalite/Granodiorite - felsic composition with mod to strong sil-(ab) with scattered chl fractures, relict porp, wk sh, <1% qcs, 5% to 10% disseminated and fracture-fill py and < 1% po-cpy
267.00	268.00	1.00	344742	Tonalite/Granodiorite - felsic composition with weak sil and chl, porp, wk sh, <1% qcs, 5% to 7% disseminated and fracture-fill py
268.00	269.00	1.00	344743	Tonalite/Granodiorite - felsic composition with mod chl, porp, wk sh, up to 1% qcs, <1% to 5% disseminated py with < 1% to 2% po and < 1% cpy, 5% to 10% diss py-po-(cpy) from 268.7 to 269
269.00	270.00	1.00	344745	Tonalite/Granodiorite - wk to mod chl and wk sil with fract, 20% to 30% qe, porp, <1% qcs, scattered 1% py
270.00	270.45	0.45	344746	Tonalite/Granodiorite - wk to mod chl and wk sil with fract, 20% to 30% qe, porp, <1% qcs, scattered 1%to 2% py
270.45	271.00	0.55	344747	Gabbro - mod to strong chl and wk cb, msv and < 1% qcs, 10% to 15% disseminated and fracture-fill py
271.00	272.00	1.00	344748	Tonalite/Granodiorite - felsic composition with mod chl and wk cb, 20% to 30% qe and porp, < 1% qcs, 2% to 3% scattered py
272.00	273.00	1.00	344749	Tonalite/Granodiorite - felsic composition with mod chl and wk cb, 20% to 30% qe and porp, < 1% qcs, 2% scattered py
273.00	274.00	1.00	344750	Tonalite/Granodiorite - felsic composition with mod chl and wk cb, 20% to 30% qe and porp, < 1% qcs, up to 1% scattered py

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number **KER15-01** Project: **CHESTER 3B-JACK RABBIT** Project Number: **234**

From (m)	To (m)	Length (m)	Sample #	Comments
274.00	275.00	1.00	344751	Tonalite/Granodiorite - felsic composition with mod chl and wk cb, 20% to 30% qe and porp, < 1% qcs, <1% widely cattered py
275.00	276.00	1.00	344752	onalite/Granodiorite - felsic composition with mod chl and wk cb, 20% to 30% qe and porp, < 1% qcs, <1% widely scattered py
288.10	289.10	1.00	344753	Tonalite/Granodiorite - felsic to intermediate composition with mod chl and wk cb, porp, <1% qcs, occasional py < 1%
289.10	289.90	0.80	344754	Tonalite/Granodiorite - felsic to intermediate composition with mod chl and wk cb, porp, up to 1% qcs, 2% to 5% disseminated and fracture-fill py
289.90	290.40	0.50	344755	Tonalite/Granodiorite - felsic to intermediate composition with mod chl and wk cb, porp, <1% qcs, occasional py < 1%
298.00	299.00	1.00	344757	Tonalite/Granodiorite - felsic to intermediate composition with mod chl and wk cb, 20% to 30% qe, porp, < 1% qcs, < 1% py
299.00	299.55	0.55	344758	Tonalite/Granodiorite - felsic to intermediate composition with mod chl and wk cb, 20% to 30% qe, porp, < 1% qcs, < 1% py
299.55	300.00	0.45	344759	QTCSW - strong pervasive chl-cb with 10% to 15% qcs/cs, < 1% py
300.00	300.25	0.25	344760	QTCSW - strong pervasive chl-cb with 15% qcs/cs, lower contact with 3 cm wide qs with 5% cpy and 2% po and < 1% py
300.25	301.05	0.80	344761	Sheared Tonalite/Granodiorite - mod ser and wk cb, strongly sh, < 1% qcs, 2% to 3% py>po and < 1% cpy
301.05	301.60	0.55	344762	Sheared Tonalite/Granodiorite - wk to mod ser and wk cb, strongly sh, < 1% qcs, up to 1% py
301.60	302.00	0.40	344763	QCV & Tonalite/Granodiorite - 20 cm QV xcut tonalite/granodiorite, local tour in qv, felsic to intermediate composition, wk sh, < 1% py
302.00	303.00	1.00	344764	Tonalite/Granodiorite - dirty felsic to intermediate composition with mod chl-ser and wk cb, wk sh porp texture, < 1% qcs, < 1% py
303.00	304.00	1.00	344765	Tonalite/Granodiorite - dirty felsic to intermediate composition with mod chl-ser and wk cb, wk sh porp texture, < 1% qcs, < 1% py
304.00	304.65	0.65	344766	Tonalite/Granodiorite - dirty felsic to intermediate composition with mod chl-ser and wk cb, wk sh porp texture, < 1% qcs, < 1% py
304.65	305.60	0.95	344767	Fractured Gabbro -mafic composition with mod chl and wk cb but strong cb in fractures, numerous qcs.cs 10% to 20%, < 1% py
305.60	306.60	1.00	344769	Fractured Gabbro -mafic composition with mod chl and wk cb but strong cb in fractures, numerous qcs.cs 10% to 20%, < 1% py
306.60	307.60	1.00	344770	Fractured Gabbro -mafic composition with mod chl and wk cb but strong cb in fractures, numerous qcs.cs < 1% to 5%, < 1% py
311.50	312.50	1.00	344771	Fractured Gabbro - mafic composition with mod/strong chl and strong cb fractures, 10% to 15% qcs/cs, sh, < 1% py
312.50	312.90	0.40	344772	Weak QTSW/SH - bleached grayish white to white mod sil-ab, sh/banded texture, 10% to 15% qcs/qs, up to 1% cpy in wr and vning with < 1% py-po
312.90	313.15	0.25	344773	Weak QTSW/SH - mod sil-ab, strongly sh bnded, 55 to 10% qs/qcs with 5% to locally 10% cpy with up to 1% to 2% po-py-argentite
313.15	314.00	0.85	344774	Tonalite/Granodiorite - felsic to intermediate composition, wk chl-ser, wk-mod sh, porp, 2% to 4% qcs, local <1% po-cpy-py
314.00	315.25	1.25	344775	Tonalite/Granodiorite - felsic to intermediate composition, wk chl-ser, wk-mod sh, porp, <1% qcs, <1% po-cpy-py
315.25	316.00	0.75	344776	Diabase - mafic composition, vfg and msv, scattered calcite fractures, < 1% py and wk mag
316.00	317.00	1.00	344777	Tonalite/Granodiorite - felsic to intermediate composition, wk chl-ser, wk-mod sh, porp, <1% qcs, <1% py-cpy-po
335.40	336.00	0.60	344778	QE Tonalite/Granodiorite (QP) - mod to strong sh controlled ser, strong sh porp texture, <1% qcs, < 1% py

IAMGOLD CORPORATION

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number **KER15-01** Project: **CHESTER 3B-JACK RABBIT** Project Number: **234**

From (m)	To (m)	Length (m)	Sample #	Comments
336.00	336.60	0.60	344779	QE Tonalite/Granodiorite (QP) - mod to strong sh controlled ser, strong sh porp texture, <1% qcs, < 1% py
336.60	337.60	1.00	344781	Sericite Shear - strong sh controlled ser with 3% to 5% qs parallel to sh, <1% py
337.60	338.00	0.40	344782	Sericite Shear - strong sh controlled ser with 1% to 2% gash cs, 1% vfg disseminated/scattered py
338.00	338.50	0.50	344783	Sericite-Carbonate Shear - srong sh controlled ser with strong cb fractures, 5% to 10% qcs parallel to sh, relict porp, up to 1% vfg disseminated py
338.50	339.00	0.50	344784	QE Tonalite/Granodiorite (QP) - mod to strong sh controlled ser with weak cb, strong sh porp texture, <1% qcs, < 1% py
339.00	340.00	1.00	344785	QE Tonalite/Granodiorite (QP) - mod to strong sh controlled ser with weak cb, strong sh porp texture, <1% to 2% qcs, < 1% py
349.50	350.00	0.50	344786	Felsic to Intermediate Tuff - weak to moderate chl-ser with wk cb, strongly sh, up to 1% qcs, < 1% py
350.00	351.00	1.00	344787	Felsic to Intermediate Tuff - weak to moderate chl-ser with wk cb, strongly sh, < 1% qcs, up to 1% py as diss and associated in qcs with < 1% aspy/arsenian py
351.00	351.50	0.50	344788	Felsic to Intermediate Tuff - weak to moderate chl and wk ser-cb, strongly sh, up to 1% qcs, < 1% py
356.50	357.50	1.00	344789	Felsic to Intermediate Tuff - wk-mod ser>cb, strongly sh, <1% to 5% qcs, < 1% py
357.50	358.50	1.00	344790	Felsic to Intermediate Tuff - wk-mod ser>cb, strongly sh, <10% to20% qcs, < 1% scattered to local py-(aspy) associated qith qcs/cs
358.50	359.50	1.00	344791	Felsic to Intermediate Tuff - wk-mod ser>cb, strongly sh, <1% to 2% qcs, < 1% py
363.00	364.00	1.00	344793	Felsic to Intermediate Tuff - mod to (strong) sil matrix, crackle bx hairline fractures, sh, 2% to 3% qcs, < 1% scattered py
385.85	386.85	1.00	344794	Felsic to Intermediate Tuff - weak chl-cb, mod to strongly sh, 1% to 2% qcs, < 1% py-po
386.85	387.35	0.50	344795	Felsic to Intermediate Tuff - weak to moderate cb and wk chl, mod to strongly sh, <1% to qcs, < 1% py-po
387.35	387.65	0.30	344796	Quartz Carbonate Veinlet - 14 cm wide qtz-cb composition xcut felsic to intermediate tf, 5% to 10% po, 5% py, 1% to 2% sp, and < 1% cpy in qtz-cb veinlet
387.65	388.20	0.55	344797	Felsic to Intermediate Tuff - weak chl-cb, strongly sh, 5% qcs, up to 15 to 2% po in wr/qcs with up to 1% py and < 1% sp-cpy
388.20	389.20	1.00	344798	Felsic to Intermediate Tuff - felsic composition being siliceous, chl bands, vfg and msv, < 1% qcs, <1% py-po
391.00	392.00	1.00	344799	Felsic to Intermediate Tuff to Tuff Breccia - felsic composition fragments with intermediate wk chl tf matrix, fragmental texture, 5% gash cs fractures, occasional py-sp < 1%
397.00	398.00	1.00	344800	Felsic to (Intermediate) Lapilli-Tuff/Tuff Breccia - felsic composition (mos sil) with wk chl-cb tf matrix about fragments, fragmental texture, <1% qcs, < 1% py-po
398.00	399.00	1.00	344801	Felsic to (Intermediate) Lapilli-Tuff/Tuff Breccia - felsic composition (mod sil) with wk chl-cb tf matrix about fragments, fragmental texture, 5% to 7% qcs, up to 1% to 2% py-po-(sp) in 5% to 7% qcs
399.00	400.00	1.00	344802	Felsic to (Intermediate) Lapilli-Tuff/Tuff Breccia - felsic composition with wk chl-cb tf matrix about fragments, fragmental texture, <1%-2% cs/qcs, < 1% py-po

DRILL HOLE REPORT

Hole Number: **KER15-02** Project: **CHESTER 3B-JACK RABBIT** Project Number: **234**

Drilling		Casing		Core		Location		Other	
Azimuth:	251	**Length:**	3	**Dimension:**	NQ	**Claim No.:**	PAT-28524	**Company:**	IAMGOLD
Dip:	-47	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	224	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Adam Waram
Started:	13-Dec-15	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	
Completed:	14-Dec-15	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	
Logged:	20-Jan-16	**Making water:**	no	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: NW Extension of King Errington Main Zone and VLF-EM Anomaly

Comment: Designed to test the NW extension (100m NW of open stope) of the King Errington Main Zone at depth, which returned 1.79 g/t Au, 158 g/t Ag, and 7.51% Cu. This drill hole will also test the intersection on the King Errington Main Zone and the NE trending Errington Creek structure (strong dextral magnetic low break and recessive area), which also coincides with a strong, sharp VLF-EM response and anomaly.

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	434575	**East:**	434575	**East:**	0
North:	5269743	**North:**	5269743	**North:**	0
Elev.:	391	**Elev.:**	391	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
0.00	251.00	-47.00	0	0	0		C	☑	
14.00	250.70	-46.50				55419.3	M	☑	
17.00	250.60	-46.40				55481.7	M	☑	
23.00	249.90	-46.30				55284	M	☑	
26.00	249.70	-46.00				55264.8	M	☑	
29.00	248.70	-46.10				55224.4	M	☑	
32.00	249.20	-46.00				55361	M	☑	
35.00	248.90	-46.10				55174.8	M	☑	
38.00	250.00	-45.80				55266.7	M	☑	
41.00	249.60	-45.90				55240.3	M	☑	
44.00	250.00	-45.90				55249.6	M	☑	
47.00	249.20	-46.00				55166.4	M	☑	
50.00	248.60	-46.10				55250.3	M	☑	
53.00	249.60	-46.10				55186.5	M	☑	
56.00	248.30	-46.00				55114.8	M	☑	

DRILL HOLE REPORT

Hole Number: **KER15-02** Project: **CHESTER 3B-JACK RABBIT** Project Number: **234**

Drilling		Casing		Core		Location		Other	
Azimuth:	251	**Length:**	3	**Dimension:**	NQ	**Claim No.:**	PAT-28524	**Company:**	IAMGOLD
Dip:	-47	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	224	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Adam Waram
Started:	13-Dec-15	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	
Completed:	14-Dec-15	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	
Logged:	20-Jan-16	**Making water:**	no	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: NW Extension of King Errington Main Zone and VLF-EM Anomaly

Comment: Designed to test the NW extension (100m NW of open stope) of the King Errington Main Zone at depth, which returned 1.79 g/t Au, 158 g/t Ag, and 7.51% Cu. This drill hole will also test the intersection on the King Errington Main Zone and the NE trending Errington Creek structure (strong dextral magnetic low break and recessive area), which also coincides with a strong, sharp VLF-EM response and anomaly.

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	434575	**East:**	434575	**East:**	0
North:	5269743	**North:**	5269743	**North:**	0
Elev.:	391	**Elev.:**	391	**Elev.:**	0

Deviation Tests

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
59.00	250.80	-45.60				55138.7	M	☑	
62.00	250.80	-45.60				55142	M	☑	
65.00	250.30	-45.80				55374	M	☑	
74.00	249.30	-45.70				55093.9	M	☑	
80.00	249.50	-45.10				55199	M	☑	
83.00	248.30	-45.50				55020.3	M	☑	
86.00	248.50	-45.30				55049.8	M	☑	
89.00	249.50	-45.10				55207.5	M	☑	
92.00	248.60	-45.20				55096.1	M	☑	
95.00	249.80	-44.90				55131.3	M	☑	
98.00	248.20	-45.10				55191.6	M	☑	
101.00	248.70	-44.80				55222.9	M	☑	
104.00	248.00	-45.00				55494.2	M	☑	
107.00	248.10	-44.70				56481.9	M	☑	
113.00	248.40	-44.70				56154.9	M	☑	
116.00	246.40	-45.00				56339.1	M	☑	

Density Tests

DRILL HOLE REPORT

Hole Number: **KER15-02** Project: **CHESTER 3B-JACK RABBIT** Project Number: **234**

Drilling		Casing		Core		Location		Other	
Azimuth:	251	**Length:**	3	**Dimension:**	NQ	**Claim No.:**	PAT-28524	**Company:**	IAMGOLD
Dip:	-47	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	224	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Adam Waram
Started:	13-Dec-15	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	
Completed:	14-Dec-15	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	
Logged:	20-Jan-16	**Making water:**	no	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: NW Extension of King Errington Main Zone and VLF-EM Anomaly

Comment: Designed to test the NW extension (100m NW of open stope) of the King Errington Main Zone at depth, which returned 1.79 g/t Au, 158 g/t Ag, and 7.51% Cu. This drill hole will also test the intersection on the King Errington Main Zone and the NE trending Errington Creek structure (strong dextral magnetic low break and recessive area), which also coincides with a strong, sharp VLF-EM response and anomaly.

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	434575	**East:**	434575	**East:**	0
North:	5269743	**North:**	5269743	**North:**	0
Elev.:	391	**Elev.:**	391	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
119.00	247.40	-44.60				56350.7	M	☑	
122.00	247.00	-45.00				55674.2	M	☑	
125.00	248.90	-45.00				55411.3	M	☑	
128.00	249.80	-44.90				57197	M	☑	
131.00	249.90	-44.70				55447.9	M	☑	
134.00	250.00	-44.70				55558.1	M	☑	
140.00	249.70	-44.90				55253.3	M	☑	
143.00	250.70	-44.50				55285.7	M	☑	Strong magnetics
146.00	250.90	-44.40				55334.9	M	☑	
149.00	251.00	-44.50				55320.6	M	☑	
152.00	250.60	-44.50				55289.2	M	☑	
155.00	251.30	-44.50				57947.9	M	☑	
161.00	250.20	-44.80				57247.5	M	☑	
164.00	250.40	-44.80				57340.5	M	☑	
167.00	249.00	-44.50				55197.6	M	☑	
170.00	250.20	-44.50				55190.5	M	☑	

DRILL HOLE REPORT

Hole Number: **KER15-02** Project: **CHESTER 3B-JACK RABBIT** Project Number: **234**

Drilling		Casing		Core		Location		Other	
Azimuth:	251	**Length:**	3	**Dimension:**	NQ	**Claim No.:**	PAT-28524	**Company:**	IAMGOLD
Dip:	-47	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	224	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Adam Waram
Started:	13-Dec-15	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	
Completed:	14-Dec-15	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	
Logged:	20-Jan-16	**Making water:**	no	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: NW Extension of King Errington Main Zone and VLF-EM Anomaly

Comment: Designed to test the NW extension (100m NW of open stope) of the King Errington Main Zone at depth, which returned 1.79 g/t Au, 158 g/t Ag, and 7.51% Cu. This drill hole will also test the intersection on the King Errington Main Zone and the NE trending Errington Creek structure (strong dextral magnetic low break and recessive area), which also coincides with a strong, sharp VLF-EM response and anomaly.

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	434575	**East:**	434575	**East:**	0
North:	5269743	**North:**	5269743	**North:**	0
Elev.:	391	**Elev.:**	391	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
173.00	249.30	-44.50				55136.7	M	☑	
176.00	249.70	-44.60				55165.3	M	☑	
179.00	250.60	-44.40				55317.3	M	☑	
182.00	249.70	-44.70				55303.4	M	☑	
185.00	250.70	-44.50				55387.5	M	☑	
188.00	250.60	-44.50				55403.1	M	☑	
191.00	250.30	-44.40				55356.3	M	☑	
194.00	250.90	-44.30				55376.1	M	☑	
197.00	250.70	-44.50				55427.9	M	☑	
200.00	250.90	-44.40				55582.1	M	☑	
206.00	251.20	-44.30				55416.9	M	☑	
209.00	250.40	-44.60				55353.4	M	☑	
212.00	250.60	-44.50				55300	M	☑	
215.00	251.60	-44.30				55409.7	M	☑	
218.00	251.50	-44.20				55356.3	M	☑	
221.00	251.70	-44.30				55403.3	M	☑	

DRILL HOLE REPORT

Hole Number: **KER15-02** Project: **CHESTER 3B-JACK RABBIT** Project Number: **234**

Drilling		Casing		Core		Location		Other	
Azimuth:	251	**Length:**	3	**Dimension:**	NQ	**Claim No.:**	PAT-28524	**Company:**	IAMGOLD
Dip:	-47	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	224	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Adam Waram
Started:	13-Dec-15	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	
Completed:	14-Dec-15	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	
Logged:	20-Jan-16	**Making water:**	no	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: NW Extension of King Errington Main Zone and VLF-EM Anomaly

Comment: Designed to test the NW extension (100m NW of open stope) of the King Errington Main Zone at depth, which returned 1.79 g/t Au, 158 g/t Ag, and 7.51% Cu. This drill hole will also test the intersection on the King Errington Main Zone and the NE trending Errington Creek structure (strong dextral magnetic low break and recessive area), which also coincides with a strong, sharp VLF-EM response and anomaly.

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	434575	**East:**	434575	**East:**	0
North:	5269743	**North:**	5269743	**North:**	0
Elev.:	391	**Elev.:**	391	**Elev.:**	0

Deviation Tests

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
224.00	251.50	-44.30				55463.4	M	☑	

Density Tests

LITHOLOGY REPORT
- Detailed -

Hole Number **KER15-02** Project: **CHESTER 3B-JACK RABBIT** Project Number: **234**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
0.00	4.30	**Overburden** **OB** ***Overburden***	3	3	BR
		Overburden - sand and numerous boulders			
4.30	16.45	**Fresh Rock** **8D** ***Granodiorite-Monzodiorite/Quartz Diorit***	1	1	GG
		Granodiorite-Monzodiorite/Quartz Diorite - light grayish-green, green, and pinkish-gray and pinkish-green color, intermediate composition with wk calcite-rich cb of matrix with numerous calcite fractures in more silicified section from 11.2 to 16.45, mg (<0.2 to 0.3 cm) fd>qtz (5% to 10%) in an amp-chl-cb interstitial matrix, strongly altered from…			
		9.15 to 9.55 - strong pervasive ser in matrix, gradational upper contact and sharp lower contact 51 from C.A.			
		11.2 to 16.45 - strong pervasive sil (cherty-like) vfg altered matrix becoming gradationally more intense from 11.7 to 16.45 with numerous, thin, hairline calcite fractures			
		- sub-porphyritic/sub-equigranular texture from 4.3 to 8.5 being gradually more finer grained and cherty like from 11.2 to 16.45, numerous thin hairline calcite fractures associated with increased sil…randomly oriented fractures, poorly developed sh/bnding and locally shows bx texture, < 1% qcs/qs			
		Mineralization - occasional to widely scattered py < 1%			
		Contact - sharp contact 42 from C.A.			

Alteration Maj:	Type/Style/Intensity	Comment
4.30 - 9.15	CB MX 1	Carbonatization, Matrix, Very weak
9.15 - 9.55	SR MX 4	Sericitization, Matrix, Strong
9.55 - 11.20	CB MX 2	Carbonatization, Matrix, Weak
11.20 - 16.45	SI FRC 3	Silicification, Along Fractures, Moderate

Mineralization Maj. :	Type/Style/%Mineral	Comment
4.30 - 16.45	Py BLB 0.5	Pyrite, Blebs, 0.5%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
344803	4.50	5.50	1.00	0	-	0.01	0.01	-
344804	11.20	12.20	1.00	<0	-	<0.01	-	-
344805	12.20	13.20	1.00	<0	-	<0.01	-	-
344806	13.20	14.20	1.00	<0	-	<0.01	-	-
344807	14.20	15.20	1.00	<0	-	<0.01	-	-
344808	15.20	16.45	1.25	<0	-	<0.01	-	-

Hole Number **KER15-02** Project: **CHESTER 3B-JACK RABBIT** Project Number: **234**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
16.45	31.00	**Fresh Rock** **7B** ***Diorite-(Gabbro)***	1	1	GR	344809	25.30	26.00	0.70	<0	-	<0.01	-	-
						344810	26.00	26.50	0.50	<0	-	<0.01	-	-
						344811	26.50	27.50	1.00	<0	-	<0.01	-	-
						344813	27.50	27.90	0.40	<0	-	<0.01	-	-
						344814	27.90	29.00	1.10	<0	-	<0.01	-	-
						344815	29.00	29.50	0.50	<0	-	<0.01	-	-

Diorite/Gabbro - green to light grayish green color with local pinkish gray coloration in silicified area, intermediate to (mafic) composition being lecocratic with fd.amp-chl and < 5% qtz, strong pervasive sil (cherty-like) from 25.3 to 27.9, overall wk cb with strong pervasive calcite-rich cb in matrix from 27.9 to 30.85.

- sub-equigranular texture with moderate to strong sh at upper contact from 16.45 to 18.5 with well deveoped buckled crenulation cleavage trending 0 from C.A., also strongly sheared from 27.9 to 31.9, shearing trending 36 to 41 from C.A., scattered qv/qcs/qcv up to 10 cm wide with increased veining 10% to 25% from 26.0 to 27.5 associated with pinkish hue strong sil wallrock.

Mineralization - occasional to widely scattered py < 1%
Contact - sharp/gradational contact

Alteration Maj:	***Type/Style/Intensity***	***Comment***
16.45 - 25.30	CB MX 1	Carbonatization, Matrix, Very weak
16.45 - 25.30	CL MX 2	Chloritization, Matrix, Weak
25.30 - 27.90	SI MTV 4	Silicification, Marginal to veins, Strong
27.90 - 31.00	CL MX 2	Chloritization, Matrix, Weak to Moderate
27.90 - 31.00	CB PV 4	Carbonatization, Pervasive, Strong

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
16.45 - 31.00	Py BLB 0.5	Pyrite, Blebs, 0.5%

LITHOLOGY REPORT
- Detailed -

Hole Number **KER15-02** Project: **CHESTER 3B-JACK RABBIT** Project Number: **234**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
31.00	42.55	**Fresh Rock** **8D** ***Granodiorite-Monzodiorite/Quartz Diorit***	1	1	GG

Granodiorite-Monzodiorite/Quartz Diorite - greensih-gray to light green colors, intermediate in composition being finer grained and relatively more chloritic from 31.0 to 35.25 with sharp (gradual) coarser grained section from from 35.25 to 42.55 (xtl settling), 20% to 30% feldspar (albite) phenocrysts in a weak to (moderate) chl.cb interstitial matrix, < 5% local bluish gray fg to mg qe up to 5%, local chl shears (up to 3 cm wide) and as fractures.

- massive texture from 31.0 to 35.25 being porphyritic to sub-porphyritic texture to 42.55, none to weak sh 40 to 45 from C.A., occasional qcs/qs < 1%

Mineralization - occasional to widely scattered py with overall < 1%, local increase in scattered py ranging 1% to 2% associated with increased chl alteration from 34.0 to 35.25
Contact - sharp sheared contact 64 from C.A.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
31.00 - 42.55	CB MX 1	Carbonatization, Matrix, Very weak
31.00 - 42.55	CL MX 2	Chloritization, Matrix, Weak to locally moderate

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
31.00 - 34.00	Py BLB 1	Pyrite, Blebs, <1% occasional
34.00 - 35.25	Py DIS 2	Pyrite, Disseminated, 1% to 2%
35.25 - 42.55	Py BLB 1	Pyrite, Blebs, <1% occasional

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
344816	33.00	34.00	1.00	<0	-	<0.01	-	-
344817	34.00	35.25	1.25	<0	-	<0.01	-	-
344818	35.25	35.75	0.50	<0	-	<0.01	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
42.55	44.35	**Fresh Rock** **7Cm** ***Melanocratic Gabbro Dyke***	1	1	DGR

Melanocratic Gabbro Dyke - dark green to green color, mafic composition with mod chl-(amp) and strong peravasive vfg calcite-rich carbonate matrix; massive vfg to wk-moderate sh near both contacts 60 from C.A., 17 cm wide granodiorite/quartz-diorite xenolith at 43.45, < 1% qcs/qs

Mineralization - <1% py and non-magnetic
Contact - sharp upper and lower contact with well developed chill zones with sharp lower contact 82 from C.A.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
42.55 - 44.35	CL MX 3	Chloritization, Matrix, Moderate

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		42.55 - 44.35 CB MX 4 Carbonatization, Matrix, Strong												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		42.55 - 44.35 Py BLB 0.5 Pyrite, Blebs, 0.5%												
44.35	60.70	**Fresh Rock** **8D** ***Granodiorite-Monzodiorite/Quartz Diorit***	1	1	GG	344819	60.00	60.70	0.70	<0	-	<0.01	-	-
		Granodiorite-Monzodiorite/Quartz Diorite - speckled greenish-grsay, greenish-white, and green colors, intermediate composition being strongly feldspathic (albitic) with weak to moderate chl altered amp (20%), <1% to 5% quartz, scattered to disseminated vfg to fg white leucoxene < 1% to 10% with increased leucoxene to 10% in chl shears and more chloritic fractures/sh, scattered and localized green to dark green chl shears up to 20 cm wide and frequent chl fractures.												
		- sub-equigranular with fg to mg phanertic texture, scattered qs/qcs < 1%, wallrocksheared/foliated (38 from C.A.) intermediate tuff wallrock xenolith from 57.75 to 58.30 at 50 and 43 from C.A., respectively.												
		Mineralization - occasional < 1% py and non-magnetic Contact - sharp, sheared contact 58 from C.A.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		44.35 - 60.70 LX DISS 2 Leucoxene, Disseminated, Weak and ranges < 1% to 10%												
		44.35 - 60.70 CL MX 2 Chloritization, Matrix, Weak to Moderate												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		44.35 - 60.70 Py BLB 0.5 Pyrite, Blebs, 0.5%												

LITHOLOGY REPORT
- Detailed -

Hole Number **KER15-02** Project: **CHESTER 3B-JACK RABBIT** Project Number: **234**

From (m)	To (m)	Lithology			Weathering	Oxidation	Colour
60.70	75.85	**Fresh Rock**	**SH**	***Sheared Felsic to Intermediate Tuff-Lapi***	1	1	GR

Sheared Felsic to Intermediate Tuff/Lapilli Tuff - gree, grayish green, and brownish-greenish-gray colors, intermediate matrix with overall mod chl tuffaceous matrix about felsic fragments, variable weak to (moderate) ankerite or dolomite carbonate alteration, 25% to 40% monolithic felsic fragments < 0.5 to 5 cm (form as bands), occasional white leucoxene < 1%, fragmental texture.

- strongly sheared with core angles decreasing with depth as from….

60.7 to 66.0 - 55 to 63 from C.A.
66.0 to 75.85 - 19 to 45 from C.A. with decreasing core angles to 75.85

- occasional to numerous qs/qcs (up to 5 cm wide) with increased fracturing 5% to 25% from 67.9 to 73.3 with deformed qs/qcs forming as styolitic veins (chl septae) and as lense and pod-like features (boudinage detached vns) from 71.0 to 73.3, local fuschite in vns from 68.4 to 68.85

67.9 to 68.85 - Quartz Stockwork - 15% to 25% qs/qcs with local fuschite parallel to sh, strongly sh and fractured, up to 1% to 3% scattered py

Mineralization -occasional to weakly disseminated py < 1% to 4% with increased py (1% to 4%) from 64.65 to 68.85 as disseminations in wr/qs/qcs and as py replacement shears
Contact - sharp contact 25 from C.A.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
60.70 - 75.85	LX DISS 1	Leucoxene, Disseminated, Very weak < 1%
60.70 - 75.85	CL MX 3	Chloritization, Matrix, Moderate

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
60.70 - 64.65	Py DIS 1	Pyrite, Disseminated, <1%
64.65 - 68.85	Py DIS 2	Pyrite, Disseminated, <1% to 4%
68.85 - 75.85	Py DIS 1	Pyrite, Disseminated, <1%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
344820	60.70	61.80	1.10	<0	-	<0.01	-	-
344821	61.80	62.70	0.90	<0	-	<0.01	-	-
344822	62.70	63.05	0.35	<0	-	<0.01	-	-
344823	63.05	64.15	1.10	<0	-	<0.01	-	-
344825	64.15	64.65	0.50	<0	-	<0.01	-	-
344826	64.65	65.20	0.55	<0	-	<0.01	-	-
344827	65.20	65.80	0.60	<0	-	<0.01	-	-
344828	65.80	66.60	0.80	<0	-	<0.01	-	-
344829	66.60	67.30	0.70	<0	-	<0.01	-	-
344830	67.30	67.90	0.60	<0	-	<0.01	-	-
344831	67.90	68.40	0.50	<0	-	<0.01	-	-
344832	68.40	68.85	0.45	<0	-	<0.01	-	-
344833	68.85	70.00	1.15	<0	-	<0.01	-	-
344834	70.00	71.00	1.00	<0	-	<0.01	-	-
344835	71.00	72.00	1.00	<0	-	<0.01	-	-
344837	72.00	72.80	0.80	<0	-	<0.01	-	-
344838	72.80	73.30	0.50	<0	-	<0.01	-	-
344839	73.30	74.00	0.70	<0	-	<0.01	-	-
344840	74.00	74.75	0.75	<0	-	<0.01	-	-
344841	74.75	75.85	1.10	<0	-	<0.01	-	-

Minor Interval:

67.90	68.85	Fresh Rock	QTS W	*Quartz Stockwork*	1

67.9Quartz Stockwork - 15% to 25% qs/qcs with local fuschite parallel to sh, strongly

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		sh and fractured, up to 1% to 3% scattered py												
75.85	77.85	**Fresh Rock** **7B** ***Diorite-(Gabbro) Dyke***	1	1	LGR	344842	75.85	76.65	0.80	<0	-	<0.01	-	-
		Diorite-(Gabbro) Dyke - light green, green, to grayish green color, intermediate to (mafic) composition with moderate to strong pervasive calcite-rich carbonate alteration of matrix (cb alteration of amphiboles) with weak chl alteration of matrix, bleached white sil-ab alteration band (12 cm wide) at 77.3 with upper and lower contacts 50 and 70 from C.A., respectively.				344843	76.65	77.50	0.85	<0	-	<0.01	-	-
						344844	77.50	77.85	0.35	<0	-	<0.01	-	-
		- very-fine grained and aphanitic, massive appearance with strong sheared section from 76.65.0 to 77.5 as seen as irregular dyke contact with above section, < 1% qcs/qs.												
		Mineralization - occasional to widely scattered py < 1% Contact - sharp contact 55 from C.A.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		75.85 - 77.85 CL MX 2 Chloritization, Matrix, Weak to Moderate												
		75.85 - 77.85 CB MX 3 Carbonatization, Matrix, Moderate to Strong												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		75.85 - 77.85 Py BLB 0.5 Pyrite, Blebs, <0.5%												
Minor Interval:														
76.65	77.50	Fresh Rock SH *Sheared Felsic to Intermediate Tuff*	1											
		Sheared Felsic to Intermediate Tuff - grayish green color, altered felsic to intermediate composition with moderate to strong pervasive cb and moderate chl alteration, local bleached white sil-ab at lower contact for 12 cm adjacent the qcs, strpongly sheared 25 from C.A., < 1% to 5% qcs/cs parallel to sh												
		Mineralization - occasional py < 0.5% Contact - sharp upper and lower contract 43 and 55 from C.A.,respectively												

Hole Number **KER15-02** Project: **CHESTER 3B-JACK RABBIT** Project Number: **234**

From (m)	To (m)	Lithology			Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
77.85	80.00	**Fresh Rock**	**QTCSW**	***Quartz-(Carbonate) Stockwork***	1	1	GR	344845	77.85	78.35	0.50	<0	-	<0.01	-	-
								344846	78.35	78.85	0.50	<0	-	<0.01	-	-
								344847	78.85	79.35	0.50	<0	-	<0.01	-	-
								344849	79.35	80.00	0.65	<0	-	<0.01	-	-

Quartz-Carbonate Stockwork - green, dark green, and grayish-white colors, strong pervasive dark green Fe-rich chl alteration with mod calcite-rich cb alteration of vfg wallrock matrix; strongly sh and fractured texture with 20% to 30% irregular oriented and discontinuous qcs/qs up to 6 cm wide, <1% to 2% local tourmailine in veining, strongly sheared 20 to 30 from C.A.

Mineralization - occasional < 1% py
Contact -gradational decrease in qcs/qs

Alteration Maj:	***Type/Style/Intensity***	***Comment***
77.85 - 80.00	CB MX 3	Carbonatization, Matrix, Moderate
77.85 - 80.00	CL PV 4	Chloritization, Pervasive, Strong

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
77.85 - 80.00	Py BLB 1	Pyrite, Blebs, < 1% occasional

80.00	87.05	**Fresh Rock**	**7Cm**	***Melanocratic Gabbro***	1	1	GR	344850	80.00	81.00	1.00	<0	-	<0.01	-	-

Melanocratic Gabbro - green color, mafic in composition being melanocratic (amp-chl>fd) with moderate chl of amp-rich matrix with moderate to strong calcite-rich carbonate from 80.0 to 83.0, gradually weaker to very weak cb from 83.0 to 87.07, vfg with gradual coarser grained at depth with 20% to 30% vfg/fg (<0.20 cm) amphiboles in a vfg amp-chl-fd matrix, massive sub-porphyroblastic to sub-equigranular texture with frequent to (numerous) calcite and qcs fractures from 80.0 to 86.0 averaging 5% to 10%, fractures are randomly oriented and are probably gash fractures, weakly foliated/sheared 30 to 35 from C.A. near upper part of interval from the QTCSW.

Mineralization - occasional to widely scattered cubic grains/splashes of py < 0.5%
Contact - sharp contact 7 from C.A.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
80.00 - 83.00	CL MX 3	Chloritization, Matrix, Moderate
80.00 - 83.00	CB MX 3	Carbonatization, Matrix, Moderate to Strong

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		83.00 - 87.05 CB MX 2 — Carbonatization, Matrix, Weak to Very Weak with depth												
		83.00 - 87.05 CL MX 3 — Chloritization, Matrix, Moderate												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		80.00 - 87.05 Py BLB 0.5 — Pyrite, Blebs, <0.5% occasional to widely scattered												
87.05	90.35	**Fresh Rock** **14B** ***Diabase Dyke***	1	1	GR									
		Diabase Dyke - pistachio green to green color, mafic composition with strong epidiote/sauss alteration of matrix about amphiboles/pyroxene, fine grained (<0.1 cm), sub-ophitic to sub-equigranular texture, occasional qcs/qs < 1%.												
		Mineralization - barren to occasional py < 0.5% and non-magnetic Contact - sharp contact 32 from C.A.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		87.05 - 90.35 EP MX 4 — Epidotization/Saussurtization, Matrix, Strong												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		87.05 - 90.35 Py BLB 0.5 — Pyrite, Blebs, <0.5%												
90.35	94.75	**Fresh Rock** **7C** ***Gabbro***	1	1	GR									
		Gabbro - green to picstachio green color, mafic in composition with weak cb and strong patchy fracture-controlled epidote from 92.6 to 94.75, vfg and massive with frequent calcite-epidote fractures (up to 12 cm wide) ranging < 1% to 3%.												
		Mineralization - barren to occasional py < 1% Contact - sharp, fractured and brecciated contact 55 from C.A.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												

Hole Number **KER15-02** Project: **CHESTER 3B-JACK RABBIT** Project Number: **234**

From (m)	To (m)		Lithology			Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		90.35 - 92.60	CB	MX	2	Carbonatization, Matrix, Weak											
		92.60 - 94.75	CB	MX	2	Carbonatization, Matrix, Weak											
		92.60 - 94.75	EP	FRC	4	Epidotization, Along Fractures, Strong											
		Mineralization Maj. :	***Type/Style/%Mineral***			***Comment***											
		90.35 - 94.75	Py	BLB	0.5	Pyrite, Blebs, <0.5% to barren											
94.75	125.60	**Fresh Rock**	**14B**	***DiabaseDyke (Biscotasing)***		1	1	GR									
		Diabase Dyke - dark greenish black to green color, mafic composition with weak to no carbonate, vfg ferromagnesian-rich matrix of amp-px-calcic-fd-ep about 20% to 30% mg (up to 0.2 to 0.3 cm) white/greenish-white calcic plagioclase, sub-ophitic/sub-porphyritic texture, occasional qcs/qs < 1%															
		Mineralization - barren to occasional <0.5% py-po, weakly magnetic with up to 1% magnetite															
		Contact - sharp with gradational contact with assimilated wallrock, gradationally finer grained chill margin from 124.6 to 125.6															
		Alteration Maj:	***Type/Style/Intensity***			***Comment***											
		94.75 - 125.60	CB	MX	1	Carbonatization, Matrix, Very weak											
		Mineralization Maj. :	***Type/Style/%Mineral***			***Comment***											
		94.75 - 125.60	Py	BLB	0.5	Pyrite, Blebs, <0.5% to barren											
125.60	146.50	**Fresh Rock**	**14B**	***Diabase***		1	1	GR	344851	127.00	128.00	1.00	<0	-	<0.01	-	-
		Diabase - similar in description from 87.05 to 90.35 with….															
		1) strong ep/sauss alteration of matrix about amp/pyx 2) moderate to (strong) calcite fracturing from 125.6 to 130.7 with 10% to 25% cs.qcs (up to 5 cm wide) with bleached gray coloration of matrix about foliated mg to cg (up to 0.5 cm) chloritoid or amphibole from 125.6 to 128.4 giving a porphyroblastic texture.															

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)

3) scattered qcs/cs up to 7 cm wide

Mineralization - barren to <1% py-po; weak to non-magnetic with up to 1% magnetite
Contact - sharp contact 90 from C.A.

Alteration Maj:	Type/Style/Intensity	Comment
125.60 - 128.40	AM DISS 3	Amphibolitization or Chloritoid, Disseminated, Moderate

Mineralization Maj. :	Type/Style/%Mineral	Comment
125.60 - 146.50	Py BLB 0.5	Pyrite, Blebs, <0.5% to barren

146.50 161.70 **Fresh Rock** **14B** ***Matachewan Diabase*** 1 1 BLK

Matachewan Diabase - black to dark blackish green color, mafic composition with vfg (<0.05 cm) sauss calcic feldspar in a vfg aphanitic, ferromagnesian-rich chilled matrix, scattered < 1% mg to cg (up to 0.5 cm) light pistachio colored sauss/ep altered calcic-plagioclase phenocrysts.

- vfg and massive texture with hem altered Chester granodiorite inclusions at 146.6 (6 cm band), from 146.9 to 148.0, and at 153.75 (3 cm in size), occasional qs/qcs < 1%

Mineralization - occasional py-po < 0.5%, weakly magnetic with up to 1% magnetite
Contact - sharp contact 60 from C.A.

Alteration Maj:	Type/Style/Intensity	Comment
146.50 - 161.70	EP AFG 1	Epidotization/Saussurtization, Alteration of feldspar grains, Very weak

Mineralization Maj. :	Type/Style/%Mineral	Comment
146.50 - 161.70	Py BLB 0.5	Pyrite, Blebs, <0.5% to barren

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
Minor Interval:														
146.90	148.00	Fresh Rock 8D *Granodiorite-Monzodiorite Raft*		1										
		Granodiorite-Monzodiorite Raft - pinkish gray color, intermediate composition with patchy wk-moderate hem, numerous hairline fractures and crackle fracturing, <1% py												
		Contacts - sharp upper and lower contacts 59 and 68 from C.A., respectively.												
161.70	166.25	**Fresh Rock FLTbx *Fault Breccia***	1	1	GREBL	344852	161.70	162.70	1.00	0	-	0.01	-	-
		Fault Breccia - dark greenish black to dark green color, dark greenish black to dark green colors, variable altered composition with overall moderate to locally strongly silicified with sil-amp-rich matrix about fractured and granulated qtz-rich 'clasts' ranging 1 to 2 cm in size and occasionally up to 4 cm, 'clasts' are sub-angular to sub-rounded often showing jagged edges.				344853	162.70	163.70	1.00	<0	-	<0.01	-	-
						344854	163.70	164.70	1.00	<0	-	<0.01	-	-
						344855	164.70	165.70	1.00	<0	-	<0.01	-	-
		- breccia texture, moderately sheared varying 25 to 63 from C.A. with lower core angles from about 163.75 to 165.5, frequent to numerous calcite annealment fractures (5%) and hairline fractures giving a brecciated, crackle fracture appearance.				344856	165.70	166.25	0.55	<0	-	<0.01	-	-
		Mineralization - occasional bleb of py and po < 1% Contact - sharp contact 49 from C.A.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		161.70 - 166.25 SI FRG 3 Silicification, Fragments, Moderate and Variable												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		161.70 - 166.25 Py BLB 1 Pyrite, Blebs, <1% occasional												
166.25	166.90	**Fresh Rock QTCSW *Quartz-Carbonate & Albite Breccia***	1	1	GY	344857	166.25	166.90	0.65	0	-	0.05	-	-
		Quartz-Carbonate Breccia - grayish-white and green color, variable alteration with strong carbonate-(chlorite) from 166.25 to 166.65 and bleached white albitized-silicified alteration from 166.65 to 166.9, 10% to 20% veining in the form of qcs/qcv 55 from C.A., fractured and breccia texture												

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Mineralization - 1% to 3% scattered py-po generally in cb-chl rich veined upper part of the interval with < 1% py-po in bleached white lower ab-sil interval Contact - sharp contact 50 to 70 from C.A.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		166.25 - 166.65 CL MX 2 Chloritization, Matrix, Weak												
		166.25 - 166.65 CB PV 4 Carbonatization, Pervasive, Strong associated with veining as well												
		166.65 - 166.90 SI BNDS 4 Silicification, Bands/Banded, Strong												
		166.65 - 166.90 AB BNDS 4 Albitization, Bands/Banded, Strong												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		166.25 - 166.90 Po DIS 1 Pyrrhotite, Disseminated, 1%												
		166.25 - 166.90 Py DIS 2 Pyrite, Disseminated, 1% to 2%												
166.90	177.80	**Fresh Rock** **4F** ***Felsic to (Intermediate) Tuff xcut by Ga***	1	1	GG	344858	166.90	168.00	1.10	<0	-	<0.01	-	-
						344859	168.00	169.00	1.00	<0	-	<0.01	-	-
						344861	169.00	170.00	1.00	<0	-	<0.01	-	-
						344862	170.00	171.00	1.00	<0	-	<0.01	-	-
		Felsic to Intermediate Tuff (xcut by Gabbro) - dark greenish gray and dark gray color, felsic to intermediate in composition with weak to mod sil-(ser) from 166.9 tpo 171.3 and from 172.8 to 177.8, weak to moderate chl and weak calcite-rich carbonate. - strongly sheared 17 to 45 from C.A. with relict banding/laminations (cherty-like volcaniclastic) with sil cherty bands from 173.8 to 177.0 parallel to shearing, < 1% to 5% qcs as lenses and pods parallel to sh 171.3 to 172.8 - Gabbro - green color, mafic composition with moderate chl and mod to strong pervasive carbonate, mod sheared, up to 1% to 2% thin cs/qcs, < 1% py. Contact - sharp low angle upper and lower contacts 10 from C.A. Mineralization - occasional to widely scattered py-po < 1% Contact - sharp contact 58 from C.A. with up to 3 cm wide cs/qcs and gradual increase in calcite fracturing towards lower contact												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		166.90 - 171.30 SR PV 1	Sericitization, Pervasive, Very weak											
		166.90 - 171.30 SI PV 2	Silicification, Pervasive, Weak to Moderate											
		171.30 - 172.80 CL MX 3	Chloritization, Matrix, Moderate											
		172.80 - 177.80 SR PV 2	Sericitization, Pervasive, Weak											
		172.80 - 177.80 SI PV 3	Silicification, Pervasive, Weak to Moderate											
		Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***										
		166.90 - 177.80	Py BLB 1	Pyrite, Blebs, <1% occasional to widely scattered										

Minor Interval:

171.30 172.80 Fresh Rock 7C *Gabbro* 1

Gabbro - green color, mafic composition with moderate chl and mod to strong pervasive carbonate, mod sheared, up to 1% to 2% thin cs/qcs, < 1% py. Contact - sharp low angle upper and lower contacts 10 from C.A.

177.80 182.70 **Fresh Rock** **7Cm** ***Melanocratic Gabbro*** 1 1 GR

Melanocratic Gabbro - green color, mafic in composition being melanocratic with amp-chl>fd, mod chl of amphiboles and feldspar with stronger chl associated with sheared section from 177.8 to 179.1, weak to (moderate) pervasive calcite carbonate of the matrix, widely scattered vfg to fg white leucoxene 1% to 2% with local 5%.

- strongly sheared at upper contact area 30 from C.A. from 177.8 to 179.1 (sharp contact) associated with 5% to 10% cs/qcs with remaining section being sub-equigranular and up to 1% to 2% qcs/qs

Mineralization - occasional py-po < 1% and being non-magnetic
Contact - sharp contact 75 from C.A.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
177.80 - 182.70	CL MX 2	Chloritization, Matrix, Weak
177.80 - 182.70	CB MX 2	Carbonatization, Matrix, Weak to (Moderate)

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
177.80 - 182.70	Py BLB 1	Pyrite, Blebs, <1% occasional

Hole Number **KER15-02** Project: **CHESTER 3B-JACK RABBIT** Project Number: **234**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
182.70	198.50	**Fresh Rock** **4G** ***Felsic to (Intermediate) Lapilli-Tuff-Tuff***	1	1	GY

Felsic to (Intermediate) Lapilli-Tuff-Tuff Breccia - dark gray to greenish gray color, felsic to (intermediate) in composition with vfg intermediate matrix (wk-mod chl) about angular to sub-angular cherty felsic fragments ranging 25% to 35%, commonly 1 to 3 cm insize, with some fragments up to 5 cm in size, scattered fd>qtz crystals with local concentrations up to 10%, fragment supported and well developed fragmental texture.

- strong chl>ser and wk cb shear from 194.35 to 198.0 with low angle core angles between 0 and 20 from C.A., overall weakly foliated fragmental 48 to 55 from C.A., occasional to widely scattered qcs/cs < 1% to 5%.

Mineralization - occasional py < 1% with increase in py from 194.35 to 195.65 highlighted by a 3 cm wide cs with 20% to 30% disseminated py and < 1% to 3% scattered py in wallrock, associated at upper interval of sh and with strong chl

Contact - sharp contact 40 from C.A.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
182.70 - 198.50	SI FRG 3	Silicification, Fragments, Moderate, Cherty-Like Fragments
182.70 - 198.50	CL MX 1	Chloritization, Matrix, Very weak

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
182.70 - 194.35	Py BLB 1	Pyrite, Blebs, <1% occasional
194.35 - 195.60	Py DIS 1	Pyrite, Disseminated, <1% to 2% (20% to 30% diss py in 3 cm wide calcite stringer)
195.60 - 198.50	Py BLB 1	Pyrite, Blebs, <1% occasional

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
344863	187.00	188.00	1.00	<0	-	<0.01	-	-
344864	193.35	193.85	0.50	<0	-	<0.01	-	-
344865	193.85	194.35	0.50	<0	-	<0.01	-	-
344866	194.35	194.85	0.50	0	-	0.02	-	-
344867	194.85	195.65	0.80	0	-	0.04	-	-
344868	195.65	196.70	1.05	0	-	0.04	-	-
344869	196.70	197.30	0.60	<0	-	<0.01	-	-
344870	197.30	198.00	0.70	<0	-	<0.01	-	-
344871	198.00	198.50	0.50	<0	-	<0.01	-	-

LITHOLOGY REPORT
- Detailed -

Hole Number **KER15-02** Project: **CHESTER 3B-JACK RABBIT** Project Number: **234**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
Minor Interval:														
194.35	195.65	Fresh Rock SH *Chlorite-(Sericite) Shear/Shear Zone*		1										
		Chlorite-(Sericite) Shear - green color, strongly chl>ser>cb and strongly sheared 0 to 20 from C.A., vfg, < 1% to local 10% qcs/cs at upper part of interval. Mineralization - <15 to 3% disseminated py in wallrock highlighted by a 3 cm wide cs with 20% to 30% disseminated py Contact - gradational/sharp												
198.50	199.60	**Fresh Rock 7C *Gabbro***	1	1	GR	344873	198.50	199.00	0.50	<0	-	<0.01	-	-
		Gabbro - green color, mafic composition being melanocratic with amp>fd, strong pervasive calcite-rich carbonate alteration of matrix, vfg and massive, occasional qcs/cs up to 1 cm wide. Mineralization - bareen to < 0.5% py and non-magnetic Contact - sharp sheared contact 35 from C.A.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		198.50 - 199.60 CL MX 2 Chloritization, Matrix, Weak												
		198.50 - 199.60 CB MX 4 Carbonatization, Matrix, Strong												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		198.50 - 199.60 Py BLB 0.5 Pyrite, Blebs,< 0.5% to barren												
199.60	203.80	**Fresh Rock 4F *Felsic to (Intermediate) Tuff-Lapilli Tuff***	1	1	GY	344874	202.30	203.30	1.00	<0	-	<0.01	-	-
		Felsic to (Intermediate) Tuff-Lapilli Tuff - dark gray to greenish gray color, felsic to (intermediate0 in composition with weak chl-cb, vfg intermediate matrix about 20% to 30% cherty sil sub-rounded and sheared clasts ranging from 1 to 2 cm in size; tight fragment supported with crackle bx appearance; moderately foliated 0 to 10 from C.A., occasional qcs/cs < 1%.				344875	203.30	204.30	1.00	<0	-	<0.01	<0.01	-
		Mineralization - occasional bleb of py < 1% Contact - sharp sheared contact												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		199.60 - 203.80 CL MX 2 Chloritization, Matrix, Weak to locally Moderate												
		199.60 - 203.80 SI FRG 3 Silicification, Fragments, Moderate, Chert-Like Fragments												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		199.60 - 203.80 Py BLB 1 Pyrite, Blebs, <1% occasional												
203.80	208.30	**Fresh Rock** **SH** ***Sericite-Chlorite Shear***	1	1	LGR	344876	204.30	205.30	1.00	<0	-	<0.01	-	-
		Sericite-Chlorite Shear - light green to green color, strong ser-chl as shear controlled bands/laminated with local sil flood as band near upper interval at 203.8, original textures of protolith completely obliterated.				344877	205.30	206.00	0.70	<0	-	<0.01	-	-
		- strong shear banded/laminated variable low core angles ranging from 0 to 40 from C.A. with 0 to 10 from C.A. between 205.45 to 206.7, occasional qs/qcs < 1% with increased qs/qcs veining from 206.6 to 208.3 ranging from 5% to 10% up to 3 to 5 cm wide.				344878	206.00	206.60	0.60	<0	-	<0.01	-	-
						344879	206.60	207.30	0.70	<0	-	<0.01	-	-
						344880	207.30	207.80	0.50	<0	-	<0.01	<0.01	-
						344881	207.80	208.30	0.50	<0	-	<0.01	-	-
		Mineralization - occasional vfg py <1% Contact - gradational decrease in sericite alteration and strong intense shearing												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		203.80 - 208.30 CB MX 2 Carbonatization, Matrix, Weak												
		203.80 - 208.30 CL SP 4 Chloritization, Along Shear Planes, Strong												
		203.80 - 208.30 SR SP 4 Sericitization, Along Shear Planes, Strong												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		203.80 - 208.30 Py BLB 1 Pyrite, Blebs, <1% occasional												

LITHOLOGY REPORT
- Detailed -

Hole Number **KER15-02** Project: **CHESTER 3B-JACK RABBIT** Project Number: **234**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
208.30	224.00	**Fresh Rock** **4G** ***Felsic to (Intermediate) Lapilli Tuff to Tu***	1	1	GY

Felsic to (Intermediate) Lapilli Tuff to Tuff Breccia - dark gray to dark greenish gray color, felsic to (intermediate) composition with weak to moderate chl alteration of vfg tuffaceous matrix about cherty-like sil fragments, strong ser associated with strong shearing from 221.8 to 222.35.

- tightly packed fragmental texture being fragment supported, monolithic felsic fragments up to 6 cm in size and are sub-rounded to rounded, moderately sh 0 to 30 from C.A. with strong ser shear 40 from C.A. between 221.8 to 222.35, numeroius hairline fractures giving a crackle bx appearance, occasional qcs/qs <1%

Mineralization - occasional beleb of py < 1%

Alteration Maj:	***Type/Style/Intensity***	***Comment***
208.30 - 221.80	SI FRG 3	Silicification, Fragments, Moderate; Cherty-Ilke Fragments
208.30 - 221.80	CL MX 2	Chloritization, Matrix, Weak to Moderate
221.80 - 222.35	SR SP 4	Sericitization, Along Shear Planes, Strong
222.35 - 224.00	SI FRG 3	Silicification, Fragments, Moderate, Cherty-Like Fragments
222.35 - 224.00	CL MX 2	Chloritization, Matrix, Weak to Moderate

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
208.30 - 224.00	Py BLB 1	Pyrite, Blebs, <1% occasional

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
344882	208.30	209.30	1.00	<0	-	<0.01	-	-
344883	220.80	221.80	1.00	<0	-	<0.01	-	-
344885	221.80	222.35	0.55	<0	-	<0.01	-	-
344886	222.35	224.00	1.65	<0	-	<0.01	-	-

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number **KER15-02** Project: **CHESTER 3B-JACK RABBIT** Project Number: **234**

From (m)	To (m)	Length (m)	Sample #	Comments
4.50	5.50	1.00	344803	Granodiorite/Qtz-Diorite - intermediate composition, wk to mod chl with wk cb, sub-porp to sub-equigranular texture, , 1% qcs, < 1% py
11.20	12.20	1.00	344804	Silicified Granodiorite/Qtz Diorite - mod to strong sil being bx/fract, < 1% qcs and py
12.20	13.20	1.00	344805	Silicified Granodiorite/Qtz Diorite - strong sil cherty like per alteration in matrix, numerous thin calcite fractures randomly oriented, crackle fracturing, vfg/aphanitic, < 1% qcs and py
13.20	14.20	1.00	344806	Silicified Granodiorite/Qtz Diorite - strong sil cherty like per alteration in matrix, numerous thin calcite fractures randomly oriented, crackle fracturing, vfg/aphanitic, < 1% qcs and py
14.20	15.20	1.00	344807	Silicified Granodiorite/Qtz Diorite - strong sil cherty like per alteration in matrix, numerous thin calcite fractures randomly oriented, crackle fracturing, vfg/aphanitic, < 1% qcs and py
15.20	16.45	1.25	344808	Silicified Granodiorite/Qtz Diorite - strong sil cherty like per alteration in matrix, numerous thin calcite fractures randomly oriented, crackle fracturing, vfg/aphanitic, < 1% qcs and py
25.30	26.00	0.70	344809	Silicified Granodiorite/Qtz Diorite - strong sil cherty like per alteration in matrix, numerous thin calcite fractures randomly oriented, crackle fracturing, vfg/aphanitic, < 1% qcs and py
26.00	26.50	0.50	344810	QV xcut Silicified Diorite/Gabbro - strong sil-cherty-like matrix, scattered chl fractures, 20% to 25% boudinage qv xcutting wallrock, barren to < 1% py
26.50	27.50	1.00	344811	QCS/QCV xcut Silicified Diorite/Gabbro - strong sil wallrock
27.50	27.90	0.40	344813	Silicified Diorite/Gabbro - mod to strong sil wuth chl fractures, <1 qcs/qs, widely scattered py < 1%
27.90	29.00	1.10	344814	Diorite/Gabbro - mod to strong cb and wk chl, mod to strongly sh, 10% to 15% qcs/qs lenses/pods, < 1% py
29.00	29.50	0.50	344815	Diorite/Gabbro - mod to strong cb and wk chl, mod to strongly sh, <1% to 5% qcs/qs lenses/pods, < 1% py
33.00	34.00	1.00	344816	Granodiorite/Quartz Diorite - intermediate in composition with wk chl-cb, fg to (mg) msv texture, < 1% qcs, < 1% widely scattered py
34.00	35.25	1.25	344817	Granodiorite/Quartz Diorite - intermediate in composition with wk to mod chl>cb, vfg to fg, msv texture, < 1% qcs, 1% to 2% scattered py
35.25	35.75	0.50	344818	Granodiorite/Quartz Diorite/Feldspar Porphyry - intermediate in composition with 20% to 30% fg to cg fd phenocysts in intermediate matrix, coarser grained, <1% qcs, < 1% py
60.00	60.70	0.70	344819	Granodiorite/Quartz Diorite - intermediate composition, sub-porp/equigranular textur, < 1% qcs, < 1% py
60.70	61.80	1.10	344820	Shear (Felsic to Intermediate Tuff/Lapilli Tuff) - mod chl and wk cb-ank, strong sh, <1% qs/qcs, widely scattered to local py < 1%
61.80	62.70	0.90	344821	Shear (Felsic to Intermediate Tuff/Lapilli Tuff) - mod chl and wk cb-ank, strong sh, 5% to 105 deformed qs/qcs, 1% to 2% scattered with cpy splashes in qs/qcs
62.70	63.05	0.35	344822	Shear (Felsic to Intermediate Tuff/Lapilli Tuff) - mod chl and wk cb-ank, strong sh, 15% to 20% deformed qs/qcs, up to 1% scattered py
63.05	64.15	1.10	344823	Shear (Felsic to Intermediate Tuff/Lapilli Tuff) - mod chl and wk cb-ank, strong sh, 5% deformed qs/qcs, <1% scattered py
64.15	64.65	0.50	344825	Shear (Felsic to Intermediate Tuff/Lapilli Tuff) - mod chl and wk cb-ank, strong sh, <1% qs/qcs, <1% widely scattered py
64.65	65.20	0.55	344826	Shear (Felsic to Intermediate Tuff/Lapilli Tuff) - mod chl and wk cb-ank, strong sh, <1% qs/qcs, 2% to 4% disseminate py
65.20	65.80	0.60	344827	Shear (Felsic to Intermediate Tuff/Lapilli Tuff) - mod chl and wk cb-ank, strong sh, 2% to 3% qs/qcs parallel to sh, 2% to 3% disseminate py
65.80	66.60	0.80	344828	Shear (Felsic to Intermediate Tuff/Lapilli Tuff) - mod chl and wk cb-ank, strong sh, up to 5% qs/qcs parallel to sh, 2% to 4% disseminate py and along shears
66.60	67.30	0.70	344829	Shear (Felsic to Intermediate Tuff/Lapilli Tuff) - mod chl and wk cb-ank, strong sh, 5% qs/qcs parallel to sh, <1% to 2% scattered py
67.30	67.90	0.60	344830	Shear (Felsic to Intermediate Tuff/Lapilli Tuff) - mod chl and cb-ank, strong sh, 5% qs/qcs parallel to sh, 2% to 4% disseminated py associated with qs/qcs

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number **KER15-02** Project: **CHESTER 3B-JACK RABBIT** Project Number: **234**

From (m)	To (m)	Length (m)	Sample #	Comments
67.90	68.40	0.50	344831	Shear (Felsic to Intermediate Tuff/Lapilli Tuff) - mod chl and wk to mod cb-ank, strong sh, fractured with 15% to 20% qs/qcs parallel to sh, <1% to 2% widely scattered py
68.40	68.85	0.45	344832	Shear (Felsic to Intermediate Tuff/Lapilli Tuff) - mod ank>mod chl, strong sh, fractured with 20% to 25% qs/qcs parallel to sh, 1% to 3% disseminated py
68.85	70.00	1.15	344833	Shear (Felsic to Intermediate Tuff/Lapilli Tuff) - mod ank>mod chl, strong sh, fractured with 10% to 12% qs/qcs parallel to sh, <1% py
70.00	71.00	1.00	344834	Shear (Felsic to Intermediate Tuff/Lapilli Tuff) - mod ank>mod chl, strong sh, fractured with 10% to 10% qs/qcs parallel to sh, <1% py
71.00	72.00	1.00	344835	Shear (Felsic to Intermediate Tuff/Lapilli Tuff) - mod to strong chl and wk cb-ank, strong sh, fractured with 10% to 15% qs/qcs lenses and pods parallel to sh, 1% to 2% scattered py
72.00	72.80	0.80	344837	Shear (Felsic to Intermediate Tuff/Lapilli Tuff) - mod to strong chl and wk cb-ank, strong sh, fractured with 10% to 12% qs/qcs lenses and pods parallel to sh, <1% py
72.80	73.30	0.50	344838	Shear (Felsic to Intermediate Tuff/Lapilli Tuff) - mod chl and wk cb-ank, strong sh, fractured with 10% qs/qcs lenses and pods parallel to sh, up to 1% py
73.30	74.00	0.70	344839	Shear (Felsic to Intermediate Tuff/Lapilli Tuff) - mod chl and wk cb-ank, strong sh, <1% to 2% qcs lenses, <% py
74.00	74.75	0.75	344840	Shear (Felsic to Intermediate Tuff/Lapilli Tuff) - mod chl and wk cb-ank, strong sh, up to 1% qs/qcs lenses, <1% py
74.75	75.85	1.10	344841	Shear (Felsic to Intermediate Tuff/Lapilli Tuff) - mod to 9strong) chl, wk cbank, and local ab bnds/vn, strong sh, 2% to 5% qs/qcs lenses, <1% py
75.85	76.65	0.80	344842	Diorite - intermediate composition with moderate to strong cb, vfg and massive, <1% qcs and py, non-magnetic
76.65	77.50	0.85	344843	Shear (Felsic Tuff) - mod to strong cb and mod chl, local sil-ab at lower contact, strongly sh, < 1% to 5% qcs, < 1% occasional py
77.50	77.85	0.35	344844	Diorite - intermediate composition with moderate to strong cb, vfg and massive, <1% qcs and py, non-magnetic
77.85	78.35	0.50	344845	QTCSW - moderate to strong cb and mod-(strong) chl, strongly sh and fractures, 20% to 25% qcs, < 1% occasional py
78.35	78.85	0.50	344846	QTCSW - moderate to strong cb and mod-(strong) chl, strongly sh and fractures, 20% to 25% qcs, < 1% occasional py
78.85	79.35	0.50	344847	QTCSW - moderate to strong cb and mod-(strong) chl, strongly sh and fractures, 15% to 20% qcs, < 1% occasional py
79.35	80.00	0.65	344849	QTCSW - moderate to strong cb and mod-(strong) chl, strongly sh and fractures, 25% qcs, < 1% occasional py
80.00	81.00	1.00	344850	Gabbro - mafic composition with strong pervasive cb of matrix and moderate to (strong) chl, mod sh, 1% to 2% qcs/cs, widely scattered py cubes < 1%
127.00	128.00	1.00	344851	Diabase - mafic composition with bleached gray matrix about 20% to 25% chloritoid or amp, porp texture, < 1% qcs, < 1% py
161.70	162.70	1.00	344852	Fault Breccia - inter composition with variable mod-(strong) sil, strongly bx and sh, < 1% qs/qcs, < 1% py-po
162.70	163.70	1.00	344853	Fault Breccia - inter composition with variable mod-(strong) sil, strongly bx and sh, < 1% qs/qcs, < 1% py-po
163.70	164.70	1.00	344854	Fault Breccia - inter composition with variable mod-(strong) sil, strongly bx and sh, < 1% qs/qcs, < 1% py-po
164.70	165.70	1.00	344855	Fault Breccia - inter composition with variable mod-(strong) sil, strongly bx and sh, < 1% qs/qcs, < 1% py-po
165.70	166.25	0.55	344856	Fault Breccia - inter composition with variable mod-(strong) sil, strongly bx and sh, < 1% qs/qcs, < 1% py-po
166.25	166.90	0.65	344857	Quartz-Carbonate-Albite Breccia - strong upper cb-(chl) alteration with strong bleached grayish white ab-sil from 166.65 to 166.9, 20% to 25% qcs/qs, 1% to 3% py-po at upper interval associated with strong cb-(chl)
166.90	168.00	1.10	344858	Felsic to Intermediate Tuff - felsic to intermediate in composition with variable mod sil-chl, wk cb, strongly sh, 1% to 2% qcs, < 1% py

IAMGOLD CORPORATION

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number **KER15-02** Project: **CHESTER 3B-JACK RABBIT** Project Number: **234**

From (m)	To (m)	Length (m)	Sample #	Comments
168.00	169.00	1.00	344859	Felsic to Intermediate Tuff - felsic to intermediate in composition with variable mod sil and wk chl & cb, strongly sh, 5% qcs, < 1% py
169.00	170.00	1.00	344861	Felsic to Intermediate Tuff - felsic to intermediate in composition with variable mod sil and wk chl & cb, strongly sh, 5% qcs, < 1% py
170.00	171.00	1.00	344862	Felsic to Intermediate Tuff - felsic to intermediate in composition with variable mod sil and wk chl & cb, strongly sh, 1% to 3% qcs, < 1% py
187.00	188.00	1.00	344863	Felsic to Intermediate Lapilli Tuff - Tuff Breccia - felsic-(intermediate) composition, fragmental texture, up to 1% to 2% cs, < 1% py
193.35	193.85	0.50	344864	Felsic to Intermediate Lapilli Tuff - Tuff Breccia - felsic-(intermediate) composition with wkchl-ser-cb, wk-mod sh fragmental texture, < 1% qcs, < 1% py
193.85	194.35	0.50	344865	Felsic to Intermediate Lapilli Tuff - Tuff Breccia - felsic-(intermediate) composition with wkchl-ser-cb, wk-mod sh fragmental texture, < 1% qcs, < 1% py
194.35	194.85	0.50	344866	Chlorite-(Sericite) Shear - strong sh controlled chl>ser>cb, strongly sh, 10% qcs/cs, < 1% py with local 3 cm wide cs with 20% to 30% disseminated py
194.85	195.65	0.80	344867	Chlorite Shear - strong chl with mod ser and wk cb, strongly sheared < 1% qcs, 2% to 3% disseminated py
195.65	196.70	1.05	344868	Chlorite Shear - strong chl with mod ser and wk cb, strongly sheared < 1% qcs, <1% py
196.70	197.30	0.60	344869	Chlorite Shear - strong chl with mod ser and wk cb, strongly sheared < 1% qcs, <1% py
197.30	198.00	0.70	344870	Chlorite Shear - strong chl with mod ser and wk cb, strongly sheared < 1% qcs, <1% py
198.00	198.50	0.50	344871	Felsic Tuff - felsic composition with mod sil and scattered chl fractures with 1% to 2% py, up to 1% qcs
198.50	199.00	0.50	344873	Gabbro - mafic composition with strong pervasive cb in matrix, vfg and msv, < 1% qcs and py
202.30	203.30	1.00	344874	Felsic to Intermediate Tuff-Lapilli Tuff - felsic to intermediate in composition with mod chl-(cb) matrix about sil felsic clasts, fragmental texture, sh, up to 1% qcs, < 1% py
203.30	204.30	1.00	344875	Sericite-Chlorite Shear - strong bnded/lam sh controlled ser-chl, local sil flood bnd, strongly sh, up to 1% qcs, < 1% py
204.30	205.30	1.00	344876	Sericite-Chlorite Shear - moderate to strong ser-chl matrix about sil felsic clasts, strongly sh, <% qcs, < 1% py
205.30	206.00	0.70	344877	Sericite-Chlorite Shear - strong ser-chl sh bnded/lam, wk cb, strongly sh, < 1% qcs and py
206.00	206.60	0.60	344878	Sericite-Chlorite Shear - strong ser-chl sh bnded/lam, wk cb, strongly sh, < 1% qcs and py
206.60	207.30	0.70	344879	Sericite-Chlorite Shear - strong ser-chl sh bnded/lam, wk cb, strongly sh, 5% to 10% qcs/qs parallel to sh, < 1% py
207.30	207.80	0.50	344880	Sericite-Chlorite Shear - strong ser-chl sh bnded/lam, wk cb, strongly sh, 5% to 10% qcs/qs parallel to sh, < 1% py
207.80	208.30	0.50	344881	Sericite-Chlorite Shear - strong ser-chl sh bnded/lam, wk cb, strongly sh, 10% qcs/qs parallel to sh, < 1% py
208.30	209.30	1.00	344882	Felsic to Intermediate Tuff to Tuff Breccia - felsic to intermediate composition with mod chl matrix about sil-felsic clasts, fragmental texture, sh, < 1% qcs, < 1% py
220.80	221.80	1.00	344883	Felsic to Intermediate Lapilli Tuff-Tuff Breccia - felsic to intermediate composition with mod chl about sil cherty-like felsic clasts, fragmental texture, sh, < 1% qcs and py
221.80	222.35	0.55	344885	Sericite Shear - strong ser-(chl-cb) sh controlled alteration, strongly sh banded/lam, < 1% qcs and py
222.35	224.00	1.65	344886	Felsic to Intermediate Lapilli Tuff-Tuff Breccia - felsic to intermediate composition with mod chl about sil cherty-like felsic clasts, fragmental texture, sh, < 1% qcs and py

DRILL HOLE REPORT

Hole Number: **WAT16-01** Project: **TAAC** Project Number: **251**

Drilling

Azimuth:	49
Dip:	-50
Length:	297
Started:	27-Nov-16
Completed:	01-Dec-16
Logged:	03-Dec-16
Township:	CHESTER
Target:	South Shear
Comment:	

Casing

Length:	0
Pulled:	no
Capped:	yes
Cemented:	no
Left in hole:	no
Making water:	no
Plugged:	no

Core

Dimension:	NQ
Diam Chang:	no
Storage:	Klondike Lodge
Hole Type	DDH
Logged by:	Joycelyn Smith
Relog by:	

Location

Claim No.:	258885, 222958, 100408
NTS:	41-P/12
Hole:	SURFACE
Section:	
Zone:	17
NAD:	NAD83

Other

Company:	TAAC
Contractor:	Chenier
Spotted by:	Stephen Roach
Surveyed:	yes
Surveyed by:	Larry Labelle
Multi shot su	yes

Coordinate - Gemcom

East:	435470.12
North:	5267534.3
Elev.:	399.82

Coordinate - UTM

East:	435470.12
North:	5267534.3
Elev.:	399.82

Coordinate - Local

East:	0
North:	0
Elev.:	0

Deviation Tests

Density Tests

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
0.00	49.00	-50.00	0	0	0		C	☑	
24.00	47.60	-50.00				55959	M	☑	
27.00	47.80	-49.50				55653	M	☑	
33.00	49.20	-49.60				55302	M	☑	
39.00	49.40	-49.50				55229	M	☑	
45.00	52.90	-50.60				55153	M	☑	
48.00	48.60	-49.10				55110	M	☑	
51.00	49.90	-49.50				55106	M	☑	
54.00	49.70	-49.50				55107	M	☑	
57.00	49.80	-49.50				55110	M	☑	
60.00	49.70	-49.40				55080	M	☑	
63.00	49.60	-49.40				55079	M	☑	
66.00	50.00	-49.40				54918	M	☑	
69.00	59.10	-49.40				56590	M	☑	
72.00	54.10	-49.30				55232	M	☑	

DRILL HOLE REPORT

Hole Number: **WAT16-01** Project: **TAAC** Project Number: **251**

Drilling

Azimuth:	49
Dip:	-50
Length:	297
Started:	27-Nov-16
Completed:	01-Dec-16
Logged:	03-Dec-16
Township:	CHESTER
Target:	South Shear
Comment:	

Casing

Length:	0
Pulled:	no
Capped:	yes
Cemented:	no
Left in hole:	no
Making water:	no
Plugged:	no

Core

Dimension:	NQ
Diam Chang:	no
Storage:	Klondike Lodge
Hole Type	DDH
Logged by:	Joycelyn Smith
Relog by:	

Location

Claim No.:	258885, 222958, 100408
NTS:	41-P/12
Hole:	SURFACE
Section:	
Zone:	17
NAD:	NAD83

Other

Company:	TAAC
Contractor:	Chenier
Spotted by:	Stephen Roach
Surveyed:	yes
Surveyed by:	Larry Labelle
Multi shot su	yes

Coordinate - Gemcom

East:	435470.12
North:	5267534.3
Elev.:	399.82

Coordinate - UTM

East:	435470.12
North:	5267534.3
Elev.:	399.82

Coordinate - Local

East:	0
North:	0
Elev.:	0

Deviation Tests

Density Tests

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
75.00	50.00	-49.30				55001	M	☑	
78.00	50.40	-49.30				54950	M	☑	
81.00	50.20	-49.30				54973	M	☑	
87.00	49.80	-49.30				54961	M	☑	
90.00	50.30	-49.30				55011	M	☑	
93.00	49.00	-49.20				55166	M	☑	
96.00	49.50	-49.20				55151	M	☑	
99.00	49.70	-49.10				55163	M	☑	
#####	49.80	-49.10				55163	M	☑	
#####	50.10	-49.10				55178	M	☑	
#####	50.20	-48.90				55173	M	☑	
#####	50.20	-48.90				55173	M	☑	
#####	50.30	-48.70				55186	M	☑	
#####	50.40	-48.60				55181	M	☑	
#####	50.50	-48.60				55196	M	☑	

DRILL HOLE REPORT

Hole Number: **WAT16-01** Project: **TAAC** Project Number: **251**

Drilling

Azimuth:	49
Dip:	-50
Length:	297
Started:	27-Nov-16
Completed:	01-Dec-16
Logged:	03-Dec-16
Township:	CHESTER
Target:	South Shear
Comment:	

Casing

Length:	0
Pulled:	no
Capped:	yes
Cemented:	no
Left in hole:	no
Making water:	no
Plugged:	no

Core

Dimension:	NQ
Diam Chang:	no
Storage:	Klondike Lodge
Hole Type	DDH
Logged by:	Joycelyn Smith
Relog by:	

Location

Claim No.:	258885, 222958, 100408
NTS:	41-P/12
Hole:	SURFACE
Section:	
Zone:	17
NAD:	NAD83

Other

Company:	TAAC
Contractor:	Chenier
Spotted by:	Stephen Roach
Surveyed:	yes
Surveyed by:	Larry Labelle
Multi shot su	yes

Coordinate - Gemcom

East:	435470.12
North:	5267534.3
Elev.:	399.82

Coordinate - UTM

East:	435470.12
North:	5267534.3
Elev.:	399.82

Coordinate - Local

East:	0
North:	0
Elev.:	0

Deviation Tests

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
#####	50.30	-48.50				55269	M	☑	
#####	50.20	-48.40				55311	M	☑	
#####	50.00	-48.40				55405	M	☑	
#####	50.70	-48.40				55190	M	☑	
#####	49.50	-48.30				55333	M	☑	
#####	49.70	-48.30				55279	M	☑	
#####	48.80	-48.20				54671	M	☑	
#####	49.60	-48.10				55327	M	☑	
#####	49.50	-48.10				55285	M	☑	
#####	49.30	-48.00				55251	M	☑	
#####	49.20	-48.00				55137	M	☑	
#####	51.30	-47.90				55594	M	☑	
#####	54.90	-47.90				54147	M	☑	
#####	56.20	-47.90				54987	M	☑	
#####	53.60	-47.90				56499	M	☑	

Density Tests

DRILL HOLE REPORT

Hole Number: **WAT16-01** Project: **TAAC** Project Number: **251**

Drilling

Azimuth:	49
Dip:	-50
Length:	297
Started:	27-Nov-16
Completed:	01-Dec-16
Logged:	03-Dec-16
Township:	CHESTER
Target:	South Shear
Comment:	

Casing

Length:	0
Pulled:	no
Capped:	yes
Cemented:	no
Left in hole:	no
Making water:	no
Plugged:	no

Core

Dimension:	NQ
Diam Chang:	no
Storage:	Klondike Lodge
Hole Type	DDH
Logged by:	Joycelyn Smith
Relog by:	

Location

Claim No.:	258885, 222958, 100408
NTS:	41-P/12
Hole:	SURFACE
Section:	
Zone:	17
NAD:	NAD83

Other

Company:	TAAC
Contractor:	Chenier
Spotted by:	Stephen Roach
Surveyed:	yes
Surveyed by:	Larry Labelle
Multi shot su	yes

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	435470.12	**East:**	435470.12	**East:**	0
North:	5267534.3	**North:**	5267534.3	**North:**	0
Elev.:	399.82	**Elev.:**	399.82	**Elev.:**	0

Deviation Tests

Density Tests

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
#####	50.90	-47.80				55925	M	☑	
#####	50.80	-47.80				56167	M	☑	
#####	52.40	-47.80				55706	M	☑	
#####	49.60	-47.80				56170	M	☑	
#####	51.50	-47.70				55407	M	☑	
#####	51.20	-47.70				55172	M	☑	
#####	51.00	-47.70				55193	M	☑	
#####	51.30	-47.60				55222	M	☑	
#####	51.80	-47.70				55227	M	☑	
#####	51.80	-47.60				55250	M	☑	
#####	51.90	-47.60				55230	M	☑	
#####	52.10	-47.50				55207	M	☑	
#####	52.10	-47.40				55198	M	☑	
#####	52.10	-47.40				55194	M	☑	
#####	52.10	-47.30				55175	M	☑	

DRILL HOLE REPORT

Hole Number: **WAT16-01** Project: **TAAC** Project Number: **251**

Drilling

Azimuth:	49
Dip:	-50
Length:	297
Started:	27-Nov-16
Completed:	01-Dec-16
Logged:	03-Dec-16
Township:	CHESTER
Target:	South Shear
Comment:	

Casing

Length:	0
Pulled:	no
Capped:	yes
Cemented:	no
Left in hole:	no
Making water:	no
Plugged:	no

Core

Dimension:	NQ
Diam Chang:	no
Storage:	Klondike Lodge
Hole Type	DDH
Logged by:	Joycelyn Smith
Relog by:	

Location

Claim No.:	258885, 222958, 100408
NTS:	41-P/12
Hole:	SURFACE
Section:	
Zone:	17
NAD:	NAD83

Other

Company:	TAAC
Contractor:	Chenier
Spotted by:	Stephen Roach
Surveyed:	yes
Surveyed by:	Larry Labelle
Multi shot su	yes

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	435470.12	**East:**	435470.12	**East:**	0
North:	5267534.3	**North:**	5267534.3	**North:**	0
Elev.:	399.82	**Elev.:**	399.82	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
#####	52.10	-47.30				55171	M	☑	
#####	52.20	-47.20				55167	M	☑	
#####	52.00	-47.20				55160	M	☑	
#####	52.00	-47.30				55150	M	☑	
#####	52.00	-47.20				55161	M	☑	
#####	52.30	-47.30				55116	M	☑	
#####	52.00	-47.20				55114	M	☑	
#####	51.90	-47.10				55093	M	☑	
#####	52.20	-47.10				55108	M	☑	
#####	52.30	-47.00				55109	M	☑	
#####	52.10	-47.00				55102	M	☑	
#####	52.20	-46.90				55104	M	☑	
#####	52.20	-46.90				55095	M	☑	
#####	52.20	-46.90				55107	M	☑	
#####	52.30	-46.90				55089	M	☑	

DRILL HOLE REPORT

Hole Number: **WAT16-01** Project: **TAAC** Project Number: **251**

Drilling

Azimuth:	49
Dip:	-50
Length:	297
Started:	27-Nov-16
Completed:	01-Dec-16
Logged:	03-Dec-16
Township:	CHESTER
Target:	South Shear
Comment:	

Casing

Length:	0
Pulled:	no
Capped:	yes
Cemented:	no
Left in hole:	no
Making water:	no
Plugged:	no

Core

Dimension:	NQ
Diam Chang:	no
Storage:	Klondike Lodge
Hole Type	DDH
Logged by:	Joycelyn Smith
Relog by:	

Location

Claim No.:	258885, 222958, 100408
NTS:	41-P/12
Hole:	SURFACE
Section:	
Zone:	17
NAD:	NAD83

Other

Company:	TAAC
Contractor:	Chenier
Spotted by:	Stephen Roach
Surveyed:	yes
Surveyed by:	Larry Labelle
Multi shot su	yes

Coordinate - Gemcom

East:	435470.12
North:	5267534.3
Elev.:	399.82

Coordinate - UTM

East:	435470.12
North:	5267534.3
Elev.:	399.82

Coordinate - Local

East:	0
North:	0
Elev.:	0

Deviation Tests

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
#####	52.30	-46.80				55092	M	☑	
#####	52.40	-46.80				55082	M	☑	
#####	52.40	-46.70				55077	M	☑	
#####	52.50	-46.70				55073	M	☑	
#####	52.60	-46.70				55058	M	☑	
#####	52.60	-46.60				55055	M	☑	
#####	52.70	-46.60				55043	M	☑	
#####	52.70	-46.60				55035	M	☑	
#####	52.70	-46.50				55040	M	☑	
#####	52.80	-46.50				55024	M	☑	
#####	52.70	-46.50				55017	M	☑	
#####	52.70	-46.50				55013	M	☑	
#####	52.90	-46.40				55004	M	☑	

Density Tests

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
0.00	0.50	**OB** ***Overburden***												
		overburden												
0.50	10.50	**8C** ***Tonalite/Trondjhemite Breccia***			DGR	289216	3.00	4.00	1.00	0	-	0.01	-	-
						289217	6.00	7.00	1.00	0	-	0.01	-	-
						289218	9.00	10.00	1.00	0	-	0.01	-	-

medium-grained to coarse-grained tonalite brecciating fine-grained to medium-grained diorite. Contacts are diffuse. Patchy epidote alteration of feldspar grains. Fine-ggrained diseminated pyrite throughout.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
0.50 - 5.00	CB FRC 2	Carbonatization, Along Fractures, Weak
0.50 - 5.00	SI PV 3	Silicification, Pervasive, Moderate
0.50 - 5.00	CL MET 3	Chloritization, Metasomatized, Moderate
0.50 - 5.00	BIO IS 3	Biotitization, Interstitial, Moderate
5.00 - 10.50	SI PV 1	Silicification, Pervasive, Very weak
5.00 - 10.50	EP SPT 2	Epidotization, Spotty/Patchy, Weak
5.00 - 10.50	CB FRC 1	Carbonatization, Along Fractures, Very weak
5.00 - 10.50	CL IS 3	Chloritization, Interstitial, Moderate

Vein Maj. :	*Style/%vein/CoreA/%min/min*	*Comment*
0.50 - 10.50	STG 1 100 QCV	Quartz-Calcite Vein, 100%

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
10.50	14.40	**SH** ***Shear/Shear Zone***			DGR

Chloritic-sericitic shear zone, moderate foliation. pyrite mineralization following foliation. Alteration is stronger at the beginning and end of unit. Quartz-carb veining along foliation plane (<1cm).

Alteration Maj:	*Type/Style/Intensity*	*Comment*
10.50 - 14.40	SR PV 4	Sericitization, Pervasive, Strong
10.50 - 14.40	CL PV 3	Chloritization, Pervasive, Moderate

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
10.50 - 14.40	Cpy DIS 0.1	Chalcopyrite, Disseminated, 0.1%
10.50 - 14.40	Py FOL 0.5	Pyrite, Along foliation, 0.5%

Structure Maj.:	*Inte/Type/Core Angle*	*Comment*
10.50 - 14.40	M SHRD	Sheared
10.50 - 14.40	M FOL	Foliated

Vein Maj. :	*Style/%vein/CoreA/%min/min*	*Comment*
10.50 - 14.40	STG 0.5 100 CV	Calcite Vein, 100%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
289219	10.50	12.00	1.50	0	-	0.01	-	-
289220	12.00	13.00	1.00	0	-	0.01	-	-
289221	13.00	14.40	1.40	0	-	0.01	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
14.40	21.14	**8C** ***Tonalite/Trondjhemite Breccia***			DGR

medium- to coarse-grained tonalite brecciating finer to medium grained diorite. Patch epidote alteration of feldspar grains, pervasive chlorite alteration. Minor quartz-carb stringers throughout.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
14.40 - 21.14	CB MTV 2	Carbonatization, Marginal to veins, Weak
14.40 - 21.14	BIO IS 2	Biotitization, Interstitial, Weak
14.40 - 21.14	CL PV 4	Chloritization, Pervasive, Strong

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
14.40 - 21.14	Po DIS 0.05	Pyrrhotite, Disseminated, 0.05%

Structure Maj.:	*Inte/Type/Core Angle*	*Comment*
14.40 - 21.14	M BX	Brecciated

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
289222	16.00	17.00	1.00	0	-	0.01	-	-
289223	19.00	20.00	1.00	0	-	0.01	-	-
289225	20.00	21.14	1.14	0	-	0.01	-	-

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Vein Maj. : ***Style/%vein/CoreA/%min/min*** ***Comment***												
		14.40 - 21.14 STG 3 100 QCV Quartz-Calcite Vein, 100%												
21.14	22.82	**7C** ***Gabbro***			GY	289226	21.14	22.82	1.68	0	-	0.01	-	-
		fg dark grey gabbro. Few minor carb stringers and veinlets along fractures. Minor fg pyrite associated with carbonate, trace cpy.												
22.82	29.96	**7B** ***Diorite - Quartz Diorite***			DGR	289227	29.00	30.00	1.00	0	-	0.01	-	-
		medium-grained quartz-diorite, pervasive chlorite alteration, minor blue quartz grains throughout accounting for up to 8% of rock. Fine-grained diseminated pyrite in trace amounts. Minor quartz-carbonate veins throughout (<1cm in size).												
29.96	32.14	**7E** ***Lamprophyre Dikes-Sills***			GRBLK	289228	30.00	31.00	1.00	0	-	0.01	-	-
		fg black lamprophyre dike with 5% biotite phenocrysts. Weakly foliated with carb stringers throughout following erratic fractures. Fg disseminated pyrite associated with carbonate.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		29.96 - 32.14 CB FRC 2 Carbonatization, Along Fractures, Weak												
		29.96 - 32.14 CL PV 2 Chloritization, Pervasive, Weak												

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		29.96 - 32.14 Py DIS 0.5 Pyrite, Disseminated, 0.5%												
		Structure Maj.: ***Inte/Type/Core Angle*** ***Comment***												
		29.96 - 32.14 W FOL Foliated												
		Vein Maj. : ***Style/%vein/CoreA/%min/min*** ***Comment***												
		29.96 - 32.14 STG 3 100 QCV Quartz-Calcite Vein, 100%												
32.14	51.63	**8C** ***Tonalite/Trondjhemite Breccia***			DGR	289229	32.14	33.00	0.86	0	-	0.01	-	-
		toanlite breccia with intervals (<3m long) of diorite. The tonalite is medium to coarse-grained and silicified pervasively. The diorite is medium-grained, occasionally has minor quartz-grains (grading into quartz-diorite and out in areas). Epidote alteration of feldspar grains patchy and in tonalite. Epidote alteration of carbonate stringers. 20cm patch of pegmatitic tonalite at 44.6m.				289230	33.00	34.00	1.00	0	-	0.01	-	-
						289231	38.00	39.00	1.00	0	-	0.01	-	-
						289232	43.00	44.00	1.00	0	-	0.01	-	-
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***				289233	44.00	45.00	1.00	0	-	0.01	-	-
		32.14 - 47.00 SI MX 2 Silicification, Matrix, Weak				289234	49.00	50.00	1.00	0	-	0.01	-	-
		32.14 - 47.00 EP MX 2 Epidotization, Matrix, Weak				289235	50.00	51.00	1.00	0	-	0.01	-	-
		32.14 - 47.00 EP AC 1 Epidotization, Alteration of carbonate, Very weak				289237	51.00	51.63	0.63	0	-	0.01	-	-
		32.14 - 47.00 CL PV 3 Chloritization, Pervasive, Moderate												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		32.14 - 51.63 Py DIS 0.3 Pyrite, Disseminated, 0.3%												
		32.14 - 51.63 Py FAC 0.2 Pyrite, Fracture-controlled, 0.2%												
		Structure Maj.: ***Inte/Type/Core Angle*** ***Comment***												
		32.14 - 51.63 BX Brecciated												
		Texture Maj: ***Type*** ***Comment***												
		32.14 - 51.63 MG Medium Grained(1-5mm)												
		Vein Maj. : ***Style/%vein/CoreA/%min/min*** ***Comment***												
		32.14 - 51.63 VN 2 100 QCV Quartz-Calcite Vein, 100%												

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
51.63	60.03	**14B** ***Fine-grained Diabase dykes***			BLK									
		fine-grained diabase dike with sharp upper and lower contacts. Few minor clusters of porphyritic feldspar grains near the bottom of the unit that are selectively epidote altered. The last couple meters of the unit are very blocky and broken. No mineralization present. Few <1cm quartz-carb veinlets accounting for less than 1% of rock. Upper contact is erratic.												
60.03	61.20	**8C** ***Tonalite/Trondjhemite Breccia***			GY	289238	60.03	61.00	0.97	0	-	0.01	-	-
		tonalite matrix is flooded with quartz. Rock is hematite altered visible by feldspar, along fractures and patchy within tonalite. Spotty epidote alteration of feldspar grains within tonalite. Epidote alteration of a relatively early carbonate vein that is cross-cut by a secondary, less altered carbonate vein. Pyrite mineralization associated with carbonate stringers.												
61.20	61.57	**FLTbx** ***Fault Breccia***			BR	289239	61.00	62.00	1.00	0	-	0.01	-	-
		short interval of fault breccia with a halo of alteration. Matrix is chloritic and fragments are angular ranging from 1-5cm. Quartz-carbonate veining makes up some of the matrix, and also is associated with minor amounts of pyrite in stingers.												

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
61.57	74.15	**8C** ***Tonalite/Trondjhemite Breccia***			GY	289240	62.00	63.00	1.00	0	-	0.01	-	-
		Tonalite matrix is medium-grained and pervasively silicified (quartz-flooding). Fine-grained to medium-grained diorite is brecciated with sharp to diffuse contacts, angular to subangular clasts that are pervasively chloritized. Patchy sericitite alteration is associated with weak foliation. Quartz-carb veining also brecciates thost rock in an in situ angular fashion. From 64.5m-68m. Pyrite mineralization disseminated throughout.				289241	64.00	65.00	1.00	0	-	0.01	-	-
						289242	65.00	66.00	1.00	0	-	0.01	-	-
						289243	66.00	67.00	1.00	0	-	0.01	-	-
						289244	73.00	74.15	1.15	0	-	0.01	-	-
74.15	75.33	**7E** ***Lamprophyre Dikes-Sills***			BLK	289245	74.15	75.33	1.18	0	-	0.01	-	-
		dark grey to black fine-grained lamprophyre dike with euhedral biotite phenocrysts up to 3mm large. Diseminated pyrite up to 1%. Carbonate alteration along foliation concentrated within the first meter of the dike, representing a sheared upper contact.												
75.33	75.70	**7B** ***Diorite - Quartz Diorite***			GY									
		short interval of diorite, medium-grained, moderate chlorite alteration and spotty carbonate alteration. Increase of pyrite mineralization at contact near lamprophyre dike.												

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
75.70	78.00	**14B** ***Fine-grained Diabase dykes***			BLK									
		black magnetic diabase dike with few minor medium-grained feldspar grains that are weakly epidote altered. Trace pyrrhotite.												
78.00	102.35	**8C** ***Tonalite/Trondjhemite Breccia***			GY	289246	78.00	79.00	1.00	0	-	0.01	-	-
		Tonalite matrix ranges from medium-grained to pegmatitic (crystals up to 4cm large) pervasively silicified, spotty biotite alteration, brecciating diorite with pevasive chlorite alteration, ranging from medium-grained to porphyritic texture with mm sized felspar grains and a fine-grained dark green matrix. Fragment boundaries range from diffuse to sharp. Carbonate alteration is patchy throughout and associate with hairline fractures cutting both units. upper contact sheared with up to 3% dis pyrite proximal. Beginning of unit (from 79-79.35m) is a lamprophyre dike that takes up a minor amount of shearing, resulting in a moderate foliation. From 95m to the end of the unit there are quartz-iron carbonate veins associated with chlorite alteration haloes of 1-2cm and pyrite mineralization. One 20cm vein at 96.70m has 5% pyrrhotite, 2% pyrite and trace molybdenite.				289247	81.00	82.00	1.00	0	-	0.01	-	-
						289249	85.00	86.00	1.00	0	-	0.01	-	-
						289250	91.00	92.00	1.00	0	-	0.01	-	-
						287801	93.50	94.50	1.00	0	-	0.01	-	-
						287802	95.00	96.00	1.00	0	-	0.01	-	-
						287803	96.00	97.00	1.00	0	-	0.01	-	-
						287804	97.00	98.00	1.00	0	-	0.01	-	-
						287805	98.00	99.00	1.00	0	-	0.01	-	-
						287806	99.00	100.00	1.00	0	-	0.01	-	-
						287807	100.00	101.00	1.00	0	-	0.01	-	-
						287808	101.00	102.00	1.00	0	-	0.01	-	-

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
97.50 - 102.35	Py VN 0.1	Pyrite, Vein-controlled, 0.1%

Structure Maj.:	***Inte/Type/Core Angle***	***Comment***
78.00 - 102.35	M BX	Brecciated

Vein Maj. :	***Style/%vein/CoreA/%min/min***	***Comment***
97.50 - 102.35	STG 1 5 SPHV	Sulphide Vein, 5%
97.50 - 102.35	STG 1 95 QICV	Quartz Iron-Carbonate Vein, 95%

Minor Interval:

98.80	100.32	IIDR	*Diorite*

dark green medium-grained diorite with pervasive chlorite and spotty biotite alteration. <1% quartz grains throughout. Few minor Fe-carb veins cut the unit at

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		angles less than 45% with chlorite haloes 1-2cm wide, less than 1% pyrite in/associated with veining.												
102.35	109.26	**7B** ***Diorite - Quartz Diorite***			DGR	287809	102.00	103.00	1.00	0	-	0.01	-	-
		medium-grained diorite, pervasive chlorite and spotty biotite alteration. Cut by few small tonalite dikes with moderately sharp to diffuse regular contacts. Tonalite is moderately to strongly silicified. Fg disseminated pyrite throughout.				287810	108.00	109.00	1.00	0	-	0.01	-	-

Alteration Maj:	*Type/Style/Intensity*	*Comment*
102.35 - 109.26	CB FRC 1	Carbonatization, Along Fractures, Very weak
102.35 - 109.26	CB SPT 1	Carbonatization, Spotty/Patchy, Very weak
102.35 - 109.26	BIO SPT 3	Biotitization, Spotty/Patchy, Moderate
102.35 - 109.26	CL PV 3	Chloritization, Pervasive, Moderate

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
102.35 - 109.26	Po VN 0.1	Pyrrhotite, Vein-controlled, 0.1%
102.35 - 109.26	Py VN 0.1	Pyrite, Vein-controlled, 0.1%
102.35 - 109.26	Py DIS 0.1	Pyrite, Disseminated, 0.1%

Texture Maj:	*Type*	*Comment*
102.35 - 109.26	MG	Medium Grained(1-5mm)

Vein Maj. :	*Style/%vein/CoreA/%min/min*	*Comment*
102.35 - 109.26	VNLT 1 1 SPH	Sphalerite, 1%
102.35 - 109.26	VNLT 1 99 QICV	Quartz Iron-Carbonate Vein, 99%

109.26	110.15	**8C** ***Tonalite/Trondjhemite Breccia***			DGR	287811	109.00	110.15	1.15	0	-	0.01	-	-
		tonalite is strongly carbonate altered. Diorite is brecciated with moderate to sharp perimeters as well as chlorite alteration along edges. fg dis pyrite and po throughout, small amount of pyrite and pyrrhotite associated with chloritic fractures as well as carbonate altered matrix.												

Alteration Maj:	*Type/Style/Intensity*	*Comment*
109.26 - 110.15	CL MTC 3	Chloritization, Marginal to contacts, Moderate

From (m)	To (m)		Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		109.26 - 110.15	CB MX 5												
		109.26 - 110.15	BIO SPT 3												
		109.26 - 110.15	CL PV 3												
		Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***											
		109.26 - 110.15	Po DIS 0.2	Pyrrhotite, Disseminated, 0.2%											
		109.26 - 110.15	Py DIS 0.1	Pyrite, Disseminated, 0.1%											
		Structure Maj.:	***Inte/Type/Core Angle***	***Comment***											
		109.26 - 110.15	W BX	Brecciated											
		Vein Maj. :	***Style/%vein/CoreA/%min/min***	***Comment***											
		109.26 - 110.15	VN 2 100 QICV	Quartz Iron-Carbonate Vein, 100%											
110.15	111.70	**7C**	***Gabbro***			DGR	287813	110.15	111.00	0.85	0	-	0.01	-	-
		fg gabbro, pervasive chlorite and silicification, carbonate along fractures. Quartz-carb filled fractures (1mm) throughout accounting for up to 1%. Pyrite mineralization in quartz-carb filled fractures.													
		Alteration Maj:	***Type/Style/Intensity***	***Comment***											
		110.15 - 111.70	CB FRC 2	Carbonatization, Along Fractures, Weak											
		110.15 - 111.70	SI PV 2	Silicification, Pervasive, Weak											
		110.15 - 111.70	CL PV 4	Chloritization, Pervasive, Strong											
		Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***											
		110.15 - 111.70	Py VN 0.1	Pyrite, Vein-controlled, 0.1%											
		Vein Maj. :	***Style/%vein/CoreA/%min/min***	***Comment***											
		110.15 - 111.70	FACV 1 1 QICV	Quartz Iron-Carbonate Vein, 1%											
111.70	115.00	**7B**	***Diorite - Quartz Diorite***			DGR									

medium-grained pervasively chlorite altered, spotty biotite. Quartz-carbonate veins (up to a cm wide) occur throughout, weakly deformed. Trace mineralization

Alteration Maj:	*Type/Style/Intensity*	*Comment*
111.70 - 115.00	CB FRC 1	Carbonatization, Along Fractures, Very weak
111.70 - 115.00	BIO SPT 3	Biotitization, Spotty/Patchy, Moderate
111.70 - 115.00	CL PV 3	Chloritization, Pervasive, Moderate

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
111.70 - 115.00	Po DIS 0.05	Pyrrhotite, Disseminated, 0.05%
111.70 - 115.00	Py DIS 0.05	Pyrite, Disseminated, 0.05%

Texture Maj:	*Type*	*Comment*
111.70 - 115.00	MG	Medium Grained(1-5mm)

Vein Maj. :	*Style/%vein/CoreA/%min/min*	*Comment*
111.70 - 115.00	VN 3 100 QCV	Quartz-Calcite Vein, 100%

From (m)	*To* (m)	*Lithology*	*Weathering*	*Oxidation*	*Colour*	*Sample #*	*From*	*To*	*Length*	*Au* (ppm)	*AV Au* (ppm)	*FA Au* (ppm)	*FA2 Au* (ppm)	*FA3 Au* (ppm)
115.00	116.60	**8C** ***Tonalite/Trondjhemite Breccia***			DGR	287814	115.00	116.00	1.00	0	-	0.01	-	-
						287815	116.00	117.00	1.00	0	-	0.01	-	-

mg tonalite, pervasively silica altered with minor pervasive carbonate alteration breciating a mg diorite with pervasive chlorite alteration and spotty biotite alteration. Pyrite and pyrrhotite mineralization in quartz-carb veins.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
115.00 - 116.60	CB FRC 1	Carbonatization, Along Fractures, Very weak
115.00 - 116.60	CL MTV 3	Chloritization, Marginal to veins, Moderate
115.00 - 116.60	BIO SPT 3	Biotitization, Spotty/Patchy, Moderate
115.00 - 116.60	CL PV 3	Chloritization, Pervasive, Moderate

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
115.00 - 116.60	Po VN 0.5	Pyrrhotite, Vein-controlled, 0.5%
115.00 - 116.60	Py VN 0.1	Pyrite, Vein-controlled, 0.1%

Hole Number **WAT16-01** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Vein Maj. : ***Style/%vein/CoreA/%min/min*** ***Comment***												
		115.00 - 116.60 VN 3 1 SPHV Sulphide Vein, 1%												
		115.00 - 116.60 VN 3 99 QCV Quartz-Calcite Vein, 99%												
116.60	120.00	**7B** ***Diorite - Quartz Diorite***			DGR	287816	117.00	118.00	1.00	0	-	0.01	-	-
		medium grained diorite with spotty biotite and chlorite alteration, parallel quartz carbonate veining (~1cm). Weakly foliated.				287817	118.00	119.00	1.00	0	-	0.01	-	-
						287818	119.00	120.00	1.00	0	-	0.01	-	-
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		116.60 - 120.00 Po VN 0.01 Pyrrhotite, Vein-controlled, 0.01%												
		116.60 - 120.00 Py VN 0.01 Pyrite, Vein-controlled, 0.01%												
		Structure Maj.: ***Inte/Type/Core Angle*** ***Comment***												
		116.60 - 120.00 W FOL Foliated												
		Texture Maj: ***Type*** ***Comment***												
		116.60 - 120.00 MG Medium Grained(1-5mm)												
		Vein Maj. : ***Style/%vein/CoreA/%min/min*** ***Comment***												
		116.60 - 120.00 VN 3 100 QCV Quartz-Calcite Vein, 100%												
Minor Interval:														
118.56	118.75	IITNLT *Tonalite*												
		medium grained tonalite, oervasively silicified, spotty biotite and chlorite alteration.												
		Alteration Min: ***Type/Style/Intensity*** ***Comment***												
		118.56 - 118.75 CB FRC 2 Carbonatization, Along Fractures, We												
		118.56 - 118.75 SI PV 2 Silicification, Pervasive, Weak												
		118.56 - 118.75 CL SPT 1 Chloritization, Spotty/Patchy, Very we												
		118.56 - 118.75 BIO SPT 3 Biotitization, Spotty/Patchy, Moderate												
120.00	121.24	**SH** ***Shear/Shear Zone***			DGR	287819	120.00	121.24	1.24	0	-	0.10	-	-
		chlorite dominant shear zone, weakly to moderately deformed with quartz-carb-sulfide veining. Veins are												

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		0.5-2cm wide and are quartz-carb-pyrrhotite-chalcopyrite-pyrite with chlorite alteration haloes of up to 10 cm. mineralization acounts for 1% of rock, and up to 10% of veining.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		120.00 - 121.24 CB FRC 2 Carbonatization, Along Fractures, Weak												
		120.00 - 121.24 CL MTV 4 Chloritization, Marginal to veins, Strong												
		120.00 - 121.24 BIO SPT 3 Biotitization, Spotty/Patchy, Moderate												
		120.00 - 121.24 CL PV 3 Chloritization, Pervasive, Moderate												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		120.00 - 121.24 Cpy VN 0.3 Chalcopyrite, Vein-controlled, 0.3%												
		120.00 - 121.24 Py VN 0.2 Pyrite, Vein-controlled, 0.2%												
		120.00 - 121.24 Po VN 0.5 Pyrrhotite, Vein-controlled, 0.5%												
		Structure Maj.: ***Inte/Type/Core Angle*** ***Comment***												
		120.00 - 121.24 M FOL Foliated												
		120.00 - 121.24 M SHRZN Shear Zone												
		Vein Maj. : ***Style/%vein/CoreA/%min/min*** ***Comment***												
		120.00 - 121.24 VN 9 3 SPHV Sulphide Vein, 3%												
		120.00 - 121.24 VN 9 97 QCV Quartz-Calcite Vein, 97%												
121.24	124.56	**8C** ***Tonalite/Trondjhemite Breccia***			DGR	287820	121.24	122.00	0.76	0	-	0.01	-	-
		moderately deformed tonalite breccia. Tonalite matrix is pervasively silicified and chloritized, and medium-grained with quartz-carb-po-cpy-py veining occuring with irregular contacts. Pyrrhotite and chalcopyrite are the dominant sulfides in the veining, accounting for up to 1.5% of rock.				287821	122.00	123.00	1.00	0	-	0.12	-	-
						287822	123.00	124.00	1.00	0	-	0.12	-	-
						287823	124.00	125.00	1.00	0	-	0.05	-	-
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		121.24 - 124.56 CB PV 2 Carbonatization, Pervasive, Weak												
		121.24 - 124.56 BIO SPT 1 Biotitization, Spotty/Patchy, Very weak												
		121.24 - 124.56 CL MTV 4 Chloritization, Marginal to veins, Strong												
		121.24 - 124.56 CL PV 3 Chloritization, Pervasive, Moderate												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												

From (m)	To (m)		Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		121.24 - 124.56	Py VN 0.1			Pyrite, Vein-controlled, 0.1%									
		121.24 - 124.56	Cpy VN 0.5			Chalcopyrite, Vein-controlled, 0.5%									
		121.24 - 124.56	Po VN 0.9			Pyrrhotite, Vein-controlled, 0.9%									
		Vein Maj. :	***Style/%vein/CoreA/%min/min***			***Comment***									
		121.24 - 124.56	VN 5 5 SPHV			Sulphide Vein, 5%									
		121.24 - 124.56	VN 5 95 QCV			Quartz-Calcite Vein, 95%									
124.56	126.32	**SH**	***Shear/Shear Zone***			DGR	287825	125.00	126.32	1.32	0	-	0.17	-	-
		chlorite-rich shear zone, moderate to strongly deformed. Tonalite dike runs roughly parallel to core axis and is pervasively silicified and offset by shear banding at roughly 45 degrees to ca. carbonate alteration occurs along the dike as fracture fills and stringers. Pyrrhotite and chalcopyrite associated with the quartz-carbonate veining accounting for up to 1.5% of rock.														
		Structure Maj.:	***Inte/Type/Core Angle***			***Comment***									
		124.56 - 126.32	M FOL			Foliated									
		124.56 - 126.32	M SHRZN			Shear Zone									
		Vein Maj. :	***Style/%vein/CoreA/%min/min***			***Comment***									
		124.56 - 126.32	VN 12 15 SPHV			Sulphide Vein, 15%									
		124.56 - 126.32	VN 12 85 QCV			Quartz-Calcite Vein, 85%									
126.32	129.18	**8C**	***Tonalite/Trondjhemite Breccia***			DGR	287826	126.32	127.00	0.68	0	-	0.01	-	-
		meidum-grained tonalite pervasively silica flooded with spotty chlorite alteration brecciating medium-grained diorite with spotty chlorite and biotite alteration. Minor carbonate alteration along fractures and in veins. Quartz-carbonate veining occurs with pyrrhotite and pyrite mineraization. Spotty epidote alteration of feldspar grains wthin tonalite.						287827	127.00	128.00	1.00	0	-	0.01	-	-
							287828	128.00	129.00	1.00	0	-	0.02	-	-
		Alteration Maj:	***Type/Style/Intensity***			***Comment***									
		126.32 - 129.18	CB FRC 2			Carbonatization, Along Fractures, Weak									
		126.32 - 129.18	EP SPT 1			Epidotization, Spotty/Patchy, Very weak									

From (m)	To (m)		Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		126.32 - 129.18	CL MTC 4	Chloritization, Marginal to contacts, Strong											
		126.32 - 129.18	CL PV 3	Chloritization, Pervasive, Moderate											
		Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***											
		126.32 - 129.18	Py VN 0.1	Pyrite, Vein-controlled, 0.1%											
		126.32 - 129.18	Po VN 0.5	Pyrrhotite, Vein-controlled, 0.5%											
		Structure Maj.:	***Inte/Type/Core Angle***	***Comment***											
		126.32 - 129.18	W BX	Brecciated											
129.18	131.44	**8C**	***Tonalite/Trondjhemite***			GY	287829	129.00	130.00	1.00	0	-	0.01	-	-
		medium-grained tonalite with pervasive silica flooding alteration, spotty chlorite alteration throughout altering earlier biotite alteration and along fractures. Quartz-carbonate-pyrrhotite veining occurs with irregular contacts.					287830	130.00	131.49	1.49	0	-	0.03	-	-
		Alteration Maj:	***Type/Style/Intensity***	***Comment***											
		129.18 - 131.44	CB FRC 1	Carbonatization, Along Fractures, Very weak											
		129.18 - 131.44	CL FRC 1	Chloritization, Along Fractures, Very weak											
		129.18 - 131.44	BIO SPT 1	Biotitization, Spotty/Patchy, Very weak											
		129.18 - 131.44	CL SPT 3	Chloritization, Spotty/Patchy, Moderate											
		Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***											
		129.18 - 131.44	Py VN 0.5	Pyrite, Vein-controlled, 0.5%											
		Texture Maj:	***Type***	***Comment***											
		129.18 - 131.44	MG	Medium Grained(1-5mm)											
131.44	132.45	**8G**	***Feldspar Porphyry***			BLK									

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		feldspar porphyry dike with fg matrix and 1-2mm sized feldspar phenocrysts. Unit is cut by thin quartz-carb filled fractues that are discontinuous and associated with pyrrhotite mineraization. A short 12cm interval of tonalite occurs with a hematite altered 1cm carb vein appearing bright pink (Mn?) in colour.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		131.44 - 132.45 CB FRC 2 Carbonatization, Along Fractures, Weak												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		131.44 - 132.45 Po VN 0.5 Pyrrhotite, Vein-controlled, 0.5%												
		Vein Maj. : ***Style/%vein/CoreA/%min/min*** ***Comment***												
		131.44 - 132.45 VNLT 2 2 SPHV Sulphide Vein, 2%												
		131.44 - 132.45 VNLT 2 98 QCV Quartz-Calcite Vein, 98%												
132.45	135.36	**14B** ***Fine-grained Diabase dykes***			BLK									
		fine-grained magnetitc diabase dike with few clusters of feldspar grains that are weakly epidote altered and medium-grained.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		132.45 - 135.36 EP AFG 1 Epidotization, Alteration of feldspar grains, Very weak												
		Vein Maj. : ***Style/%vein/CoreA/%min/min*** ***Comment***												
		132.45 - 135.36 STG 0.5 100 QCV Quartz-Calcite Vein, 100%												
135.36	149.40	**7B** ***Diorite - Quartz Diorite***			GR	287831	137.00	138.00	1.00	0	-	0.01	-	-
		medium-grained diorite with spotty biotite alteration and pervasive chlorite alteration. Spotty epidote alteration of feldpsar. Carb along fractures. Very minor quartz-carbonate stringers throughout. tonalite dike ~144.52-144.89m and 149.32-149.39m. Chlorite aleratation increases marginal to veins.				287832	145.50	146.50	1.00	0	-	0.01	-	-
						287833	148.00	149.00	1.00	0	-	0.01	-	-
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												

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From (m)	To (m)		Lithology	Weathering Oxidation Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		135.36 - 145.78	HM SPT 1	Hematization, Spotty/Patchy, Very weak									
		135.36 - 145.78	CB FRC 1	Carbonatization, Along Fractures, Very weak									
		135.36 - 145.78	BIO SPT 1	Biotitization, Spotty/Patchy, Very weak									
		135.36 - 145.78	CL PV 4	Chloritization, Pervasive, Strong									
		145.78 - 146.15	HM SPT 1	Hematization, Spotty/Patchy, Very weak									
		145.78 - 146.15	CB FRC 2	Carbonatization, Along Fractures, Weak									
		145.78 - 146.15	CL PV 5	Chloritization, Pervasive, Intense									
		146.15 - 149.40	CL MTV 5	Chloritization, Marginal to veins, Intense									
		146.15 - 149.40	CB FRC 1	Carbonatization, Along Fractures, Very weak									
		146.15 - 149.40	CL PV 4	Chloritization, Pervasive, Strong									
		Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***									
		137.00 - 137.50	Py VN 0.5	Pyrite, Vein-controlled, 0.5%									
		Vein Maj. :	***Style/%vein/CoreA/%min/min***	***Comment***									
		135.36 - 149.40	VN 1 100 QCV	Quartz-Calcite Vein, 100%									

Minor Interval:

144.52	144.90	IITNLT	*Tonalite*	

medium grained pervasively silica and hem altered tonalite with spotty biotite alteration.

Alteration Min:	***Type/Style/Intensity***	***Comment***
144.52 - 144.90	HM PV 1	Hematization, Pervasive, Very weak
144.52 - 144.90	CL SPT 1	Chloritization, Spotty/Patchy, Very we
144.52 - 144.90	BIO SPT 2	Biotitization, Spotty/Patchy, Weak
144.52 - 144.90	SI PV 4	Silicification, Pervasive, Strong

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
Minor Interval:														
149.32	149.39	IITNLT *Tonalite*												
		mg tonalite dike with spotty chlorite/biotite alteration and quartz flooding.												
		Alteration Min: ***Type/Style/Intensity*** ***Comment***												
		149.32 - 149.39 CL SPT 3 Chloritization, Spotty/Patchy, Modera												
		149.32 - 149.39 BIO SPT 2 Biotitization, Spotty/Patchy, Weak												
		149.32 - 149.39 SI PV 4 Silicification, Pervasive, Strong												
149.40	150.34	**7C** ***Gabbro***			BLK	287834	149.40	150.34	0.94	0	-	0.01	-	-
		fine-grained black gabbro with pervasive chlorite alteration and fracture controlled carb alteration.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		149.40 - 150.34 SI PV 1 Silicification, Pervasive, Very weak												
		149.40 - 150.34 CB FRC 1 Carbonatization, Along Fractures, Very weak												
		149.40 - 150.34 CL PV 3 Chloritization, Pervasive, Moderate												
		Vein Maj. : ***Style/%vein/CoreA/%min/min*** ***Comment***												
		149.40 - 150.34 FACV 1 100 QCV Quartz-Calcite Vein, 100%												
150.34	151.36	**7B** ***Diorite - Quartz Diorite***			DGR	287835	150.34	151.36	1.02	0	-	0.02	-	-
		medium-grained diorite with very minor quartz-grains scattered throughout (less than 2%). Few minor <1cm tonalite injections. Pervasive chlorite alteration, spotty biotite.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		150.34 - 151.36 CL FRC 2 Chloritization, Along Fractures, Weak												
		150.34 - 151.36 CB FRC 1 Carbonatization, Along Fractures, Very weak												

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		150.34 - 151.36 BIO SPT 1 Biotitization, Spotty/Patchy, Very weak												
		150.34 - 151.36 CL PV 3 Chloritization, Pervasive, Moderate												

Vein Maj. : ***Style/%vein/CoreA/%min/min*** ***Comment***

150.34 - 151.36 FACV 0.2 100 QCV Quartz-Calcite Vein, 100%

151.36 156.71 **14B** ***Fine-grained Diabase dykes*** BLK

medium-grained diabase with grading to finer-grained approaching upper contact. Moderately magnetic, weak epidote alteration of feldspar patchy and along fractures. Patchy pervasive carbonate alteration, minor fg dis pyrite. This unit is cut by a fine-grained strongly magnetic diabase dike.

Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***

151.36 - 156.71 Py DIS 0.2 Pyrite, Disseminated, 0.2%

156.71 160.45 **14B** ***Fine-grained Diabase dykes*** BLK

fine-grained diabase black in colour, rare clustered feldspar phenocrysts are weakly epidote altered. Diseminated pyrite throughout.

Alteration Maj: ***Type/Style/Intensity*** ***Comment***

156.71 - 160.45 EP AFG 1 Epidotization, Alteration of feldspar grains, Very weak

156.71 - 160.45 CL PV 3 Chloritization, Pervasive, Moderate

Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***

156.71 - 160.45 Py DIS 0.3 Pyrite, Disseminated, 0.3%

Hole Number **WAT16-01** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
160.45	175.65	**14B** ***Fine-grained Diabase dykes***			BLK									

medium-grained diabase. Moderately magnetic, weak epidote alteration of feldspar patchy and along fractures. Patchy pervasive carbonate alteration, minor fg dis pyrite. This unit is cut by a fine-grained strongly magnetic diabase dike. Irregular lower contact.

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
160.45 - 175.65	Py DIS 0.2	Pyrite, Disseminated, 0.2%

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
175.65	176.35	**7B** ***Diorite - Quartz Diorite***			DGR									

medium-grained diroite with minor quartz-carb stingers throughout, pervasive chorite alteration and along fractures.

Texture Maj:	***Type***	***Comment***
175.65 - 176.35	MG	Medium Grained(1-5mm)

Vein Maj. :	***Style/%vein/CoreA/%min/min***	***Comment***
175.65 - 176.35	VN 2 100 QCV	Quartz-Calcite Vein, 100%

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
176.35	177.70	**14B** ***Fine-grained Diabase dykes***			BLK									

fg strongly magnetic diabase with minor carbonate alteration along fractures and pervasive chlorite alteration. Fg diseminated pyrite throughout.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
176.35 - 177.70	CB FRC 1	Carbonatization, Along Fractures, Very weak

Hole Number **WAT16-01** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		176.35 - 177.70 CL PV 2 Chloritization, Pervasive, Weak												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		176.35 - 177.70 Py DIS 0.2 Pyrite, Disseminated, 0.2%												
177.70	182.00	**7B** ***Diorite - Quartz Diorite***			DGR	287837	177.70	179.00	1.30	0	-	0.01	-	-
		dark green to black diorite with 1cm-30cm more leucocratic pegmatitic patches that are rich in epidote altered feldspar. Finergrained intervals are more melanocratic. Diorite is pervasively chloritized with spotty carb alteration associated with fractures.				287838	179.00	180.00	1.00	0	-	0.01	-	-
						287839	180.00	181.00	1.00	0	-	0.01	-	-
						287840	181.00	182.00	1.00	0	-	0.01	-	-
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		177.70 - 182.00 CB FRC 1 Carbonatization, Along Fractures, Very weak												
		177.70 - 182.00 SI PV 1 Silicification, Pervasive, Very weak												
		177.70 - 182.00 EP AFG 1 Epidotization, Alteration of feldspar grains, Very weak												
		177.70 - 182.00 CL PV 4 Chloritization, Pervasive, Strong												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		177.70 - 182.00 Py VN 0.1 Pyrite, Vein-controlled, 0.1%												
		177.70 - 182.00 Py DIS 0.2 Pyrite, Disseminated, 0.2%												
		Texture Maj: ***Type*** ***Comment***												
		178.36 - 178.53 PG Pegmatitic												
		179.22 - 179.33 PG Pegmatitic												
		180.27 - 180.60 PG Pegmatitic												
		181.00 - 181.22 PG Pegmatitic												
		181.68 - 182.00 PG Pegmatitic												
		Vein Maj. : ***Style/%vein/CoreA/%min/min*** ***Comment***												
		177.70 - 182.00 VNLT 2 100 QCV Quartz-Calcite Vein, 100%												
		179.73 - 180.00 VN 90 85 QAV Quartz-Amphibole Vein, 85%												

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		179.73 - 180.00 VN 90 15 QCV Quartz-Calcite Vein, 15%												

Minor Interval:

179.00 179.73 IITNL TBX *Tonalite Breccia*

medium-grained tonalite (variably silica-sodic altered proximal to healed fractures. Spotty biotite/chlorite and hemaite alt localized along select fractures) brecciating major doirite litho which is pervasively chloritized in patches. Spotty pyrrhotite diseminated. Spotty carbonate alteration.

Alteration Min:	Type/Style/Intensity	Comment
179.00 - 179.73	HM FRC 2	Hematization, Along Fractures, Weał
179.00 - 179.73	CL PV 2	Chloritization, Pervasive, Weak
179.00 - 179.73	CB SPT 1	Carbonatization, Spotty/Patchy, Very

Mineralization Min:	Type/Style/%Mineral	Comment
179.00 - 179.73	Po DIS 0.2	Pyrrhotite, Disseminated, 0.2%

Minor Interval:

181.24 181.42 IITNL T *Tonalite*

medium-grained tonalite dike, spotty chlorite, pervasive silica

Alteration Min:	Type/Style/Intensity	Comment
181.24 - 181.42	HM PV 1	Hematization, Pervasive, Very weak
181.24 - 181.42	CB SPT 1	Carbonatization, Spotty/Patchy, Very
181.24 - 181.42	CL SPT 2	Chloritization, Spotty/Patchy, Weak
181.24 - 181.42	SI PV 3	Silicification, Pervasive, Moderate

182.00 185.00 **8C** ***Tonalite/Trondjhemite Breccia*** DGR 287841 182.00 183.00 1.00 0 - 0.01 - -

medium-grained, silica flooded tonalite (spotty chlorite and carbonate alt) brecciating medium-grained pervasively chlorite altered diorite (spotty carbonate alteration, spotty biotite).

Alteration Maj:	Type/Style/Intensity	Comment
182.00 - 185.00	EP AFG 1	Epidotization, Alteration of feldspar grains, Very weak
182.00 - 185.00	HM MX 2	Hematization, Matrix, Weak

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From (m)	To (m)		Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		182.00 - 185.00	SI MX 3	Silicification, Matrix, Moderate											
		182.00 - 185.00	CL PV 3	Chloritization, Pervasive, Moderate											
		Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***											
		182.00 - 185.00	Py DIS 0.3	Pyrite, Disseminated, 0.3%											
		Vein Maj. :	***Style/%vein/CoreA/%min/min***	***Comment***											
		182.00 - 185.00	VNLT 3 100 CBV	Carbonate Vein, 100%											
185.00	191.00	**8B**	***Granite (Chester)***			DGR	287842	184.60	186.00	1.40	0	-	0.01	-	-
		Medium-grained diorite with spotty biotite alteration and minor epidote alteration of feldspar grains. Irregular carbonate-rich veinlets occasionally approach in situ brecciation of the host diorite. Minor tonalite breccia dike.					287843	186.00	187.00	1.00	0	-	0.01	-	-
							287844	187.00	188.16	1.16	0	-	0.01	-	-
							287845	188.16	189.00	0.84	0	-	0.01	-	-
							287846	189.00	190.00	1.00	0	-	0.01	-	-
		Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***											
		185.00 - 191.00	Py DIS 0.1	Pyrite, Disseminated, 0.1%											
		Structure Maj.:	***Inte/Type/Core Angle***	***Comment***											
		185.00 - 188.40	W SHRZN	Shear Zone											
		Vein Maj. :	***Style/%vein/CoreA/%min/min***	***Comment***											
		185.00 - 191.00	VNLT 6 100 CV	Calcite Vein, 100%											
Minor Interval:															
185.00	188.00	SHRZN	*Shear Zone*												
		chlorite-carbonate dominated weak to moderate shear zone. Fine grained disseminated pyrite													
		Mineralization Min:	***Type/Style/%Mineral***	***Comment***											
		185.00 - 188.00	Py DIS 0.5	Pyrite, Disseminated, 0.5%											
		Vein Min. :	***Style/%vein/CoreA/%min/min***	***Comment***											
		185.00 - 188.00	VNLT 4 100 CBV	Carbonate Vein, 100%											

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
Minor Interval:														
188.50	189.00	IITNL *Tonalite Breccia* TBX												

medium-grained tonalite with spotty chlorite alteration and pervasive silica alteration, brecciating the major diorite.

Alteration Min:	Type/Style/Intensity	Comment
188.50 - 189.00	BIO SPT 2	Biotitization, Spotty/Patchy, Weak
188.50 - 189.00	CB PV 2	Carbonatization, Pervasive, Weak
188.50 - 189.00	CL SPT 3	Chloritization, Spotty/Patchy, Modera
188.50 - 189.00	SI MX 3	Silicification, Matrix, Moderate

Mineralization Min:	Type/Style/%Mineral	Comment
188.50 - 189.00	Py DIS 0.05	Pyrite, Disseminated, 0.05%

Structure Min.:	Inte/Type/Core Angle	Comment
188.50 - 189.00	M BX	Brecciated

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
191.00	201.00	**8C** ***Tonalite/Trondjhemite Breccia***			DGR	287847	193.00	194.00	1.00	0	-	0.01	-	-
						287849	194.00	195.00	1.00	0	-	0.01	-	-
						287850	195.00	196.00	1.00	0	-	0.01	-	-
						287851	196.00	197.00	1.00	0	-	0.01	-	-
						287852	197.00	198.00	1.00	0	-	0.01	-	-
						287853	200.60	201.05	0.45	0	-	0.01	-	-

medium-grained tonalite with pervasive spotty chl alt brecciating the host fine- to medium-grained diorite patchy epidote and patchy minor hematite alteration. Pyrite mineralization along fractures and dis.

Alteration Maj:	Type/Style/Intensity	Comment
191.00 - 201.00	CB SPT 1	Carbonatization, Spotty/Patchy, Very weak
191.00 - 201.00	EP SPT 1	Epidotization, Spotty/Patchy, Very weak
191.00 - 201.00	CL FRC 5	Chloritization, Along Fractures, Intense
191.00 - 201.00	CL PV 3	Chloritization, Pervasive, Moderate
195.00 - 196.00	SI MX 2	Silicification, Matrix, Weak
195.00 - 196.00	HM SPT 1	Hematization, Spotty/Patchy, Very weak
195.00 - 196.00	CB PV 3	Carbonatization, Pervasive, Moderate
195.00 - 196.00	EP AFG 3	Epidotization, Alteration of feldspar grains, Moderate
196.00 - 196.80	CB FRC 2	Carbonatization, Along Fractures, Weak

From (m)	To (m)		Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		196.00 - 196.80	SI MX 3	Silicification, Matrix, Moderate											
		196.00 - 196.80	CL SPT 5	Chloritization, Spotty/Patchy, Intense											
		Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***											
		191.00 - 196.00	Py DIS 0.2	Pyrite, Disseminated, 0.2%											
		196.00 - 196.80	Py FAC 0.2	Pyrite, Fracture-controlled, 0.2%											
		196.00 - 196.80	Py DIS 0.3	Pyrite, Disseminated, 0.3%											
		Structure Maj.:	***Inte/Type/Core Angle***	***Comment***											
		191.00 - 201.00	M BX	Brecciated											
		Vein Maj. :	***Style/%vein/CoreA/%min/min***	***Comment***											
		191.00 - 201.00	VNLT 3 100 QCV	Quartz-Calcite Vein, 100%											
201.00	209.40	**7B**	***Diorite - Quartz Diorite***			DGR	287854	202.10	203.16	1.06	0	-	0.01	-	-
							287855	204.00	205.00	1.00	0	-	0.01	-	-
							287856	205.00	206.00	1.00	0	-	0.01	-	-
							287857	206.00	207.00	1.00	0	-	0.01	-	-
							287858	208.00	209.00	1.00	0	-	0.01	-	-
		medium-grained diorite with pervasive chlorite alteration that is intense in some intervals and along fractures. Few minor weak patches of epidote alteration. Minor carb veining along fractures. Trace pyrite and chalcopyrite associated with carb stringers. Small tonalite dike cutting unit. Small amount of pyrite associated with fractures.													
		Alteration Maj:	***Type/Style/Intensity***	***Comment***											
		201.00 - 203.46	CB FRC 3	Carbonatization, Along Fractures, Moderate											
		201.00 - 203.46	CL FRC 5	Chloritization, Along Fractures, Intense											
		201.00 - 203.46	CL PV 5	Chloritization, Pervasive, Intense											
		203.46 - 208.00	CB PV 3	Carbonatization, Pervasive, Moderate											
		203.46 - 208.00	EP SPT 2	Epidotization, Spotty/Patchy, Weak											
		203.46 - 208.00	CL FRC 5	Chloritization, Along Fractures, Intense											
		203.46 - 208.00	CL PV 3	Chloritization, Pervasive, Moderate											
		Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***											
		201.00 - 209.40	Py FAC 0.1	Pyrite, Fracture-controlled, 0.1%											

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)

Structure Maj.: ***Inte/Type/Core Angle*** ***Comment***

208.00 - 209.40 W SHRZN Shear Zone

Vein Maj. : ***Style/%vein/CoreA/%min/min*** ***Comment***

201.00 - 209.40 VNLT 2 100 QCV Quartz-Calcite Vein, 100%

Minor Interval:

207.05 207.21 IITNLT *Tonalite*

medium-grained quartz-flooded tonalite with spotty chlorite and carbonate alteration.

Alteration Min: ***Type/Style/Intensity*** ***Comment***

207.05 - 207.21 CB SPT 2 Carbonatization, Spotty/Patchy, Wea

207.05 - 207.21 CL SPT 3 Chloritization, Spotty/Patchy, Modera

207.05 - 207.21 SI PV 4 Silicification, Pervasive, Strong

209.40 234.00 **8C** ***Tonalite/Trondjhemite Breccia*** DGR

						287859	209.00	210.00	1.00	0	-	0.01	-	-
						287861	210.00	211.00	1.00	0	-	0.01	-	-
						287862	211.00	212.00	1.00	0	-	0.01	-	-
						287863	212.00	213.00	1.00	0	-	0.01	-	-
						287864	213.00	214.00	1.00	0	-	0.01	-	-
						287865	220.00	221.00	1.00	0	-	0.01	-	-
						287866	221.00	222.00	1.00	0	-	0.01	-	-
						287867	222.00	223.00	1.00	0	-	0.01	-	-
						287868	223.00	224.00	1.00	0	-	0.01	-	-
						287869	227.00	228.00	1.00	0	-	0.01	-	-
						287870	233.00	234.04	1.04	0	-	0.01	-	-

medium-grained tonalite, pervasively silicified with patchy carbonate and hematite alteration and spotty chlorite brecciating medium-grained diorite with pervasive strong chlorite alteration (creating a porphyrytic plagioclase appearance in places) and spotty carb alteration. Occasional quartz grains in diorite account for less than 1% of rock unit. Trace disseminated pyrite.

Alteration Maj: ***Type/Style/Intensity*** ***Comment***

209.40 - 234.00 HM SPT 1 Hematization, Spotty/Patchy, Very weak

209.40 - 234.00 SI MX 2 Silicification, Matrix, Weak

209.40 - 234.00 CL MX 3 Chloritization, Matrix, Moderate

209.40 - 234.00 CL PV 4 Chloritization, Pervasive, Strong

Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***

209.40 - 234.00 Py DIS 0.1 Pyrite, Disseminated, 0.1%

Vein Maj. : ***Style/%vein/CoreA/%min/min*** ***Comment***

209.40 - 234.00 VNLT 0.2 100 QCV Quartz-Calcite Vein, 100%

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
234.00	235.90	**7B** ***Diorite - Quartz Diorite***			DGR									

medium-grained diorite with pervasive chlorite alteration, carb along fractures, and trace pyrite. Minor quartz-carb stringers.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
234.00 - 235.90	CL FRC 5	Chloritization, Along Fractures, Intense
234.00 - 235.90	CB FRC 1	Carbonatization, Along Fractures, Very weak
234.00 - 235.90	CL PV 4	Chloritization, Pervasive, Strong

Vein Maj. :	*Style/%vein/CoreA/%min/min*	*Comment*
234.00 - 235.90	VNLT 0.5 100 QCV	Quartz-Calcite Vein, 100%

235.90	241.17	**8C** ***Tonalite/Trondjhemite Breccia***			DGR	287871	235.95	237.00	1.05	0	-	0.01	-	-
						287873	240.00	241.17	1.17	0	-	0.01	-	-

medium-grained tonalite with pervasive quartz-flooding, spotty chlorite alteration and spotty epidote alteration of feldspar grains brecciating medium-grained pervasively chlorite altered diorite. Spotty carbonate alteration throughout. Trace pyrite.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
235.90 - 241.17	CB SPT 2	Carbonatization, Spotty/Patchy, Weak
235.90 - 241.17	EP SPT 2	Epidotization, Spotty/Patchy, Weak
235.90 - 241.17	CL PV 4	Chloritization, Pervasive, Strong
235.90 - 241.17	CL MX 3	Chloritization, Matrix, Moderate

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
241.17	244.71	**7C** ***Gabbro***			GR	287874	241.17	242.00	0.83	0	-	0.01	-	-
						287875	243.50	244.71	1.21	0	-	0.01	-	-

gabbro dike with sharp upper and lower contacts. Pervasively chlorite, carb and silica alteration. Minor quartz-carb veining with trace py mineralization. Vfg at contacts.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
241.17 - 244.71	SI PV 1	Silicification, Pervasive, Very weak
241.17 - 244.71	CB PV 2	Carbonatization, Pervasive, Weak
241.17 - 244.71	CL PV 5	Chloritization, Pervasive, Intense

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
241.17 - 244.71	Py FAC 0.01	Pyrite, Fracture-controlled, 0.01%

Texture Maj:	***Type***	***Comment***
241.17 - 244.71	MAS	Massive

Vein Maj. :	***Style/%vein/CoreA/%min/min***	***Comment***
241.17 - 244.71	VN 1 100 QCV	Quartz-Calcite Vein, 100%

244.71	247.32	**8C** ***Tonalite/Trondjhemite Breccia***			DGR	287876	245.50	247.32	1.82	0	-	0.01	-	-

medium-grained tonalite with pervasive quartz-flooding, spotty chlorite alteration and spotty epidote alteration of feldspar grains brecciating medium-grained pervasively chlorite altered diorite. Spotty carbonate alteration throughout. Trace pyrite.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
244.71 - 247.32	CB SPT 1	Carbonatization, Spotty/Patchy, Very weak
244.71 - 247.32	EP SPT 1	Epidotization, Spotty/Patchy, Very weak
244.71 - 247.32	SI MX 3	Silicification, Matrix, Moderate
244.71 - 247.32	CL PV 4	Chloritization, Pervasive, Strong

Hole Number **WAT16-01** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
247.32	248.90	**7E** ***Lamprophyre Dikes-Sills***			DGR	287877	247.32	248.00	0.68	0	-	0.01	-	-
						287878	248.00	248.90	0.90	0	-	0.01	-	-

dark green coloured lamprophyre, fine-grained with medium-grained biotite phenocrysts. Quartz-carb veinlets cut this unit and account for up to 3%. Fg disseminated pyrite. Sharp upper and lower contacts.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
247.32 - 248.90	CB SPT 1	Carbonatization, Spotty/Patchy, Very weak
247.32 - 248.90	CL PV 3	Chloritization, Pervasive, Moderate

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
247.32 - 248.90	Py DIS 0.1	Pyrite, Disseminated, 0.1%

Vein Maj. :	***Style/%vein/CoreA/%min/min***	***Comment***
247.32 - 248.90	VNLT 3 100 QCV	Quartz-Calcite Vein, 100%

248.90	251.12	**7B** ***Diorite - Quartz Diorite***			DGR	287879	250.10	251.12	1.02	0	-	0.01	-	-

medium-grained green diorite with pervasive chlorite alteration and spotty epidote alteration of feldspar grains as well as carbonate veinelts. Trace pyrite.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
248.90 - 251.12	CB SPT 2	Carbonatization, Spotty/Patchy, Weak
248.90 - 251.12	EP SPT 3	Epidotization, Spotty/Patchy, Moderate
248.90 - 251.12	CL PV 4	Chloritization, Pervasive, Strong

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
248.90 - 251.12	Py FAC 0.1	Pyrite, Fracture-controlled, 0.1%

Vein Maj. :	***Style/%vein/CoreA/%min/min***	***Comment***
248.90 - 251.12	VNLT 1 100 QCV	Quartz-Calcite Vein, 100%

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Hole Number **WAT16-01** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
251.12	255.20	**7C** ***Gabbro***			GR	287880	251.12	252.00	0.88	0	-	0.01	-	-
		gabbro dike with sharp upper and lower contacts. Pervasively chlorite, carb and silica alteration. quartz-carb veinlets, trace py mineralization. Vfg at contacts. Sharp upper and lower contat.				287881	254.00	255.20	1.20	0	-	0.05	-	-
		Alteration Maj:	***Type/Style/Intensity***		***Comment***									
		251.12 - 255.20	CB SPT 3		Carbonatization, Spotty/Patchy, Moderate									
		251.12 - 255.20	SI PV 1		Silicification, Pervasive, Very weak									
		251.12 - 255.20	CL PV 5		Chloritization, Pervasive, Intense									
		Mineralization Maj. :	***Type/Style/%Mineral***		***Comment***									
		251.12 - 255.20	Py DIS 0.01		Pyrite, Disseminated, 0.01%									
		Vein Maj. :	***Style/%vein/CoreA/%min/min***		***Comment***									
		251.12 - 255.20	VNLT 4 100 QCV		Quartz-Calcite Vein, 100%									
255.20	265.62	**7B** ***Diorite - Quartz Diorite***			DGR	287882	255.20	256.00	0.80	0	-	0.01	-	-
		fine- to medium-grained diorite with variable (moderate to intense) chlorite alteration and patches of moderate to strong epidote alteration. Quartz-carbonate veinlets cut the unit with regular to irregular and sharp to diffuse perimeters. Fg pyrite along fractures. Few diffuse tonalite diking occurs. Pyrite occurs up to 0.5% associated with QCVlts.				287883	256.00	257.00	1.00	0	-	0.01	-	-
						287885	258.00	259.00	1.00	0	-	0.01	-	-
						287886	259.00	260.00	1.00	0	-	0.01	-	-
		Alteration Maj:	***Type/Style/Intensity***		***Comment***	287887	260.00	261.00	1.00	0	-	0.01	-	-
		255.20 - 257.25	HM MTV 1		Hematization, Marginal to veins, Very weak	287888	261.00	262.00	1.00	0	-	0.01	-	-
		255.20 - 257.25	EP SPT 1		Epidotization, Spotty/Patchy, Very weak									
		255.20 - 257.25	CB SPT 1		Carbonatization, Spotty/Patchy, Very weak									
		255.20 - 257.25	CL PV 4		Chloritization, Pervasive, Strong									
		256.43 - 256.80	CB PV 4		Carbonatization, Pervasive, Strong									

Hole Number **WAT16-01** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
	256.43 - 256.80	EP	PV	2	Epidotization, Pervasive, Weak									
	257.25 - 257.37	CB	PV	2	Carbonatization, Pervasive, Weak									
	257.25 - 257.37	CL	PV	4	Chloritization, Pervasive, Strong									
	257.25 - 257.37	EP	PV	4	Epidotization, Pervasive, Strong									
	257.37 - 260.25	CL	MTV	5	Chloritization, Marginal to veins, Intense									
	257.37 - 260.25	CL	PV	4	Chloritization, Pervasive, Strong									
	257.37 - 260.25	CB	MTV	2	Carbonatization, Marginal to veins, Weak									
	257.37 - 260.25	CB	FRC	2	Carbonatization, Along Fractures, Weak									
	260.25 - 261.00	CL	PV	5	Chloritization, Pervasive, Intense									
	260.25 - 261.00	CB	PV	2	Carbonatization, Pervasive, Weak									
	260.25 - 261.00	EP	AFG	3	Epidotization, Alteration of feldspar grains, Moderate									
	261.00 - 265.62	CB	MTV	2	Carbonatization, Marginal to veins, Weak									
	261.00 - 265.62	CL	MTV	5	Chloritization, Marginal to veins, Intense									
	261.00 - 265.62	CL	PV	4	Chloritization, Pervasive, Strong									
	261.00 - 265.62	EP	SPT	2	Epidotization, Spotty/Patchy, Weak									

Mineralization Maj. :	Type/Style/%Mineral			Comment
255.20 - 265.62	Py	DIS	0.2	Pyrite, Disseminated, 0.2%
255.20 - 265.62	Py	VN	0.3	Pyrite, Vein-controlled, 0.3%

Vein Maj. :	Style/%vein/CoreA/%min/min			Comment
255.20 - 265.62	VNLT	3	5 PY	Pyrite, 5%
255.20 - 265.62	VNLT	3	95 QCV	Quartz-Calcite Vein, 95%

Hole Number **WAT16-01** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
265.62	270.26	**8C** ***Tonalite/Trondjhemite***			CR	287889	265.62	267.00	1.38	0	-	0.01	-	-
						287890	267.00	268.00	1.00	0	-	0.01	-	-
						287891	268.00	269.00	1.00	0	-	0.01	-	-
						287892	269.00	270.00	1.00	0	-	0.01	-	-

Intensely altered tonalite. Margins of unit are strongly chloritized making the contact difficult to differentiate. A quartz-carb vein in the center of the unit has a 30cm intense silica and sericite alteration halo, the perimeter of this is bounded by strong carbonateAnd sericite alteration which extends 1m away from the vein. Mica plates within the rock are very flashy in appearance and can be mistaken for aspy.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
265.62 - 267.36	CB FRC 5	Carbonatization, Along Fractures, Intense
265.62 - 267.36	SR PV 2	Sericitization, Pervasive, Weak
265.62 - 267.36	CB PV 1	Carbonatization, Pervasive, Very weak
265.62 - 267.36	CL PV 5	Chloritization, Pervasive, Intense
267.36 - 268.13	SI PV 3	Silicification, Pervasive, Moderate
267.36 - 268.13	CL PV 2	Chloritization, Pervasive, Weak
267.36 - 268.13	BIO IS 2	Biotitization, Interstitial, Weak
267.36 - 268.13	SR PV 4	Sericitization, Pervasive, Strong
268.13 - 268.60	SI PV 5	Silicification, Pervasive, Intense
268.13 - 268.60	SR PV 4	Sericitization, Pervasive, Strong
268.13 - 268.60	CB IS 1	Carbonatization, Interstitial, Very weak
268.13 - 268.60	CL FRC 3	Chloritization, Along Fractures, Moderate
268.60 - 270.26	CL PV 3	Chloritization, Pervasive, Moderate
268.60 - 270.26	SI PV 3	Silicification, Pervasive, Moderate
268.60 - 270.26	BIO IS 2	Biotitization, Interstitial, Weak
268.60 - 270.26	SR PV 4	Sericitization, Pervasive, Strong

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
265.62 - 270.26	Py FAC 0.2	Pyrite, Fracture-controlled, 0.2%

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
270.26	278.95	7B Diorite - Quartz Diorite			DGR	287893	272.00	273.00	1.00	0	-	0.01	-	-
						287894	275.00	276.00	1.00	0	-	0.01	-	-
						287895	276.00	277.00	1.00	0	-	0.01	-	-

fine- to medium-grained quartz-diorite to diorite (finer grained where pervasively chlorite altered). Intense chlorite surrounding a quartz-sericite vein at 275.50m. Spotty epidote alteration of feldspar (very weak) and spotty hematite staining in patches (also weak). Fine-grained diseminated pyrite. Small 5cm-30cm tonalite dike injections suggesting proximity to breccia.

Alteration Maj:	Type/Style/Intensity	Comment
270.26 - 275.22	SI MX 3	Silicification, Matrix, Moderate
270.26 - 275.22	EP AFG 1	Epidotization, Alteration of feldspar grains, Very weak
270.26 - 275.22	CB FRC 2	Carbonatization, Along Fractures, Weak
270.26 - 275.22	CL PV 4	Chloritization, Pervasive, Strong
275.22 - 275.85	CB FRC 2	Carbonatization, Along Fractures, Weak
275.22 - 275.85	CL PV 5	Chloritization, Pervasive, Intense
275.85 - 278.95	SI MX 3	Silicification, Matrix, Moderate
275.85 - 278.95	EP AFG 1	Epidotization, Alteration of feldspar grains, Very weak
275.85 - 278.95	CB FRC 3	Carbonatization, Along Fractures, Moderate
275.85 - 278.95	CL PV 4	Chloritization, Pervasive, Strong

Mineralization Maj. :	Type/Style/%Mineral	Comment
270.26 - 278.95	Py DIS 0.3	Pyrite, Disseminated, 0.3%

Vein Maj. :	Style/%vein/CoreA/%min/min	Comment
270.26 - 275.00	VN 1 100 QCV	Quartz-Calcite Vein, 100%
275.00 - 276.50	VN 32 100 QCV	Quartz-Calcite Vein, 100%
276.50 - 278.95	VN 0.5 100 QCV	Quartz-Calcite Vein, 100%

Minor Interval:

274.34 274.40 IITNLT *Tonalite*

quartz-flooded, spotty chlorite, spotty carb, weak perv hem

Alteration Min:	Type/Style/Intensity	Comment

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		274.34 - 274.40 CB SPT 2 Carbonatization, Spotty/Patchy, Wea												
		274.34 - 274.40 CL SPT 2 Chloritization, Spotty/Patchy, Weak												
		274.34 - 274.40 SI PV 3 Silicification, Pervasive, Moderate												
Minor Interval:														
275.12	275.22	IITNLT *Tonalite*												
		quartz-flooded, spotty chlorite, spotty carb, weak perv hem												
		Alteration Min: ***Type/Style/Intensity*** ***Comment***												
		275.12 - 275.22 HM PV 1 Hematization, Pervasive, Very weak												
		275.12 - 275.22 CB SPT 2 Carbonatization, Spotty/Patchy, Wea												
		275.12 - 275.22 CL SPT 2 Chloritization, Spotty/Patchy, Weak												
		275.12 - 275.22 SI PV 3 Silicification, Pervasive, Moderate												
Minor Interval:														
276.09	276.25	IITNLT *Tonalite*												
		quartz-flooded, spotty chlorite, spotty carb, weak perv hem												
		Alteration Min: ***Type/Style/Intensity*** ***Comment***												
		276.09 - 276.25 HM PV 1 Hematization, Pervasive, Very weak												
		276.09 - 276.25 CL SPT 2 Chloritization, Spotty/Patchy, Weak												
		276.09 - 276.25 CB SPT 2 Carbonatization, Spotty/Patchy, Wea												
		276.09 - 276.25 SI PV 3 Silicification, Pervasive, Moderate												
278.95	287.40	**8C** ***Tonalite/Trondjhemite Breccia***			DGR	287897	284.00	285.00	1.00	0	-	0.01	-	-
		medium-grained quartz-flooded and carb altered tonalite with spotty chlorite brecciating fg-mg diorite that is pervasively chlorite altered (strong to intense) and can appear porphyritic in areas with few mm sized feldspar phenocrysts remaining. Pyrite mineralization is diseminated throughout.				287898	285.00	286.00	1.00	0	-	0.01	-	-
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		278.95 - 287.40 CL MX 2 Chloritization, Matrix, Weak												
		278.95 - 287.40 CB MX 4 Carbonatization, Matrix, Strong												

Hole Number **WAT16-01** Project: **TAAC** Project Number: **251**

From (m)	To (m)		Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		278.95 - 287.40	SI MX 3	Silicification, Matrix, Moderate											
		278.95 - 287.40	CL PV 5	Chloritization, Pervasive, Intense											
		Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***											
		278.95 - 287.40	Py DIS 0.5	Pyrite, Disseminated, 0.5%											
		Structure Maj.:	***Inte/Type/Core Angle***	***Comment***											
		278.95 - 287.40	W BX	Brecciated											
		Vein Maj. :	***Style/%vein/CoreA/%min/min***	***Comment***											
		278.95 - 287.40	VNLT 4 100 QCV	Quartz-Calcite Vein, 100%											
287.40	297.00	**7B**	***Diorite - Quartz Diorite***			DGR	287899	288.00	289.00	1.00	0	-	0.01	-	-
							287900	289.00	290.00	1.00	0	-	0.02	-	-
							287901	290.00	291.00	1.00	0	-	0.01	-	-
							287902	291.00	292.00	1.00	0	-	0.01	-	-
							287903	294.00	295.00	1.00	0	-	0.01	-	-
							287904	295.00	296.00	1.00	0	-	0.01	-	-
		fg-mg intensely chlorite altered quartz-diorite to diorite. Quartz-carbonate veining occurs (~1-3cm each). Fault breccia exists around 294.2m. Tonalite dikes are apparent however obscurred due to intense chlorite alteration making it difficult to see margins or extent. Spotty epidote alteration of feldspar grains and carbonate alteration in some areas. Fg disseminated pyrite.													
		Alteration Maj:	***Type/Style/Intensity***	***Comment***											
		287.40 - 297.00	CB PV 3	Carbonatization, Pervasive, Moderate											
		287.40 - 297.00	EP SPT 4	Epidotization, Spotty/Patchy, Strong											
		287.40 - 297.00	CL MTV 5	Chloritization, Marginal to veins, Intense											
		287.40 - 297.00	CL PV 4	Chloritization, Pervasive, Strong											
		Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***											
		287.40 - 297.00	Py DIS 0.2	Pyrite, Disseminated, 0.2%											
		Structure Maj.:	***Inte/Type/Core Angle***	***Comment***											
		294.17 - 294.54	S FLTZN 45	Fault Zone, 45° CA											
		Vein Maj. :	***Style/%vein/CoreA/%min/min***	***Comment***											
		287.40 - 297.00	VN 5 100 QCV	Quartz-Calcite Vein, 100%											

LITHOLOGY REPORT
- Detailed -

Hole Number **WAT16-01** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
Minor Interval:														
294.17	294.64	BXFLT *Fault Breccia*												

fault breccia, matrix composed of dark mafic materials and carbonate.

Alteration Min:	Type/Style/Intensity	Comment
294.17 - 294.64	CB MX 3	Carbonatization, Matrix, Moderate
294.17 - 294.64	HM SPT 1	Hematization, Spotty/Patchy, Very w
294.17 - 294.64	CL PV 5	Chloritization, Pervasive, Intense

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number **WAT16-01** Project: **TAAC** Project Number: **251**

From (m)	*To* (m)	*Length* (m)	*Sample #*	*Comments*
3.00	4.00	1.00	289216	Tonalite bx, strong ser alt
6.00	7.00	1.00	289217	tonalite bx
9.00	10.00	1.00	289218	tonalite bx
10.50	12.00	1.50	289219	tonalite bx strong sericite and chlorite alteration, * shear *
12.00	13.00	1.00	289220	tonalite bx, less sheared and trace pyrrhotite
13.00	14.40	1.40	289221	tonalite bx strong sericite and chlorite alteration * shear *
16.00	17.00	1.00	289222	tonalite bx
19.00	20.00	1.00	289223	tonalite bx
20.00	21.14	1.14	289225	tonalite bx
21.14	22.82	1.68	289226	gabbro dike
29.00	30.00	1.00	289227	diorite
30.00	31.00	1.00	289228	Lamprophyre dike
32.14	33.00	0.86	289229	tonalite bx
33.00	34.00	1.00	289230	tonalite bx
38.00	39.00	1.00	289231	patchy epidote alteration of tonalite
43.00	44.00	1.00	289232	weak shearing
44.00	45.00	1.00	289233	tonalite bx
49.00	50.00	1.00	289234	tonalite bx
50.00	51.00	1.00	289235	tonalite bx
51.00	51.63	0.63	289237	tonalite bx before diabase
60.03	61.00	0.97	289238	tonalite bx after diabase, broken core
61.00	62.00	1.00	289239	fault
62.00	63.00	1.00	289240	
64.00	65.00	1.00	289241	carbonate brecciation of tonalite breccia
65.00	66.00	1.00	289242	

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number **WAT16-01** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Length (m)	Sample #	Comments
66.00	67.00	1.00	289243	
73.00	74.15	1.15	289244	tonalite bx before lamp
74.15	75.33	1.18	289245	lamprophyre, moderate shearing, up to 1% py
78.00	79.00	1.00	289246	0.35m of lamprophyre with moderate shearing and up to 1% py, tonalite breccia
81.00	82.00	1.00	289247	carb stringers
85.00	86.00	1.00	289249	tonalite brecia with weak foliaition
91.00	92.00	1.00	289250	tonalite breccia, pegmatitic tonalite
93.50	94.50	1.00	287801	tonalite breccia, minor quartz-carb veining with py
95.00	96.00	1.00	287802	feldspar porphyry-tonalite breccia, qcv
96.00	97.00	1.00	287803	tonalite breccia, veining with mo, py, po, cpy
97.00	98.00	1.00	287804	qcv
98.00	99.00	1.00	287805	tonalite breccia
99.00	100.00	1.00	287806	qicving in diorite
100.00	101.00	1.00	287807	tonalite breccia, minor fe-carb vein
101.00	102.00	1.00	287808	tonalite breccia
102.00	103.00	1.00	287809	diorite
108.00	109.00	1.00	287810	chlorite and carb altered diorite
109.00	110.15	1.15	287811	
110.15	111.00	0.85	287813	gabbro
115.00	116.00	1.00	287814	tonalite breccia
116.00	117.00	1.00	287815	qcving
117.00	118.00	1.00	287816	diorite qcvs
118.00	119.00	1.00	287817	diorite qcv
119.00	120.00	1.00	287818	chl shear
120.00	121.24	1.24	287819	chl shear, QCSV, cpy and po

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number **WAT16-01** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Length (m)	Sample #	Comments
121.24	122.00	0.76	287820	diorite
122.00	123.00	1.00	287821	tonalite breccia, qcsv cpy and po
123.00	124.00	1.00	287822	tonalite breccia, qcsv with po and cpy
124.00	125.00	1.00	287823	chlorite shear qcsv, py cpy and po in vein
125.00	126.32	1.32	287825	chlorite shear, qcsv, po and cpy in vein
126.32	127.00	0.68	287826	
127.00	128.00	1.00	287827	tonalite breccia
128.00	129.00	1.00	287828	tonalite breccia
129.00	130.00	1.00	287829	tonalite, qcsv with po and py
130.00	131.49	1.49	287830	tonalite qcsv with po
137.00	138.00	1.00	287831	qcsv with po
145.50	146.50	1.00	287832	chlorite altered, qcv
148.00	149.00	1.00	287833	diorite, qcv
149.40	150.34	0.94	287834	gabbro
150.34	151.36	1.02	287835	diorite
177.70	179.00	1.30	287837	
179.00	180.00	1.00	287838	tonalite breccia dike with qcv
180.00	181.00	1.00	287839	diorite with pegmatitic patches
181.00	182.00	1.00	287840	diorite with pegmatitic patches and tonalite dike
182.00	183.00	1.00	287841	tonalite breccia
184.60	186.00	1.40	287842	diorite, chloritic shearing
186.00	187.00	1.00	287843	diorite, chloritic shearing
187.00	188.16	1.16	287844	diorite, chloritic shearing
188.16	189.00	0.84	287845	tonalite breccia
189.00	190.00	1.00	287846	diorite

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number **WAT16-01** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Length (m)	Sample #	Comments
193.00	194.00	1.00	287847	tonalite breccia, epidote altered
194.00	195.00	1.00	287849	tonalite breccia
195.00	196.00	1.00	287850	
196.00	197.00	1.00	287851	tnlt breccia
197.00	198.00	1.00	287852	tnlt bx
200.60	201.05	0.45	287853	diorite - strong chlorite alteration
202.10	203.16	1.06	287854	gabbro dike
204.00	205.00	1.00	287855	diorite quartz veinlets
205.00	206.00	1.00	287856	diorite- chlorite and carbonate altered (patchy)
206.00	207.00	1.00	287857	same as previous
208.00	209.00	1.00	287858	tonalite breccia - chlorite and carbonate altered shear
209.00	210.00	1.00	287859	same as previous
210.00	211.00	1.00	287861	same as previous
211.00	212.00	1.00	287862	same as previous
212.00	213.00	1.00	287863	tonalite breccia
213.00	214.00	1.00	287864	qcv
220.00	221.00	1.00	287865	tonalite bx
221.00	222.00	1.00	287866	chlorite altered breccia
222.00	223.00	1.00	287867	tnlt bx
223.00	224.00	1.00	287868	diorite
227.00	228.00	1.00	287869	
233.00	234.04	1.04	287870	
235.95	237.00	1.05	287871	cg tonalite bx
240.00	241.17	1.17	287873	tonalite breccia
241.17	242.00	0.83	287874	chlorite altered gabbro

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number **WAT16-01** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Length (m)	Sample #	Comments
243.50	244.71	1.21	287875	
245.50	247.32	1.82	287876	tonalite breccia, qcv
247.32	248.00	0.68	287877	lamprophyre
248.00	248.90	0.90	287878	lamprophyre
250.10	251.12	1.02	287879	diorite
251.12	252.00	0.88	287880	chlorite altered gabbro
254.00	255.20	1.20	287881	gabbro at contact
255.20	256.00	0.80	287882	diorite at contact
256.00	257.00	1.00	287883	diorite, patchy carb and ep alt, qcv
258.00	259.00	1.00	287885	diorite, strong chl alt
259.00	260.00	1.00	287886	diorite, strong chlorite, weakly deformed
260.00	261.00	1.00	287887	diorite, qcv
261.00	262.00	1.00	287888	diorite, QCVing weakly brecciating rock at micro scale
265.62	267.00	1.38	287889	tonaltie at contact
267.00	268.00	1.00	287890	outer halo of vein
268.00	269.00	1.00	287891	tonalite, vein and inner halo
269.00	270.00	1.00	287892	tonalite, outer halo and qcving
272.00	273.00	1.00	287893	quartz-diorite, qcv
275.00	276.00	1.00	287894	quartz-diorite,tonalite dike, quartz-carb-sericite veining with chlorite alt halo
276.00	277.00	1.00	287895	qdr, tonalite dike
284.00	285.00	1.00	287897	tonalite breccia, qcving, 0.5% py
285.00	286.00	1.00	287898	tonalite breccia, qcving, 0.5% py
288.00	289.00	1.00	287899	quartz diorite, qc stringers
289.00	290.00	1.00	287900	same as above
290.00	291.00	1.00	287901	

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number **WAT16-01** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Length (m)	Sample #	Comments
291.00	292.00	1.00	287902	qdr, qcving
294.00	295.00	1.00	287903	fault breccia, qcving
295.00	296.00	1.00	287904	qdr, intense cl, weak deform, qcving

DRILL HOLE REPORT

Hole Number: **WAT16-02** Project: **TAAC** Project Number: **251**

Drilling		Casing		Core		Location		Other	
Azimuth:	209.3	**Length:**	6	**Dimension:**	NQ	**Claim No.:**	163531	**Company:**	IAMGOLD
Dip:	-69.3	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Chenier
Length:	184.5	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Andrew Shea
Started:	01-Dec-16	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	yes
Completed:	03-Dec-16	**Left in hole:**	no	**Logged by:**	Andrew Shea	**Zone:**	17	**Surveyed by:**	Larry Labelle
Logged:	07-Dec-16	**Making water:**	no	**Relog by:**	Stephen Roach	**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: North Shear

Comment: Designed to test the down-dip extension of the North Shear Zone in the area where a channel returned 15.35 g/t Au over 3.51 meters

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	435856.77	**East:**	435856.77	**East:**	0
North:	5268092.3	**North:**	5268092.3	**North:**	0
Elev.:	395.96	**Elev.:**	395.96	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
0.00	209.30	-69.30	0	0	0		C	☑	
13.00	211.30	-69.30				55338	M	☑	
16.00	209.70	-69.30				55278	M	☑	
19.00	209.30	-69.30				55282	M	☑	
22.00	209.30	-69.20				55325	M	☑	
25.00	210.70	-69.10				55309	M	☑	
31.00	209.70	-69.20				55656	M	☑	
34.00	212.10	-69.20				53566	M	☑	
37.00	210.20	-69.20				54877	M	☑	
40.00	210.70	-70.20				55160	M	☑	
43.00	213.70	-69.20				55128	M	☑	
46.00	213.40	-69.20				55399	M	☑	
49.00	212.90	-69.50				55055	M	☑	
52.00	212.80	-69.10				54901	M	☑	
55.00	212.80	-69.10				54841	M	☑	

DRILL HOLE REPORT

Hole Number: **WAT16-02** Project: **TAAC** Project Number: **251**

Drilling		Casing		Core		Location		Other	
Azimuth:	209.3	**Length:**	6	**Dimension:**	NQ	**Claim No.:**	163531	**Company:**	IAMGOLD
Dip:	-69.3	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Chenier
Length:	184.5	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Andrew Shea
Started:	01-Dec-16	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	yes
Completed:	03-Dec-16	**Left in hole:**	no	**Logged by:**	Andrew Shea	**Zone:**	17	**Surveyed by:**	Larry Labelle
Logged:	07-Dec-16	**Making water:**	no	**Relog by:**	Stephen Roach	**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: North Shear

Comment: Designed to test the down-dip extension of the North Shear Zone in the area where a channel returned 15.35 g/t Au over 3.51 meters

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	435856.77	**East:**	435856.77	**East:**	0
North:	5268092.3	**North:**	5268092.3	**North:**	0
Elev.:	395.96	**Elev.:**	395.96	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
58.00	212.00	-69.00				55301	M	☑	
61.00	214.00	-69.00				55600	M	☑	
64.00	211.00	-69.10				55194	M	☑	
67.00	213.20	-69.00				55257	M	☑	
73.00	211.00	-68.90				55342	M	☑	
76.00	209.60	-69.00				55088	M	☑	
79.00	212.80	-69.00				55421	M	☑	
82.00	212.80	-68.80				55304	M	☑	
85.00	212.50	-68.80				55087	M	☑	
88.00	209.20	-68.80				53587	M	☑	
91.00	213.00	-68.80				55144	M	☑	
94.00	212.90	-68.70				55035	M	☑	
97.00	212.80	-68.70				55177	M	☑	
100.00	212.20	-68.60				55276	M	☑	
103.00	212.20	-68.60				55238	M	☑	
106.00	212.80	-68.60				55183	M	☑	

DRILL HOLE REPORT

Hole Number: **WAT16-02** Project: **TAAC** Project Number: **251**

Drilling		Casing		Core		Location		Other	
Azimuth:	209.3	**Length:**	6	**Dimension:**	NQ	**Claim No.:**	163531	**Company:**	IAMGOLD
Dip:	-69.3	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Chenier
Length:	184.5	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Andrew Shea
Started:	01-Dec-16	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	yes
Completed:	03-Dec-16	**Left in hole:**	no	**Logged by:**	Andrew Shea	**Zone:**	17	**Surveyed by:**	Larry Labelle
Logged:	07-Dec-16	**Making water:**	no	**Relog by:**	Stephen Roach	**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: North Shear

Comment: Designed to test the down-dip extension of the North Shear Zone in the area where a channel returned 15.35 g/t Au over 3.51 meters

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	435856.77	**East:**	435856.77	**East:**	0
North:	5268092.3	**North:**	5268092.3	**North:**	0
Elev.:	395.96	**Elev.:**	395.96	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
109.00	213.00	-68.60				55203	M	☑	
112.00	213.00	-68.60				55226	M	☑	
115.00	213.50	-68.60				55603	M	☑	
118.00	212.70	-68.60				55058	M	☑	
121.00	213.10	-68.60				55373	M	☑	
124.00	212.90	-68.50				55075	M	☑	
127.00	214.00	-68.10				55240	M	☑	
130.00	213.30	-68.50				55392	M	☑	
133.00	216.40	-68.40				55259	M	☑	
136.00	213.30	-68.50				55410	M	☑	
139.00	213.10	-68.50				55036	M	☑	
142.00	213.30	-68.50				54835	M	☑	
145.00	216.10	-68.50				55320	M	☑	
148.00	212.70	-68.70				55239	M	☑	
151.00	213.30	-68.50				55200	M	☑	
154.00	213.70	-68.40				55137	M	☑	

DRILL HOLE REPORT

Hole Number: **WAT16-02** Project: **TAAC** Project Number: **251**

Drilling		Casing		Core		Location		Other	
Azimuth:	209.3	**Length:**	6	**Dimension:**	NQ	**Claim No.:**	163531	**Company:**	IAMGOLD
Dip:	-69.3	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Chenier
Length:	184.5	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Andrew Shea
Started:	01-Dec-16	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	yes
Completed:	03-Dec-16	**Left in hole:**	no	**Logged by:**	Andrew Shea	**Zone:**	17	**Surveyed by:**	Larry Labelle
Logged:	07-Dec-16	**Making water:**	no	**Relog by:**	Stephen Roach	**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: North Shear

Comment: Designed to test the down-dip extension of the North Shear Zone in the area where a channel returned 15.35 g/t Au over 3.51 meters

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	435856.77	**East:**	435856.77	**East:**	0
North:	5268092.3	**North:**	5268092.3	**North:**	0
Elev.:	395.96	**Elev.:**	395.96	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
157.00	213.00	-67.90				55292	M	☑	
160.00	210.80	-68.30				55405	M	☑	
163.00	213.90	-68.20				55108	M	☑	
166.00	213.10	-68.20				54964	M	☑	
169.00	215.90	-68.10				54349	M	☑	
172.00	213.80	-68.00				55053	M	☑	
175.00	214.30	-68.00				54975	M	☑	
178.00	219.20	-66.00				55007	M	☑	
181.00	213.90	-67.90				54951	M	☑	
184.00	213.50	-67.90				54907	M	☑	

LITHOLOGY REPORT
- Detailed -

Hole Number: **WAT16-02** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
0.00	4.85	**Overburden** **OB** ***Overburden***	4	3	BR									
		Overburden - clay												
4.85	10.00	**Fresh Rock** **8C** ***Carbonate-Altered Tonalite/Trondjhemit***	1	1	GG	289301	7.00	8.00	1.00	0	-	0.01	-	-
						289302	8.00	9.00	1.00	0	-	0.01	-	-
						289303	9.00	10.00	1.00	0	-	0.02	-	-

Carbonate-Altered Tonalite/Trondjhemite - medium grained, grey-green, massive to moderately foliated, pervasive chlorite alteration, patchy carbonate-chlorite alteration, 5% to 10% disseminated white leucoxene with localized sericite and silica alteration. Regular cm width quartz-carbonate veinlets, occurring around 5% over the interval.

Mineralization - disseminated pyrite mineralization occurring <1%
Contact - gradational

Alteration Maj:	*Type/Style/Intensity*	*Comment*
4.85 - 10.00	LX DISS 3	Leucoxene, Disseminated, Moderate 5% to 10%
4.85 - 10.00	CB MTV 4	Carbonatization, Marginal to veins, Strong
4.85 - 10.00	CL PV 3	Chloritization, Pervasive, Moderate

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
4.85 - 10.00	Py CLS 1	Pyrite, clusters/aggregates, <1%

LITHOLOGY REPORT
- Detailed -

Hole Number: **WAT16-02** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
10.00	13.90	**Fresh Rock** **SH** ***Sericite-Chlorite Shear/Shear Zone***	1	1	GG

Sericite-Chlorite Shear/Shear Zone - dirty grayish-green color with local bleached sections, altered felsic to intermediate in composition with moderate-strongly sheared tonalite, dark grey, relatively fine grained, folded in intervals, pervasive moderate to strong sericite and moderate chlorite; strongly sheared 40 to 45 from C.A.; about 5% qcs.

Mineralization - occasional py < 1%
Contact - gradational

Alteration Maj:	***Type/Style/Intensity***	***Comment***
10.00 - 13.90	CL PV 3	Chloritization, Pervasive, Moderate
10.00 - 13.90	SR PV 4	Sericitization, Pervasive, Strong
Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
10.00 - 13.90	Cpy CLS 1	Chalcopyrite, clusters/aggregates, <0.5%
10.00 - 13.90	Py CLS 1	Pyrite, clusters/aggregates, 1%
Structure Maj.:	***Inte/Type/Core Angle***	***Comment***
10.00 - 13.90	MS SHRD 30	Sheared, 30° CA

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
289304	10.00	11.00	1.00	0	-	0.01	-	-
289305	11.00	12.00	1.00	0	-	0.01	-	-
289306	12.00	13.00	1.00	0	-	0.01	-	-
289307	13.00	14.00	1.00	0	-	0.01	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
13.90	17.40	**Fresh Rock** **8C** ***Tonalite/Trondjhemite***	1	1	GG

Carbonate Altered Tonalite/Trondjhemite - similar to section from 4.85 to 10.0 with….

1) strong pervasive cb and moderate chl

Mineralization - overall up to 1% pyrite with local increase in pyrite (3% to 5%) from 17.0 to 17.4
Contact - gradational contact

Alteration Maj:	***Type/Style/Intensity***	***Comment***
13.90 - 17.40	LX DISS 3	Leucoxene, Disseminated, Moderate 5% to 10%
13.90 - 17.40	CL PV 3	Chloritization, Pervasive, Moderate
13.90 - 17.40	CB SPT 3	Carbonatization, Spotty/Patchy, Moderate
Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
289308	14.00	15.00	1.00	0	-	0.02	-	-
289309	15.00	16.00	1.00	0	-	0.01	-	-
289310	16.00	17.00	1.00	0	-	0.03	-	-

Hole Number: **WAT16-02** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		17.10 - 17.40 Py DIS 3 Pyrite, Disseminated, 3% to 5%												
17.40	19.00	**Fresh Rock** **SH** ***Chlorite-Carbonate Altered Shear/Shear***	1	1	GY	289311	17.00	18.00	1.00	2	-	1.71	-	-
						289313	18.00	19.00	1.00	0	-	0.19	-	-

Chlorite-Carbonate Altered Shear/Shear Zone (Altered Gabbro) - dark gray color, strong pervasive chl-cb sh controlled, vfg to fg and strongly sheared 35 to 40 from C.A., locally folded features, 5% to 10% qcs

Mineralization - averages 2% to 3% py with <1% to 5% py with 5% to local 10% to 15% vfg disseminated pyrite from 17.0 to 18.1, < 1% cpy
Contact - gradational

Alteration Maj:	***Type/Style/Intensity***	***Comment***
17.40 - 19.00	CB PV 3	Carbonatization, Pervasive, Moderate
17.40 - 19.00	CL PV 3	Chloritization, Pervasive, Moderate

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
17.40 - 19.00	Cpy BLB 1	Chalcopyrite, Blebs, <1%
17.40 - 19.00	Po BLB 1	Pyrrhotite, Blebs, 1%
17.40 - 19.00	Py BLB 1	Pyrite, Blebs, 1%

19.00	22.00	**Fresh Rock** **QTCSW** ***Quartz-(Carbonate) Stockwork***	1	1	GY	289314	19.00	20.00	1.00	0	-	0.37	-	-
						289315	20.00	21.00	1.00	1	-	0.53	-	-
						289316	21.00	22.00	1.00	0	-	0.20	-	-

Quartz-(Carbonate) Stockwork - dark grey, moderate to strong shearing with folding in intervals, 20-30% quartz - carbonate veining throughout interval up to 4cm., three (3) generations of qcs with two xcutting qcs parallel to sh, folded and contorted with sh 30 to 45 from C.A.

Mineralization - <1% to 5% vfg to fg patchy/clustered pyrite mineralization as wallrock and vein hosted disseminations
Contact - gradational

Hole Number: **WAT16-02** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		19.00 - 22.00 CL PV 3 Chloritization, Pervasive, Moderate												
		19.00 - 22.00 CB MTV 4 Carbonatization, Marginal to veins, Strong												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		19.00 - 22.00 Py CLS 3.5 Pyrite, clusters/aggregates, 3.5% (<1% to 5%)												
		Structure Maj.: ***Inte/Type/Core Angle*** ***Comment***												
		19.00 - 22.00 MS FLD 75 Folded, 75° CA												
		19.00 - 22.00 MS SHRZN 35 Shear Zone, 35° CA												
		Vein Maj. : ***Style/%vein/CoreA/%min/min*** ***Comment***												
		19.00 - 22.00 30 35 30 QICV Quartz Iron-Carbonate Vein, 30%, 35° CA												
22.00	23.76	**Fresh Rock** **SH** ***Shear/Shear Zone***	1	1	GY	289317	22.00	23.00	1.00	0	-	0.40	-	-
		Chlorite-Carbonate Altered Shear Zone (Altered Gabbro) - dark grey, strong sh controlled chl and intense cb, moderate to strongly sheared 25 to 30 from C.A., quartz + carbonate veining occurring 5-10% up to 9 cm in width.				289318	23.00	23.83	0.83	0	-	0.01	-	-
		Mineralization - 2% to 3% fg/mg patchy/clustered pyrite with po fractures and bnds up to 1% to 3%												
		Contact - gradational												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		22.00 - 23.76 CB MTV 5 Carbonatization, Marginal to veins, Intense												
		22.00 - 23.76 CL PV 4 Chloritization, Pervasive, Strong												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		22.00 - 23.76 Py BLB 1 Pyrite, Blebs, <1%												
		22.00 - 23.76 Po BNDS 2 Pyrrhotite, Bands, 2% to 3%												
		Structure Maj.: ***Inte/Type/Core Angle*** ***Comment***												
		22.00 - 23.76 SHRD 30 Sheared, 30° CA												

LITHOLOGY REPORT
- Detailed -

Hole Number: **WAT16-02** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
23.76	30.05	**Fresh Rock** **14B** ***Fine-grained Diabase dykes***	1	1	GREBL	289368	23.83	24.66	0.83	-	-	-	-	-
		Diabase - dark grey, fine grained, moderately magnetic, uct at 40 deg tca, lct at approx 45-50 irreg				289369	29.00	30.05	1.05	-	-	-	-	-
		Structure Maj.: ***Inte/Type/Core Angle*** ***Comment***												
		23.76 - 30.05 DYK 40 Dyke, 40° CA												
30.05	31.20	**Fresh Rock** **QTCSW** ***Quartz-(Carbonate) Stockwork***	1	1	GY	289319	30.05	31.00	0.95	0	-	0.03	-	-
		Quartz-(Carbonate) Stockwork- dark grey, strong intense cb and moderate chl, moderately sheared and strongly fractured with 30% quartz - carbonate veining, generally cm width veinlet throughout stockwork interval, along shear planes 50 from C.A. and appearing folded in intervals.												
		Mineralization ocassional pyrite < 1% Contact - gradational contact												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		30.05 - 31.20 CL PV 3 Chloritization, Pervasive, Moderate												
		30.05 - 31.20 CB MTV 5 Carbonatization, Marginal to veins, Intense												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		30.05 - 31.20 Py BLB 1 Pyrite, Blebs, 1%												
		Structure Maj.: ***Inte/Type/Core Angle*** ***Comment***												
		30.05 - 31.20 M SHRD 35 Sheared, 35° CA												

LITHOLOGY REPORT
- Detailed -

Hole Number: **WAT16-02** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
31.20	36.30	**Fresh Rock** **SH** ***Chlorite-Carbonate Shear/Shear Zone***	1	1	GG

Chlorite-Carbonate Altered Shear Zone (local QTCSW) - grayish-green to dark grey, fg, moderate-strongly sheared ~30 deg tca, pervasive strong cb and moderate chlorite and carbonate alteration, uo to 35% Quartz-Carbonate veining locally (refer to minor unit).

Mineralization - averages up to 1% to 2% disseminated and patchy py with increased py (2% to 3%) towards lower contact
Contact - gradational

Alteration Maj:	***Type/Style/Intensity***	***Comment***
31.20 - 36.30	CB MTV 3	Carbonatization, Marginal to veins, Moderate
31.20 - 36.30	CL PV 4	Chloritization, Pervasive, Strong

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
31.20 - 36.30	Py CLS 1	Pyrite, clusters/aggregates, 1% to 2% with 2% to 3% towards lower contact

Structure Maj.:	***Inte/Type/Core Angle***	***Comment***
31.20 - 36.30	MS SHRD 35	Sheared, 35° CA

Vein Maj. :	***Style/%vein/CoreA/%min/min***	***Comment***
31.20 - 36.30	FPV 15 35 2 QCPV	Quartz Carb Pyrite Vein, 2%, 35° CA

Minor Interval:

35.30	36.30	Fresh Rock QTCSW *Quartz-(Carbonate) Stockwork*		1	

Quartz-(Carbonate) Stockwork - lighter gray color with increased sil associated with 25% to 35% qcs along with chl-cb altered wallrock

36.30	40.40	**Fresh Rock** **8C** ***SilicifiedTonalite/Trondjhemite***	1	1	GY

SilicifiedTonalite/Trondjhemite - gray color, altered felsic to intermediate composition with moderate to strong pervasive sil and moderate ser-chl, increase in mod to strong cb from 39.6 to 40.4, moderately sh 40 from C.A. with 2% qtz-chl stringers and qcs.

Mineralization - 3% disseminated pyrite
Contact - gradational

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
289320	31.00	32.00	1.00	0	-	0.05	-	-
289321	32.00	33.00	1.00	0	-	0.05	-	-
289322	33.00	34.00	1.00	0	-	0.04	-	-
289323	34.00	35.00	1.00	0	-	0.09	-	-
289325	35.00	36.00	1.00	0	-	0.11	-	-
289326	36.00	37.00	1.00	0	-	0.29	-	-
289327	37.00	38.00	1.00	2	-	1.55	-	-
289328	38.00	39.00	1.00	0	-	0.26	-	-
289329	39.00	40.00	1.00	0	-	0.16	-	-

Hole Number: **WAT16-02** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Alteration Maj:	***Type/Style/Intensity***	***Comment***										
		36.30 - 39.60	SI PV 3	Silicification, Pervasive, Moderate to strong at depth										
		39.60 - 40.40	SI PV 3	Silicification, Pervasive, Moderate to strong										
		39.60 - 40.40	CB PV 3	Carbonatization, Pervasive, Moderate to strong										
		Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***										
		36.30 - 40.40	Py DIS 3	Pyrite, Disseminated, 3%										
40.40	42.00	**Fresh Rock** **QTS** ***Quartz Stockwork***			1 1 GY	289330	40.00	41.00	1.00	1	-	1.50	-	-
		Quartz Stockwork - light gray to gray color, altered felsic to intermediate composition with mod ser>sil and strong cb along shears, strongly sheared 35 to 40 from C.A. and 15% to 20% qs parallel to sh with stringers/veinlets up to 4 cm wide				289331	41.00	42.00	1.00	0	-	0.10	-	-
		Mineralization - up to 1% py-(aspy) Contact - gradational												
		Alteration Maj:	***Type/Style/Intensity***	***Comment***										
		40.40 - 42.00	CB SP 4	Carbonatization, Along Shear Planes, Strong										
		40.40 - 42.00	SI MTV 3	Silicification, Marginal to veins, Moderate										
		40.40 - 42.00	SR MTV 3	Sericitization, Marginal to veins, Moderate										
		Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***										
		40.40 - 42.00	Aspy BLB 1	Arsenopyrite, Blebs, <1%										
		40.40 - 42.00	Py DIS 1	Pyrite, Disseminated, up to1%										

LITHOLOGY REPORT
- Detailed -

Hole Number: **WAT16-02** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
42.00	72.10	**Fresh Rock** **SH** ***Ankerite-Carbonate Shear/Shear Zone***	1	1	GY

Ankerite-Carbonate Shear/Shear Zone - light grey, strongly sheared ~25 deg tca with 30 to 50 from C.A. (local 40 to 56 from C.A.) and folded in intervals, strong ankerite and weak chlorite alteration, localized sericite MTV, 5% quartz carbonate veining.

Mineralization - 2-3% pyrite and minor chalcopyrite mineralization, clustered/patchy and disseminated, no VG Speck @ 66.5m (no Au assay support)
Cpntact - gradationally less sheared

Alteration Maj:	***Type/Style/Intensity***	***Comment***
42.00 - 72.10	CB SP 2	Carbonatization, Along Shear Planes, Weak
42.00 - 72.10	CL SP 2	Chloritization, Along Shear Planes, Weak
42.00 - 72.10	AK PV 4	Ankerite, Pervasive, Strong

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
42.00 - 66.50	Cpy SHR 1	Chalcopyrite, Shear hosted, <1%
42.00 - 66.50	Py SHR 1	Pyrite, Shear hosted, 1%
42.00 - 66.50	Py DIS 1	Pyrite, Disseminated, 1%
66.50 - 66.55	Au SHR 1	Native Gold, Shear hosted, 1Speck (assays do not verify VG)
66.55 - 72.10	Cpy FOL 1	Chalcopyrite, Along foliation, <1%
66.55 - 72.10	Py FOL 1	Pyrite, Along foliation, 1%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
289332	42.00	43.00	1.00	0	-	0.06	-	-
289333	43.00	44.00	1.00	0	-	0.05	-	-
289334	44.00	45.00	1.00	0	-	0.11	-	-
289335	45.00	46.00	1.00	0	-	0.07	-	-
289337	46.00	47.00	1.00	0	-	0.03	-	-
289338	47.00	48.00	1.00	0	-	0.02	-	-
289339	48.00	49.00	1.00	0	-	0.01	-	-
289340	49.00	50.00	1.00	0	-	0.01	-	-
289341	50.00	51.00	1.00	0	-	0.02	-	-
289342	51.00	52.00	1.00	0	-	0.01	-	-
289343	52.00	53.00	1.00	0	-	0.01	-	-
289344	53.00	54.00	1.00	0	-	0.01	-	-
289345	54.00	55.00	1.00	0	-	0.02	-	-
289346	55.00	56.00	1.00	0	-	0.01	-	-
289347	56.00	57.00	1.00	0	-	0.01	-	-
289349	57.00	58.00	1.00	0	-	0.01	-	-
289350	58.00	59.00	1.00	0	-	0.01	-	-
289351	59.00	60.00	1.00	0	-	0.01	-	-
289352	60.00	61.00	1.00	0	-	0.01	-	-
289353	61.00	62.00	1.00	0	-	0.14	-	-
289354	62.00	63.00	1.00	0	-	0.02	-	-
289355	63.00	64.00	1.00	0	-	0.02	-	-
289356	64.00	65.00	1.00	0	-	0.01	-	-
289357	65.00	66.00	1.00	0	-	0.01	-	-
289358	66.00	66.50	0.50	0	-	0.01	-	-
289359	66.50	67.00	0.50	0	-	0.01	-	-
289361	67.00	68.00	1.00	0	-	0.01	-	-

Hole Number: **WAT16-02** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
						289362	68.00	69.00	1.00	0	-	0.01	-	-
						289363	69.00	70.00	1.00	0	-	0.01	-	-
						289364	70.00	71.00	1.00	0	-	0.01	-	-
						289365	71.00	72.10	1.10	0	-	0.01	-	-
72.10	86.32	**Fresh Rock** **7B** ***Diorite/Gabbro***	1	1	GG	289366	72.10	73.00	0.90	0	-	0.01	-	-
		Diorite/Gabbro - Dark grey to green, massive, medium grained, with pervasive chlorite alteration, weak carbonate marginal to veins, trace pyrite mineralization				289367	73.00	74.00	1.00	0	-	0.01	-	-
						289370	74.00	75.00	1.00	0	-	0.01	-	-
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***				289371	75.00	76.00	1.00	0	-	0.01	-	-
		72.10 - 86.32 Py DIS 0.5 Pyrite, Disseminated, 0.5%				289373	84.00	85.00	1.00	0	-	0.01	-	-
		Vein Maj. : ***Style/%vein/CoreA/%min/min*** ***Comment***												
		72.10 - 86.32 VN 2 45 2 QICV Quartz Iron-Carbonate Vein, 2%, 45° CA												
86.32	139.00	**Fresh Rock** **8C** ***Tonalite/Trondjhemite Breccia***	1	1	GY	289374	88.00	89.00	1.00	0	-	0.01	-	-
		Tonalite/Trondjhemite Breccia - light grey medium grained to coarse grained tonalite with fine grained diorite clasts, clasts appearing finer grained, dark grey-green and chloritic. Dominant alterations within the tonalite are chlorite, epidote and lesser hematite. Dominant alterations within the diorite are chlorite, lesser epidote and carbonate mtv. Intermittent veining, quartz - carbonate and quartz - chlorite.				289375	89.00	90.00	1.00	0	-	0.01	-	-
		86.32-87.5 cg light grey tonalite interval				289376	90.00	91.00	1.00	0	-	0.01	-	-
		87.5-91 finer grained dark green diorite interval with minor tonalite dikes				289377	93.00	94.00	1.00	0	-	0.01	-	-
		91-101.5 Alternating Tonalite and Diorite intervals, strong chlorite alteration				289378	99.00	100.00	1.00	0	-	0.01	-	-
		101.5-110 Dominantly tonalite, mg-cg with varying alteration intervals, appearing cg and light grey to fg and strongly chlorite altered, diss py in intervals				289379	103.00	104.00	1.00	0	-	0.01	-	-
		110-117 cg tonalite dominant with fg diorite clast intervals generally 10-20cm widths				289380	107.00	108.00	1.00	0	-	0.01	-	-
		117-123 fg diorite clast dominant breccia interval				289381	111.00	112.00	1.00	0	-	0.01	-	-
		123-126m 50/50 cg tonalite to fg diorite clasts				289382	114.00	115.00	1.00	0	-	0.01	-	-
		126-132 fg-mg diorite dominant with lesser tonalite				289383	117.00	118.00	1.00	0	-	0.01	-	-
		132-139 tonalite dominant with lesser diorite clasts				289385	124.00	125.00	1.00	0	-	0.01	-	-
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***				289386	131.50	132.50	1.00	0	-	0.01	-	-

From (m)	To (m)		Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		86.32 - 139.00	HM SPT 2	Hematization, Spotty/Patchy, Weak			289387	133.00	134.00	1.00	0	-	0.01	-	-
		86.32 - 139.00	EP SPT 3	Epidotization, Spotty/Patchy, Moderate			289388	136.00	137.00	1.00	0	-	0.01	-	-
		86.32 - 139.00	CB MTV 2	Carbonatization, Marginal to veins, Weak											
		86.32 - 139.00	CL PV 3	Chloritization, Pervasive, Moderate											
		Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***											
		86.32 - 139.00	Py VN 0.5	Pyrite, Vein-controlled, 0.5%											
		86.32 - 139.00	Py DIS 0.5	Pyrite, Disseminated, 0.5%											
		Vein Maj. :	***Style/%vein/CoreA/%min/min***	***Comment***											
		86.32 - 139.00	VN 1 45 1 CBV	Carbonate Vein, 1%											
		86.32 - 139.00	VN 1 45 1 QV	Quartz Vein, 1%											
		86.32 - 139.00	VN 1 45 1 QCHLV	Quartz-Chlorite Vein, 1%, 45° CA											
139.00	184.50	**Fresh Rock**	**8E**	***Quartz Diorite-Diorite (Gabbro?)***	1	1 GG	289389	141.00	142.00	1.00	0	-	0.01	-	-
		Quartz Diorite-Diorite (Gabbro?) - dark grey to green, generally medium grained, massive, with pervasive chlorite and localized epidote alteration, intermittent quartz veining with accessory chlorite and carbonate and lesser biotite.					289390	145.00	146.00	1.00	0	-	0.01	-	-
							289391	146.00	147.00	1.00	0	-	0.01	-	-
		Alteration Maj:	***Type/Style/Intensity***	***Comment***			289392	147.00	148.00	1.00	0	-	0.01	-	-
		139.00 - 142.57	EP SPT 3	Epidotization, Spotty/Patchy, Moderate			289393	151.00	152.00	1.00	0	-	0.01	-	-
		139.00 - 142.57	CB MTV 3	Carbonatization, Marginal to veins, Moderate			289394	152.00	153.00	1.00	0	-	0.01	-	-
		139.00 - 142.57	CL PV 3	Chloritization, Pervasive, Moderate			289395	153.00	154.00	1.00	0	-	0.01	-	-
		142.57 - 184.50	EP SPT 4	Epidotization, Spotty/Patchy, Strong			289397	154.00	155.00	1.00	0	-	0.01	-	-
		142.57 - 184.50	CB MTV 3	Carbonatization, Marginal to veins, Moderate			289398	155.50	156.50	1.00	0	-	0.01	-	-
		142.57 - 184.50	CL PV 3	Chloritization, Pervasive, Moderate			289399	159.00	160.10	1.10	0	-	0.01	-	-
		Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***			289400	160.10	161.00	0.90	0	-	0.01	-	-
		139.00 - 184.50	Py VN 0.5	Pyrite, Vein-controlled, 0.5%			289401	165.00	166.00	1.00	0	-	0.01	-	-

LITHOLOGY REPORT
- Detailed -

Hole Number: **WAT16-02** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour

Vein Maj. :	Style/%vein/CoreA/%min/min			Comment
139.00 - 184.50	1	0.25	QBV	Quartz-Biotite Vein, 0.25%
139.00 - 184.50	1	1	CBV	Carbonate Vein, 1%
139.00 - 184.50	1	1	QCHLV	Quartz-Chlorite Vein, 1%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
289402	166.00	167.02	1.02	0	-	0.01	-	-
289403	169.00	170.00	1.00	0	-	0.01	-	-
289404	172.00	173.00	1.00	0	-	0.01	-	-
289405	178.00	179.00	1.00	0	-	0.04	-	-
289406	179.00	180.00	1.00	0	-	0.01	-	-
289407	180.00	181.00	1.00	0	-	0.01	-	-
289408	181.00	182.00	1.00	0	-	0.01	-	-

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number: **WAT16-02** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Length (m)	Sample #	Comments
	0.00			
7.00	8.00	1.00	289301	alt + py min tnlt
8.00	9.00	1.00	289302	alt and shearing in tnlt w/ py min
9.00	10.00	1.00	289303	alt + veining w/ py min
10.00	11.00	1.00	289304	inc veining
11.00	12.00	1.00	289305	inc veining and alt
12.00	13.00	1.00	289306	inc veining and alt
13.00	14.00	1.00	289307	inc alt intensity
14.00	15.00	1.00	289308	inc qtz vnlts
15.00	16.00	1.00	289309	mnr qtz stringers
16.00	17.00	1.00	289310	inc shearing and py min
17.00	18.00	1.00	289311	inc pyrite mineralization moving into hybrid shear
18.00	19.00	1.00	289313	sheared gabbro w/ inc carb alt
19.00	20.00	1.00	289314	concentrated carb veining
20.00	21.00	1.00	289315	concentrated carb veining
21.00	22.00	1.00	289316	concentrated carb veining
22.00	23.00	1.00	289317	Qtz +_carb veining
23.00	23.83	0.83	289318	sheared gabbro w/ py min
23.83	24.66	0.83	239368	Wing sample requested by Stephen in Diabase
29.00	30.05	1.05	239369	Wing Sample requested by stephen in diabase
30.05	31.00	0.95	289319	stockwork zone
31.00	32.00	1.00	289320	inc QV
32.00	33.00	1.00	289321	inc veining
33.00	34.00	1.00	289322	cls py min
34.00	35.00	1.00	289323	cls py min
35.00	36.00	1.00	289325	inc qv and cls py min

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number: **WAT16-02** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Length (m)	Sample #	Comments
36.00	37.00	1.00	289326	cls py min
37.00	38.00	1.00	289327	cls py min
38.00	39.00	1.00	289328	cls py min
39.00	40.00	1.00	289329	qtz carb veining
40.00	41.00	1.00	289330	inc ankerite alt
41.00	42.00	1.00	289331	inc ankerite alt
42.00	43.00	1.00	289332	qtz vnlts
43.00	44.00	1.00	289333	inc ankerite alt
44.00	45.00	1.00	289334	inc ankerite alt
45.00	46.00	1.00	289335	inc ankerite alt
46.00	47.00	1.00	289337	inc ankerite alt
47.00	48.00	1.00	289338	inc ankerite alt
48.00	49.00	1.00	289339	inc ankerite alt
49.00	50.00	1.00	289340	inc ankerite alt
50.00	51.00	1.00	289341	inc ankerite alt
51.00	52.00	1.00	289342	inc ankerite alt
52.00	53.00	1.00	289343	inc ankerite alt
53.00	54.00	1.00	289344	inc ankerite alt
54.00	55.00	1.00	289345	inc ankerite alt
55.00	56.00	1.00	289346	5% QV
56.00	57.00	1.00	289347	
57.00	58.00	1.00	289349	mnr qv
58.00	59.00	1.00	289350	mnr qv
59.00	60.00	1.00	289351	10% QV
60.00	61.00	1.00	289352	Mnr qtz vnlts
61.00	62.00	1.00	289353	Inc ser alt

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number: **WAT16-02** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Length (m)	Sample #	Comments
62.00	63.00	1.00	289354	Inc ser alt and QV
63.00	64.00	1.00	289355	Inc ser alt and qv + cls py
64.00	65.00	1.00	289356	cls py min
65.00	66.00	1.00	289357	mod carb alt
66.00	66.50	0.50	289358	mod carb alt
66.50	67.00	0.50	289359	mod carb alt and VG speck
67.00	68.00	1.00	289361	mod carb alt
68.00	69.00	1.00	289362	mod carb alt
69.00	70.00	1.00	289363	inc qv
70.00	71.00	1.00	289364	tensional qcv
71.00	72.10	1.10	289365	tensional qcv
72.10	73.00	0.90	289366	tensional qcv
73.00	74.00	1.00	289367	qtz carb vnlt
74.00	75.00	1.00	289370	qtz carb vnlt
75.00	76.00	1.00	289371	Qtz carb vnlt
84.00	85.00	1.00	289373	qtz carb veining
88.00	89.00	1.00	289374	qtz carb veining
89.00	90.00	1.00	289375	qtz carb veining
90.00	91.00	1.00	289376	qtz carb veining
93.00	94.00	1.00	289377	Inc altn + qtz carb stringers
99.00	100.00	1.00	289378	Inc qtz-Carb+Chl veining
103.00	104.00	1.00	289379	Inc Qtz-Carb-Chl Veining
107.00	108.00	1.00	289380	Inc altn and mnr vnlts
111.00	112.00	1.00	289381	Qv and inc ep alt
114.00	115.00	1.00	289382	qtz-carb vnlts
117.00	118.00	1.00	289383	qtz-chl veins

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number: **WAT16-02** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Length (m)	Sample #	Comments
124.00	125.00	1.00	289385	mnr qtz vnlts and hem alt
131.50	132.50	1.00	289386	larger wv in interval
133.00	134.00	1.00	289387	qtz-carb vnlts
136.00	137.00	1.00	289388	qtz-carb veinlets
141.00	142.00	1.00	289389	inc qtz veining
145.00	146.00	1.00	289390	Inc qtz cb vnlts
146.00	147.00	1.00	289391	inc qtz cb vnlts
147.00	148.00	1.00	289392	inc qtz cb alt and chl alt
151.00	152.00	1.00	289393	inc qtz carb vns
152.00	153.00	1.00	289394	inc qtz carb vnlts
153.00	154.00	1.00	289395	inc qtz carb vnlts and strong ep alt
154.00	155.00	1.00	289397	qtz chl veining
155.50	156.50	1.00	289398	irreg qtz vn with py min
159.00	160.10	1.10	289399	inc qtz veining with cls py min
160.10	161.00	0.90	289400	inc qtz-chl veining
165.00	166.00	1.00	289401	inc qtz carb and qtz chl veining
166.00	167.02	1.02	289402	inc qtz veining
169.00	170.00	1.00	289403	qtz chl vnlts
172.00	173.00	1.00	289404	qtz - chl vein
178.00	179.00	1.00	289405	qtz carb vnlts
179.00	180.00	1.00	289406	qtz carb vnlts
180.00	181.00	1.00	289407	qtz vnlts
181.00	182.00	1.00	289408	qtz carb vnlts

DRILL HOLE REPORT

Hole Number: **WAT16-03** Project: **TAAC** Project Number: **251**

Drilling		Casing		Core		Location		Other	
Azimuth:	22.4	**Length:**	0	**Dimension:**	NQ	**Claim No.:**	157524	**Company:**	IAMGOLD
Dip:	-42.6	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Chenier
Length:	250.5	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Joycelyn Smith
Started:	04-Dec-16	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	yes
Completed:	11-Dec-16	**Left in hole:**	no	**Logged by:**	Joycelyn Smith	**Zone:**	17	**Surveyed by:**	Larry Labelle
Logged:	10-Dec-16	**Making water:**	no	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: Southeast strike and down-plunge extension of South Shear and IP chargeability zone

Comment:

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	436106.49	**East:**	436106.49	**East:**	0
North:	5267715.65	**North:**	5267715.65	**North:**	0
Elev.:	404.55	**Elev.:**	404.55	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
0.00	22.40	-42.60				55902	C	☑	
3.00	22.50	-42.60				55915	M	☑	
6.00	19.80	-42.60				56410	M	☑	
9.00	19.20	-42.60				55737	M	☑	
12.00	19.70	-42.60				55196	M	☑	
15.00	20.40	-42.70				55244	M	☑	
18.00	19.80	-42.60				55184	M	☑	
21.00	19.60	-42.70				55213	M	☑	
24.00	22.10	-42.70				55554	M	☑	
27.00	22.00	-42.70				55720	M	☑	
30.00	23.10	-42.80				55201	M	☑	
33.00	22.20	-42.80				55092	M	☑	
36.00	19.30	-42.80				55373	M	☑	
39.00	19.10	-43.50				56071	M	☑	
42.00	20.30	-42.90				55400	M	☑	

DRILL HOLE REPORT

Hole Number: **WAT16-03** Project: **TAAC** Project Number: **251**

Drilling		Casing		Core		Location		Other	
Azimuth:	22.4	**Length:**	0	**Dimension:**	NQ	**Claim No.:**	157524	**Company:**	IAMGOLD
Dip:	-42.6	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Chenier
Length:	250.5	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Joycelyn Smith
Started:	04-Dec-16	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	yes
Completed:	11-Dec-16	**Left in hole:**	no	**Logged by:**	Joycelyn Smith	**Zone:**	17	**Surveyed by:**	Larry Labelle
Logged:	10-Dec-16	**Making water:**	no	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: Southeast strike and down-plunge extension of South Shear and IP chargeability zone

Comment:

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	436106.49	**East:**	436106.49	**East:**	0
North:	5267715.65	**North:**	5267715.65	**North:**	0
Elev.:	404.55	**Elev.:**	404.55	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
45.00	19.50	-43.00				55236	M	☑	
48.00	22.30	-42.90				56440	M	☑	
57.00	19.90	-43.20				56227	M	☑	
60.00	20.70	-43.20				56248	M	☑	
66.00	18.10	-43.30				55643	M	☑	
69.00	18.30	-43.40				55383	M	☑	
72.00	18.30	-43.40				55288	M	☑	
75.00	18.20	-43.40				55222	M	☑	
78.00	18.40	-43.30				55241	M	☑	
81.00	18.40	-43.50				55230	M	☑	
84.00	18.40	-43.40				55212	M	☑	
87.00	17.90	-43.40				55157	M	☑	
93.00	19.90	-43.50				56389	M	☑	
96.00	19.10	-43.60				56869	M	☑	
99.00	19.80	-43.60				56586	M	☑	

DRILL HOLE REPORT

Hole Number: **WAT16-03** Project: **TAAC** Project Number: **251**

Drilling

Azimuth:	22.4
Dip:	-42.6
Length:	250.5
Started:	04-Dec-16
Completed:	11-Dec-16
Logged:	10-Dec-16
Township:	CHESTER

Casing

Length:	0
Pulled:	no
Capped:	yes
Cemented:	no
Left in hole:	no
Making water:	no
Plugged:	no

Core

Dimension:	NQ
Diam Chang:	no
Storage:	Klondike Lodge
Hole Type	DDH
Logged by:	Joycelyn Smith
Relog by:	

Location

Claim No.:	157524
NTS:	41-P/12
Hole:	SURFACE
Section:	
Zone:	17
NAD:	NAD83

Other

Company:	IAMGOLD
Contractor:	Chenier
Spotted by:	Joycelyn Smith
Surveyed:	yes
Surveyed by:	Larry Labelle
Multi shot su	yes

Target: Southeast strike and down-plunge extension of South Shear and IP chargeability zone

Comment:

Coordinate - Gemcom

East:	436106.49
North:	5267715.65
Elev.:	404.55

Coordinate - UTM

East:	436106.49
North:	5267715.65
Elev.:	404.55

Coordinate - Local

East:	0
North:	0
Elev.:	0

Deviation Tests

Density Tests

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
#####	18.90	-43.60				54878	M	☑	
#####	18.40	-43.70				54624	M	☑	
#####	18.50	-43.80				55118	M	☑	
#####	20.00	-44.70				55171	M	☑	
#####	18.10	-43.90				55178	M	☑	
#####	20.80	-45.10				55196	M	☑	
#####	17.80	-44.10				55207	M	☑	
#####	19.80	-44.10				54595	M	☑	
#####	18.80	-44.10				55025	M	☑	
#####	18.90	-44.20				55116	M	☑	
#####	18.40	-44.30				55112	M	☑	
#####	18.40	-44.30				55133	M	☑	
#####	18.50	-44.40				55135	M	☑	
#####	18.60	-44.60				55129	M	☑	
#####	18.50	-44.70				55133	M	☑	

DRILL HOLE REPORT

Hole Number: **WAT16-03** Project: **TAAC** Project Number: **251**

Drilling		Casing		Core		Location		Other	
Azimuth:	22.4	**Length:**	0	**Dimension:**	NQ	**Claim No.:**	157524	**Company:**	IAMGOLD
Dip:	-42.6	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Chenier
Length:	250.5	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Joycelyn Smith
Started:	04-Dec-16	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	yes
Completed:	11-Dec-16	**Left in hole:**	no	**Logged by:**	Joycelyn Smith	**Zone:**	17	**Surveyed by:**	Larry Labelle
Logged:	10-Dec-16	**Making water:**	no	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: Southeast strike and down-plunge extension of South Shear and IP chargeability zone

Comment:

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	436106.49	**East:**	436106.49	**East:**	0
North:	5267715.65	**North:**	5267715.65	**North:**	0
Elev.:	404.55	**Elev.:**	404.55	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
#####	18.60	-44.50				55125	M	☑	
#####	18.40	-44.70				55111	M	☑	
#####	18.40	-44.70				55103	M	☑	
#####	18.50	-44.80				55107	M	☑	
#####	18.40	-44.90				55104	M	☑	
#####	18.40	-44.90				55102	M	☑	
#####	18.10	-44.70				55106	M	☑	
#####	16.30	-43.80				55112	M	☑	
#####	18.80	-45.10				55147	M	☑	
#####	18.00	-44.80				55227	M	☑	
#####	17.80	-44.80				55644	M	☑	
#####	17.80	-44.90				55124	M	☑	
#####	17.60	-44.90				55081	M	☑	
#####	17.80	-45.00				55090	M	☑	
#####	17.60	-44.90				55099	M	☑	

DRILL HOLE REPORT

Hole Number: **WAT16-03** Project: **TAAC** Project Number: **251**

Drilling		Casing		Core		Location		Other	
Azimuth:	22.4	**Length:**	0	**Dimension:**	NQ	**Claim No.:**	157524	**Company:**	IAMGOLD
Dip:	-42.6	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Chenier
Length:	250.5	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Joycelyn Smith
Started:	04-Dec-16	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	yes
Completed:	11-Dec-16	**Left in hole:**	no	**Logged by:**	Joycelyn Smith	**Zone:**	17	**Surveyed by:**	Larry Labelle
Logged:	10-Dec-16	**Making water:**	no	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: Southeast strike and down-plunge extension of South Shear and IP chargeability zone

Comment:

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	436106.49	**East:**	436106.49	**East:**	0
North:	5267715.65	**North:**	5267715.65	**North:**	0
Elev.:	404.55	**Elev.:**	404.55	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
#####	16.00	-44.40				55109	M	☑	
#####	17.80	-45.10				55118	M	☑	
#####	19.80	-46.20				55142	M	☑	
#####	17.10	-45.50				55129	M	☑	
#####	17.50	-45.30				55142	M	☑	
#####	17.40	-45.30				55121	M	☑	
#####	17.20	-45.40				55117	M	☑	
#####	17.50	-45.50				55166	M	☑	
#####	17.50	-45.70				55292	M	☑	
#####	17.50	-45.60				55335	M	☑	
#####	17.40	-45.60				55299	M	☑	
#####	17.00	-45.60				55336	M	☑	
#####	16.90	-45.60				55425	M	☑	
#####	16.70	-46.20				55526	M	☑	
#####	15.90	-45.60				55913	M	☑	

DRILL HOLE REPORT

Hole Number: **WAT16-03** Project: **TAAC** Project Number: **251**

Drilling		Casing		Core		Location		Other	
Azimuth:	22.4	**Length:**	0	**Dimension:**	NQ	**Claim No.:**	157524	**Company:**	IAMGOLD
Dip:	-42.6	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Chenier
Length:	250.5	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Joycelyn Smith
Started:	04-Dec-16	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	yes
Completed:	11-Dec-16	**Left in hole:**	no	**Logged by:**	Joycelyn Smith	**Zone:**	17	**Surveyed by:**	Larry Labelle
Logged:	10-Dec-16	**Making water:**	no	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: Southeast strike and down-plunge extension of South Shear and IP chargeability zone

Comment:

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	436106.49	**East:**	436106.49	**East:**	0
North:	5267715.65	**North:**	5267715.65	**North:**	0
Elev.:	404.55	**Elev.:**	404.55	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
#####	15.60	-45.70				56252	M	☑	

LITHOLOGY REPORT
- Detailed -

Hole Number: **WAT16-03** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
0.00	1.36	**OB** ***Overburden***												
1.36	3.70	**8C** ***Tonalite/Trondjhemite Breccia***			DGR									
		medium-grained tonalite (composition close to quartz-diorite) brecciating a fine-grained diorite with minor porphyrytic feldspar grains (10% of rock). Weak patchy epidote alteration of feldspar grains. Pervasive chlorite alteration and along fractures. Diseminated pyrite throughout accounting up to 0.5% of rock. Tonalite is quartz-flooded with very weak spotty hematite staining.												
3.70	5.60	**14B** ***Fine-grained Diabase dykes***			BLK									
		dark grey to black fine-grained strongly magnetitc diabase with <1% porphyritic epidote altered coarse-grained feldpar.												
5.60	7.20	**7B** ***Diorite - Quartz Diorite***			DGR	287905	5.60	7.00	1.40	0	-	0.01	-	-
		medium- to fine-grained diorite, pervasive chlorite alteration, hematite weak along fractures, carbonate												

Hole Number: **WAT16-03** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		alteration surrounding fracture. Pyrite associated with carbonate filled fracrures, accounting for 0.3%.												
7.20	8.06	**14B** ***Fine-grained Diabase dykes***			BLK	287906	7.20	8.60	1.40	0	-	0.01	-	-
		dark grey to black fine-grained strongly magnetitc diabase, fg pyrite thoughout.												
8.06	10.72	**8C** ***Tonalite/Trondjhemite Breccia***			DGR	287907	10.00	10.72	0.72	0	-	0.02	-	-
		medium-grained tonalite (approaching quartz-diorite in composition) breccing a medium- to fine-grained diorite with porphyrytic feldspar grains (1mm in size). Tonalite is quartz-flooded in areas and has spotty chl alteration throughout with patchy weak hematite alteration. Fragments of diorite are diffuse and subangular. Patchy carbonate alteration of fragments.												

Alteration Maj:	*Type/Style/Intensity*	*Comment*
8.06 - 10.72	HM FRC 1	Hematization, Along Fractures, Very weak
8.06 - 10.72	CL MX 3	Chloritization, Matrix, Moderate
8.06 - 10.72	CL FRG 5	Chloritization, Fragments, Intense
8.06 - 10.72	SI MX 2	Silicification, Matrix, Weak

Vein Maj. :	*Style/%vein/CoreA/%min/min*	*Comment*
8.06 - 10.72	FACV 2 10 HMV	Hematite Vein, 10%

Hole Number: **WAT16-03** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		8.06 - 10.72 FACV 2 90 QCV Quartz-Calcite Vein, 90%												
10.72	11.71	**7C** ***Gabbro***			DGR	287908	10.72	11.71	0.99	0	-	0.01	-	-
		Fine-grained green chlorite altered (gabbro?) with porphyritic feldspar grains of 1mm, hematite along fractures.												
11.71	14.78	**8C** ***Tonalite/Trondjhemite Breccia***			DGR	287909	14.00	14.78	0.78	0	-	0.01	-	-
		medium-grained tonalite (quartz-flooded, spotty chlorite, spotty weak epidote and spotty weak hematite) brecciating a medium-grained diorite with pervasive chlorite with spotty epidote and patchy carbonate alteration. Minor fg diseminated pyrite seemingly associate with the tonalite. Quartz-carb-hematite fracture-filled veins accounting for less than 1%.												

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Hole Number: **WAT16-03** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
14.78	25.17	**7B** ***Diorite - Quartz Diorite***			DGR	287910	14.78	16.00	1.22	0	-	0.01	-	-
		fine- to medium-grained diorite with pervasive chorite alteration. Patches that are less chlorite altered allow for medium grain size to be visible. Carbonate alteration associated with whispy veining and along fractures. Weak argillic alteration along some fractures. Epidote alteration of feldspar weak throughout. 14.78-16.6m appears to be a finergrained intrusions with 1mm porphyritic feldspar phenocrysts.				287911	16.00	17.15	1.15	0	-	0.01	-	-
						287913	17.15	18.00	0.85	0	-	0.01	-	-
						287914	18.00	19.00	1.00	0	-	0.01	-	-
						287915	19.00	20.00	1.00	0	-	0.01	-	-
						287916	20.00	21.00	1.00	0	-	0.01	-	-
						287917	21.00	22.00	1.00	0	-	0.01	-	-
						287918	22.00	23.00	1.00	0	-	0.01	-	-
25.17	26.14	**14B** ***Fine-grained Diabase dykes***			BLK									
		fine-grained moderate to strongly magnetic diabase dike. Very weak carbonate along fractures.												
26.14	28.67	**7B** ***Diorite - Quartz Diorite***			DGR	287919	26.14	27.00	0.86	0	-	0.01	-	-
		medum-grained quartz-diorite with variable chlroite alteration. Epidote alteration of feldspar grains in areas where chlorite aleration is less strong. Moderate carbonate alteration at upper contact with diabase dike. Fine-grained dis pyrite throughout.				287920	27.00	28.00	1.00	0	-	0.01	-	-

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Hole Number: **WAT16-03** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
28.67	30.40	**14B** ***Fine-grained Diabase dykes***			BLK

black to dark grey fine-grained diabse dike with minor dis pyrite throughout.

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
30.40	47.00	**SH** ***Shear/Shear Zone***			DGR

dark grey prevasively altered rock, lithology difficult to determine. Quartz-grains visible occasionally through the intense alteration, however percentage is difficult to determine. Unit is very wearkly deformed with <5% quartz-carbonate veining occuring throughout. Pyrite mineralization is disseminated and localized around veining.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
30.40 - 34.00	SI SPT 2	Silicification, Spotty/Patchy, Weak
30.40 - 34.00	SR PV 2	Sericitization, Pervasive, Weak
30.40 - 34.00	LX SPT 2	Leucoxene, Spotty/Patchy, Weak
30.40 - 34.00	CL PV 5	Chloritization, Pervasive, Intense
34.00 - 47.00	CB SPT 2	Carbonatization, Spotty/Patchy, Weak
34.00 - 47.00	SI SPT 1	Silicification, Spotty/Patchy, Very weak
34.00 - 47.00	LX SPT 1	Leucoxene, Spotty/Patchy, Very weak
34.00 - 47.00	CL PV 5	Chloritization, Pervasive, Intense

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
30.40 - 34.00	Py DIS 0.2	Pyrite, Disseminated, 0.2%
34.00 - 35.00	Py DIS 0.7	Pyrite, Disseminated, 0.7%
35.00 - 38.00	Py DIS 0.2	Pyrite, Disseminated, 0.2%
38.00 - 39.00	Py DIS 1	Pyrite, Disseminated, 1%
39.00 - 47.00	Py DIS 0.2	Pyrite, Disseminated, 0.2%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
287921	30.75	32.00	1.25	0	-	0.01	-	-
287922	32.00	33.00	1.00	0	-	0.01	-	-
287923	33.00	34.00	1.00	0	-	0.01	-	-
287925	34.00	34.84	0.84	0	-	0.01	-	-
287926	34.84	36.00	1.16	0	-	0.01	-	-
287927	36.00	37.00	1.00	0	-	0.01	-	-
287928	37.00	38.00	1.00	0	-	0.01	-	-
287929	38.00	39.00	1.00	0	-	0.01	-	-
287930	39.00	40.00	1.00	0	-	0.01	-	-
287931	40.00	41.00	1.00	0	-	0.01	-	-
287932	41.00	42.00	1.00	0	-	0.01	-	-
287933	42.00	43.00	1.00	0	-	0.01	-	-
287934	43.00	44.00	1.00	0	-	0.01	-	-
287935	44.00	45.00	1.00	0	-	0.01	-	-
287937	45.00	46.00	1.00	0	-	0.01	-	-
287938	46.00	47.00	1.00	0	-	0.01	-	-

Hole Number: **WAT16-03** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Structure Maj.: ***Inte/Type/Core Angle*** ***Comment***												
		30.40 - 47.00 W FOL Foliated												
		45.20 - 45.50 S BC Broken Core												
		46.00 - 46.70 W BC Broken Core												
		Vein Maj. : ***Style/%vein/CoreA/%min/min*** ***Comment***												
		30.40 - 47.00 STG 4 100 CBV Carbonate Vein, 100%												
47.00	52.00	**8C** ***Tonalite/Trondjhemite Breccia***			DGR	287939	47.00	48.00	1.00	0	-	0.01	-	-
		tonalite breccia with intense overprint of chlorite (patchy), moderately deformed. Patchy epidote alteration of feldspar grains. Quartz-carbonate veining along foliation. Patchy carbonate alteration.				287940	50.00	51.00	1.00	0	-	0.01	-	-
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		47.00 - 52.00 SI SPT 1 Silicification, Spotty/Patchy, Very weak												
		47.00 - 52.00 EP SPT 3 Epidotization, Spotty/Patchy, Moderate												
		47.00 - 52.00 CB SPT 3 Carbonatization, Spotty/Patchy, Moderate												
		47.00 - 52.00 CL FP 4 Chloritization, Along Foliation Planes, Strong												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		47.00 - 52.00 Py DIS 0.1 Pyrite, Disseminated, 0.1%												
		Structure Maj.: ***Inte/Type/Core Angle*** ***Comment***												
		47.00 - 52.00 M FOL Foliated												
		Vein Maj. : ***Style/%vein/CoreA/%min/min*** ***Comment***												
		47.00 - 52.00 FPV 4 100 QCV Quartz-Calcite Vein, 100%												

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Hole Number: **WAT16-03** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
52.00	57.38	**SH** ***Shear/Shear Zone***			DGR

dark green pervasively chlorite altered shear. Rock type difficult to determine due to alteration, however appears to be continuation of tonalite breccia. Quartz-carbonate veining associated with pyrite mineralization (dis pyrite increases surrounding veins)

Alteration Maj:	*Type/Style/Intensity*	*Comment*
52.00 - 57.38	EP AC 1	Epidotization, Alteration of carbonate, Very weak
52.00 - 57.38	CB FRC 3	Carbonatization, Along Fractures, Moderate
52.00 - 57.38	CL PV 5	Chloritization, Pervasive, Intense

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
52.00 - 53.00	Py VN 1	Pyrite, Vein-controlled, 1%
53.00 - 57.38	Py DIS 0.5	Pyrite, Disseminated, 0.5%

Structure Maj.:	*Inte/Type/Core Angle*	*Comment*
52.00 - 57.38	M SHRD	Sheared
52.00 - 57.38	M FOL	Foliated

Vein Maj. :	*Style/%vein/CoreA/%min/min*	*Comment*
52.00 - 53.00	VN 15 2 PY	Pyrite, 2%
52.00 - 53.00	VN 15 98 QCV	Quartz-Calcite Vein, 98%
53.00 - 57.38	VN 5 100 QCV	Quartz-Calcite Vein, 100%

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
57.38	63.95	**8C** ***Tonalite/Trondjhemite Breccia***			DGR

medium-grained quartz-flooded tonalite brecciating medium- to fine-grained diorite that is pervasively chlorite altered. Diffuse to sharp perimeters, subangular fragments. Weak epidote alteration of feldpar grains. Fg dis pyrite.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
57.38 - 63.95	SI MX 3	Silicification, Matrix, Moderate
57.38 - 63.95	CB FRC 2	Carbonatization, Along Fractures, Weak
57.38 - 63.95	CL PV 4	Chloritization, Pervasive, Strong
57.38 - 63.95	EP AFG 2	Epidotization, Alteration of feldspar grains, Weak

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
287941	52.00	53.00	1.00	0	-	0.01	-	-
287942	53.00	54.00	1.00	0	-	0.01	-	-
287943	54.00	55.00	1.00	0	-	0.01	-	-
287944	56.00	57.00	1.00	0	-	0.01	-	-
287945	63.00	63.95	0.95	0	-	0.01	-	-

Hole Number: **WAT16-03** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		57.38 - 63.95 Py DIS 0.3 Pyrite, Disseminated, 0.3%												
		Vein Maj. : ***Style/%vein/CoreA/%min/min*** ***Comment***												
		57.38 - 63.95 VNLT 2 100 QCV Quartz-Calcite Vein, 100%												
63.95	65.56	**SH** ***Shear/Shear Zone***			DGR	287946	64.00	65.00	1.00	0	-	0.01	-	-
		dark green chloritic altered shear zone. Carb alteration along foliation. Quartz-carbonate veinlets with pyrite mineralization disseminated proximal to the veins.				287947	65.00	65.56	0.56	0	-	0.01	-	-
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		63.95 - 65.56 CB PV 4 Carbonatization, Pervasive, Strong												
		63.95 - 65.56 CL PV 5 Chloritization, Pervasive, Intense												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		63.95 - 65.56 Py DIS 0.3 Pyrite, Disseminated, 0.3%												
		63.95 - 65.56 Po DIS 0.1 Pyrrhotite, Disseminated, 0.1%												
65.56	69.36	**8C** ***Tonalite/Trondjhemite Breccia***			DGR	287949	68.00	69.36	1.36	0	-	0.01	-	-
		medium-grained quartz-flooded tonalite sharp to diffusely brecciating medium-grained strongly chlorite altered dioirte. Fragments are subangular to subrounded. Epidote alters feldpar grains pervasively and is strong is some small patches, carbonate along fractures. Pyrite and po diseminated thoughout as well as in clusters. Very weakly magnetic due to presence of pyrrhotite.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		65.56 - 68.40 EP AC 3 Epidotization, Alteration of carbonate, Moderate												
		65.56 - 68.40 EP AFG 2 Epidotization, Alteration of feldspar grains, Weak												

Hole Number: **WAT16-03** Project: **TAAC** Project Number: **251**

From (m)	To (m)		Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		65.56 - 68.40	SI MX 2	Silicification, Matrix, Weak											
		65.56 - 68.40	CL PV 3	Chloritization, Pervasive, Moderate											
		68.40 - 69.36	SR MTV 3	Sericitization, Marginal to veins, Moderate											
		68.40 - 69.36	CB SPT 2	Carbonatization, Spotty/Patchy, Weak											
		68.40 - 69.36	CL PV 3	Chloritization, Pervasive, Moderate											
		68.40 - 69.36	SI PV 4	Silicification, Pervasive, Strong											
		Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***											
		65.56 - 69.36	Py DIS 0.3	Pyrite, Disseminated, 0.3%											
		65.56 - 69.36	Py CLS 0.2	Pyrite, clusters/aggregates, 0.2%											
		65.56 - 69.36	Po DIS 0.3	Pyrrhotite, Disseminated, 0.3%											
69.36	71.30		**14B** ***Fine-grained Diabase dykes***			BLK									
		black strongly magnetitc diabase dike. Very minor carbonate veining (less than 0.5%).													
		Vein Maj. :	***Style/%vein/CoreA/%min/min***	***Comment***											
		69.36 - 71.30	STG 0.1 100 QCV	Quartz-Calcite Vein, 100%											

Hole Number: **WAT16-03** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
71.30	80.80	**8C** ***Tonalite/Trondjhemite Breccia***			DGR

medium-grained quartz-flooded 'tonalite' (composition quartz diorite in areas, dioritic texture throughout). Various intervals have sharp angular fragments while others have diffuse sub-angular fragment margins. Veining occurs with massive pyrrhotite from 72.57-73.37m and varries from ~45 degrees to ca to approaching 0 and is irregular.

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
287950	71.30	72.70	1.40	0	-	0.01	-	-
287951	72.70	74.00	1.30	0	-	0.01	-	-
287952	76.00	77.00	1.00	0	-	0.01	-	-
287953	80.00	80.80	0.80	0	-	0.01	-	-

Alteration Maj:	Type/Style/Intensity	Comment
71.30 - 75.50	SI MX 2	Silicification, Matrix, Weak
71.30 - 75.50	EP AC 2	Epidotization, Alteration of carbonate, Weak
71.30 - 75.50	EP AFG 1	Epidotization, Alteration of feldspar grains, Very weak
71.30 - 75.50	CL PV 3	Chloritization, Pervasive, Moderate
75.50 - 77.00	SI MX 2	Silicification, Matrix, Weak
75.50 - 77.00	CB FRC 2	Carbonatization, Along Fractures, Weak
75.50 - 77.00	CL PV 5	Chloritization, Pervasive, Intense
77.00 - 80.80	CB SPT 1	Carbonatization, Spotty/Patchy, Very weak
77.00 - 80.80	EP AFG 1	Epidotization, Alteration of feldspar grains, Very weak
77.00 - 80.80	SI MX 2	Silicification, Matrix, Weak
77.00 - 80.80	CL PV 4	Chloritization, Pervasive, Strong

Mineralization Maj. :	Type/Style/%Mineral	Comment
71.30 - 72.00	Po VN 10	Pyrrhotite, Vein-controlled, 10%
71.30 - 72.00	Cpy VN 1	Chalcopyrite, Vein-controlled, 1%
72.00 - 80.00	Py DIS 0.3	Pyrite, Disseminated, 0.3%
80.00 - 80.80	Py VN 0.8	Pyrite, Vein-controlled, 0.8%

Vein Maj. :	Style/%vein/CoreA/%min/min	Comment
71.30 - 73.00	VN 20 20 SPHV	Sulphide Vein, 20%
71.30 - 73.00	VN 20 80 QCV	Quartz-Calcite Vein, 80%
73.00 - 80.80	VNLT 1 100 QCV	Quartz-Calcite Vein, 100%

LITHOLOGY REPORT
- Detailed -

Hole Number: **WAT16-03** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
Minor Interval:														
72.60	73.40	Fresh Rock QV *Quartz-Sulphide Vein*		1										
		Quartz-Sulphide Vein - white color; quartz-(carbonate) composition with semi-massive coarse splashes 20% to 30% pyrrhotite+chalcopyrite+pyrite mineralization in fractured quartz veinlet/wallrock; approximately 80% vn and 20% wallrock												
80.80	81.60	**7C** ***Gabbro***			GR									
		fine-grained mafic dike with a lower contact close to down dip of the hole creating an extensive contact close to the core axis. Minor quartz=carb veining along the contact. Very minor fg dis py.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		80.80 - 81.60 CB MTC 4 Carbonatization, Marginal to contacts, Strong												
		80.80 - 81.60 CL PV 5 Chloritization, Pervasive, Intense												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		80.80 - 81.60 Py DIS 0.1 Pyrite, Disseminated, 0.1%												
81.60	95.50	**7B** ***Diorite - Quartz Diorite Breccia***			DGR	287954	81.60	83.00	1.40	0	-	0.01	-	-
		minor diking along the core axis (making up to 30% of the rock until 82.7m). Medium-grained diorite to quartz-diorite with diffuse subangular chlorite altered diorite fragments. Epidote alteration of feldpar grains. Dis py and po throughout.				287955	83.00	84.00	1.00	0	-	0.01	-	-
						287956	92.00	93.00	1.00	0	-	0.01	-	-
						287957	93.00	94.00	1.00	0	-	0.01	-	-
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		81.60 - 95.50 CB FRC 2 Carbonatization, Along Fractures, Weak												
		81.60 - 95.50 EP AFG 1 Epidotization, Alteration of feldspar grains, Very weak												
		81.60 - 95.50 SI MX 1 Silicification, Matrix, Very weak												
		81.60 - 95.50 CL PV 4 Chloritization, Pervasive, Strong												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		81.60 - 95.50 Py DIS 0.2 Pyrite, Disseminated, 0.2%												

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		81.60 - 95.50 Po DIS 0.3 Pyrrhotite, Disseminated, 0.3%												
		Vein Maj. : ***Style/%vein/CoreA/%min/min*** ***Comment***												
		81.60 - 83.00 CTV 12 100 QCV Quartz-Calcite Vein, 100%												
		83.00 - 95.50 VN 2 100 QCV Quartz-Calcite Vein, 100%												
95.50	99.00	**8C** ***Tonalite/Trondjhemite Breccia***			DGR									
		grading from previous diorite to tonalite matrix in composition. Medium-grained tonalite with pervasive quartz-flooding and spotty chl alteration brecciating medium to fine-grained diorite pervasively chlorite altered. Chlorite alteration along fractures. Some fractures filled with chlorite carbonate and hematite. patchy epidote alteration in preferential bands (presumably altering carbonate). Minor disseminated py and po.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		95.50 - 99.00 CL PV 3 Chloritization, Pervasive, Moderate												
		95.50 - 99.00 CB FRC 3 Carbonatization, Along Fractures, Moderate												
		95.50 - 99.00 CL FRC 3 Chloritization, Along Fractures, Moderate												
		95.50 - 99.00 HM FRC 2 Hematization, Along Fractures, Weak												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		95.50 - 99.00 Py DIS 0.1 Pyrite, Disseminated, 0.1%												
		95.50 - 99.00 Po DIS 0.1 Pyrrhotite, Disseminated, 0.1%												
		Vein Maj. : ***Style/%vein/CoreA/%min/min*** ***Comment***												
		95.50 - 99.00 VNLT 2 100 QCV Quartz-Calcite Vein, 100%												
99.00	106.60	**7B** ***Diorite - Quartz Diorite***			DGR	287958	102.00	103.00	1.00	0	-	0.01	-	-
		medium-grained diroite with patchy veining throughout ranging from moderately oblique to approaching 0 degrees to core axis. Pervasive chlorite throughout. Carb and hematite associate with veining. Py and cpy mineralization in vein. From 104-106.6m there is evidence of the beginning of in situ brecciation with very												

Hole Number: **WAT16-03** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)

diffuse thing patches of tonalite, not enough to label as a breccia.

Alteration Maj:	Type/Style/Intensity	Comment
99.00 - 106.60	HM SPT 1	Hematization, Spotty/Patchy, Very weak
99.00 - 106.60	EP SPT 1	Epidotization, Spotty/Patchy, Very weak
99.00 - 106.60	CB MTV 2	Carbonatization, Marginal to veins, Weak
99.00 - 106.60	CL PV 4	Chloritization, Pervasive, Strong

Mineralization Maj. :	Type/Style/%Mineral	Comment
99.00 - 106.60	Py DIS 0.1	Pyrite, Disseminated, 0.1%
102.00 - 104.00	Py VN 1	Pyrite, Vein-controlled, 1%
102.00 - 104.00	Cpy VN 0.2	Chalcopyrite, Vein-controlled, 0.2%
104.00 - 106.60	Py DIS 0.1	Pyrite, Disseminated, 0.1%

Structure Maj.:	Inte/Type/Core Angle	Comment
104.00 - 106.60	W BX	Brecciated

Vein Maj. :	Style/%vein/CoreA/%min/min	Comment
99.00 - 102.00	VN 2.5 100 QCV	Quartz-Calcite Vein, 100%
102.00 - 104.00	VN 20 1 CPY	Chalcopyrite, 1%
102.00 - 104.00	VN 20 2 PY	Pyrite, 2%
102.00 - 104.00	VN 20 2 HMV	Hematite Vein, 2%
102.00 - 104.00	VN 20 95 QCV	Quartz-Calcite Vein, 95%
104.00 - 106.60	FACV 0.5 100 QCV	Quartz-Calcite Vein, 100%

Hole Number: **WAT16-03** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
106.60	122.69	**8C** ***Tonalite/Trondjhemite Breccia***			DGR

dark green medium-grained pervasively chlorite altered diorite brecciated by a beige to pink pervasively silicified and weakly hematite altered tonalite. In areas brecciation is strong with sharp contacts and 1cm to 15cm subangular fragments, in other areas brecciation is weak and in situ with sharp to diffuse 10cm to 50cm sized intervals of diorite. Minor disseminated pyrite. Carbonate flooding occuring from 108.22-108.6. Porphyritic diorite intrusion from 120.12-120.35m.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
106.60 - 108.00	EP AFG 1	Epidotization, Alteration of feldspar grains, Very weak
106.60 - 108.00	CL MX 2	Chloritization, Matrix, Weak
106.60 - 108.00	HM MX 2	Hematization, Matrix, Weak
106.60 - 108.00	CL FRG 3	Chloritization, Fragments, Moderate
108.00 - 110.00	CL PV 4	Chloritization, Pervasive, Strong
108.00 - 110.00	CB MX 3	Carbonatization, Matrix, Moderate
108.00 - 110.00	EP AFG 2	Epidotization, Alteration of feldspar grains, Weak
110.00 - 115.00	CB FRC 1	Carbonatization, Along Fractures, Very weak
110.00 - 115.00	CL PV 3	Chloritization, Pervasive, Moderate
110.00 - 115.00	EP AFG 1	Epidotization, Alteration of feldspar grains, Very weak
110.00 - 115.00	HM MX 2	Hematization, Matrix, Weak
115.00 - 121.00	CL PV 4	Chloritization, Pervasive, Strong
115.00 - 121.00	SI MX 3	Silicification, Matrix, Moderate
115.00 - 121.00	HM MX 1	Hematization, Matrix, Very weak
115.00 - 121.00	EP AC 1	Epidotization, Alteration of carbonate, Very weak
121.00 - 122.69	EP AFG 1	Epidotization, Alteration of feldspar grains, Very weak
121.00 - 122.69	CL PV 3	Chloritization, Pervasive, Moderate
121.00 - 122.69	SI MX 4	Silicification, Matrix, Strong
121.00 - 122.69	HM MX 3	Hematization, Matrix, Moderate

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
287959	107.00	108.00	1.00	0	-	0.01	-	-
287961	108.00	109.00	1.00	0	-	0.01	-	-
287962	109.00	110.00	1.00	0	-	0.01	-	-
287963	112.00	113.00	1.00	0	-	0.01	-	-
287964	115.00	116.00	1.00	0	-	0.01	-	-
287965	118.00	119.00	1.00	0	-	0.01	-	-
287966	119.00	120.00	1.00	0	-	0.01	-	-
287967	121.00	122.00	1.00	0	-	0.01	-	-
287968	122.00	122.69	0.69	0	-	0.01	-	-

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)

Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***

106.60 - 118.00	Py DIS 0.1	Pyrite, Disseminated, 0.1%
118.00 - 119.00	Py DIS 0.5	Pyrite, Disseminated, 0.5%
119.00 - 122.69	Py DIS 0.2	Pyrite, Disseminated, 0.2%

Vein Maj. : ***Style/%vein/CoreA/%min/min*** ***Comment***

106.60 - 108.22	FL 1 100 QCV	Quartz-Calcite Vein, 100%
108.22 - 108.60	FL 75 100 QCV	Quartz-Calcite Vein, 100%
108.60 - 122.69	VN 2 100 QCV	Quartz-Calcite Vein, 100%

Minor Interval:

120.12 120.35 IFP *Feldspar Porphyry*

porphyritic diorite dike strongly chlorite altered with sharp contact to the medium-grained diorite of the tonalite breccia.

Alteration Min: ***Type/Style/Intensity*** ***Comment***

120.12 - 120.35	CL PV 4	Chloritization, Pervasive, Strong

122.69 127.35 **14B** ***Fine-grained Diabase dykes*** BLK

black fine-grained, strongly magnetitc diabase dike with porphyritic coarse-grained feldspar that are epidote altered.

Alteration Maj: ***Type/Style/Intensity*** ***Comment***

122.69 - 127.35	EP AFG 4	Epidotization, Alteration of feldspar grains, Strong

Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***

122.69 - 127.35	Py FAC 0.1	Pyrite, Fracture-controlled, 0.1%

Hole Number: **WAT16-03** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
127.35	134.50	**8C** ***Tonalite/Trondjhemite Breccia***			GR

medium-grained tonalite (in areas approaching quartz-diorite in composition) brecciating a medium to fine-grained pervasively chlorite altered diorite with diffuse contacts. Pervasively chlorite altered, spotty epidote alteration, spotty hemattie alteration, patchy carb.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
127.35 - 134.50	CB FRC 2	Carbonatization, Along Fractures, Weak
127.35 - 134.50	CL PV 3	Chloritization, Pervasive, Moderate
127.35 - 134.50	EP SPT 3	Epidotization, Spotty/Patchy, Moderate
127.35 - 134.50	EP AFG 1	Epidotization, Alteration of feldspar grains, Very weak

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
127.35 - 134.50	Py DIS 0.1	Pyrite, Disseminated, 0.1%

Vein Maj. :	*Style/%vein/CoreA/%min/min*	*Comment*
127.35 - 134.50	VNLT 0.5 100 QCV	Quartz-Calcite Vein, 100%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
287969	127.35	128.00	0.65	0	-	0.01	-	-
287970	133.00	134.50	1.50	0	-	0.01	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
134.50	150.22	**8C** ***Tonalite/Trondjhemite***			GRYBL

medium-grained tonalite with pervasive chlorite sericite and silica alteration until 139.40m. Carbonate alteration along fractures. Patchy epidote alteration of carbonate. Spotty very weak hematite alteration. Two short intervals of tonalite breccia where mafic fragments are present.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
134.50 - 139.40	SI PV 2	Silicification, Pervasive, Weak
134.50 - 139.40	CB PV 3	Carbonatization, Pervasive, Moderate
134.50 - 139.40	CL PV 4	Chloritization, Pervasive, Strong
134.50 - 139.40	SR PV 2	Sericitization, Pervasive, Weak
139.40 - 148.48	CL PV 2	Chloritization, Pervasive, Weak
139.40 - 148.48	CB BNDS 2	Carbonatization, Bands/Banded, Weak

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
287971	137.00	138.00	1.00	0	-	0.01	-	-
287973	138.00	139.00	1.00	0	-	0.01	-	-
287974	139.00	140.00	1.00	0	-	0.01	-	-
287975	140.00	141.00	1.00	0	-	0.01	-	-
287976	141.00	142.00	1.00	0	-	0.01	-	-
287977	142.00	143.00	1.00	0	-	0.01	-	-
287978	143.00	144.00	1.00	0	-	0.01	-	-
287979	144.00	145.39	1.39	0	-	0.01	-	-
287980	149.00	150.23	1.23	0	-	0.01	-	-

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		139.40 - 148.48 EP AC 3 Epidotization, Alteration of carbonate, Moderate												
		139.40 - 148.48 SI PV 2 Silicification, Pervasive, Weak												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		134.50 - 150.22 Py DIS 0.1 Pyrite, Disseminated, 0.1%												
		Vein Maj. : ***Style/%vein/CoreA/%min/min*** ***Comment***												
		134.50 - 150.22 FACV 0.5 100 QCV Quartz-Calcite Vein, 100%												
Minor Interval:														
146.72	146.77	IMDIA *Diabase*												
		black fine-grained diabase dike with fine fractures that have very fine grained pyrite mineralization.												
		Mineralization Min: ***Type/Style/%Mineral*** ***Comment***												
		146.72 - 146.77 Py FAC 0.3 Pyrite, Fracture-controlled, 0.3%												
Minor Interval:														
148.48	148.70	IITNLT BX *Tonalite Breccia*												
Minor Interval:														
149.63	150.22	IITNLT BX *Tonalite Breccia*												
150.22	159.35	**14B** ***Fine-grained Diabase dykes***			BLK									
		dark grey to black fine to medium-grained diabase with mega-crystic feldpar that is epidote altered. Moderate chlorite alteration, weak to moderate spotty carbonate alteration.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		150.22 - 159.35 CB SPT 3 Carbonatization, Spotty/Patchy, Moderate												
		150.22 - 159.35 SI AFG 2 Silicification, Alteration of feldspar grains, Weak												

Hole Number: **WAT16-03** Project: **TAAC** Project Number: **251**

From (m)	To (m)		Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		150.22 - 159.35	EP AFG 3			Epidotization, Alteration of feldspar grains, Moderate									
		Vein Maj. :	***Style/%vein/CoreA/%min/min***			***Comment***									
		150.22 - 159.35	VNLT 0.2 100 QCV			Quartz-Calcite Vein, 100%									
159.35	169.77	**8C**	***Tonalite/Trondjhemite***			GRGR	287981	159.35	160.00	0.65	0	-	0.01	-	-
		medium-grained tonalite with pervasive silicia and chlorite alteration. Chlorite is strongest along fractures. Minor quartz-carbonate veining in rock. Patchy epidote alteration of carbonate, veining cuts this alteration.					287982	160.00	161.00	1.00	0	-	0.01	-	-
		Alteration Maj:	***Type/Style/Intensity***			***Comment***	287983	161.00	162.00	1.00	0	-	0.01	-	-
		159.35 - 169.77	CB FRC 2			Carbonatization, Along Fractures, Weak	287985	162.00	163.00	1.00	0	-	0.01	-	-
		159.35 - 169.77	HM SPT 1			Hematization, Spotty/Patchy, Very weak	287986	163.00	164.00	1.00	0	-	0.01	-	-
		159.35 - 169.77	SI PV 2			Silicification, Pervasive, Weak	287987	164.00	165.00	1.00	0	-	0.01	-	-
		159.35 - 169.77	CL PV 3			Chloritization, Pervasive, Moderate	287988	167.00	168.00	1.00	0	-	0.01	-	-
		Mineralization Maj. :	***Type/Style/%Mineral***			***Comment***	287989	168.00	169.30	1.30	0	-	0.01	-	-
		159.35 - 169.77	Py DIS 0.1			Pyrite, Disseminated, 0.1%									
		Vein Maj. :	***Style/%vein/CoreA/%min/min***			***Comment***									
		159.35 - 169.77	FACV 0.5 100 QCV			Quartz-Calcite Vein, 100%									
		161.00 - 162.50	VN 15 100 QCV			Quartz-Calcite Vein, 100%									
		162.50 - 169.77	VNLT 1 100 QCV			Quartz-Calcite Vein, 100%									

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
169.77	172.76	**7C** ***Gabbro***			DGR	287990	169.77	171.00	1.23	0	-	0.01	-	-
						287991	171.00	171.63	0.63	0	-	0.01	-	-
						287992	171.63	172.18	0.55	0	-	0.01	-	-

dark green fine-grained gabbro with pervasive chlorite alteration and porphyritic 1mm sized feldpsar phenocrysts. Carbonate along healed fractures.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
169.77 - 172.76	SI PV 2	Silicification, Pervasive, Weak
169.77 - 172.76	EP FRC 1	Epidotization, Along Fractures, Very weak
169.77 - 172.76	CB FRC 1	Carbonatization, Along Fractures, Very weak
169.77 - 172.76	CL PV 3	Chloritization, Pervasive, Moderate

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
169.77 - 172.76	Py FAC 0.1	Pyrite, Fracture-controlled, 0.1%

Minor Interval:

171.63 172.18 IITNLT BX *Tonalite Breccia*

medium-grained strongly silicified and weakly hematite altered tonalite brecciating a medium-grained diorite with pervasive chlorite alteration.

Alteration Min:	*Type/Style/Intensity*	*Comment*
171.63 - 172.18	EP SPT 1	Epidotization, Spotty/Patchy, Very we
171.63 - 172.18	CL FRG 4	Chloritization, Fragments, Strong
171.63 - 172.18	SI MX 4	Silicification, Matrix, Strong
171.63 - 172.18	HM MX 2	Hematization, Matrix, Weak

172.76	179.57	**8C** ***Tonalite/Trondjhemite Breccia***			DGR	287993	178.12	179.57	1.45	0	-	0.01	-	-

medium-grained quartz-flooded tonalite with pervasive hematite alteration cross-cutting and brecciating medium-grained chlorite altered diorite with spotty epidote alteration (Very weak). Fragments varry from moderately to strongly diffuse and 1cm-50cm large.

Alteration Maj:	*Type/Style/Intensity*	*Comment*

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		172.76 - 175.40	HM SPT 1	Hematization, Spotty/Patchy, Very weak											
		172.76 - 175.40	EP SPT 1	Epidotization, Spotty/Patchy, Very weak											
		172.76 - 175.40	SI MX 2	Silicification, Matrix, Weak											
		172.76 - 175.40	CL PV 4	Chloritization, Pervasive, Strong											
		175.40 - 179.57	SI MX 3	Silicification, Matrix, Moderate											
		175.40 - 179.57	CB FRC 1	Carbonatization, Along Fractures, Very weak											
		175.40 - 179.57	EP SPT 1	Epidotization, Spotty/Patchy, Very weak											
		175.40 - 179.57	CL PV 3	Chloritization, Pervasive, Moderate											
		Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***											
		172.76 - 179.57	Py DIS 0.1	Pyrite, Disseminated, 0.1%											
		Vein Maj. :	***Style/%vein/CoreA/%min/min***	***Comment***											
		172.76 - 179.57	VNLT 0.5 100 QCV	Quartz-Calcite Vein, 100%											
179.57	180.65	**7C**	***Gabbro***			BLK	287994	179.57	180.65	1.08	0	-	0.01	-	-
		fine-grained gabbro (?) with 1mm sized feldspar phenocrysts, weakly magnetic. Pervasive chlorite alteration and carbonate along fractures. Epidote alteration at lower contact.													
		Alteration Maj:	***Type/Style/Intensity***	***Comment***											
		179.57 - 180.65	CB FRC 1	Carbonatization, Along Fractures, Very weak											
		179.57 - 180.65	EP FRC 3	Epidotization, Along Fractures, Moderate											
		179.57 - 180.65	CL PV 3	Chloritization, Pervasive, Moderate											

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180.65	181.70	**7B** ***Diorite - Quartz Diorite***			DGR	287995	180.65	182.00	1.35	0	-	0.01	-	-

fine- to medium-grained diorite with pervasive chlorite alteration and patchy grain size. Few small tonalite dikes cut the unit (1cm large) that are pervasively silicified and hematized.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
180.66 - 181.70	EP SPT 1	Epidotization, Spotty/Patchy, Very weak
180.66 - 181.70	CB FRC 2	Carbonatization, Along Fractures, Weak
180.66 - 181.70	HM MX 2	Hematization, Matrix, Weak
180.66 - 181.70	CL PV 3	Chloritization, Pervasive, Moderate

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
180.65 - 181.70	Py DIS 0.01	Pyrite, Disseminated, 0.01%

Vein Maj. :	*Style/%vein/CoreA/%min/min*	*Comment*
180.65 - 181.70	FACV 0.2 100 QCV	Quartz-Calcite Vein, 100%

181.70	182.67	**7C** ***Gabbro***				287997	182.00	183.00	1.00	0	-	0.01	-	-

Fine-grained chlorite altered gabbro with 1mm sized porphyritic grains. Hematite alteration along fractures that are filled with quartz-carbonate.

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
181.70 - 182.67	Py DIS 0.1	Pyrite, Disseminated, 0.1%

Vein Maj. :	*Style/%vein/CoreA/%min/min*	*Comment*
181.70 - 182.67	FACV 0.1 100 QCV	Quartz-Calcite Vein, 100%

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Hole Number: **WAT16-03** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
182.67	184.00	**7B** ***Diorite - Quartz Diorite***			DGR	287998	183.00	184.00	1.00	0	-	0.01	-	-

fine- to medium-grained diorite with pervasive chlorite alteration and patchy grain size. Few small tonalite dikes cut the unit (1cm large) that are pervasively silicified and hematized.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
182.67 - 182.70	AG PV 4	Argillic, Pervasive, Strong

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
182.67 - 184.00	Py DIS 0.1	Pyrite, Disseminated, 0.1%

Vein Maj. :	*Style/%vein/CoreA/%min/min*	*Comment*
182.67 - 184.00	FACV 0.1 100 QCV	Quartz-Calcite Vein, 100%

184.00 203.98 **14B** ***Fine-grained Diabase dykes*** BLK

fine-grained black strongly magnetic diabase with spotty very weak carbonate alteration. 1mm sized quartz-carb veinlets

Alteration Maj:	*Type/Style/Intensity*	*Comment*
184.00 - 203.98	EP SPT 2	Epidotization, Spotty/Patchy, Weak
184.00 - 203.98	CB SPT 1	Carbonatization, Spotty/Patchy, Very weak
184.00 - 203.98	CL PV 3	Chloritization, Pervasive, Moderate
184.00 - 203.98	HM FRC 1	Hematization, Along Fractures, Very weak

Structure Maj.:	*Inte/Type/Core Angle*	*Comment*
184.00 - 184.34	M BC	Broken Core
189.00 - 189.67	M BC	Broken Core
193.42 - 196.20	S BC	Broken Core
198.00 - 200.00	M BC	Broken Core
201.00 - 203.98	M BC	Broken Core

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)

Vein Maj. : ***Style/%vein/CoreA/%min/min*** ***Comment***

184.00 - 203.98 FACV 0.5 100 QCV Quartz-Calcite Vein, 100%

203.98 207.58 **8C** ***Tonalite/Trondjhemite Breccia*** PI 287999 206.15 207.58 1.43 0 - 0.01 - -

medium-grained quartz-flooded tonalite brecciating fine- to medium-grained chlorite altered diorite. Pervasive hematite alteration throughout tonalite. Spotty epidote alteration of feldspar (very weak). Diseminated pyrite throughout.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
203.98 - 207.58	SI PV 3	Silicification, Pervasive, Moderate
203.98 - 207.58	CL IS 2	Chloritization, Interstitial, Weak
203.98 - 207.58	EP SPT 2	Epidotization, Spotty/Patchy, Weak
203.98 - 207.58	HM SPT 3	Hematization, Spotty/Patchy, Moderate

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
203.98 - 207.58	Py DIS 0.3	Pyrite, Disseminated, 0.3%

207.58 218.18 **14B** ***Fine-grained Diabase dykes*** BLK

fine-grained strongly magnetic black diabase with carb alteration along fractures and minor veining. Epidote alteration of some carbonate stringers and few coarse-grained feldspar grains. Hematite alteration isolated to a few select quartz-carb fracture filling veins.

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
207.58 - 218.18	Py DIS 0.5	Pyrite, Disseminated, 0.5%

Vein Maj. : ***Style/%vein/CoreA/%min/min*** ***Comment***

207.58 - 208.60 VNLT 0.5 100 QCV Quartz-Calcite Vein, 100%

208.60 - 210.20 FACV 3 100 QCV Quartz-Calcite Vein, 100%

Hole Number: **WAT16-03** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		210.20 - 218.18 FACV 0.2 100 QCV Quartz-Calcite Vein, 100%												
218.18	219.92	**8C** ***Tonalite/Trondjhemite***			GY	288000	218.18	219.00	0.82	0	-	0.01	-	-
						287501	219.00	219.92	0.92	0	-	0.01	-	-

medium-grained dark grey tonalite with pervasive chlorite alteration and moderate foliation present throughout (drill orientation not available). Pervasive silicia and patchy hematite and carboante alteration. Small interval (219.16-219.94m) of oxide facies Fe-formation, strongly foliated and strongly magnetitc.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
218.18 - 219.92	CB FRC 2	Carbonatization, Along Fractures, Weak
218.18 - 219.92	HM SPT 1	Hematization, Spotty/Patchy, Very weak
218.18 - 219.92	HM FRC 3	Hematization, Along Fractures, Moderate
218.18 - 219.92	CL PV 4	Chloritization, Pervasive, Strong

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
218.18 - 219.92	Py DIS 0.1	Pyrite, Disseminated, 0.1%

Structure Maj.:	***Inte/Type/Core Angle***	***Comment***
218.18 - 219.92	M FOL	Foliated

Vein Maj. :	***Style/%vein/CoreA/%min/min***	***Comment***
218.18 - 219.92	FACV 0.2 100 QCV	Quartz-Calcite Vein, 100%

Minor Interval:

219.16 219.24

Fe-formation (oxides facies) with magnetite banding and epidote alteration of carbonate.

Alteration Min:	***Type/Style/Intensity***	***Comment***
219.16 - 219.24	EP AC 1	Epidotization, Alteration of carbonate,

219.92 222.00 **14B** ***Fine-grained Diabase dykes*** GY

fine-grained strongly magnetic diabase with porphyritic feldspar phenos (1mm) and euhedral biotite phenocrysts. Dike is brownish grey in appearance and cut by hematite-stained quartz-carb veins. Fine-grained diseminated pyrite throughout.

Hole Number: **WAT16-03** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		219.92 - 222.00 CB FRC 1 Carbonatization, Along Fractures, Very weak												
		219.92 - 222.00 HM MTV 1 Hematization, Marginal to veins, Very weak												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		219.92 - 222.00 Py DIS 0.5 Pyrite, Disseminated, 0.5%												
		Vein Maj. : ***Style/%vein/CoreA/%min/min*** ***Comment***												
		219.92 - 222.00 VNLT 0.5 10 HMV Hematite Vein, 10%												
		219.92 - 222.00 VNLT 0.5 90 QCV Quartz-Calcite Vein, 90%												
222.00	225.88	**5C** ***Banded Magnetite-Chert IF***			BLK	287502	222.00	223.00	1.00	0	-	0.01	-	-
		oxide-facies iron-formation (enclave). intense magnetite banding with cherty appearance, black in colour. Strong cleavage, folding present throughout (although core orientation is not available). Carbonate alteration spotty. Core is platy and broken in intervals.				287503	223.00	224.00	1.00	0	-	0.01	-	-
						287504	224.00	225.00	1.00	0	-	0.01	-	-
						287505	225.00	226.00	1.00	0	-	0.01	-	-
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		222.00 - 225.88 CB SPT 2 Carbonatization, Spotty/Patchy, Weak												
		Structure Maj.: ***Inte/Type/Core Angle*** ***Comment***												
		222.00 - 225.88 S FOL Foliated												
		222.50 - 222.90 S BC Broken Core												
		224.80 - 225.00 S BC Broken Core												
		Vein Maj. : ***Style/%vein/CoreA/%min/min*** ***Comment***												
		222.00 - 225.88 VN 2 100 QCV Quartz-Calcite Vein, 100%												

LITHOLOGY REPORT
- Detailed -

Hole Number: **WAT16-03** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
225.88	230.00	**6D** ***Greywacke***			GY

Wacke with clasts, strongly deformed and clasts are altered and strung out. Tonalite dikes also cross-cut this unit and are cm scale and are pervasively hematite and silica altered. Pyrite is variable throughout along the foliation planes accounting for 1-2% of rock but up to 5-7% locally.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
225.88 - 230.00	EP SPT 1	Epidotization, Spotty/Patchy, Very weak
225.88 - 230.00	HM FP 1	Hematization, Along Foliation Planes, Very weak
225.88 - 230.00	CB FP 2	Carbonatization, Along Foliation Planes, Weak
225.88 - 230.00	CL PV 3	Chloritization, Pervasive, Moderate

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
225.88 - 228.32	Py FOL 0.5	Pyrite, Along foliation, 0.5%
228.32 - 230.00	Py DIS 2	Pyrite, Disseminated, 2%

Structure Maj.:	*Inte/Type/Core Angle*	*Comment*
225.88 - 230.00	S FOL	Foliated

Vein Maj. :	*Style/%vein/CoreA/%min/min*	*Comment*
225.88 - 230.00	FACV 0.3 100 QCV	Quartz-Calcite Vein, 100%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
287506	226.00	227.00	1.00	0	-	0.01	-	-
287507	227.00	228.00	1.00	0	-	0.01	-	-
287508	228.00	229.00	1.00	0	-	0.01	-	-
287509	229.00	230.00	1.00	0	-	0.01	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
230.00	241.40	**8C** ***Tonalite/Trondjhemite Breccia***			GY

medium-grained tonalite brecciating medium-grained to fine-grained chlorite altered diorite to quartz-diorite. Some intervals appear to be wacke enclaves although the entire unit is so altered it is difficult to differentiate between some units. 1cm wide intermediate dike cutting unit at 236.58m, Short light brown intermediate dike from 238.48-239m.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
230.00 - 241.40	CL PV 3	Chloritization, Pervasive, Moderate
230.00 - 241.40	SI SPT 3	Silicification, Spotty/Patchy, Moderate
230.00 - 241.40	EP SP 2	Epidotization, Along Shear Planes, Weak
230.00 - 241.40	HM SPT 3	Hematization, Spotty/Patchy, Moderate

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
287510	230.00	231.00	1.00	0	-	0.01	-	-
287511	234.00	235.00	1.00	0	-	0.01	-	-
287513	241.00	241.40	0.40	0	-	0.01	-	-

Hole Number: **WAT16-03** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)

Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***

230.00 - 241.40 Py DIS 0.3 Pyrite, Disseminated, 0.3%

Vein Maj. : ***Style/%vein/CoreA/%min/min*** ***Comment***

230.00 - 241.40 VNLT 0.5 100 QCV Quartz-Calcite Vein, 100%

Minor Interval:

238.48 239.00 II *Intermediate Intrusive*

fine-grained very weakly magnetic intermediate dike. Brown in colour and pervasive weak argillic alteration. Contacts are irregular.

Alteration Min: ***Type/Style/Intensity*** ***Comment***

238.48 - 239.00 AG PV 1 Argillic, Pervasive, Very weak

241.40 250.50 **14B** ***Fine-grained Diabase dykes*** BLK

medium-grained strongly magnetic black diabase, fine-grained margin until 249m. Porphyritic feldspar grains are epidote altered.

Alteration Maj: ***Type/Style/Intensity*** ***Comment***

241.40 - 250.50 EP AFG 2 Epidotization, Alteration of feldspar grains, Weak

Vein Maj. : ***Style/%vein/CoreA/%min/min*** ***Comment***

241.40 - 250.50 STG 0.1 100 QCV Quartz-Calcite Vein, 100%

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number: **WAT16-03** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Length (m)	Sample #	Comments
5.60	7.00	1.40	287905	diorite
7.20	8.60	1.40	287906	diabase (1% dis py)
10.00	10.72	0.72	287907	tonalite breccia
10.72	11.71	0.99	287908	feldspar porphyry
14.00	14.78	0.78	287909	tonalite breccia
14.78	16.00	1.22	287910	chlorite altered feldspar porphyry
16.00	17.15	1.15	287911	chlorite altered feldspar porphyry and diorite
17.15	18.00	0.85	287913	diorite
18.00	19.00	1.00	287914	
19.00	20.00	1.00	287915	chlorite shear
20.00	21.00	1.00	287916	chlorite shear
21.00	22.00	1.00	287917	chlorite shear
22.00	23.00	1.00	287918	chlorite shear
26.14	27.00	0.86	287919	quartz-diorite
27.00	28.00	1.00	287920	quartz-diorite
30.75	32.00	1.25	287921	chloritic shear
32.00	33.00	1.00	287922	chlorite shear
33.00	34.00	1.00	287923	chlorite shear
34.00	34.84	0.84	287925	chloritic shear
34.84	36.00	1.16	287926	tonalite breccia
36.00	37.00	1.00	287927	
37.00	38.00	1.00	287928	chloritic shear
38.00	39.00	1.00	287929	chloritic shear, increased py
39.00	40.00	1.00	287930	chloritic shear
40.00	41.00	1.00	287931	same
41.00	42.00	1.00	287932	same

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number: **WAT16-03** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Length (m)	Sample #	Comments
42.00	43.00	1.00	287933	same
43.00	44.00	1.00	287934	same
44.00	45.00	1.00	287935	same
45.00	46.00	1.00	287937	same, broken core
46.00	47.00	1.00	287938	
47.00	48.00	1.00	287939	tonalite breccia
50.00	51.00	1.00	287940	tonalite breccia, increased carbonate
52.00	53.00	1.00	287941	chloritic shear, qcpv
53.00	54.00	1.00	287942	chloritic zone
54.00	55.00	1.00	287943	chloritic zone
56.00	57.00	1.00	287944	chloritic zone
63.00	63.95	0.95	287945	qcving in tonalite breccia
64.00	65.00	1.00	287946	chloritic zone
65.00	65.56	0.56	287947	chloritic zone
68.00	69.36	1.36	287949	tonalite breccia, elevated py
71.30	72.70	1.40	287950	tonalite breccia, massive po in qc-chalco vein
72.70	74.00	1.30	287951	
76.00	77.00	1.00	287952	chloritic zone
80.00	80.80	0.80	287953	diorite
81.60	83.00	1.40	287954	mafic dike contact, qcving along the contact
83.00	84.00	1.00	287955	chloritic zone
92.00	93.00	1.00	287956	diorite breccia, qcving
93.00	94.00	1.00	287957	diorite breccia
102.00	103.00	1.00	287958	diorite, qc py cpy ving
107.00	108.00	1.00	287959	tonalite breccia
108.00	109.00	1.00	287961	tonalite breccia, carb flooding

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number: **WAT16-03** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Length (m)	Sample #	Comments
109.00	110.00	1.00	287962	tonalite breccia
112.00	113.00	1.00	287963	tonalite breccia
115.00	116.00	1.00	287964	tonalite breccia, chlorite altered
118.00	119.00	1.00	287965	
119.00	120.00	1.00	287966	
121.00	122.00	1.00	287967	TONALITE BRECCIA, SIL, HEM AND CHL ALTERED
122.00	122.69	0.69	287968	SAME AS PREVIOUS
127.35	128.00	0.65	287969	TONALITE BRECCIA AFTER DIABASE DIKE
133.00	134.50	1.50	287970	TONALITE BRECCIA CHLORITE ALTERED
137.00	138.00	1.00	287971	TONALITE, PERVASIVE SIL, CHL, SER ALTERATION
138.00	139.00	1.00	287973	SAME AS PREVIOUS
139.00	140.00	1.00	287974	SAME AS PREVIOUS
140.00	141.00	1.00	287975	SAME AS PREVIOUS
141.00	142.00	1.00	287976	SAME AS PREVIOUS
142.00	143.00	1.00	287977	
143.00	144.00	1.00	287978	TONALITE
144.00	145.39	1.39	287979	
149.00	150.23	1.23	287980	TONALITE BRECCIA
159.35	160.00	0.65	287981	tonalite, chlorite altered
160.00	161.00	1.00	287982	tonalite
161.00	162.00	1.00	287983	tonalite
162.00	163.00	1.00	287985	tonalite, quartz carb vein
163.00	164.00	1.00	287986	tonalite
164.00	165.00	1.00	287987	tonalite
167.00	168.00	1.00	287988	tonalite
168.00	169.30	1.30	287989	tonalite breccia

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number: **WAT16-03** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Length (m)	Sample #	Comments
169.77	171.00	1.23	287990	gabbro
171.00	171.63	0.63	287991	gabbro
171.63	172.18	0.55	287992	tonalite breccia
178.12	179.57	1.45	287993	tonalite breccia
179.57	180.65	1.08	287994	gabbro
180.65	182.00	1.35	287995	diorite with tonalite dikes
182.00	183.00	1.00	287997	gabbro
183.00	184.00	1.00	287998	diorite
206.15	207.58	1.43	287999	tonalite bx
218.18	219.00	0.82	288000	tonalite, chlorite altered
219.00	219.92	0.92	287501	tonalite, 8cm fe-fm enclave
222.00	223.00	1.00	287502	Fe-formation, very broken, platy core
223.00	224.00	1.00	287503	Fe-formation, very broken, platy core
224.00	225.00	1.00	287504	fe formation
225.00	226.00	1.00	287505	fe-formation
226.00	227.00	1.00	287506	wacke with clasts, and tonalite dikes
227.00	228.00	1.00	287507	wacke with clasts, and tonalite dikes
228.00	229.00	1.00	287508	wacke with clasts, and tonalite dikes
229.00	230.00	1.00	287509	wacke with clasts, and tonalite dikes
230.00	231.00	1.00	287510	tonalite breccia
234.00	235.00	1.00	287511	tonalite breccia
241.00	241.40	0.40	287513	

DRILL HOLE REPORT

Hole Number: **WAT16-04** Project: Project Number:

Drilling		Casing		Core		Location		Other	
Azimuth:	49	**Length:**	3	**Dimension:**	NQ	**Claim No.:**	325420, 313368	**Company:**	IAMGOLD
Dip:	-46	**Pulled:**	no	**Diam Chang:**	no	**NTS:**		**Contractor:**	Laframbois
Length:	377	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Andrew Shea
Started:	01-Dec-16	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	
Completed:	04-Dec-16	**Left in hole:**	no	**Logged by:**	Colin Dunham	**Zone:**	17	**Surveyed by:**	
Logged:	09-Dec-16	**Making water:**		**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: Down-dip extension of fold flexure of Blanchard Showing (QV/QTSW - 2.5 g/t Au, 0.64% Cu) and Hydro

Comment:

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	434400.71	**East:**	434402	**East:**	0
North:	5268353.05	**North:**	5268354	**North:**	0
Elev.:	372.47	**Elev.:**	0	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
0.00	49.00	-46.00	0	0	0		C	☑	
2.00	72.30	-46.50			0	64021		☐	
5.00	59.90	-46.40			-2.18	62885		☐	
8.00	56.50	-46.50			-4.35	62285		☐	
11.00	52.10	-46.40			-6.53	61310		☐	
14.00	47.40	-46.40			-8.7	58409		☑	
17.00	46.20	-46.50			-10.88	57289		☐	
20.00	48.40	-46.40			-13.05	55966		☑	
23.00	46.00	-46.50			-15.22	55796		☑	bad?
26.00	48.60	-46.30			-17.4	55594		☑	bad?
29.00	47.40	-46.40			-19.57	55555		☑	
32.00	47.30	-46.30			-21.74	55574		☑	
35.00	47.60	-46.40			-23.91	55460		☑	
38.00	47.30	-46.40			-26.08	55367		☑	
41.00	48.50	-46.40			-28.26	55251		☑	

DRILL HOLE REPORT

Hole Number: **WAT16-04** Project: Project Number:

Drilling		Casing		Core		Location		Other	
Azimuth:	49	**Length:**	3	**Dimension:**	NQ	**Claim No.:**	325420, 313368	**Company:**	IAMGOLD
Dip:	-46	**Pulled:**	no	**Diam Chang:**	no	**NTS:**		**Contractor:**	Laframbois
Length:	377	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Andrew Shea
Started:	01-Dec-16	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	
Completed:	04-Dec-16	**Left in hole:**	no	**Logged by:**	Colin Dunham	**Zone:**	17	**Surveyed by:**	
Logged:	09-Dec-16	**Making water:**		**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: Down-dip extension of fold flexure of Blanchard Showing (QV/QTSW - 2.5 g/t Au, 0.64% Cu) and Hydro

Comment:

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	434400.71	**East:**	434402	**East:**	0
North:	5268353.05	**North:**	5268354	**North:**	0
Elev.:	372.47	**Elev.:**	0	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
44.00	47.30	-46.30			-30.43	55289		☑	
47.00	47.80	-46.20			-32.59	54940		☑	
50.00	48.70	-46.30			-34.76	55326		☑	
53.00	47.80	-46.20			-36.93	55005		☑	
56.00	46.90	-46.30			-39.1	55689		☑	
59.00	47.10	-46.20			-41.26	55449		☑	
62.00	47.30	-46.30			-43.43	55677		☑	
65.00	47.80	-46.20			-45.6	55718		☑	
68.00	48.50	-46.20			-47.76	55586		☑	
71.00	48.10	-46.20			-49.93	55435		☑	
74.00	47.20	-46.10			-52.09	55396		☑	
77.00	47.60	-46.10			-54.25	55075		☑	
80.00	49.50	-45.90			-56.41	55215		☑	
83.00	48.90	-46.10			-58.57	55191		☑	
86.00	49.50	-46.10			-60.73	55227		☑	

DRILL HOLE REPORT

Hole Number: **WAT16-04** Project: Project Number:

Drilling		Casing		Core		Location		Other	
Azimuth:	49	**Length:**	3	**Dimension:**	NQ	**Claim No.:**	325420, 313368	**Company:**	IAMGOLD
Dip:	-46	**Pulled:**	no	**Diam Chang:**	no	**NTS:**		**Contractor:**	Laframbois
Length:	377	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Andrew Shea
Started:	01-Dec-16	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	
Completed:	04-Dec-16	**Left in hole:**	no	**Logged by:**	Colin Dunham	**Zone:**	17	**Surveyed by:**	
Logged:	09-Dec-16	**Making water:**		**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: Down-dip extension of fold flexure of Blanchard Showing (QV/QTSW - 2.5 g/t Au, 0.64% Cu) and Hydro

Comment:

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	434400.71	**East:**	434402	**East:**	0
North:	5268353.05	**North:**	5268354	**North:**	0
Elev.:	372.47	**Elev.:**	0	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
89.00	48.90	-46.00			-62.89	54978		☑	
92.00	47.10	-46.20			-65.05	55496		☑	
95.00	47.90	-46.00			-67.21	55579		☑	
98.00	47.60	-46.00			-69.37	55465		☑	
#####	49.40	-46.10			-71.53	55305		☑	
#####	47.30	-46.10			-73.69	55032		☑	
#####	49.40	-46.00			-75.85	54211		☑	
#####	48.50	-45.90			-78.01	54544		☑	
#####	47.30	-46.00			-80.17	55338		☑	
#####	46.90	-46.00			-82.33	56073		☑	
#####	47.90	-45.90			-84.48	55968		☑	
#####	48.50	-46.00			-86.64	55621		☑	
#####	48.70	-45.90			-88.8	56018		☑	
#####	46.50	-45.90			-90.95	56541		☑	
#####	48.70	-45.80			-93.1	55926		☑	

DRILL HOLE REPORT

Hole Number: **WAT16-04** Project: Project Number:

Drilling		Casing		Core		Location		Other	
Azimuth:	49	**Length:**	3	**Dimension:**	NQ	**Claim No.:**	325420, 313368	**Company:**	IAMGOLD
Dip:	-46	**Pulled:**	no	**Diam Chang:**	no	**NTS:**		**Contractor:**	Laframbois
Length:	377	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Andrew Shea
Started:	01-Dec-16	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	
Completed:	04-Dec-16	**Left in hole:**	no	**Logged by:**	Colin Dunham	**Zone:**	17	**Surveyed by:**	
Logged:	09-Dec-16	**Making water:**		**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: Down-dip extension of fold flexure of Blanchard Showing (QV/QTSW - 2.5 g/t Au, 0.64% Cu) and Hydro

Comment:

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	434400.71	**East:**	434402	**East:**	0
North:	5268353.05	**North:**	5268354	**North:**	0
Elev.:	372.47	**Elev.:**	0	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
#####	48.90	-45.90			-95.25	55034		☑	
#####	49.10	-45.80			-97.41	55115		☑	
#####	49.80	-45.80			-99.56	54910		☑	
#####	49.70	-45.50			-101.7	54838		☑	
#####	51.10	-45.40			-103.84	55640		☑	
#####	51.20	-45.50			-105.98	55455		☑	
#####	52.10	-45.40			-108.12	55474		☑	
#####	49.90	-45.40			-110.26	56123		☑	
#####	48.00	-45.40			-112.39	55326		☑	
#####	48.30	-45.40			-114.53	55438		☑	
#####	48.50	-45.30			-116.66	55813		☑	
#####	49.80	-45.40			-118.8	55492		☑	
#####	49.00	-45.30			-120.93	55630		☑	
#####	49.30	-45.20			-123.06	55264		☑	
#####	48.60	-45.30			-125.19	55414		☑	

DRILL HOLE REPORT

Hole Number: **WAT16-04** Project: Project Number:

Drilling		Casing		Core		Location		Other	
Azimuth:	49	**Length:**	3	**Dimension:**	NQ	**Claim No.:**	325420, 313368	**Company:**	IAMGOLD
Dip:	-46	**Pulled:**	no	**Diam Chang:**	no	**NTS:**		**Contractor:**	Laframbois
Length:	377	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Andrew Shea
Started:	01-Dec-16	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	
Completed:	04-Dec-16	**Left in hole:**	no	**Logged by:**	Colin Dunham	**Zone:**	17	**Surveyed by:**	
Logged:	09-Dec-16	**Making water:**		**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: Down-dip extension of fold flexure of Blanchard Showing (QV/QTSW - 2.5 g/t Au, 0.64% Cu) and Hydro

Comment:

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	434400.71	**East:**	434402	**East:**	0
North:	5268353.05	**North:**	5268354	**North:**	0
Elev.:	372.47	**Elev.:**	0	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
#####	48.60	-45.20			-127.32	55401		☑	
#####	48.90	-45.10			-129.45	55544		☑	
#####	48.80	-45.20			-131.58	55511		☑	
#####	48.70	-45.00			-133.7	55432		☑	
#####	49.20	-45.00			-135.82	56069		☑	
#####	50.80	-45.10			-137.95	55106		☑	
#####	48.90	-44.90			-140.07	55248		☑	
#####	49.10	-44.90			-142.19	55308		☑	
#####	50.70	-44.90			-144.31	55352		☑	
#####	48.80	-44.80			-146.42	55504		☑	
#####	50.70	-45.00			-148.54	55128		☑	
#####	49.50	-45.00			-150.66	55299		☑	
#####	50.80	-44.90			-152.78	55367		☑	
#####	50.10	-44.90			-154.9	55500		☑	
#####	49.90	-44.90			-157.02	55283		☑	

DRILL HOLE REPORT

Hole Number: **WAT16-04** Project: Project Number:

Drilling		Casing		Core		Location		Other	
Azimuth:	49	**Length:**	3	**Dimension:**	NQ	**Claim No.:**	325420, 313368	**Company:**	IAMGOLD
Dip:	-46	**Pulled:**	no	**Diam Chang:**	no	**NTS:**		**Contractor:**	Laframbois
Length:	377	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Andrew Shea
Started:	01-Dec-16	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	
Completed:	04-Dec-16	**Left in hole:**	no	**Logged by:**	Colin Dunham	**Zone:**	17	**Surveyed by:**	
Logged:	09-Dec-16	**Making water:**		**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: Down-dip extension of fold flexure of Blanchard Showing (QV/QTSW - 2.5 g/t Au, 0.64% Cu) and Hydro

Comment:

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	434400.71	**East:**	434402	**East:**	0
North:	5268353.05	**North:**	5268354	**North:**	0
Elev.:	372.47	**Elev.:**	0	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
#####	49.70	-44.80			-159.13	55527		☑	
#####	50.90	-44.80			-161.25	55105		☑	
#####	51.10	-44.80			-163.36	55330		☑	
#####	49.50	-44.80			-165.47	55402		☑	
#####	49.70	-44.80			-167.59	55363		☑	
#####	49.90	-44.70			-169.7	55425		☑	
#####	50.30	-44.60			-171.81	55246		☑	
#####	50.70	-44.60			-173.92	55580		☑	
#####	50.50	-44.70			-176.02	56547		☑	
#####	51.60	-44.70			-178.13	56659		☑	
#####	50.30	-44.70			-180.24	56319		☑	
#####	51.10	-44.60			-182.35	55831		☑	
#####	50.60	-44.50			-184.46	55562		☑	
#####	51.30	-44.60			-186.56	55242		☑	
#####	51.20	-44.60			-188.67	55189		☑	

DRILL HOLE REPORT

Hole Number: **WAT16-04** Project: Project Number:

Drilling		Casing		Core		Location		Other	
Azimuth:	49	**Length:**	3	**Dimension:**	NQ	**Claim No.:**	325420, 313368	**Company:**	IAMGOLD
Dip:	-46	**Pulled:**	no	**Diam Chang:**	no	**NTS:**		**Contractor:**	Laframbois
Length:	377	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Andrew Shea
Started:	01-Dec-16	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	
Completed:	04-Dec-16	**Left in hole:**	no	**Logged by:**	Colin Dunham	**Zone:**	17	**Surveyed by:**	
Logged:	09-Dec-16	**Making water:**		**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: Down-dip extension of fold flexure of Blanchard Showing (QV/QTSW - 2.5 g/t Au, 0.64% Cu) and Hydro

Comment:

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	434400.71	**East:**	434402	**East:**	0
North:	5268353.05	**North:**	5268354	**North:**	0
Elev.:	372.47	**Elev.:**	0	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
#####	50.80	-44.60			-190.78	55299		☑	
#####	50.70	-44.50			-192.88	55486		☑	
#####	51.00	-44.50			-194.98	55304		☑	
#####	50.60	-44.40			-197.09	55526		☑	
#####	50.80	-44.50			-199.19	55549		☑	
#####	51.70	-44.40			-201.29	55454		☑	
#####	51.40	-44.40			-203.39	55390		☑	
#####	51.60	-44.40			-205.49	55855		☑	
#####	51.50	-44.30			-207.58	55270		☑	
#####	51.10	-44.20			-209.68	55340		☑	
#####	51.40	-44.20			-211.77	55617		☑	
#####	51.10	-44.20			-213.86	55425		☑	
#####	52.10	-44.30			-215.95	55592		☑	
#####	51.20	-44.30			-218.05	55543		☑	
#####	51.60	-44.20			-220.14	55673		☑	

DRILL HOLE REPORT

Hole Number: **WAT16-04** Project: Project Number:

Drilling		Casing		Core		Location		Other	
Azimuth:	49	**Length:**	3	**Dimension:**	NQ	**Claim No.:**	325420, 313368	**Company:**	IAMGOLD
Dip:	-46	**Pulled:**	no	**Diam Chang:**	no	**NTS:**		**Contractor:**	Laframbois
Length:	377	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Andrew Shea
Started:	01-Dec-16	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	
Completed:	04-Dec-16	**Left in hole:**	no	**Logged by:**	Colin Dunham	**Zone:**	17	**Surveyed by:**	
Logged:	09-Dec-16	**Making water:**		**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: Down-dip extension of fold flexure of Blanchard Showing (QV/QTSW - 2.5 g/t Au, 0.64% Cu) and Hydro

Comment:

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	434400.71	**East:**	434402	**East:**	0
North:	5268353.05	**North:**	5268354	**North:**	0
Elev.:	372.47	**Elev.:**	0	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
#####	52.00	-44.10			-222.23	55789		☑	
#####	52.20	-44.30			-224.32	55694		☑	
#####	52.50	-44.10			-226.41	55485		☑	
#####	52.20	-44.20			-228.5	55577		☑	
#####	51.20	-44.10			-230.59	55238		☑	
#####	43.10	-44.10			-232.68	56617		☑	
#####	51.20	-44.10			-234.77	55231		☑	
#####	52.60	-44.00			-236.86	55185		☑	
#####	51.50	-44.00			-238.94	55089		☑	
#####	51.70	-43.80			-241.02	55322		☑	
#####	51.70	-43.70			-243.09	55334		☑	
#####	52.30	-43.70			-245.17	55375		☑	
#####	52.50	-43.70			-247.24	55410		☑	
#####	53.70	-43.60				55597		☑	
#####	51.70	-43.60				55276		☑	

DRILL HOLE REPORT

Hole Number: **WAT16-04** Project: Project Number:

Drilling		Casing		Core		Location		Other	
Azimuth:	49	**Length:**	3	**Dimension:**	NQ	**Claim No.:**	325420, 313368	**Company:**	IAMGOLD
Dip:	-46	**Pulled:**	no	**Diam Chang:**	no	**NTS:**		**Contractor:**	Laframbois
Length:	377	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Andrew Shea
Started:	01-Dec-16	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	
Completed:	04-Dec-16	**Left in hole:**	no	**Logged by:**	Colin Dunham	**Zone:**	17	**Surveyed by:**	
Logged:	09-Dec-16	**Making water:**		**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: Down-dip extension of fold flexure of Blanchard Showing (QV/QTSW - 2.5 g/t Au, 0.64% Cu) and Hydro

Comment:

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	434400.71	**East:**	434402	**East:**	0
North:	5268353.05	**North:**	5268354	**North:**	0
Elev.:	372.47	**Elev.:**	0	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
#####	53.00	-43.70				54939		☑	
#####	52.30	-43.60				55283		☑	
#####	52.50	-43.60				55452		☑	
#####	52.10	-43.60				55267		☑	
#####	52.90	-43.60				55564		☑	
#####	52.10	-43.60				55116		☑	
#####	52.20	-43.60				55377		☑	

LITHOLOGY REPORT
- Detailed -

Hole Number: **WAT16-04** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
0.00	2.90	**Fresh Rock** **OB** ***Overburden***												
2.90	3.44	**Fresh Rock** **8C** ***Tonalite/Trondjhemite***	1	1	GY	289894	2.90	3.44	0.54	0	-	0.01	-	-

small section of tonalite, with medium grains of quartz and plagioclase. There is pervasive moderate to strong magnetism from disseminated magnetite. There is very weak fracture filling carb alt, with flecks of chl alt surrounding the magnetite grains.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
2.90 - 3.44	LX DISS 1	Leucoxene, Disseminated, Very weak
2.90 - 3.44	MAG DISS 2	Magnetite, Disseminated, Weak
2.90 - 3.44	CL DISS 2	Chloritization, Disseminated, Weak
2.90 - 3.44	HM SPT 1	Hematization, Spotty/Patchy, Very weak

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
2.90 - 3.44	Py DIS 0.05	Pyrite, Disseminated, 0.05%

LITHOLOGY REPORT
- Detailed -

Hole Number: **WAT16-04** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
3.44	11.54	**Fresh Rock** **7C** ***Gabbro***	1	1	DGR

dark green gabbro/diorite, with carb bands throughout. Pervasive chlorite alt, with varying intensities down core. There is carbonate alt throughout, mostly as bands, with some areas showing pervasive carb throughout. There is one section from 6.9-7.5m where there is several carb veins containing a dark reddish mineral, sometimes with darker grey minerals surrounding. Possibly hematite, although this is not certain. There are some areas with minor epidote alteration along fractures, giving a lighter apple green colour. In these areas, mostly from 3.44 to 6.24, you can see more of the original texture of the rock, with some feldspar grains being visible, although they all have a green colouration. Past 6.24m the core gets darker in colour and less chl alt'd, as it is noticably harder in some areas. This continues down hole.
There are three broken sections of the core, at 7.41 - 7.5, 10 - 10.21, and 11.43 -11.54m.
There is minor py dissem throughout, but it it not very significant except near the end of the unit around 11.43m, where the unit becomes highly fractured, where the % goes to approx 5% locally.

4.18-4.25m, small dykelet of tonalite

Alteration Maj:	Type/Style/Intensity	Comment
3.44 - 5.00	EP FRC 1	Epidotization, Along Fractures, Very weak
3.44 - 5.00	CB FRC 2	Carbonatization, Along Fractures, Weak
3.44 - 5.00	CB DISS 2	Carbonatization, Disseminated, Weak
3.44 - 5.00	CL PV 3	Chloritization, Pervasive, Moderate
5.00 - 6.24	EP AFG 1	Epidotization, Alteration of feldspar grains, Very weak
5.00 - 6.24	CB FRC 2	Carbonatization, Along Fractures, Weak
5.00 - 6.24	CB DISS 3	Carbonatization, Disseminated, Moderate
5.00 - 6.24	CL PV 3	Chloritization, Pervasive, Moderate
6.24 - 11.54	CB FRC 1	Carbonatization, Along Fractures, Very weak
6.24 - 11.54	HM SPT 3	Hematization, Spotty/Patchy, Moderate
6.24 - 11.54	CB DISS 1	Carbonatization, Disseminated, Very weak
6.24 - 11.54	CL SPT 2	Chloritization, Spotty/Patchy, Weak

Mineralization Maj. :	Type/Style/%Mineral	Comment
3.44 - 6.70	Py DIS 0.1	Pyrite, Disseminated, 0.1%
6.70 - 11.43	Py DIS 0.1	Pyrite, Disseminated, 0.1%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
289895	3.44	4.19	0.75	0	-	0.01	-	-
289897	6.00	6.83	0.83	0	-	0.01	-	-
289898	6.83	8.11	1.28	0	-	0.01	-	-
289899	8.11	9.38	1.27	0	-	0.01	-	-
289900	10.27	11.20	0.93	0	-	0.02	-	-
108501	11.20	11.54	0.34	0	-	0.05	-	-

Hole Number: **WAT16-04** Project: **TAAC** Project Number: **251**

From (m)	To (m)		Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		6.70 - 11.43	Py CLTS 0.5			Pyrite, Clots, 0.5%									
		11.43 - 11.54	Py DIS 1			Pyrite, Disseminated, 1%									
		11.43 - 11.54	Py CLS 4			Pyrite, clusters/aggregates, 4%									
		Texture Maj:	***Type***			***Comment***									
		3.44 - 6.24	MG			Medium Grained(1-5mm)									
		6.24 - 11.54	FG			Fine Grained (<1mm)									
		Vein Maj. :	***Style/%vein/CoreA/%min/min***			***Comment***									
		3.44 - 11.54	VN 10 35 15 QCV			Quartz-Calcite Vein, 15%									
		3.44 - 11.54	VN 10 35 85 CBV			Carbonate Vein, 85%, 35° CA									
Minor Interval:															
4.18	4.25		8C *Tonalite/Trondjhemite*												
		tonalite, with perv hem. Unable to get orientation due to spun core.													
		Alteration Min:	***Type/Style/Intensity***			***Comment***									
		4.18 - 4.25	HM PV 2			Hematization, Pervasive, Weak									
11.54	67.16	**Fresh Rock**	**8C** ***Tonalite/Trondjhemite***	1	1	RE	108502	11.54	12.35	0.81	0	-	0.01	-	-
		Medium grained tonalite, massive texture still visible. Unit is moderately to highly fractured near upper contact with diorite to approx. 23m. There is bt/chl alt along fractures, as well as disseminated throughout replacing some grains. There is disseminated magnetite within the bt/chl clots giving a weak patchy magnetism to the unit. There is minor carb clots and fractures throughout, with an area of more prevalent clots from 33.27-33.95m. These clots do not fizz much under acid, and may be partially ankerite. The primary variance is in the intensity of the hematite alteration. Where the hematite is stronger, there is more magnetite alt, while where it is weaker or non-existant, there is more chl/biotite. There is a minor unit of carbonate breccia from 15.25 - 15.4, comprised of tonalite with the same alteration as the surrounding rock brecciated by coarse sections of bull white carbonate. There is a small gabbro/mafic dykelt from 15.4-15.51m, which is chloritized and has coarse sections of carbonate within it. This may be due to the small unit of carbonate breccia above this dyke. There are several 3-5cm wide qtz veins running throughout the unit, with some larger veins up to 25 cm wide. There is a second gabbro dykelet at 54.64-54.7						108503	12.35	13.00	0.65	0	-	0.01	-	-
							108504	14.50	15.18	0.68	0	-	0.01	-	-
							108505	15.18	15.51	0.33	0	-	0.01	-	-
							108506	15.51	16.00	0.49	0	-	0.01	-	-
							108507	18.70	19.23	0.53	0	-	0.01	-	-
							108508	19.23	20.00	0.77	0	-	0.01	-	-
							108509	20.00	21.00	1.00	0	-	0.01	-	-
							108510	21.00	21.50	0.50	0	-	0.01	-	-
							108511	21.50	23.00	1.50	0	-	0.01	-	-
							108513	23.00	24.00	1.00	0	-	0.01	-	-

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From (m)	To (m)	Lithology	Weathering Oxidation Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Alteration Maj:	**Type/Style/Intensity**	**Comment**	108514	27.00	27.69	0.69	0	-	0.01	-	-
		11.54 - 13.05	CB FRC 1	Carbonatization, Along Fractures, Very weak	108515	27.69	27.95	0.26	0	-	0.01	-	-
		11.54 - 13.05	HM PV 1	Hematization, Pervasive, Very weak	108516	27.95	28.50	0.55	0	-	0.01	-	-
		11.54 - 13.05	CL DISS 2	Chloritization, Disseminated, Weak	108517	36.20	36.80	0.60	0	-	0.01	-	-
		11.54 - 13.05	BIO DISS 2	Biotitization, Disseminated, Weak	108518	43.00	44.00	1.00	0	-	0.01	-	-
		13.05 - 14.77	HM PV 2	Hematization, Pervasive, Weak	108519	46.63	47.50	0.87	0	-	0.01	-	-
		13.05 - 14.77	CB FRC 1	Carbonatization, Along Fractures, Very weak	108520	47.50	48.26	0.76	0	-	0.01	-	-
		13.05 - 14.77	CL DISS 2	Chloritization, Disseminated, Weak	108521	48.26	49.50	1.24	0	-	0.01	-	-
		13.05 - 14.77	BIO DISS 2	Biotitization, Disseminated, Weak	108522	49.50	51.00	1.50	0	-	0.01	-	-
		14.77 - 16.61	CL DISS 1	Chloritization, Disseminated, Very weak	108523	51.00	52.05	1.05	0	-	0.01	-	-
		14.77 - 16.61	CB FRC 1	Carbonatization, Along Fractures, Very weak	108525	52.05	53.00	0.95	0	-	0.01	-	-
		14.77 - 16.61	HM PV 4	Hematization, Pervasive, Strong	108526	53.00	54.00	1.00	0	-	0.01	-	-
		14.77 - 16.61	CL FRC 2	Chloritization, Along Fractures, Weak	108527	56.00	57.00	1.00	0	-	0.01	-	-
		16.61 - 23.21	CL DISS 2	Chloritization, Disseminated, Weak	108528	60.00	61.51	1.51	0	-	0.01	-	-
		16.61 - 23.21	BIO DISS 2	Biotitization, Disseminated, Weak	108529	66.00	67.16	1.16	0	-	0.01	-	-
		16.61 - 23.21	HM PV 3	Hematization, Pervasive, Moderate									
		16.61 - 23.21	CL FRC 2	Chloritization, Along Fractures, Weak									
		23.21 - 31.66	HM PV 2	Hematization, Pervasive, Weak									
		23.21 - 31.66	MAG DISS 2	Magnetite, Disseminated, Weak									
		23.21 - 31.66	CL DISS 2	Chloritization, Disseminated, Weak									
		23.21 - 31.66	BIO DISS 2	Biotitization, Disseminated, Weak									
		31.66 - 32.11	BIO DISS 2	Biotitization, Disseminated, Weak									
		31.66 - 32.11	CL DISS 2	Chloritization, Disseminated, Weak									
		31.66 - 32.11	CB FRC 1	Carbonatization, Along Fractures, Very weak									

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From (m)	To (m)	Lithology	Weathering Oxidation Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
	31.66 - 32.11	CL FRC 2	Chloritization, Along Fractures, Weak									
	32.11 - 33.27	HM PV 2	Hematization, Pervasive, Weak									
	32.11 - 33.27	CL FRC 2	Chloritization, Along Fractures, Weak									
	32.11 - 33.27	CL DISS 2	Chloritization, Disseminated, Weak									
	32.11 - 33.27	BIO DISS 2	Biotitization, Disseminated, Weak									
	33.27 - 33.95	CL FRC 2	Chloritization, Along Fractures, Weak									
	33.27 - 33.95	HM PV 2	Hematization, Pervasive, Weak									
	33.27 - 33.95	CL DISS 2	Chloritization, Disseminated, Weak									
	33.27 - 33.95	BIO DISS 2	Biotitization, Disseminated, Weak									
	33.95 - 36.35	CL DISS 2	Chloritization, Disseminated, Weak									
	33.95 - 36.35	MAG DISS 1	Magnetite, Disseminated, Very weak									
	33.95 - 36.35	HM PV 2	Hematization, Pervasive, Weak									
	33.95 - 36.35	BIO DISS 2	Biotitization, Disseminated, Weak									
	36.35 - 36.80	CL CLTS 3	Chloritization, Clots, Moderate									
	36.35 - 36.80	HM PV 1	Hematization, Pervasive, Very weak									
	36.35 - 36.80	BIO DISS 2	Biotitization, Disseminated, Weak									
	36.35 - 36.80	MAG SPT 1	Magnetite, Spotty/Patchy, Very weak									
	36.80 - 44.20	BIO DISS 2	Biotitization, Disseminated, Weak									
	36.80 - 44.20	CL DISS 2	Chloritization, Disseminated, Weak									
	36.80 - 44.20	MAG SPT 1	Magnetite, Spotty/Patchy, Very weak									
	36.80 - 44.20	HM PV 1	Hematization, Pervasive, Very weak									
	44.20 - 44.50	BIO DISS 2	Biotitization, Disseminated, Weak									
	44.20 - 44.50	CL DISS 2	Chloritization, Disseminated, Weak									
	44.20 - 44.50	CL FRC 2	Chloritization, Along Fractures, Weak									

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From (m)	To (m)		Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		44.20 - 44.50	HM SPT 1	Hematization, Spotty/Patchy, Very weak											
		44.50 - 48.25	CL DISS 2	Chloritization, Disseminated, Weak											
		44.50 - 48.25	CL FRC 3	Chloritization, Along Fractures, Moderate											
		44.50 - 48.25	BIO DISS 2	Biotitization, Disseminated, Weak											
		44.50 - 48.25	HM PV 2	Hematization, Pervasive, Weak											
		48.25 - 56.00	CL DISS 3	Chloritization, Disseminated, Moderate											
		48.25 - 56.00	SR SPT 2	Sericitization, Spotty/Patchy, Weak											
		48.25 - 56.00	BIO DISS 3	Biotitization, Disseminated, Moderate											
		48.25 - 56.00	HM SPT 2	Hematization, Spotty/Patchy, Weak											
		56.00 - 58.84	SR FRC 2	Sericitization, Along Fractures, Weak											
		56.00 - 58.84	CL DISS 3	Chloritization, Disseminated, Moderate											
		56.00 - 58.84	CL FRC 3	Chloritization, Along Fractures, Moderate											
		56.00 - 58.84	BIO DISS 3	Biotitization, Disseminated, Moderate											
		58.84 - 60.00	CL DISS 3	Chloritization, Disseminated, Moderate											
		58.84 - 60.00	HM PV 2	Hematization, Pervasive, Weak											
		58.84 - 60.00	BIO DISS 3	Biotitization, Disseminated, Moderate											
		58.84 - 60.00	CL FRC 3	Chloritization, Along Fractures, Moderate											
		60.00 - 61.70	CL DISS 3	Chloritization, Disseminated, Moderate											
		60.00 - 61.70	CB FRC 1	Carbonatization, Along Fractures, Very weak											
		60.00 - 61.70	CL FRC 3	Chloritization, Along Fractures, Moderate											
		60.00 - 61.70	BIO DISS 3	Biotitization, Disseminated, Moderate											
		61.70 - 65.64	HM PV 2	Hematization, Pervasive, Weak											
		61.70 - 65.64	CL DISS 2	Chloritization, Disseminated, Weak											
		61.70 - 65.64	BIO DISS 2	Biotitization, Disseminated, Weak											

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From (m)	To (m)		Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		61.70 - 65.64	MAG DISS 3												
		65.64 - 67.16	CL DISS 2												
		65.64 - 67.16	CB FRC 1												
		65.64 - 67.16	CL FRC 3												
		65.64 - 67.16	BIO DISS 2												

Mineralization Maj. :	Type/Style/%Mineral	Comment
11.54 - 12.50	Py DIS 0.5	Pyrite, Disseminated, 0.5%
12.50 - 21.00	Py DIS 0.1	Pyrite, Disseminated, 0.1%
21.00 - 21.40	Py BNDS 3	Pyrite, Bands, 3%
21.40 - 23.00	Py DIS 0.5	Pyrite, Disseminated, 0.5%
23.00 - 48.00	Py DIS 0.1	Pyrite, Disseminated, 0.1%
48.00 - 52.50	Py BLB 0.5	Pyrite, Blebs, 0.5%
52.50 - 67.16	Py DIS 0.1	Pyrite, Disseminated, 0.1%

Texture Maj:	Type	Comment
11.54 - 67.16	MG	Medium Grained(1-5mm)

Vein Maj. :	Style/%vein/CoreA/%min/min	Comment
11.54 - 19.00	VN 1 40 60 QCV	Quartz-Calcite Vein, 60%
11.54 - 19.00	VN 1 40 40 CBV	Carbonate Vein, 40%, 40° CA
19.00 - 28.00	VN 6 35 5 CBV	Carbonate Vein, 5%
19.00 - 28.00	VN 6 35 15 QCV	Quartz-Calcite Vein, 15%
19.00 - 28.00	VN 6 35 80 QV	Quartz Vein, 80%, 35° CA
28.00 - 35.80	VN 0 35 50 CBV	Carbonate Vein, 50%
28.00 - 35.80	VN 0 35 50 QCV	Quartz-Calcite Vein, 50%, 35° CA
35.80 - 67.16	VN 0 20 20 CBV	Carbonate Vein, 20%
35.80 - 67.16	VN 0 20 40 QCV	Quartz-Calcite Vein, 40%
35.80 - 67.16	VN 0 20 40 QV	Quartz Vein, 40%, 20° CA

Minor Interval:

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
15.25	15.40	Fresh Rock CVBX *Carbonate Breccia*		1										
		Carbonate breccia, unit has tonalite brecciated by carbonate. The tonalite has strong hematite alteration, with minor bt/chl disseminated. Red and white colour.												
		Alteration Min: ***Type/Style/Intensity*** ***Comment***												
		15.25 - 15.40 HM PV 4 Hematization, Pervasive, Strong												
Minor Interval:														
15.40	15.51	Fresh Rock 7C *Gabbro*		1										
		*****Gabbro or mafic dyke, with coarse sections/ pieces of carbonate within similar to the above carb breccia unit. Minor chl on fractures. Vfg to fg unit.												
		Alteration Min: ***Type/Style/Intensity*** ***Comment***												
		15.40 - 15.51 CB CLTS 3 Carbonatization, Clots, Moderate												
		15.40 - 15.51 CL FRC 1 Chloritization, Along Fractures, Very v												
Minor Interval:														
54.64	54.70	Fresh Rock 7C *Gabbro*		1										
		small gabbro/mafic dyke. Mostly choritized.												
		Alteration Min: ***Type/Style/Intensity*** ***Comment***												
		54.64 - 54.70 CL PV 4 Chloritization, Pervasive, Strong												
67.16	67.75	**Fresh Rock SH** ***Shear/Shear Zone***	1	1	GG	108530	67.16	67.75	0.59	0	-	0.01	-	-
		shear zone, with pervasive chl alt, there is pervasive dissem carb alt. there is one 18cm wide qtz vein at 67.58 - 67.76. this vein has a purple carbonate mineral in it, possibly stichtite.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		67.16 - 67.75 CB CLTS 4 Carbonatization, Clots, Strong												
		67.16 - 67.75 CB DISS 3 Carbonatization, Disseminated, Moderate												
		67.16 - 67.75 CL PV 4 Chloritization, Pervasive, Strong												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		67.16 - 67.75 Py DIS 0.1 Pyrite, Disseminated, 0.1%												

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Texture Maj: ***Type*** ***Comment***												
		67.16 - 67.75 SCH Schistose												
		Vein Maj. : ***Style/%vein/CoreA/%min/min*** ***Comment***												
		67.16 - 67.75 VN 30 35 100 QCV Quartz-Calcite Vein, 100%, 35° CA												
67.75	110.21	**Fresh Rock** **8C** ***Tonalite/Trondjhemite***	1	1	GY	108531	67.75	69.00	1.25	0	-	0.01	-	-
						108532	71.00	72.50	1.50	0	-	0.01	-	-
						108533	76.86	78.23	1.37	0	-	0.01	-	-
						108534	85.00	86.50	1.50	0	-	0.01	-	-
						108535	88.00	89.00	1.00	0	-	0.01	-	-
						108537	90.00	91.50	1.50	0	-	0.01	-	-
						108538	91.50	93.00	1.50	0	-	0.01	-	-
						108539	97.00	98.00	1.00	0	-	0.01	-	-
						108540	98.00	99.09	1.09	0	-	0.01	-	-
						108541	102.00	102.76	0.76	0	-	0.01	-	-
						108542	102.76	103.55	0.79	0	-	0.01	-	-
						108543	103.55	105.00	1.45	0	-	0.01	-	-
						108544	105.00	106.50	1.50	0	-	0.01	-	-
						108545	106.50	108.00	1.50	0	-	0.01	-	-
						108546	108.00	108.61	0.61	0	-	0.01	-	-
						108547	108.61	109.25	0.64	0	-	0.01	-	-
						108549	109.25	110.21	0.96	0	-	0.01	-	-

grey coloured tonalite, massive texture, with pervasive disseminated chl and biotite. There is patchy magnetite scattered throughout the unit with a few exceptions, giving spotty weak magnetism. The magnetite is concentrated in the chl/bt clots/blebs. Additionally, there is carbonate alteration along fractures, as well as chlorite/biotite alt along fractures.
Unlike the previous tonalite, hematite alt is spotty to non existant in most of this unit. There are some exceptions, such as from 78.86 to 91.24, where the hematite alt becomes pervasive.

There is a non magnetic zone from 94.73 -99.09, with some increased chl alt diss, and possibly some weak silicification.
From 102.4 to end of unit, there is elevated py mineralization, fairly regularly disseminated with some areas of higher concentration, up to 3-5% locally over 10-15cm. There is noticably less veining down unit.
102.78-102.86m, there is a small gabbro dykelet which has been overprinted by chl alt and carbonate alt.
From 108.61 - 109.25 there is a small gabbro dyke which is black green in colour, with some white and red areas. There are some medium sized grains visible in certain parts of the unit, however these are mostly overprinted. The primary alteration consists of pervasive chl alt, along with some carbonate fractures and veinlets, as well as some hematite altered sections.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
67.75 - 71.60	BIO DISS 2	Biotitization, Disseminated, Weak
67.75 - 71.60	CL DISS 2	Chloritization, Disseminated, Weak
67.75 - 71.60	CB FRC 1	Carbonatization, Along Fractures, Very weak
67.75 - 71.60	SR IS 2	Sericitization, Interstitial, Weak
71.60 - 76.37	CL DISS 3	Chloritization, Disseminated, Moderate
71.60 - 76.37	CL FRC 3	Chloritization, Along Fractures, Moderate
71.60 - 76.37	SR SPT 2	Sericitization, Spotty/Patchy, Weak

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From (m)	To (m)	Lithology	Weathering Oxidation Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
	71.60 - 76.37	CB FRC 1	Carbonatization, Along Fractures, Very weak									
	76.37 - 76.86	CL FRC 3	Chloritization, Along Fractures, Moderate									
	76.37 - 76.86	CL DISS 3	Chloritization, Disseminated, Moderate									
	76.37 - 76.86	CB FRC 1	Carbonatization, Along Fractures, Very weak									
	76.37 - 76.86	HM SPT 1	Hematization, Spotty/Patchy, Very weak									
	76.86 - 79.90	CL DISS 3	Chloritization, Disseminated, Moderate									
	76.86 - 79.90	MAG DISS 1	Magnetite, Disseminated, Very weak									
	76.86 - 79.90	HM PV 1	Hematization, Pervasive, Very weak									
	76.86 - 79.90	CL FRC 2	Chloritization, Along Fractures, Weak									
	79.90 - 88.70	HM PV 3	Hematization, Pervasive, Moderate									
	79.90 - 88.70	CL DISS 2	Chloritization, Disseminated, Weak									
	79.90 - 88.70	BIO DISS 2	Biotitization, Disseminated, Weak									
	79.90 - 88.70	MAG DISS 2	Magnetite, Disseminated, Weak									
	88.70 - 91.24	CL FRC 3	Chloritization, Along Fractures, Moderate									
	88.70 - 91.24	BIO DISS 2	Biotitization, Disseminated, Weak									
	88.70 - 91.24	CL DISS 2	Chloritization, Disseminated, Weak									
	88.70 - 91.24	HM SPT 2	Hematization, Spotty/Patchy, Weak									
	91.24 - 94.73	CL DISS 3	Chloritization, Disseminated, Moderate									
	91.24 - 94.73	CL FRC 3	Chloritization, Along Fractures, Moderate									
	91.24 - 94.73	MAG DISS 1	Magnetite, Disseminated, Very weak									
	91.24 - 94.73	CB FRC 1	Carbonatization, Along Fractures, Very weak									
	94.73 - 97.00	CL DISS 3	Chloritization, Disseminated, Moderate									
	94.73 - 97.00	HM SPT 1	Hematization, Spotty/Patchy, Very weak									
	94.73 - 97.00	CL FRC 3	Chloritization, Along Fractures, Moderate									

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From (m)	To (m)		Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		94.73 - 97.00	CB FRC 2			Carbonatization, Along Fractures, Weak									
		97.00 - 99.09	CB FRC 1			Carbonatization, Along Fractures, Very weak									
		97.00 - 99.09	SI PV 3			Silicification, Pervasive, Moderate									
		97.00 - 99.09	CL FRC 2			Chloritization, Along Fractures, Weak									
		97.00 - 99.09	CL DISS 1			Chloritization, Disseminated, Very weak									
		99.09 - 103.55	CL DISS 2			Chloritization, Disseminated, Weak									
		99.09 - 103.55	BIO DISS 1			Biotitization, Disseminated, Very weak									
		99.09 - 103.55	CB FRC 2			Carbonatization, Along Fractures, Weak									
		99.09 - 103.55	MAG DISS 2			Magnetite, Disseminated, Weak									
		103.55 - 110.21	HM SPT 1			Hematization, Spotty/Patchy, Very weak									
		103.55 - 110.21	MAG DISS 3			Magnetite, Disseminated, Moderate									
		103.55 - 110.21	BIO DISS 2			Biotitization, Disseminated, Weak									
		103.55 - 110.21	CL DISS 2			Chloritization, Disseminated, Weak									

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
67.75 - 99.00	Py DIS 0.1	Pyrite, Disseminated, 0.1%
99.00 - 102.40	Py DIS 0.2	Pyrite, Disseminated, 0.2%
102.40 - 105.15	Py DIS 1	Pyrite, Disseminated, 1%
105.15 - 110.21	Py DIS 2	Pyrite, Disseminated, 2%

Texture Maj:	***Type***	***Comment***
67.75 - 110.21	MG	Medium Grained(1-5mm)
67.75 - 110.21	MAS	Massive

Vein Maj. :	***Style/%vein/CoreA/%min/min***	***Comment***
67.75 - 110.21	1 75 30 CBV	Carbonate Vein, 30%
67.75 - 110.21	1 75 70 QV	Quartz Vein, 70%, 75° CA

Minor Interval:

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
102.78	102.86	Fresh Rock 7C *Gabbro*		1										
		Dark green gabbro/mafic dykelet, mostly chlorititized and carb alt'd. no relic texture visible.												
		Alteration Min:	***Type/Style/Intensity***	***Comment***										
		102.78 - 102.86	CB DISS 4	Carbonatization, Disseminated, Stron										
		102.78 - 102.86	CL PV 4	Chloritization, Pervasive, Strong										
Minor Interval:														
108.61	109.25	Fresh Rock 7C *Gabbro*		1										
		dark green to greenish black gabbro. Pervasive chl alt has mostly overprinted the original texture, with some spots appearing through it. There are carbonate veinlets and fractures running through the start of the unit. Some spots have hematite alteration.												
		Alteration Min:	***Type/Style/Intensity***	***Comment***										
		108.61 - 109.25	HM SPT 3	Hematization, Spotty/Patchy, Modera										
		108.61 - 109.25	CB FRC 3	Carbonatization, Along Fractures, Mo										
		108.61 - 109.25	CB MTV 3	Carbonatization, Marginal to veins, M										
		108.61 - 109.25	CL PV 4	Chloritization, Pervasive, Strong										
110.21	111.78	**Fresh Rock 7C *Gabbro***	1	1	DGR	108550	110.21	111.78	1.57	0	-	0.01	-	-
		dark green gabbro/mafic dyke. There is coarse biotite grains in some sections, 1-3mm long. Alteration consists of pervasive weak to moderate chl, with wisps of carbonate diss throughout. There is a qtz vein at 110.31-110.4.												
		mineralization consists of fg diss py, with some blebs of cpy right at the start of the unit intermixed with py.												
		Alteration Maj:	***Type/Style/Intensity***	***Comment***										
		110.21 - 111.78	CB DISS 3	Carbonatization, Disseminated, Moderate										
		110.21 - 111.78	CL PV 2	Chloritization, Pervasive, Weak										
		Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***										
		110.21 - 111.78	Cpy BLB 0.5	Chalcopyrite, Blebs, 0.5%										
		110.21 - 111.78	Py BLB 0.5	Pyrite, Blebs, 0.5%										

Hole Number: **WAT16-04** Project: **TAAC** Project Number: **251**

From (m)	To (m)		Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		110.21 - 111.78	Py DIS 0.5	Pyrite, Disseminated, 0.5%											
		Texture Maj:	***Type***	***Comment***											
		110.21 - 111.78	FG	Fine Grained (<1mm)											
		Vein Maj. :	***Style/%vein/CoreA/%min/min***	***Comment***											
		110.21 - 111.78	VN 8 100 QV	Quartz Vein, 100%											
111.78	112.55	**Fresh Rock**	**8C**	***Tonalite/Trondjhemite***	1	1	RE	108551	111.78	112.55	0.77	0	-	0.01	-	-
		tonalite, red grey colour, grey at the top of the unit, getting red down core with increasing hematite alteration. Massive with medium grains. Minor diss magnetite gives patchy weak magnetism. This is stronger around some fractures. The unit is cut by several carbonate veins. There is a small dykelet of diabase at 45 degrees to CA at 112.25-112.27m. Unit is non magnetic.													
		Alteration Maj:	***Type/Style/Intensity***	***Comment***											
		111.78 - 112.00	CL FRC 2	Chloritization, Along Fractures, Weak											
		111.78 - 112.00	BIO DISS 1	Biotitization, Disseminated, Very weak											
		111.78 - 112.00	CL DISS 2	Chloritization, Disseminated, Weak											
		111.78 - 112.00	HM SPT 1	Hematization, Spotty/Patchy, Very weak											
		112.00 - 112.55	CL FRC 2	Chloritization, Along Fractures, Weak											
		112.00 - 112.55	BIO DISS 2	Biotitization, Disseminated, Weak											
		112.00 - 112.55	CL DISS 2	Chloritization, Disseminated, Weak											
		112.00 - 112.55	HM SPT 3	Hematization, Spotty/Patchy, Moderate											
		Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***											
		111.78 - 112.55	Py DIS 0.5	Pyrite, Disseminated, 0.5%											
		Vein Maj. :	***Style/%vein/CoreA/%min/min***	***Comment***											
		111.78 - 112.55	VN 5 40 100 CBV	Carbonate Vein, 100%, 40° CA											

Hole Number: **WAT16-04** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
112.55	130.34	**Fresh Rock** **14B** ***Fine-grained Diabase dykes***	1	1	GRBLK

dark grey to black fg diabase. The central part of the dyke has visible grains, giving a salt and pepper look. The feldspars have been altered with epidote, giving them a greenish colour. There are several larger grains of feldspar, up to 1-3cm wide, which have been altered by epidote and have a green colour. These are concentrated in the top of the unit. There is chl alt on fractures. There is also some carb alt on certain fractures.
Unit has pervasive weak to moderate magnetism, with the weakest being near the upper contact with the tonalite.
Some carbonate veinlets are cutting through the core at various locations.
Mineralization consists of fg py diss throughout. There is up to 2-3% py diss.

Approaching the contacts the diabase gets more fine grained to aphanitic.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
112.55 - 130.34	CB FRC 2	Carbonatization, Along Fractures, Weak
112.55 - 130.34	EP FRC 2	Epidotization, Along Fractures, Weak
112.55 - 130.34	EP AFG 3	Epidotization, Alteration of feldspar grains, Moderate

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
112.55 - 130.34	Py DIS 2	Pyrite, Disseminated, 2%

Vein Maj. :	*Style/%vein/CoreA/%min/min*	*Comment*
112.55 - 130.34	ANV 0 100 CBV	Carbonate Vein, 100%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
108552	112.55	113.40	0.85	0	-	0.01	-	-
108553	129.02	130.34	1.32	0	-	0.01	-	-

LITHOLOGY REPORT
- Detailed -

Hole Number: **WAT16-04** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
130.34	141.25	**Fresh Rock** **8C** ***Tonalite/Trondjhemite***	1	1	GRB

Toanlite/Trondjhemite - pinkish grey to red brown tonalite; porphyritic texture with fg to mg (<0.3 cm) 20% to 30% quartz-eyes with patchy interstitial hem dusting with increased hem at upper contact with diabase; weaker hem down-core; moderate chl-(bio-cb) as interstitial alteration of amphibole and numerous chl-(cb) irregularly oriented fractures with some calcite fractures; <1% to 5% vfg white leucoxene.

136.22 to 138.86 - Diabase Dyke - black color, mafic composition being fg and highly fractured with weak cb, 1% py and magnetic
Unit is highly fractured leaving little orientation.

Mineralization - <1% py and weak to moderately magnetic with 1% to 2% magnetite associated with the more chloritic altered interstitial matrix
Contact - sharp contact 57 from C.A.

Alteration Maj:	Type/Style/Intensity	Comment
130.34 - 130.80	BIO DISS 2	Biotitization, Disseminated, Weak
130.34 - 130.80	CB FRC 2	Carbonatization, Along Fractures, Weak
130.34 - 130.80	CL DISS 3	Chloritization, Disseminated, Moderate
130.34 - 130.80	HM PV 3	Hematization, Pervasive, Moderate
130.80 - 134.89	HM SPT 2	Hematization, Spotty/Patchy, Weak
130.80 - 134.89	CB FRC 2	Carbonatization, Along Fractures, Weak
130.80 - 134.89	BIO DISS 2	Biotitization, Disseminated, Weak
130.80 - 134.89	CL DISS 2	Chloritization, Disseminated, Weak
134.89 - 136.22	BIO DISS 1	Biotitization, Disseminated, Very weak
134.89 - 136.22	HM SPT 1	Hematization, Spotty/Patchy, Very weak
134.89 - 136.22	CL DISS 1	Chloritization, Disseminated, Very weak
134.89 - 136.22	SI PV 2	Silicification, Pervasive, Weak
136.22 - 140.50	HM PV 2	Hematization, Pervasive, Weak
136.22 - 140.50	SI SPT 1	Silicification, Spotty/Patchy, Very weak
136.22 - 140.50	CL DISS 1	Chloritization, Disseminated, Very weak

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
108554	130.34	131.50	1.16	0	-	0.01	-	-
108555	131.50	133.00	1.50	0	-	0.01	-	-
108556	133.00	134.00	1.00	0	-	0.01	-	-
108557	134.00	134.90	0.90	0	-	0.01	-	-
108558	134.90	136.22	1.32	0	-	0.01	-	-
108559	136.22	136.86	0.64	0	-	0.01	-	-
108561	136.86	138.00	1.14	0	-	0.01	-	-
108562	140.00	141.25	1.25	0	-	0.01	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		136.22 - 140.50 BIO DISS 1	Biotitization, Disseminated, Very weak											
		140.50 - 141.25 BIO DISS 1	Biotitization, Disseminated, Very weak											
		140.50 - 141.25 HM SPT 1	Hematization, Spotty/Patchy, Very weak											
		140.50 - 141.25 CL DISS 1	Chloritization, Disseminated, Very weak											
		140.50 - 141.25 SI SPT 2	Silicification, Spotty/Patchy, Weak											
		Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***										
		130.34 - 136.22	Py DIS 0.25	Pyrite, Disseminated, 0.25%										
		136.22 - 137.13	Cpy BLB 0.1	Chalcopyrite, Blebs, 0.1%										
		136.22 - 137.13	Py DIS 0.25	Pyrite, Disseminated, 0.25%										
		137.13 - 141.25	Py DIS 0.1	Pyrite, Disseminated, 0.1%										
Minor Interval:														
136.22	136.86	Fresh Rock 14B *Fine-grained Diabase dykes* 1												
		fine grained diabase. Black colour, highly fractured. Minor carb on some fractures.												
		Alteration Min:	***Type/Style/Intensity***	***Comment***										
		136.22 - 136.86	CB FRC 2	Carbonatization, Along Fractures, We										
		Mineralization Min:	***Type/Style/%Mineral***	***Comment***										
		136.22 - 136.86	Py DIS 1	Pyrite, Disseminated, 1%										
141.25	145.26	**Fresh Rock SH** ***Shear/Shear Zone (Gabbro)*** 1 1 GG				108563	141.25	142.50	1.25	0	-	0.01	-	-
		Shear Zone(Sheared Gabbro) - altered mafic with strong pervasive cb>chl, highly foliated with laminations contorting and irregular. There is pervasivemoderate chl alt, with patchy stronger areas. Carb is dissem throughout on shear planes, moderate strength. Unknown original rock type. There is up to 5% irregular boudinaged qcs with increasing veining to 145.26; increase in shearing with depth from 142.2 to 145.26, 30 to 50 from C.A.				108564	142.50	144.00	1.50	0	-	0.01	-	-
						108565	144.00	145.26	1.26	0	-	0.01	-	-
		Mineralization - <1% py-po and is moderately magnetic												

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Contact - gradational												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		141.25 - 145.26 MAG DISS 3 Magnetite, Disseminated, Moderate												
		141.25 - 145.26 CB SP 3 Carbonatization, Along Shear Planes, Moderate												
		141.25 - 145.26 CL SPT 4 Chloritization, Spotty/Patchy, Strong												
		141.25 - 145.26 CL PV 3 Chloritization, Pervasive, Moderate												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		141.25 - 145.26 Py BLB 0.25 Pyrite, Blebs, 0.25%												
		Texture Maj: ***Type*** ***Comment***												
		141.25 - 145.26 LAM Laminated												
		141.25 - 145.26 BLD Bladed												
		Vein Maj. : ***Style/%vein/CoreA/%min/min*** ***Comment***												
		141.25 - 145.26 VN 1 100 QCV Quartz-Calcite Vein, 100%												
145.26	149.26	**Fresh Rock** **QTS** ***Quartz Stockwork***	1	1	GG	108566	145.26	146.50	1.24	0	-	0.01	-	-
						108567	146.50	148.00	1.50	0	-	0.01	-	-
						108568	148.00	149.26	1.26	0	-	0.01	-	-
		Quartz Stockwork - strongly chl altered margins to 20% to 25% veining as well as chl wallrock inclusions in vein system; highly variable weak to strong cb along shear planes; veins are a mixture of quartz veins, quartz carb veins, and carbonate veins, and range from 28cm wide to 1cm wide. Several of the veins are irregular, and only cut partway trhough the unit. For the sheared section of the unit, there is pervasive strong chl, and weak to moderate shear controlled carbonate. There is also some ankerite in some of the quartz veins, which has weathered slightly to a yellowish colour.												
		Mineralization - consists mostly of scattered cubes of pyrite < 1% with patchy blebs of po along shears < 1% and occasional cpy-sp < 0.5%, moderately to strongly magnetic												
		Contact - gradational												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		145.26 - 149.26 MAG DISS 2 Magnetite, Disseminated, Weak												
		145.26 - 149.26 CB SP 2 Carbonatization, Along Shear Planes, Weak												

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		145.26 - 149.26 CL PV 4 Chloritization, Pervasive, Strong												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		145.26 - 147.00 Py BLB 0.2 Pyrite, Blebs, 0.2%												
		145.26 - 147.00 Py DIS 0.5 Pyrite, Disseminated, 0.5%												
		147.00 - 149.26 Cpy BLB 0.1 Chalcopyrite, Blebs, 0.1%												
		147.00 - 149.26 Py DIS 0.2 Pyrite, Disseminated, 0.2%												
		Texture Maj: ***Type*** ***Comment***												
		145.26 - 149.26 BND Banded												
		145.26 - 149.26 LAM Laminated												
		Vein Maj. : ***Style/%vein/CoreA/%min/min*** ***Comment***												
		145.26 - 149.26 STWV 30 40 20 CBV Carbonate Vein, 20%												
		145.26 - 149.26 STWV 30 40 70 QCV Quartz-Calcite Vein, 70%												
		145.26 - 149.26 STWV 30 40 10 QV Quartz Vein, 10%, 40° CA												
149.26	152.27	**Fresh Rock** **SH** ***Shear/Shear Zone (Gabbro)***	1	1	GG	108569	149.26	150.75	1.49	0	-	0.01	-	-
						108570	150.75	152.27	1.52	0	-	0.01	-	-
		Shear Zone (Gabbro) - as above. Pervasive mod to strong chl alt and weak to moderate cb as bleached white to grayish-white bands with shear controlled weak carb; is less than 1% qtz carb and carb veining running irregularly through the unit. The few veins are often cut off and do not cut fully across the core; strongly sheared/crenulated/folded 10 to 55 from C.A. with numerous flexures in bands…fold axis 90 from C.A. at 150.5.												
		Mineralization - There is up to 0.5% py in the unit as scattered fg to mg cubes and local cpy bleb<0.5%; moderately magnetic with 2% to 3% disseminated magnetite												
		Contact - sharp contact 28 from C.A.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		149.26 - 152.27 MAG DISS 3 Magnetite, Disseminated, Moderate												
		149.26 - 152.27 CB SP 2 Carbonatization, Along Shear Planes, Weak												
		149.26 - 152.27 CL PV 4 Chloritization, Pervasive, Strong												

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		149.26 - 152.27 Py DIS 0.5 Pyrite, Disseminated, 0.5%												
		Texture Maj: ***Type*** ***Comment***												
		149.26 - 152.27 LAM Laminated												
		149.26 - 152.27 BND Banded												
		Vein Maj. : ***Style/%vein/CoreA/%min/min*** ***Comment***												
		149.26 - 152.27 ANV 0.5 5 50 QCV Quartz-Calcite Vein, 50%												
		149.26 - 152.27 ANV 0.5 5 50 CBV Carbonate Vein, 50%, 5° CA												
152.27	153.14	**Fresh Rock** **QCV** ***Quartz-(Carbonate) Vein***	1	1	GG	108571	152.27	153.14	0.87	0	-	0.01	-	-
		Quartz-(Carbonate) Vein - composed of 80% to 85% quartz-carbonate veining with 15% to 20% carbonate>chlorite altered wallrock; veins are a mixture of quartz veins, quartz carb veins, and carbonate veins, and range from 20cm wide to 1cm wide; at least 2 generations of milky white qs xcutting qcv with banded/ribbon texture qcv with chl-cb and cb-chl bands; several of the veins are irregular, and only cut partway trhough the unit. For the sheared section of the unit, there is pervasive strong chl, and weak to moderate shear controlled carbonate. There is some yellowish ankerite carbonate in some of the veins, which may be ankerite. The shear part of the unit has highly contorted laminations, which in some cases show kink banding and folding. There is diffuse carbonate in bands and wisps through some of the shear planes, giving a mixed green and grey colour to the unit.												
		Mineralization - minor diss py and cpy < 0.5% with weak to moderate magnetics with magnetite replacement in wr and found as replacement seams in qcv; magnetite rimming the cpy												
		Contact - sharp iirreuglar contact 45 to 60 from C.A, averaging 55 from C.A.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		152.27 - 153.14 MAG DISS 2 Magnetite, Disseminated, Weak												
		152.27 - 153.14 CB BNDS 2 Carbonatization, Bands/Banded, Weak												
		152.27 - 153.14 CB SP 2 Carbonatization, Along Shear Planes, Weak												
		152.27 - 153.14 CL PV 4 Chloritization, Pervasive, Strong												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		152.27 - 153.14 Cpy DIS 0.1 Chalcopyrite, Disseminated, 0.1%												

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		152.27 - 153.14 Py DIS 0.2 Pyrite, Disseminated, 0.2%												
		Texture Maj: ***Type*** ***Comment***												
		152.27 - 153.14 LAM Laminated												
		152.27 - 153.14 BND Banded												
		Vein Maj. : ***Style/%vein/CoreA/%min/min*** ***Comment***												
		152.27 - 153.14 STWV 45 40 20 CBV Carbonate Vein, 20%												
		152.27 - 153.14 STWV 45 40 20 QV Quartz Vein, 20%												
		152.27 - 153.14 STWV 45 40 60 QCV Quartz-Calcite Vein, 60%, 40° CA												
153.14	158.00	**Fresh Rock** **SH** ***Shear/Shear Zone (Gabbro)***	1	1	GG	108573	153.14	154.50	1.36	0	-	0.01	-	-
						108574	154.50	156.00	1.50	0	-	0.01	-	-
						108575	156.00	157.00	1.00	0	-	0.01	-	-
						108576	157.00	158.00	1.00	0	-	0.01	-	-

Shear Zone (Gabbro) - above. There is pervasive moderate to strong chl, and weak to moderate shear controlled carbonate; up to 1% to 2% veining generally parallel to sh and up 5 cm wide and is a mixture of qtz carb and carb veining, strongly sheared 45 to 60 from C.A. with increasing core angles at depth; shearing is irregular in most places, showing folding and crenulations; looks to be some minor hematite alt in some of the carbonate, giving it a pink colour.

Mineralization - overall , 1% py and 1% scattered py in local 10 cm wide sections with trace specs of cpy. The py and cpy are all dissem as individual grains, sometimes clustered in close proximity; variable weak to moderate (locally strong) magnetite < 1% to 5% magnetite as per patchy magnetism

Contact - sharp contact with 6 cm wide qcs/qs

Alteration Maj:	***Type/Style/Intensity***	***Comment***
153.14 - 158.00	MAG DISS 2	Magnetite, Disseminated, Weak
153.14 - 158.00	CB MTV 3	Carbonatization, Marginal to veins, Moderate
153.14 - 158.00	CB SP 2	Carbonatization, Along Shear Planes, Weak
153.14 - 158.00	CL PV 4	Chloritization, Pervasive, Strong

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
153.14 - 156.00	Cpy DIS 0.1	Chalcopyrite, Disseminated, 0.1%
153.14 - 156.00	Py DIS 0.5	Pyrite, Disseminated, 0.5%
156.00 - 158.00	Py DIS 0.1	Pyrite, Disseminated, 0.1%

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)

Texture Maj:	Type	Comment
153.14 - 158.00	LAM	Laminated
153.14 - 158.00	BND	Banded

Vein Maj. :	Style/%vein/CoreA/%min/min	Comment
153.14 - 158.00	VN 5 40 40 QCV	Quartz-Calcite Vein, 40%
153.14 - 158.00	VN 5 40 60 CBV	Carbonate Vein, 60%, 40° CA

158.00	166.70	**Fresh Rock**	**8C**	***Tonalite/Trondjhemite (Quartz Porphyry***	1	1	RE	108577	158.00	159.50	1.50	0	-	0.01	-	-
								108578	166.00	166.70	0.70	0	-	0.01	-	-

Tonalite/Trondjhemite (Quartz Porphyry) - red colour. Spotty/patchy hem alt (wk-mod) and weakly sil and spotty sericite; 20% to 305 quartz-eyes in hem-chl altered matrix with patchy 1% to 2% magnetite (weak to mod). There is some carb on fracture, and some interstitial sericite, both weak. There is qtz carb veining, <1%. Mineralization consists of trace py.

Alteration Maj:	Type/Style/Intensity	Comment
158.00 - 159.00	BIO DISS 2	Biotitization, Disseminated, Weak
158.00 - 159.00	CL DISS 2	Chloritization, Disseminated, Weak
158.00 - 159.00	SI SPT 2	Silicification, Spotty/Patchy, Weak
158.00 - 159.00	HM SPT 4	Hematization, Spotty/Patchy, Strong
159.00 - 166.70	BIO DISS 2	Biotitization, Disseminated, Weak
159.00 - 166.70	CL DISS 2	Chloritization, Disseminated, Weak
159.00 - 166.70	SI SPT 2	Silicification, Spotty/Patchy, Weak
159.00 - 166.70	HM SPT 2	Hematization, Spotty/Patchy, Weak

Mineralization Maj. :	Type/Style/%Mineral	Comment
158.00 - 159.00	Py DIS 0.1	Pyrite, Disseminated, 0.1%
158.00 - 159.00	Py FAC 0.5	Pyrite, Fracture-controlled, 0.5%
159.00 - 166.70	Py DIS 0.1	Pyrite, Disseminated, 0.1%

Texture Maj:	Type	Comment

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From (m)	To (m)		Lithology		Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		158.00 - 166.70	MAS	Massive												
		158.00 - 166.70	MG	Medium Grained(1-5mm)												
		Vein Maj. :	***Style/%vein/CoreA/%min/min***	***Comment***												
		158.00 - 166.70	VN 0.5 35 60 QCV	Quartz-Calcite Vein, 60%												
		158.00 - 166.70	VN 0.5 35 40 CBV	Carbonate Vein, 40%, 35° CA												
166.70	167.60	**Fresh Rock**	**14B** ***Fine-grained Diabase dykes***		1	1	BLK	108579	166.70	167.60	0.90	0	-	0.01	-	-
		fine grained/aphanitic black diabase. Chl alt on fractures, carb alt diss throughout. Highly fractured. There is 2% carb veining with some minor hem alt in the veins. There is a small section of fractured tonalite near the end of the unit, it is at least 4cm wide, but the true width cannot be determined due to the high degree of fracturing. The alt of this is the same as the above tonalite. There is negligible mineralization. Pervasive weak magnetism.														
		Alteration Maj:	***Type/Style/Intensity***	***Comment***												
		166.70 - 167.60	HM MTV 1	Hematization, Marginal to veins, Very weak												
		166.70 - 167.60	CL FRC 1	Chloritization, Along Fractures, Very weak												
		166.70 - 167.60	CB DISS 2	Carbonatization, Disseminated, Weak												
		Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***												
		166.70 - 167.60	Py DIS 0.1	Pyrite, Disseminated, 0.1%												
		Texture Maj:	***Type***	***Comment***												
		166.70 - 167.60	AP	Aphanitic												
		Vein Maj. :	***Style/%vein/CoreA/%min/min***	***Comment***												
		166.70 - 167.60	VN 2 60 100 CBV	Carbonate Vein, 100%, 60° CA												

Hole Number: **WAT16-04** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
167.60	195.84	**Fresh Rock** **8C** ***Tonalite/Trondjhemite***	1	1	GY

massive tonalite, reddish grey colour. Alt is similar to the end part of the above tonalite, with patchy weak hem alt, patchy to pervasive weak sil, diss chl/bt, and ser on fractures and netted in patches. There is patchy very weak magnetite in some of the chl/bt. There are some carb altered fractures, and no veining. Mineralization consists of <0.5% py.
The magnetite seems to be less prevalent to entirely absent where there is increased silicification. There is a small diabase dykelet from 185.7-185.76, with no magnetism. Carb alt on fractures, and fg py blebs throughout.

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
108580	167.60	169.03	1.43	0	-	0.01	-	-
108581	169.03	170.00	0.97	0	-	0.01	-	-
108582	175.00	176.50	1.50	0	-	0.01	-	-
108583	182.16	183.50	1.34	0	-	0.01	-	-
108585	194.33	195.84	1.51	0	-	0.01	-	-

Alteration Maj:	Type/Style/Intensity	Comment
167.60 - 169.00	CL DISS 2	Chloritization, Disseminated, Weak
167.60 - 169.00	HM SPT 2	Hematization, Spotty/Patchy, Weak
167.60 - 169.00	BIO DISS 2	Biotitization, Disseminated, Weak
169.00 - 174.50	CL DISS 1	Chloritization, Disseminated, Very weak
169.00 - 174.50	BIO DISS 1	Biotitization, Disseminated, Very weak
169.00 - 174.50	SR SPT 2	Sericitization, Spotty/Patchy, Weak
174.50 - 175.20	BIO DISS 1	Biotitization, Disseminated, Very weak
174.50 - 175.20	SI SPT 1	Silicification, Spotty/Patchy, Very weak
174.50 - 175.20	CL DISS 1	Chloritization, Disseminated, Very weak
174.50 - 175.20	SR SPT 1	Sericitization, Spotty/Patchy, Very weak
175.20 - 182.16	SR SPT 3	Sericitization, Spotty/Patchy, Moderate
175.20 - 182.16	CL DISS 2	Chloritization, Disseminated, Weak
175.20 - 182.16	SI PV 1	Silicification, Pervasive, Very weak
175.20 - 182.16	HM SPT 2	Hematization, Spotty/Patchy, Weak
182.16 - 183.70	CB DISS 3	Carbonatization, Disseminated, Moderate
182.16 - 183.70	CL DISS 2	Chloritization, Disseminated, Weak
182.16 - 183.70	SR IS 3	Sericitization, Interstitial, Moderate
183.70 - 187.70	CL DISS 2	Chloritization, Disseminated, Weak

Hole Number: **WAT16-04** Project: **TAAC** Project Number: **251**

From (m)	To (m)		Lithology	Weathering Oxidation Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		183.70 - 187.70	BIO DISS 2	Biotitization, Disseminated, Weak									
		183.70 - 187.70	CB FRC 2	Carbonatization, Along Fractures, Weak									
		183.70 - 187.70	SR SPT 2	Sericitization, Spotty/Patchy, Weak									
		187.70 - 190.95	HM SPT 2	Hematization, Spotty/Patchy, Weak									
		187.70 - 190.95	CL DISS 2	Chloritization, Disseminated, Weak									
		187.70 - 190.95	CB FRC 2	Carbonatization, Along Fractures, Weak									
		187.70 - 190.95	BIO DISS 2	Biotitization, Disseminated, Weak									
		190.95 - 194.27	CB FRC 2	Carbonatization, Along Fractures, Weak									
		190.95 - 194.27	HM PV 3	Hematization, Pervasive, Moderate									
		190.95 - 194.27	BIO DISS 2	Biotitization, Disseminated, Weak									
		190.95 - 194.27	CL DISS 2	Chloritization, Disseminated, Weak									
		194.27 - 195.84	CL DISS 2	Chloritization, Disseminated, Weak									
		194.27 - 195.84	HM SPT 3	Hematization, Spotty/Patchy, Moderate									
		194.27 - 195.84	CB FRC 1	Carbonatization, Along Fractures, Very weak									
		194.27 - 195.84	BIO DISS 2	Biotitization, Disseminated, Weak									
		Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***									
		167.60 - 181.74	Py DIS 0.1	Pyrite, Disseminated, 0.1%									
		181.74 - 186.00	Py DIS 0.5	Pyrite, Disseminated, 0.5%									
		186.00 - 195.84	Py DIS 0.1	Pyrite, Disseminated, 0.1%									
		Texture Maj:	***Type***	***Comment***									
		167.60 - 182.16	MG	Medium Grained(1-5mm)									
		167.60 - 182.16	MAS	Massive									
		182.16 - 183.70	NET	Net Textured									
		183.70 - 195.84	MG	Medium Grained(1-5mm)									
		183.70 - 195.84	MAS	Massive									

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
Minor Interval:														
185.70	185.76	Fresh Rock 14B *Fine-grained Diabase dykes*		1										
		small diabase dyke. Chilling gives it a grey colour. No magnetism. Fg py in blebs through it. Carb alt on fractures.												
		Alteration Min: ***Type/Style/Intensity*** ***Comment***												
		185.70 - 185.76 CB FRC 1 Carbonatization, Along Fractures, Ver												
		Mineralization Min: ***Type/Style/%Mineral*** ***Comment***												
		185.70 - 185.76 Py BLB 5 Pyrite, Blebs, 5%												
195.84	196.25	**Fresh Rock 7C *Gabbro***	1	1	DGR	108586	195.84	196.25	0.41	0	-	0.01	-	-
		sheared gabbro dyke. Pervasive weak chl alt. carb alt on shear planesweak to very weak. Fg py diss, 2-3%. The py is focused near the end of the unit in pockets of disseminated grains. There are some fractures/stringers of carbonate near the upper contact. There is no veining.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		195.84 - 196.25 CB SP 2 Carbonatization, Along Shear Planes, Weak												
		195.84 - 196.25 CL PV 2 Chloritization, Pervasive, Weak												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		195.84 - 196.25 Py DIS 2 Pyrite, Disseminated, 2%												
		Texture Maj: ***Type*** ***Comment***												
		195.84 - 196.25 FG Fine Grained (<1mm)												
		195.84 - 196.25 LAM Laminated												
196.25	202.55	**Fresh Rock 8C *Tonalite/Trondjhemite***	1	1	RE	108587	196.25	197.50	1.25	0	-	0.01	-	-
		tonalite as above tonalite unit. Reddish colour with grey sections. Pervasive hem alt at start ranging from weak to moderate. There is diss chl/bt throughout, with disseminated magnetite in the clots of chl/bt, giving patchy weak magnetism. There are several small qtz veins and qtz carb veins, up to 3-5%. There is				108588	201.50	202.55	1.05	0	-	0.01	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		negligible mineralization.												
		Alteration Maj:	***Type/Style/Intensity***	***Comment***										
		196.25 - 202.55	CB FRC 2	Carbonatization, Along Fractures, Weak										
		196.25 - 202.55	BIO DISS 2	Biotitization, Disseminated, Weak										
		196.25 - 202.55	CL DISS 2	Chloritization, Disseminated, Weak										
		196.25 - 202.55	HM PV 3	Hematization, Pervasive, Moderate										
		Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***										
		196.25 - 202.55	Py DIS 0.1	Pyrite, Disseminated, 0.1%										
		Texture Maj:	***Type***	***Comment***										
		196.25 - 202.55	MG	Medium Grained(1-5mm)										
		196.25 - 202.55	MAS	Massive										
		Vein Maj. :	***Style/%vein/CoreA/%min/min***	***Comment***										
		196.25 - 202.55	VN 3 30 50 CBV	Carbonate Vein, 50%										
		196.25 - 202.55	VN 3 30 50 QCV	Quartz-Calcite Vein, 50%, 30° CA										
202.55	203.63	**Fresh Rock** **7E** ***Lamprophyre Dikes-Sills***	1	1	RE	108589	202.55	203.63	1.08	0	-	0.01	-	-
		lamprophyre dyke with pervasive hem alt. alt gives a red to red brown colour. There is weak to moderate diss carb alt, with many fractures also filled with carb alt. there are large biotite phenocrysts throughout the unit, ranging from 2-4mm long. There is fg py diss throughout the unit, 3-4%. There is a small fragment of tonalite at 203.42-203.46m. This has alt as above. Patchy weak magnetism.													
		Alteration Maj:	***Type/Style/Intensity***	***Comment***										
		202.55 - 203.63	CB FRC 3	Carbonatization, Along Fractures, Moderate										
		202.55 - 203.63	CB DISS 3	Carbonatization, Disseminated, Moderate										
		202.55 - 203.63	HM PV 4	Hematization, Pervasive, Strong										
		Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***										
		202.55 - 203.63	Py DIS 3	Pyrite, Disseminated, 3%										

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Texture Maj: ***Type*** ***Comment***												
		202.55 - 203.63 FG Fine Grained (<1mm)												
		Vein Maj. : ***Style/%vein/CoreA/%min/min*** ***Comment***												
		202.55 - 203.63 VN 4 40 100 CBV Carbonate Vein, 100%, 40° CA												
203.63	220.54	**Fresh Rock** **8C** ***Tonalite/Trondjhemite***	1	1	PI	108590	203.63	205.00	1.37	0	-	0.01	-	-
		pink-grey tonalite, as above unit. Patchy weak to very weak hematite alt. There is weak to moderate diss chl/bt throughout surrounding blueish to grey qtz grains. In the moderate chl/bt areas, there are much fewer feldspar grains visible. The chl/bt is also present on fractures, and this causes some areas of the core to be much darker in colour, obscuring other alterations. Towards the end of the unit, the hematite becomes more spotty, with only some feldspars being altered, giving the rock the appearance of primarily grey colour with pink flecks and some zones. There are several carb filled fractures and qtz carb veinlets, although the carbonate alt is very weak to weak, and does not react strongly to acid. These fractures occassionally occur in similar orientations, but most often are irregularly oriented. There is 1-2% qtz carb veining overall. Mineralization consists primarily of trace py, with some areas having veins of py visible, up to 5-10% locally.				108591	209.53	211.00	1.47	0	-	0.01	-	-
						108592	211.00	212.00	1.00	0	-	0.01	-	-
						108593	215.30	216.77	1.47	0	-	0.01	-	-
						108594	216.77	218.00	1.23	0	-	0.01	-	-
						108595	219.00	220.54	1.54	0	-	0.01	-	-
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		203.63 - 204.95 CB FRC 1 Carbonatization, Along Fractures, Very weak												
		203.63 - 204.95 BIO DISS 2 Biotitization, Disseminated, Weak												
		203.63 - 204.95 HM SPT 3 Hematization, Spotty/Patchy, Moderate												
		203.63 - 204.95 CL DISS 2 Chloritization, Disseminated, Weak												
		204.95 - 206.15 HM SPT 1 Hematization, Spotty/Patchy, Very weak												
		204.95 - 206.15 CL DISS 1 Chloritization, Disseminated, Very weak												
		204.95 - 206.15 CL FRC 1 Chloritization, Along Fractures, Very weak												
		204.95 - 206.15 BIO DISS 1 Biotitization, Disseminated, Very weak												
		206.15 - 210.09 BIO DISS 2 Biotitization, Disseminated, Weak												
		206.15 - 210.09 CL DISS 2 Chloritization, Disseminated, Weak												
		206.15 - 210.09 CL FRC 3 Chloritization, Along Fractures, Moderate												

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From (m)	To (m)		Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		206.15 - 210.09	HM SPT 2	Hematization, Spotty/Patchy, Weak											
		210.09 - 210.75	CL DISS 3	Chloritization, Disseminated, Moderate											
		210.09 - 210.75	BIO DISS 2	Biotitization, Disseminated, Weak											
		210.09 - 210.75	HM SPT 2	Hematization, Spotty/Patchy, Weak											
		210.09 - 210.75	CL FRC 3	Chloritization, Along Fractures, Moderate											
		210.75 - 215.30	HM SPT 2	Hematization, Spotty/Patchy, Weak											
		210.75 - 215.30	CL DISS 2	Chloritization, Disseminated, Weak											
		210.75 - 215.30	CL FRC 2	Chloritization, Along Fractures, Weak											
		210.75 - 215.30	BIO DISS 2	Biotitization, Disseminated, Weak											
		215.30 - 217.25	HM SPT 1	Hematization, Spotty/Patchy, Very weak											
		215.30 - 217.25	CL DISS 3	Chloritization, Disseminated, Moderate											
		215.30 - 217.25	BIO DISS 2	Biotitization, Disseminated, Weak											
		215.30 - 217.25	CL FRC 3	Chloritization, Along Fractures, Moderate											
		217.25 - 220.54	HM SPT 2	Hematization, Spotty/Patchy, Weak											
		217.25 - 220.54	CL FRC 3	Chloritization, Along Fractures, Moderate											
		217.25 - 220.54	BIO DISS 2	Biotitization, Disseminated, Weak											
		217.25 - 220.54	CL DISS 2	Chloritization, Disseminated, Weak											

Mineralization Maj. :	Type/Style/%Mineral	Comment
203.63 - 210.00	Py DIS 0.25	Pyrite, Disseminated, 0.25%
210.00 - 211.40	Py DIS 1	Pyrite, Disseminated, 1%
211.40 - 215.30	Py DIS 0.1	Pyrite, Disseminated, 0.1%
215.30 - 216.45	Py DIS 0.5	Pyrite, Disseminated, 0.5%
215.30 - 216.45	Py BNDS 2.5	Pyrite, Bands, 2.5%
216.45 - 220.54	Py DIS 0.15	Pyrite, Disseminated, 0.15%

Texture Maj:	Type	Comment

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		203.63 - 220.54 MG Medium Grained(1-5mm)												
		203.63 - 220.54 MAS Massive												
		Vein Maj. : ***Style/%vein/CoreA/%min/min*** ***Comment***												
		203.63 - 220.54 VN 0.5 50 60 CBV Carbonate Vein, 60%												
		203.63 - 220.54 VN 0.5 50 40 QCV Quartz-Calcite Vein, 40%, 50° CA												
220.54	221.57	**Fresh Rock** **7C** ***Gabbro***	1	1	DGR	108597	220.54	221.57	1.03	0	-	0.01	-	-
		sheared gabbro dyke. Dark green colour, with white flecks and white fractures. The unit is foliated with a consistent foliation at approx 25 deg to CA. Pervasive mod chl alt. dis mod chl alt. the upper contact of the unit shows a chill margin and is at a steeper angle (45) than the lower contact (25). There are several small qtz veins cutting through the unit, however some of these do not go all the way through and are irregular. There is tr to 0.5% py												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		220.54 - 221.57 HM SPT 1 Hematization, Spotty/Patchy, Very weak												
		220.54 - 221.57 CB FRC 2 Carbonatization, Along Fractures, Weak												
		220.54 - 221.57 CB DISS 3 Carbonatization, Disseminated, Moderate												
		220.54 - 221.57 CL PV 3 Chloritization, Pervasive, Moderate												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		220.54 - 221.57 Py DIS 0.5 Pyrite, Disseminated, 0.5%												
		Texture Maj: ***Type*** ***Comment***												
		220.54 - 221.57 LAM Laminated												
		220.54 - 221.57 FG Fine Grained (<1mm)												
		Vein Maj. : ***Style/%vein/CoreA/%min/min*** ***Comment***												
		220.54 - 221.57 8 60 QCV Quartz-Calcite Vein, 60%												
		220.54 - 221.57 8 40 QV Quartz Vein, 40%												

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
221.57	242.83	**Fresh Rock** **8C** ***Tonalite/Trondjhemite***	1	1	GY

grey to pink grey tonalite. Patchy weak to very weak hem alt. weak to mod chl/bt diss and on fractures. Fg magnetite in the chl/bt gives weak to moderate patchy magnetism. Massive texture, medium grained. There are small carb filled fractures throughout. The carb ranges from very weak to moderate in some fractures. Some areas have a higher proportion of chloritized fractures and have a darker greenish black appearance. There is 1-5% qcv/cbv. Mineralization consists of fg diss trace to 0.25% py.
There is a small inclusion from 231.15-231.2m 235.64-235.68m, highly chloritized, black colour.
Small fragment from 240.2-240.25, qfp. Hem alt pervasive, carb mod on fractures.
At 231.75m there is a qtz vein cut by a second qtz vein. The second qtz vein is running irregularly

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
108598	221.57	223.00	1.43	0	-	0.01	-	-
108599	230.57	232.05	1.48	0	-	0.01	-	-
108600	242.00	242.80	0.80	0	-	0.01	-	-

Alteration Maj:	Type/Style/Intensity	Comment
221.57 - 222.15	CL DISS 2	Chloritization, Disseminated, Weak
221.57 - 222.15	BIO DISS 2	Biotitization, Disseminated, Weak
221.57 - 222.15	CB FRC 1	Carbonatization, Along Fractures, Very weak
221.57 - 222.15	HM SPT 1	Hematization, Spotty/Patchy, Very weak
222.15 - 230.20	HM SPT 2	Hematization, Spotty/Patchy, Weak
222.15 - 230.20	BIO DISS 2	Biotitization, Disseminated, Weak
222.15 - 230.20	CL DISS 2	Chloritization, Disseminated, Weak
222.15 - 230.20	CB FRC 1	Carbonatization, Along Fractures, Very weak
230.20 - 233.36	CL DISS 3	Chloritization, Disseminated, Moderate
230.20 - 233.36	BIO DISS 3	Biotitization, Disseminated, Moderate
230.20 - 233.36	CL FRC 3	Chloritization, Along Fractures, Moderate
230.20 - 233.36	CB FRC 1	Carbonatization, Along Fractures, Very weak
233.36 - 242.83	CL FRC 3	Chloritization, Along Fractures, Moderate
233.36 - 242.83	HM SPT 2	Hematization, Spotty/Patchy, Weak
233.36 - 242.83	BIO DISS 2	Biotitization, Disseminated, Weak
233.36 - 242.83	CL DISS 2	Chloritization, Disseminated, Weak

Mineralization Maj. :	Type/Style/%Mineral	Comment
221.57 - 232.00	Py DIS 0.1	Pyrite, Disseminated, 0.1%

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From (m)	To (m)		Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		232.00 - 233.00	Py FAC 0.1	Pyrite, Fracture-controlled, 0.1%											
		232.00 - 233.00	Py DIS 0.1	Pyrite, Disseminated, 0.1%											
		233.00 - 242.83	Py DIS 0.1	Pyrite, Disseminated, 0.1%											
		Texture Maj:	***Type***	***Comment***											
		221.57 - 242.83	MG	Medium Grained(1-5mm)											
		221.57 - 242.83	MAS	Massive											
		Vein Maj. :	***Style/%vein/CoreA/%min/min***	***Comment***											
		221.57 - 242.83	VN 1 70 20 CBV	Carbonate Vein, 20%											
		221.57 - 242.83	VN 1 70 30 QCV	Quartz-Calcite Vein, 30%											
		221.57 - 242.83	VN 1 70 50 QV	Quartz Vein, 50%, 70° CA											
242.83	243.47	**Fresh Rock**	**8H** ***Quartz-Feldspar Porphyry***		1	1 RE	108601	242.80	243.47	0.67	0	-	0.01	-	-
		red qfp. Porphyritic texture, quartz phenocrysts are 2-4mm wide, while feldspars are 1-3mm wide. Aphanitic groundmass. Pervasive strong hem alt in the groundmass. Some of the feldspar phenos show hem alt. carb alt fractures throughout, moderate intensity. There is some small diss bio flecks and chl on fractures. There is no veining. Mineralization consists of trace to 0.5% diss py.													
		Alteration Maj:	***Type/Style/Intensity***	***Comment***											
		242.83 - 243.47	BIO DISS 1	Biotitization, Disseminated, Very weak											
		242.83 - 243.47	CB FRC 3	Carbonatization, Along Fractures, Moderate											
		242.83 - 243.47	HM PV 4	Hematization, Pervasive, Strong											
		Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***											
		242.83 - 243.47	Py DIS 0.1	Pyrite, Disseminated, 0.1%											
		Texture Maj:	***Type***	***Comment***											
		242.83 - 243.47	AP	Aphanitic											
		242.83 - 243.47	PO	Porphyritic											

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
243.47	244.49	**Fresh Rock** **8C** ***Tonalite/Trondjhemite***	1	1	PI	108602	243.47	244.49	1.02	0	-	0.01	-	-

Pinkish grey tonalite. Massive mg texture. Weak spotty hem alt. hem alt is focused in the feldspar grains. There is very weak carb alt on fractures. There is mod chl/bt in diss throughout, stronger in some patches. There is no veining, and mineralization is trace to 0.5% py.
Some fractures with chl/bt on them are closer together giving the core a darker appearance in patches. There is a minor inclusion at 244.05, 3cm long.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
243.47 - 244.49	CB FRC 2	Carbonatization, Along Fractures, Weak
243.47 - 244.49	BIO DISS 3	Biotitization, Disseminated, Moderate
243.47 - 244.49	CL DISS 3	Chloritization, Disseminated, Moderate
243.47 - 244.49	HM SPT 2	Hematization, Spotty/Patchy, Weak

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
243.47 - 244.49	Py DIS 0.1	Pyrite, Disseminated, 0.1%

Texture Maj:	***Type***	***Comment***
243.47 - 244.49	MG	Medium Grained(1-5mm)
243.47 - 244.49	MAS	Massive

244.49	256.00	**Fresh Rock** **14B** ***Fine-grained Diabase dykes***	1	1	BLK	108603	244.49	245.50	1.01	0	-	0.01	-	-
						108604	255.00	256.00	1.00	0	-	0.01	-	-

Fine grained diabase. There are large (2cm to 5cm wide) epidote altered feldspar phenocrysts near the start of the unit. Black colour. Green epidote alt on some fractures, in phenocrysts, and around some carb veins. There is mod to strong carb alt on fractures, with mod carb alt diss around some veins. Minor weak hem alt is seen on some fractures near the carb veins. Unit is pervasively moderately magnetic with the exception of the contacts.
There is 1-3% cbv. Tr dis py.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
244.49 - 256.00	CB FRC 3	Carbonatization, Along Fractures, Moderate
244.49 - 256.00	EP MTV 3	Epidotization, Marginal to veins, Moderate

From (m)	To (m)		Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		244.49 - 256.00	EP FRC 4	Epidotization, Along Fractures, Strong											
		244.49 - 256.00	EP AFG 5	Epidotization, Alteration of feldspar grains, Intense											
		Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***											
		244.49 - 256.00	Py DIS 0.1	Pyrite, Disseminated, 0.1%											
		Texture Maj:	***Type***	***Comment***											
		244.49 - 256.00	AP	Aphanitic											
		Vein Maj. :	***Style/%vein/CoreA/%min/min***	***Comment***											
		244.49 - 256.00	VN 2 25 100 CBV	Carbonate Vein, 100%, 25° CA											
256.00	263.28	**Fresh Rock**	**8C** ***Tonalite/Trondjhemite***	1	1	GY	108605	256.00	257.50	1.50	0	-	0.01	-	-
		Pink to grey tonalite. Patchy hem alt near start gives pink to red colour. This fades farther down the core, leaving a dark grey colour. There is diss chl/bt throughout, getting more prevalent down core. This gives the core a dark grey colour where the diss chl/bt and the fracture controlled chl/bt become more prevalent. There are weak carb alt fractures. Ther eis 1-3% qtz carb and carb veining. Mineralization consists of tr py. There is patchy weak magnetism from diss magnetite in the chl/bt.					108606	262.00	263.28	1.28	0	-	0.01	-	-
		Alteration Maj:	***Type/Style/Intensity***	***Comment***											
		256.00 - 258.19	CB FRC 3	Carbonatization, Along Fractures, Moderate											
		256.00 - 258.19	BIO DISS 2	Biotitization, Disseminated, Weak											
		256.00 - 258.19	CL DISS 2	Chloritization, Disseminated, Weak											
		256.00 - 258.19	HM SPT 3	Hematization, Spotty/Patchy, Moderate											
		258.19 - 263.28	CB FRC 3	Carbonatization, Along Fractures, Moderate											
		258.19 - 263.28	CL FRC 3	Chloritization, Along Fractures, Moderate											
		258.19 - 263.28	BIO DISS 3	Biotitization, Disseminated, Moderate											
		258.19 - 263.28	CL DISS 3	Chloritization, Disseminated, Moderate											
		Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***											
		256.00 - 263.28	Py DIS 0.25	Pyrite, Disseminated, 0.25%											

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Texture Maj: ***Type*** ***Comment***												
		256.00 - 263.28 MG Medium Grained(1-5mm)												
		256.00 - 263.28 MAS Massive												
		Vein Maj. : ***Style/%vein/CoreA/%min/min*** ***Comment***												
		256.00 - 263.28 VN 1 35 50 QCV Quartz-Calcite Vein, 50%												
		256.00 - 263.28 VN 1 35 50 CBV Carbonate Vein, 50%, 35° CA												
263.28	263.95	**Fresh Rock** **8H** ***Quartz-Feldspar Porphyry***	1	1	GY	108607	263.28	263.95	0.67	0	-	0.01	-	-
		Greyish quartz feldspar porphyry. The phenocrysts are somewhat obscured, with the feldspars blending in with the groundmass due to hematite alteration. There is chl alt on fractures and diss. Weak carb alt on fractures. Pervasive weak hem through groundmass. There is no veining. There is negligible mineralization. Patchy weak magnetism.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		263.28 - 263.95 CL FRC 2 Chloritization, Along Fractures, Weak												
		263.28 - 263.95 CB FRC 2 Carbonatization, Along Fractures, Weak												
		263.28 - 263.95 CL DISS 2 Chloritization, Disseminated, Weak												
		263.28 - 263.95 HM PV 2 Hematization, Pervasive, Weak												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		263.28 - 263.95 Py DIS 0.1 Pyrite, Disseminated, 0.1%												
		Texture Maj: ***Type*** ***Comment***												
		263.28 - 263.95 PO Porphyritic												

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
263.95	319.73	**Fresh Rock** **8C** ***Tonalite/Trondjhemite***	1	1	GY

Grey to pinkish grey tonalite. There is patchy hematite alt throughout, ranging from very weak to moderate. There is diss chl/bt throughout, weak to mod intensity. There are some patches of core where sericite is more prominent. Additionally around some isolated fractures there appears to be sodic/silicic alteration, bleaching the core and removing the chl/bt which is present elswhere.
There is weak magnetism in patches throughout, focused in the chl/bt disseminated grains. From 274m on, there are several qtz veins with carb blebs scattered throughout them. They make up approx 2-3% overall. Mineralization is composed of tr-0.5% py diss.
From 290 to end of unit, there is increasing chl/bt alt, in some places being moderate or strong in intensity. This leads to a darkening of the core. There are still areas where hematite alt is prevalent, ranging from isolated hem alt grains to patchy to locally pervasive hem alt, with the intensity ranging from very weak to moderate. This leads to spots of the core having a pink tinge. The final alteration which is prevalent throughout is carbonate alt. this alteration shows as fractures for the most part, but also is disseminated in areas. This gives the core a much lighter appearance, ranging from a light green grey to medium grey. There is very little veining after 299 m (<1%).

From 304.36-304.52 there is a zone of higher chl alt, and a strongere foliation. Not quite a shear as primary texture still shows, but the oervasive chl shows the foliation strongly. There is pervasive carb diss within the chl. There are no feldspar grains visibl, only the relic qtz grains.

There is a small 2cm fragment from 301.15m.

Some wk diss lcx, light grey colour.

Alteration Maj:	Type/Style/Intensity	Comment
263.95 - 270.50	CL DISS 2	Chloritization, Disseminated, Weak
263.95 - 270.50	HM SPT 2	Hematization, Spotty/Patchy, Weak
263.95 - 270.50	BIO DISS 2	Biotitization, Disseminated, Weak
263.95 - 270.50	CB FRC 1	Carbonatization, Along Fractures, Very weak
270.50 - 272.20	CL DISS 2	Chloritization, Disseminated, Weak
270.50 - 272.20	BIO DISS 2	Biotitization, Disseminated, Weak
270.50 - 272.20	SR DISS 3	Sericitization, Disseminated, Moderate
270.50 - 272.20	CB FRC 2	Carbonatization, Along Fractures, Weak
272.20 - 273.40	BIO DISS 2	Biotitization, Disseminated, Weak

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
108608	263.95	265.00	1.05	0	-	0.01	-	-
108609	270.50	272.20	1.70	0	-	0.01	-	-
108610	272.20	273.00	0.80	0	-	0.01	-	-
108611	273.00	274.50	1.50	1	-	0.55	-	-
108613	274.50	276.00	1.50	0	-	0.01	-	-
108614	286.00	287.50	1.50	0	-	0.01	-	-
108615	291.23	291.90	0.67	0	-	0.01	-	-
108616	297.00	298.50	1.50	0	-	0.01	-	-
108617	304.36	305.50	1.14	0	-	0.01	-	-
108618	310.00	311.00	1.00	0	-	0.01	-	-
108619	317.00	318.30	1.30	0	-	0.01	-	-
108620	318.30	319.73	1.43	0	-	0.01	-	-

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From (m)	To (m)	Lithology	Weathering Oxidation Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
	272.20 - 273.40	CL DISS 2	Chloritization, Disseminated, Weak									
	272.20 - 273.40	HM SPT 2	Hematization, Spotty/Patchy, Weak									
	272.20 - 273.40	CB FRC 1	Carbonatization, Along Fractures, Very weak									
	273.40 - 274.90	BIO DISS 3	Biotitization, Disseminated, Moderate									
	273.40 - 274.90	CB FRC 2	Carbonatization, Along Fractures, Weak									
	273.40 - 274.90	CL DISS 3	Chloritization, Disseminated, Moderate									
	273.40 - 274.90	CL FRC 3	Chloritization, Along Fractures, Moderate									
	274.90 - 282.75	CB FRC 2	Carbonatization, Along Fractures, Weak									
	274.90 - 282.75	CL DISS 2	Chloritization, Disseminated, Weak									
	274.90 - 282.75	HM SPT 1	Hematization, Spotty/Patchy, Very weak									
	274.90 - 282.75	BIO DISS 2	Biotitization, Disseminated, Weak									
	282.75 - 283.00	SI FRC 3	Silicification, Along Fractures, Moderate									
	282.75 - 283.00	CL DISS 1	Chloritization, Disseminated, Very weak									
	282.75 - 283.00	BIO DISS 1	Biotitization, Disseminated, Very weak									
	282.75 - 283.00	AB FRC 3	Albitization, Along Fractures, Moderate									
	283.00 - 291.23	BIO DISS 3	Biotitization, Disseminated, Moderate									
	283.00 - 291.23	CB FRC 1	Carbonatization, Along Fractures, Very weak									
	283.00 - 291.23	HM SPT 1	Hematization, Spotty/Patchy, Very weak									
	283.00 - 291.23	CL DISS 3	Chloritization, Disseminated, Moderate									
	291.23 - 291.90	SR DISS 2	Sericitization, Disseminated, Weak									
	291.23 - 291.90	BIO DISS 4	Biotitization, Disseminated, Strong									
	291.23 - 291.90	CL DISS 4	Chloritization, Disseminated, Strong									
	291.23 - 291.90	CB FRC 1	Carbonatization, Along Fractures, Very weak									
	291.90 - 297.64	CL DISS 3	Chloritization, Disseminated, Moderate									

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From (m)	To (m)	Lithology	Weathering Oxidation Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
	291.90 - 297.64	BIO DISS 3	Biotitization, Disseminated, Moderate									
	291.90 - 297.64	CB DISS 3	Carbonatization, Disseminated, Moderate									
	291.90 - 297.64	HM SPT 1	Hematization, Spotty/Patchy, Very weak									
	297.64 - 298.56	HM SPT 3	Hematization, Spotty/Patchy, Moderate									
	297.64 - 298.56	CL DISS 2	Chloritization, Disseminated, Weak									
	297.64 - 298.56	BIO DISS 2	Biotitization, Disseminated, Weak									
	297.64 - 298.56	CB DISS 2	Carbonatization, Disseminated, Weak									
	298.56 - 301.43	BIO DISS 2	Biotitization, Disseminated, Weak									
	298.56 - 301.43	CB DISS 1	Carbonatization, Disseminated, Very weak									
	298.56 - 301.43	HM SPT 1	Hematization, Spotty/Patchy, Very weak									
	298.56 - 301.43	CL DISS 2	Chloritization, Disseminated, Weak									
	301.43 - 304.36	CL DISS 3	Chloritization, Disseminated, Moderate									
	301.43 - 304.36	CB FRC 2	Carbonatization, Along Fractures, Weak									
	301.43 - 304.36	BIO DISS 2	Biotitization, Disseminated, Weak									
	301.43 - 304.36	CB DISS 2	Carbonatization, Disseminated, Weak									
	304.36 - 304.52	CL FRC 3	Chloritization, Along Fractures, Moderate									
	304.36 - 304.52	CL PV 2	Chloritization, Pervasive, Weak									
	304.36 - 304.52	CB DISS 4	Carbonatization, Disseminated, Strong									
	304.52 - 307.79	BIO DISS 3	Biotitization, Disseminated, Moderate									
	304.52 - 307.79	CL DISS 3	Chloritization, Disseminated, Moderate									
	304.52 - 307.79	CB DISS 2	Carbonatization, Disseminated, Weak									
	304.52 - 307.79	CL FRC 3	Chloritization, Along Fractures, Moderate									
	307.79 - 310.05	MAG DISS 2	Magnetite, Disseminated, Weak									
	307.79 - 310.05	CL FRC 3	Chloritization, Along Fractures, Moderate									

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From (m)	To (m)		Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		307.79 - 310.05	CL DISS 2			Chloritization, Disseminated, Weak									
		307.79 - 310.05	BIO DISS 2			Biotitization, Disseminated, Weak									
		310.05 - 312.20	CL DISS 2			Chloritization, Disseminated, Weak									
		310.05 - 312.20	CL FRC 3			Chloritization, Along Fractures, Moderate									
		310.05 - 312.20	BIO DISS 2			Biotitization, Disseminated, Weak									
		310.05 - 312.20	CB FRC 3			Carbonatization, Along Fractures, Moderate									
		312.20 - 313.10	CL DISS 4			Chloritization, Disseminated, Strong									
		312.20 - 313.10	CL FRC 4			Chloritization, Along Fractures, Strong									
		312.20 - 313.10	CB DISS 4			Carbonatization, Disseminated, Strong									
		312.20 - 313.10	BIO DISS 4			Biotitization, Disseminated, Strong									
		313.10 - 313.77	HM SPT 1			Hematization, Spotty/Patchy, Very weak									
		313.10 - 313.77	CL DISS 3			Chloritization, Disseminated, Moderate									
		313.10 - 313.77	BIO DISS 3			Biotitization, Disseminated, Moderate									
		313.10 - 313.77	CB FRC 1			Carbonatization, Along Fractures, Very weak									
		313.77 - 318.33	CL DISS 4			Chloritization, Disseminated, Strong									
		313.77 - 318.33	BIO DISS 4			Biotitization, Disseminated, Strong									
		313.77 - 318.33	CB DISS 1			Carbonatization, Disseminated, Very weak									
		313.77 - 318.33	CB FRC 2			Carbonatization, Along Fractures, Weak									
		318.33 - 319.73	CL DISS 3			Chloritization, Disseminated, Moderate									
		318.33 - 319.73	CL FRC 3			Chloritization, Along Fractures, Moderate									
		318.33 - 319.73	CB FRC 2			Carbonatization, Along Fractures, Weak									
		318.33 - 319.73	BIO DISS 3			Biotitization, Disseminated, Moderate									
		Mineralization Maj. :	***Type/Style/%Mineral***			***Comment***									
		263.95 - 270.50	Py DIS 0.1			Pyrite, Disseminated, 0.1%									
		270.50 - 276.00	Py FAC 0.25			Pyrite, Fracture-controlled, 0.25%									

From (m)	To (m)		Lithology			Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		270.50 - 276.00	Py	DIS	0.25	Pyrite, Disseminated, 0.25%											
		276.00 - 319.73	Py	DIS	0.15	Pyrite, Disseminated, 0.15%											
		Texture Maj:	***Type***			***Comment***											
		263.95 - 319.73	MG			Medium Grained(1-5mm)											
		263.95 - 319.73	MAS			Massive											
		Vein Maj. :	***Style/%vein/CoreA/%min/min***			***Comment***											
		263.95 - 272.00	VN	0.5	85 100 QV	Quartz Vein, 100%, 85° CA											
		272.00 - 289.33	VN	3	60 10 CBV	Carbonate Vein, 10%											
		272.00 - 289.33	VN	3	60 30 QCV	Quartz-Calcite Vein, 30%											
		272.00 - 289.33	VN	3	60 60 QV	Quartz Vein, 60%, 60° CA											
		289.33 - 319.73	VN	0.5	70 100 QCV	Quartz-Calcite Vein, 100%, 70° CA											
319.73	321.00	**Fresh Rock**	**QCV**	***Quartz-(Carbonate) Vein***		1	1	WH	108621	319.73	321.00	1.27	0	-	0.01	-	-
		white bull qtz carb vein. Green chl on fractures. Patchy hem alt on some of the carbonate. The carbonate is in distinct bands and clots through the vein. There is a small chilled diabase unit at the upper contact of the vein, which is 2-3 cm wide for most of the core, but covers 10cm over the orientation line as it covers the contact ov the vein. There is negligible mineralization. Upper contact is at 15/020. Lower contact is 15/026.															
		Alteration Maj:	***Type/Style/Intensity***			***Comment***											
		319.73 - 321.00	CL	FRC	3	Chloritization, Along Fractures, Moderate											
		319.73 - 321.00	HM	SPT	1	Hematization, Spotty/Patchy, Very weak											
		Mineralization Maj. :	***Type/Style/%Mineral***			***Comment***											
		319.73 - 321.00	Py	DIS	0.1	Pyrite, Disseminated, 0.1%											
		Texture Maj:	***Type***			***Comment***											
		319.73 - 321.00	CX			Crystalline											
		Vein Maj. :	***Style/%vein/CoreA/%min/min***			***Comment***											
		319.73 - 321.00	VN	95	15 100 QCV	Quartz-Calcite Vein, 100%, 15° CA											

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
Minor Interval:					
319.73	319.83	Fresh Rock 14B *Fine-grained Diabase dykes*		1	
		fine grained diabase, 1-2 cm thick for the most part, then expanding out along the core axis over the vein contact.			
321.00	339.30	**Fresh Rock 8C *Tonalite/Trondjhemite (Quartz Porphyry***	1	1	RE
		Tonalite/Trondjhemite (Quartz Porphyry) - grey to red colour, felsic to intermediate in composition with 20% to 30% quartz-eyes with weak to moderate chl-cb interstitial and weak hematite dusting; is pervasive disseminated chl/bt throughout the unit, ranging from weak to strong in intensity. Where the chl/bt gets stronger, it tends to overshadow other alteration products, leaving a dark grey to greenish black colour. Where the chl/bt is less intense, there is a pervasive pink to red colour, with black to green black clots throughout. Towards the end of the unit, there is increasing sericite alt and greatly decreasing hem (in both prevalence and intensity), with a smaller decrease in chl/bt intensity. There are carb altered fractures throughout, and around 323-326 there is an increase of carb alt around qtz veins; porphyritic texture.			
		The unit has overall 5-8% veining overall, locally up to 20%. Mineralization consists of fg to mg py, with slightly elevated (0.2-0.4)% near the upper contact with the qtzcarb vein and at the end of the unit in the increasing sericite alteration (0.5-1%). Near the qtz vein, the py is focused on fractures and diss, while in the sericte zone, it is diss and in some bands. 334.3-334.36, there is a hem alted inclusion, dark red-brown colour.			
		Minor diss lcx, white greyish colour.			

Alteration Maj:	*Type/Style/Intensity*	*Comment*
321.00 - 322.57	BIO DISS 2	Biotitization, Disseminated, Weak
321.00 - 322.57	CB FRC 2	Carbonatization, Along Fractures, Weak
321.00 - 322.57	CL DISS 2	Chloritization, Disseminated, Weak
321.00 - 322.57	SR DISS 2	Sericitization, Disseminated, Weak
322.57 - 324.10	CL DISS 2	Chloritization, Disseminated, Weak
322.57 - 324.10	BIO DISS 2	Biotitization, Disseminated, Weak
322.57 - 324.10	MAG SPT 2	Magnetite, Spotty/Patchy, Weak
322.57 - 324.10	HM DISS 2	Hematization, Disseminated, Weak

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
108622	321.00	322.50	1.50	0	-	0.01	-	-
108623	322.50	324.00	1.50	0	-	0.01	-	-
108625	324.00	325.50	1.50	0	-	0.01	-	-
108626	325.50	327.00	1.50	0	-	0.01	-	-
108627	327.00	327.77	0.77	0	-	0.01	-	-
108628	327.77	329.00	1.23	0	-	0.01	-	-
108629	329.00	330.00	1.00	0	-	0.01	-	-
108630	330.00	331.50	1.50	0	-	0.01	-	-
108631	331.50	333.02	1.52	0	-	0.01	-	-
108632	333.02	334.00	0.98	0	-	0.01	-	-
108633	334.00	335.00	1.00	0	-	0.01	-	-
108634	335.00	336.47	1.47	0	-	0.01	-	-
108635	336.47	338.00	1.53	0	-	0.01	-	-
108637	338.00	339.30	1.30	0	-	0.01	-	-

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From (m)	To (m)	Lithology	Weathering Oxidation Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
	324.10 - 327.75	HM DISS 3	Hematization, Disseminated, Moderate									
	324.10 - 327.75	BIO DISS 2	Biotitization, Disseminated, Weak									
	324.10 - 327.75	MAG DISS 3	Magnetite, Disseminated, Moderate									
	324.10 - 327.75	CL DISS 2	Chloritization, Disseminated, Weak									
	327.75 - 328.86	BIO DISS 4	Biotitization, Disseminated, Strong									
	327.75 - 328.86	HM SPT 1	Hematization, Spotty/Patchy, Very weak									
	327.75 - 328.86	CL DISS 4	Chloritization, Disseminated, Strong									
	327.75 - 328.86	CB FRC 1	Carbonatization, Along Fractures, Very weak									
	328.86 - 331.30	CL DISS 3	Chloritization, Disseminated, Moderate									
	328.86 - 331.30	BIO DISS 3	Biotitization, Disseminated, Moderate									
	328.86 - 331.30	CB FRC 2	Carbonatization, Along Fractures, Weak									
	328.86 - 331.30	HM DISS 2	Hematization, Disseminated, Weak									
	331.30 - 335.43	CL DISS 2	Chloritization, Disseminated, Weak									
	331.30 - 335.43	HM DISS 3	Hematization, Disseminated, Moderate									
	331.30 - 335.43	BIO DISS 2	Biotitization, Disseminated, Weak									
	331.30 - 335.43	CB FRC 2	Carbonatization, Along Fractures, Weak									
	335.43 - 336.47	CL DISS 2	Chloritization, Disseminated, Weak									
	335.43 - 336.47	BIO DISS 2	Biotitization, Disseminated, Weak									
	335.43 - 336.47	HM SPT 2	Hematization, Spotty/Patchy, Weak									
	335.43 - 336.47	CB FRC 2	Carbonatization, Along Fractures, Weak									
	336.47 - 339.30	CL DISS 3	Chloritization, Disseminated, Moderate									
	336.47 - 339.30	SR SPT 2	Sericitization, Spotty/Patchy, Weak									
	336.47 - 339.30	CB FRC 2	Carbonatization, Along Fractures, Weak									
	336.47 - 339.30	BIO DISS 3	Biotitization, Disseminated, Moderate									

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)

Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***

321.00 - 323.81	Py FAC 0.15	Pyrite, Fracture-controlled, 0.15%
321.00 - 323.81	Py DIS 0.1	Pyrite, Disseminated, 0.1%
323.81 - 330.00	Py DIS 0.1	Pyrite, Disseminated, 0.1%
330.00 - 331.00	Py DIS 0.15	Pyrite, Disseminated, 0.15%
330.00 - 331.00	Py VN 0.2	Pyrite, Vein-controlled, 0.2%
331.00 - 336.47	Py BNDS 0.5	Pyrite, Bands, 0.5%
331.00 - 336.47	Py DIS 0.5	Pyrite, Disseminated, 0.5%

Texture Maj: ***Type*** ***Comment***

321.00 - 336.47	MG	Medium Grained(1-5mm)
321.00 - 336.47	MAS	Massive
336.47 - 339.30	NET	Net Textured
336.47 - 339.30	MG	Medium Grained(1-5mm)

Vein Maj. : ***Style/%vein/CoreA/%min/min*** ***Comment***

321.00 - 326.00	VN	10	55	10	CBV	Carbonate Vein, 10%
321.00 - 326.00	VN	10	55	20	QCV	Quartz-Calcite Vein, 20%
321.00 - 326.00	VN	10	55	70	QV	Quartz Vein, 70%, 55° CA

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
339.30	341.50	**Fresh Rock** **8C** ***Sericitic-Silicified Tonalite/Trondjhemite***	1	1	GY	108638	339.30	340.47	1.17	0	-	0.01	-	-
						108639	340.47	341.50	1.03	0	-	0.03	-	-

Sericitic-Silicified Tonalite/Trondjhemite (HYDRO ZONE) - altered felsic to intermediate composition with strong interstitial ser>sil matrix about relict fg to mg 20% to 30% quartz-eyespervasive moderate sericite alt, diss weak to very weak chl/bt still visible as slightly darker patches on the core. The core is composed primarily of qtz grains with a large ammount of interstitial chl/bt and sericite. This obliterates most of the primary texture. There is some carb on fractures and blebs focused on fractures. There is some patchy hem alt on some remaining feldspar grains. The sericite is very heavy around 340 m, obscuring most of the core. There is no veining and no shearing/fabric.

Mineralization - <1% to locally 10% disseminated and fracture-fill….is up to 5% py overall; non-magnetic.
Contact - gradational increase in silicification

Alteration Maj: ***Type/Style/Intensity*** ***Comment***

From (m)	To (m)		Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		339.30 - 339.89	BIO DISS 1	Biotitization, Disseminated, Very weak											
		339.30 - 339.89	CL DISS 1	Chloritization, Disseminated, Very weak											
		339.30 - 339.89	SR DISS 3	Sericitization, Disseminated, Moderate											
		339.30 - 339.89	SI PV 3	Silicification, Pervasive, Moderate											
		339.89 - 340.39	BIO DISS 1	Biotitization, Disseminated, Very weak											
		339.89 - 340.39	CL DISS 1	Chloritization, Disseminated, Very weak											
		339.89 - 340.39	SR DISS 4	Sericitization, Disseminated, Strong											
		339.89 - 340.39	SI PV 3	Silicification, Pervasive, Moderate											
		340.39 - 341.50	BIO DISS 1	Biotitization, Disseminated, Very weak											
		340.39 - 341.50	CL DISS 1	Chloritization, Disseminated, Very weak											
		340.39 - 341.50	SR DISS 2	Sericitization, Disseminated, Weak											
		340.39 - 341.50	SI PV 3	Silicification, Pervasive, Moderate											
		Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***											
		339.30 - 339.85	Py DIS 0.15	Pyrite, Disseminated, 0.15%											
		339.85 - 340.26	Py FAC 2	Pyrite, Fracture-controlled, 2%											
		339.85 - 340.26	Py DIS 8	Pyrite, Disseminated, 8%											
		340.26 - 341.50	Py DIS 0.25	Pyrite, Disseminated, 0.25%											
		Texture Maj:	***Type***	***Comment***											
		339.30 - 341.50	NET	Net Textured											
341.50	342.57	**Fresh Rock**	**8C**	***Silicified onalite/Trondjhemite***	1	1	GY	108640	341.50	342.57	1.07	0	-	0.01	-	-
		Silicified Tonalite/Trondjhemite (HYDRO ZONE) - bleached grayish-white color; altered felsic to intermediate in composition with highly silicified zone with moderate to strong ser in fractures and in the interstitial matrix; pervasive intense silicification gives the core the appearance of a qtz vein with spotted areas where chl/bt and sericite still show some of the texture of the tonalite. This, coupled with the lack of sharp contacts, seems to indicate that the appearance of the core is due to alteration and is not a true qtz														

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		vein. Where the silcification is more dominant, there is no primary texture visible. There are some blebs of carb through the unit. The chl/bt is very weak to weak throughout the unit. The sericite ranges from weak to moderate. There is no true veining visible, however this may be obscured by the silicification. -pseudo-breccia texture with sil floods in wr xcut by ser-(chl) fractures; obliterated porphyritic texture Mineralization - <0.5% py and non-magnetic Contact - gradational decrease in silicification												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		341.50 - 342.57 BIO DISS 1 Biotitization, Disseminated, Very weak												
		341.50 - 342.57 CL DISS 2 Chloritization, Disseminated, Weak												
		341.50 - 342.57 SR DISS 2 Sericitization, Disseminated, Weak												
		341.50 - 342.57 SI PV 5 Silicification, Pervasive, Intense												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		341.50 - 342.57 Cpy BLB 0.1 Chalcopyrite, Blebs, 0.1%												
		341.50 - 342.57 Py BLB 0.5 Pyrite, Blebs, 0.5%												
		341.50 - 342.57 Py DIS 0.15 Pyrite, Disseminated, 0.15%												
		Texture Maj: ***Type*** ***Comment***												
		341.50 - 342.57 CX Crystalline												
		341.50 - 342.57 NET Net Textured												
342.57	345.89	**Fresh Rock** **8C** ***Sericitic-Silicified Tonalite/Trondjhemite***	1	1	GG	108641	342.57	344.00	1.43	0	-	0.01	-	-
		Sericitic-Silicified Tonalite/Trondjhemite (HYDRO ZONE:) - similar to section from 339.3 to 341.5 with increase in carbonate as fg to cg disseminated grains (5% to 10%); oheavy alteration. Alteration consists of pervasive moderate to strong ser>silicification, and a large ammount of diss micas. There is weak to mod diss chl; some weak carb on fractures and as blebs on fractures. The unit has a heavy net texture from all of the diss micas surrounding the quartz grains. There is <1% qtz veining. Mineralization consists of fg diss py, focused in the lower half of the unit, up to 10% locally, and 5% overall. A weak foliation is starting to develop towards the end of the unit.				108642	344.00	345.00	1.00	0	-	0.01	-	-
						108643	345.00	345.89	0.89	0	-	0.01	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Alteration Maj:	***Type/Style/Intensity***	***Comment***										
		342.57 - 345.21	CB FRC 3	Carbonatization, Along Fractures, Moderate										
		342.57 - 345.21	CL DISS 2	Chloritization, Disseminated, Weak										
		342.57 - 345.21	SR DISS 3	Sericitization, Disseminated, Moderate										
		342.57 - 345.21	SI PV 4	Silicification, Pervasive, Strong										
		345.21 - 345.89	CB FRC 3	Carbonatization, Along Fractures, Moderate										
		345.21 - 345.89	CL DISS 3	Chloritization, Disseminated, Moderate										
		345.21 - 345.89	SR DISS 3	Sericitization, Disseminated, Moderate										
		345.21 - 345.89	SI SPT 2	Silicification, Spotty/Patchy, Weak										
		Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***										
		342.57 - 343.55	Py DIS 0.15	Pyrite, Disseminated, 0.15%										
		343.55 - 345.89	Py FAC 2	Pyrite, Fracture-controlled, 2%										
		343.55 - 345.89	Py DIS 8	Pyrite, Disseminated, 8%										
		Texture Maj:	***Type***	***Comment***										
		342.57 - 345.89	NET	Net Textured										
		Vein Maj. :	***Style/%vein/CoreA/%min/min***	***Comment***										
		342.57 - 345.89	VN 0.5 35 100 QV	Quartz Vein, 100%, 35° CA										
345.89	346.25	**Fresh Rock**	**SH** ***Shear/Shear Zone/Fault Zone***		1 1 GG	108644	345.89	346.25	0.36	0	-	0.01	-	-
		Shear/Shear Zone/Fault Zone (HYDRO ZONE) - large ammount of sericite and chlorite causes rock to be very crumbly. The unit is very rubbly, and the remaining qtz grains visible have undergone minimal deformation. There are some carb bands in the shear. There is minor veining through some of the unit, possibly 5%, but due to the crumbly nature of the unit, it is not possible to accurately say what the true percentage is. Mineralization consists of fg py, focused around some of the qtz veins.													
		Alteration Maj:	***Type/Style/Intensity***	***Comment***										
		345.89 - 346.25	CB BNDS 4	Carbonatization, Bands/Banded, Strong										

From (m)	To (m)		Lithology	Weathering	Oxidation	Colour
		345.89 - 346.25	SR PV 5			Sericitization, Pervasive, Intense
		345.89 - 346.25	CL PV 4			Chloritization, Pervasive, Strong
		Mineralization Maj. :	***Type/Style/%Mineral***			***Comment***
		345.89 - 346.25	Py VN 0.15			Pyrite, Vein-controlled, 0.15%
		Texture Maj:	***Type***			***Comment***
		345.89 - 346.25	SCH			Schistose
		345.89 - 346.25	NET			Net Textured
		Vein Maj. :	***Style/%vein/CoreA/%min/min***			***Comment***
		345.89 - 346.25	VN 5 100 QV			Quartz Vein, 100%
346.25	355.50	**Fresh Rock**	**8C** ***Sericitic-Silicified Tonalite/Trondjhemite***	1	1	GY
		Sericitic-Silicified Tonalite/Trondjhemite (HYDRO ZONE) - moderate interstitial ser-cb in matrix with weak chl; intensity of chl and ser ranges from weak to mod. There is patchy hem in some areas. There are fractures filled with carb throughout, weak; relict 205 to 35% quartz eyes with gradual sil flooding between 352.1 to 353.5 giving a pseudo-breccia texture; <1% qtz veining through the unit.				
		347.0 to 347.4 - Fault Zone Gouge - strong pervasive ser and broken core				
		Mineralization is composed of 0.25-0.5% diss py, locally up to 1% and is non-magnetic Contact - gradational decrease in ser-sil				
		Alteration Maj:	***Type/Style/Intensity***			***Comment***
		346.25 - 349.24	SR DISS 3			Sericitization, Disseminated, Moderate
		346.25 - 349.24	CB CLTS 2			Carbonatization, Clots, Weak
		346.25 - 349.24	CL DISS 4			Chloritization, Disseminated, Strong
		346.25 - 349.24	SI SPT 2			Silicification, Spotty/Patchy, Weak
		349.24 - 351.62	SI PV 3			Silicification, Pervasive, Moderate
		349.24 - 351.62	CB FRC 2			Carbonatization, Along Fractures, Weak
		349.24 - 351.62	CL DISS 2			Chloritization, Disseminated, Weak

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
108645	346.25	347.50	1.25	0	-	0.01	-	-
108646	347.50	349.00	1.50	0	-	0.01	-	-
108647	349.00	350.53	1.53	0	-	0.01	-	-
108649	350.53	352.00	1.47	0	-	0.01	-	-
108650	352.00	353.00	1.00	0	-	0.01	-	-
108651	353.00	354.47	1.47	0	-	0.01	-	-
108652	354.47	355.75	1.28	0	-	0.01	-	-

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From (m)	To (m)		Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		349.24 - 351.62	SR DISS 2	Sericitization, Disseminated, Weak											
		351.62 - 353.00	SI PV 3	Silicification, Pervasive, Moderate											
		351.62 - 353.00	SR DISS 2	Sericitization, Disseminated, Weak											
		351.62 - 353.00	CL DISS 2	Chloritization, Disseminated, Weak											
		351.62 - 353.00	HM SPT 1	Hematization, Spotty/Patchy, Very weak											
		353.00 - 354.47	CB FRC 2	Carbonatization, Along Fractures, Weak											
		353.00 - 354.47	SI SPT 1	Silicification, Spotty/Patchy, Very weak											
		353.00 - 354.47	CL DISS 3	Chloritization, Disseminated, Moderate											
		353.00 - 354.47	SR DISS 4	Sericitization, Disseminated, Strong											
		Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***											
		346.25 - 349.24	Py DIS 1	Pyrite, Disseminated, 1%											
		349.24 - 354.47	Py DIS 0.25	Pyrite, Disseminated, 0.25%											
		Texture Maj:	***Type***	***Comment***											
		346.25 - 355.50	SCH	Schistose											
		346.25 - 355.50	NET	Net Textured											
		Vein Maj. :	***Style/%vein/CoreA/%min/min***	***Comment***											
		346.25 - 355.50	VN 0.5 80 100 QV	Quartz Vein, 100%, 80° CA											

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
355.50	367.46	**Fresh Rock** **8C** ***Tonalite/Trondjhemite***	1	1	GY

Tonalite/Trondjhemite - variable grey to pink red colour; felsic to intermediate in composition with decrease in ser-sil alteration in matrix and increased chl-(cb) in matrix interstitial; weak hematite dusting; chl/bt alt and sericite alt. there is also some very weak spotty hem alt at the start. Farther down the core this alteration becomes more intense and more prevalent, giving the core a more pink to red/red-brown colour in certain areas. This alteration zone is not very wide however, and the core goes back to being dominated by chl/bt and mild silicification in areas. Near the lower contact with the diabase there is an increase in sericite.
There is <1% qtz and qtz carb veining.
Mineralization is composed of fg py on fractures and diss, up to 0.5-1%.
There is patchy magnetism, focused in the hem alt areas.
One fine grained chl alt dyke from 366.15-366.21m.
Minor diss lcx, white greyish colour.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
356.40 - 361.23	CB DISS 2	Carbonatization, Disseminated, Weak
356.40 - 361.23	HM SPT 2	Hematization, Spotty/Patchy, Weak
356.40 - 361.23	BIO DISS 2	Biotitization, Disseminated, Weak
356.40 - 361.23	CL DISS 2	Chloritization, Disseminated, Weak
361.23 - 362.07	HM SPT 3	Hematization, Spotty/Patchy, Moderate
361.23 - 362.07	MAG DISS 2	Magnetite, Disseminated, Weak
361.23 - 362.07	BIO DISS 2	Biotitization, Disseminated, Weak
361.23 - 362.07	CL DISS 2	Chloritization, Disseminated, Weak
362.07 - 366.25	CL DISS 3	Chloritization, Disseminated, Moderate
362.07 - 366.25	BIO DISS 3	Biotitization, Disseminated, Moderate
362.07 - 366.25	CB FRC 2	Carbonatization, Along Fractures, Weak
362.07 - 366.25	MAG SPT 2	Magnetite, Spotty/Patchy, Weak
366.25 - 367.46	CB FRC 2	Carbonatization, Along Fractures, Weak
366.25 - 367.46	CL DISS 3	Chloritization, Disseminated, Moderate
366.25 - 367.46	SR DISS 2	Sericitization, Disseminated, Weak
366.25 - 367.46	BIO DISS 3	Biotitization, Disseminated, Moderate

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
108653	355.75	357.00	1.25	0	-	0.01	-	-
108654	357.00	358.50	1.50	0	-	0.01	-	-
108655	358.50	359.92	1.42	0	-	0.01	-	-
108656	359.92	361.23	1.31	0	-	0.01	-	-
108657	361.23	362.07	0.84	0	-	0.01	-	-
108658	362.07	363.50	1.43	0	-	0.01	-	-
108659	363.50	365.00	1.50	0	-	0.01	-	-
108661	365.00	366.21	1.21	0	-	0.01	-	-
108662	366.21	367.47	1.26	0	-	0.01	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		358.00 - 360.35 Py DIS 0.75 Pyrite, Disseminated, 0.75%												
		360.35 - 367.46 Py DIS 0.15 Pyrite, Disseminated, 0.15%												
		Texture Maj: ***Type*** ***Comment***												
		355.50 - 367.46 MG Medium Grained(1-5mm)												
		355.50 - 367.46 MAS Massive												
		Vein Maj. : ***Style/%vein/CoreA/%min/min*** ***Comment***												
		355.50 - 367.46 VN 0.25 60 100 QV Quartz Vein, 100%, 60° CA												
Minor Interval:														
366.15	366.25													
		mafic dyke, chl alt and carb alt.												
		Alteration Min: ***Type/Style/Intensity*** ***Comment***												
		366.15 - 366.25 CB DISS 2 Carbonatization, Disseminated, Weak												
		366.15 - 366.25 CL PV 2 Chloritization, Pervasive, Weak												
367.46	368.74	**Fresh Rock** **14B** ***Fine-grained Diabase dykes***	1	1	BLK	108663	367.47	368.74	1.27	0	-	0.01	-	-
		fine grained black diabase. Ep alt on large phenocrysts. Pervasive mod to strong magnetism. Carb veinlets, fractures and dissem. There is no mineralization.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		367.46 - 368.74 CB DISS 3 Carbonatization, Disseminated, Moderate												
		367.46 - 368.74 CB FRC 3 Carbonatization, Along Fractures, Moderate												
		367.46 - 368.74 EP AFG 4 Epidotization, Alteration of feldspar grains, Strong												
		Vein Maj. : ***Style/%vein/CoreA/%min/min*** ***Comment***												
		367.46 - 368.74 0.5 40 100 CBV Carbonate Vein, 100%, 40° CA												

LITHOLOGY REPORT
- Detailed -

Hole Number: **WAT16-04** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
368.74	377.00	**Fresh Rock** **8C** ***Tonalite/Trondjhemite***	1	1	GY

grey to pink-grey tonalite. Patchy weak to very weak hem alt scattered throughout gives a lighter tinge to the core. There is pervasive diss chl/bt, along with minor moderate carb along fractures and marginal to veins. There is patchy very weak magnetism from diss magnetite within the chl/bt. There is <1% qtz and qtz carb veining. Mineralization consists of tr-0.25% diss py.
At 372 and 372.56 there are isolated 2-3cm wide fragments, all black to dark green in colour and fine grained.
Minor diss lcx, white greyish colour.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
368.74 - 375.80	CB FRC 3	Carbonatization, Along Fractures, Moderate
368.74 - 375.80	BIO DISS 2	Biotitization, Disseminated, Weak
368.74 - 375.80	CL DISS 2	Chloritization, Disseminated, Weak
368.74 - 375.80	HM SPT 2	Hematization, Spotty/Patchy, Weak
375.80 - 377.00	HM SPT 1	Hematization, Spotty/Patchy, Very weak
375.80 - 377.00	CB FRC 2	Carbonatization, Along Fractures, Weak
375.80 - 377.00	BIO DISS 3	Biotitization, Disseminated, Moderate
375.80 - 377.00	CL DISS 3	Chloritization, Disseminated, Moderate

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
368.74 - 377.00	Py DIS 0.15	Pyrite, Disseminated, 0.15%

Texture Maj:	***Type***	***Comment***
368.74 - 377.00	MG	Medium Grained(1-5mm)
368.74 - 377.00	MAS	Massive

Vein Maj. :	***Style/%vein/CoreA/%min/min***	***Comment***
368.74 - 377.00	VN 1 75 50 QCV	Quartz-Calcite Vein, 50%
368.74 - 377.00	VN 1 75 50 QV	Quartz Vein, 50%, 75° CA

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
108664	368.74	370.00	1.26	0	-	0.01	-	-
108665	370.00	371.50	1.50	0	-	0.01	-	-
108666	371.50	373.00	1.50	0	-	0.01	-	-
108667	373.00	374.50	1.50	0	-	0.01	-	-
108668	374.50	375.26	0.76	0	-	0.01	-	-
108669	375.26	376.00	0.74	0	-	0.01	-	-
108670	376.00	377.00	1.00	0	-	0.01	-	-

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number **WAT16-04** Project: Project Number:

From (m)	To (m)	Length (m)	Sample #	Comments
2.90	3.44	0.54	289894	tonalite with dissem bt and chl, spotty magnetite in clots of micas.
3.44	4.19	0.75	289895	gabbro, pervasive chl alt. highly fractured at contact with tonalite. Carb alt fractures.
6.00	6.83	0.83	289897	gabbro bracket sample, pervasive chl alt at start, getting spotty down core. Carb alt fractures and dissem. Minor ep alt on some visible feldspar grains.
6.83	8.11	1.28	289898	gabbro with pervasive to spotty chl alt, and moderate to strong carb alteration in a vein. There is an unknown red mineral located within the diffuse carb vein, sometimes with a greyish mineral as well. Some fg diss py, but minimal.
8.11	9.38	1.27	289899	bracket sample of vein, pervasive chl alt, dissem carb alt, with some carb on fractures and carb veining throughout.
10.27	11.20	0.93	289900	gabbro bracket sample of contact, pervasive chl alt, dissem py through lower part of sample, up to 1-2%. Minor carb veinlets.
11.20	11.54	0.34	108501	gabbro with fg to mg py, mostly in blebs/clots, sometimes dissem. Focused near lower contact with tonalite. Highly fractured near lc, py up to 2-4%. Chl alt is pervasive, with carb fractures.
11.54	12.35	0.81	108502	tonalite, pervasive very weak hem, with chl/bt on fractures and dissem. Sericite on some fractures. Minor blebs of py focused around fractures, up to 0.5-1%. Dissem magnetite.
12.35	13.00	0.65	108503	tonalite bracket sample, alt as above without py.
14.50	15.18	0.68	108504	bracket tonalite, pervasive weak to mod hem, dissem magnetite, weak chl/bt on fractures and dissem, minor carb fractures.
15.18	15.51	0.33	108505	tonalite with carbonate breccia. Perv strong hem. Dissem and frac controlled chl/bt. Minor mafic dyke at end 11 cm. dissem magnetite.
15.51	16.00	0.49	108506	bracket tonaltie, alt as above, with no carb breccia.
18.70	19.23	0.53	108507	bracket tonalite, alt as above with mod hem. No py. Dissem magnetite
19.23	20.00	0.77	108508	tonalite with two 10 cm qtz veins at start and end. Perv weak to mod hem alt, dissem magnetite, chl and bt. Chl bt on fracts.
20.00	21.00	1.00	108509	bracket tonalite, alt as above. Up to 2-3% veining (qv and cbv). Tr py.
21.00	21.50	0.50	108510	tonalite, pervasive mod hem alt, carb fractures. Chl/bt on fractures and dissem. Diss magnetite in chl/bt. Two bands of py, up to 1cm wide midway down sample, up to 3-5% py overall.
21.50	23.00	1.50	108511	tonalite, weak to mod perv hem alt, diss bt/chl and magnetite, and chl/bt on fractures. Up to 2-3% cbv, minor py on fractures near end of sample, up to 1-2%.
23.00	24.00	1.00	108513	bracket tonalite, alt as above with weak hem. Up to 1% qv. No py.
27.00	27.69	0.69	108514	bracket tonalite, alt as above. 1% qcv.
27.69	27.95	0.26	108515	quartz vein with carb bands and chl/bt alt fractures. No py.
27.95	28.50	0.55	108516	bracket tonalite, alt as above bracket, up to 1-2% qcv.
36.20	36.80	0.60	108517	tonalite, perv wk to very weak hem, patchy magnetite. Minor diss bt, and strong and very prominent chl clots. 3-5% qtz veining. There is a large ammount of very weak clots of carb. Trace sulphide.
43.00	44.00	1.00	108518	tonalite, perv wk to vwk hem, carb on some fractures. Chl/bt diss, and patchy magnetite within the chl/bt. One significant 1-2cm wide carb vein, with chl surrounding it.
46.63	47.50	0.87	108519	tonalite, alt as above, weak hem. One 2cm wide qtz vein cutting through it. Minimal sulphide.
47.50	48.26	0.76	108520	tonalite, alt as above, 2-5% cbv.
48.26	49.50	1.24	108521	tonalite, grey colour. Patchy weak to very weak hem. Wk to mod chl/bt diss and on fractures. Sericite on some fractures, giving net texture. Minimal minz.

SAMPLE DESCRIPTION REPORT

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From (m)	To (m)	Length (m)	Sample #	Comments
49.50	51.00	1.50	108522	tonalite as above, with more hem alt throughout, more pinkish colour.
51.00	52.05	1.05	108523	tonalite, dark reddish grey colour, patchy hem alt, along with stronger patches of diss chl/bt. There is py in some of the heavy chl areas, up to 1-3%, as blebs and along fractures. 1% qv.
52.05	53.00	0.95	108525	tonalite, patchy weak hem alt, diss chl/bt, with minor magnetite in the chl/bt. Minor 0.5-1% py in clots/blebs. Minor 1-3cm wide qtz veins near end, up to 4% veining over sample. Veins have carb and chl around them.
53.00	54.00	1.00	108526	bracket tonalite, alt as above. Minor sericite.
56.00	57.00	1.00	108527	tonalite, mod dis chl/bt, with minor carb fractures. Possible weak sericite. Small patch of lighter core with hem alt. no veining. 0.5% py diss.
60.00	61.51	1.51	108528	tonalite, with diss chl/bt throughout, getting pv in some areas, obliterating main texture. Carb on veinlets. 0.5% py.
66.00	67.16	1.16	108529	bracket tonalite, diss chl/bt throughout, many carb filled fractures. Possible sericite or chl forming netty texture. Minor qtz veining near end, 2-4%
67.16	67.75	0.59	108530	shear zone, with pervasive chl alt along with dissem carb alt. stronger carb alt in blebs around veins. There is a purple carbonate mineral in two veins within the sample, possibly stichtite. 30% veining overall, made up of qtz and various carbonates. Minor tr py.
67.75	69.00	1.25	108531	bracket tonalite. Sericite nets throughout, with dissem chl/bt and carb alt fractures. Trace py.
71.00	72.50	1.50	108532	tonalite, grey colour, very patchy very weak hem alt, diss chl/bt alt throughout. Magnetite in the chl/bt. Weak magnetism. Minor carb alt fracts, and sericite nets throughout.
76.86	78.23	1.37	108533	tonalite. Greyish pink colour, patchy hem alt weak to very weak. Chl/bt throughout. Magnetite in the chl/bt, weak magnetism. Carb fractures and clots near start of unit. One 8cm bull qtz vein, with minor carb alt on fractures and around edges.
85.00	86.50	1.50	108534	tonalite, pink red colour. Pervasive hem alt throughout, along with diss chl/bt. Magnetite in chl/bt, weak magnetism. There are several <1-3 cm wide qtz veins throughout, up to 5%. Carb on fractures. Trace py.
88.00	89.00	1.00	108535	tonalite, alt as above, with less chl/bt. One 7cm irregular qtz vein in unit, with chl alt fractures.
90.00	91.50	1.50	108537	tonalite, patchy hem, chl/bt throughout, carb alt fractures throughout. Minor magnetite in the chl/bt, giving weak magnetism. There is one 8cm qtz vein at start of sample, with minor carb and chl. Minor sericite near end
91.50	93.00	1.50	108538	tonalite, with heavy sericite, chl throughout along with some bt. Minor carb on fractures, and some in bands. Light greyish colour.
97.00	98.00	1.00	108539	tonaltie, grey colour, pervasive silicification washing out primary texture. Some chl/bt seen through. Carb on some fractures. Sericite seen as nets throughout. No magnetism.
98.00	99.09	1.09	108540	tonalite, grey colour, alt as above.
102.00	102.76	0.76	108541	tonalite, patchy to pv hem alt, chl/bt throughout, with minor magnetite in the chl/bt. Carb on fractures. Py diss up to 1-2%.
102.76	103.55	0.79	108542	tonalite, alt as above, minz as above. Mafic dykelet at start of sample for 6cm.
103.55	105.00	1.45	108543	tonalite, chl/bt diss, minor magnetite, greyish colour with very spotty weak to very weak hem. Minz up to 1%
105.00	106.50	1.50	108544	tonalite, alt as above, minz up to 2-4%, due to spots of increased py minz. Py is increased in areas with greater chl alt.
106.50	108.00	1.50	108545	tonalite alt as above with slightly more hematite, giving mixed pinkish grey colour. Up to 1% py diss.
108.00	108.61	0.61	108546	tonalite as 108543, py 0.5-1%
108.61	109.25	0.64	108547	mafic/gabbro , carb alt stringers/veinlets. Patchy hem alt near UC. Pv chl alt. tr to 0.5% py.

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From (m)	To (m)	Length (m)	Sample #	Comments
109.25	110.21	0.96	108549	tonalite, alt as 108546. py up to 0.5%. Carb alt on fractures but no veining.
110.21	111.78	1.57	108550	mafic/gabbro dyke. Pervasive chl alt, carb alt diss and wispy. This gives the unit a greenish colour with blueish grey wisps throughout. One large irregular qtz carb vein near the start of unit, with a second 2-3cm wide diffuse one right at the UC, up to 8% total. There is 1-3% py overall, and up to 0.5-1% cpy. The cpy and most of the py is focused in some large clots near the start of the unit along a secondary smaller vein. The rest of the py is diss throughout.
111.78	112.55	0.77	108551	tonalite, patchy to pervasive hem alt, giving varied light brown to darker brown red colour through the sample. The alt is weaker near the contacts. There is diss chl/bt, with minor magnetite diss through the chl/bt. One small 2cm diabase dykelet at 112.25. carb and qtz veinlets, up to 2%. Py up to 0.5%.
112.55	113.40	0.85	108552	diabase shoulder sample. Epidote alt on some feldspar grains. Carb on grains. Minor py, up to 1%
129.02	130.34	1.32	108553	diabase shoulder sample.ept alt feldspar grains. Diss carb. Minor py, up to 1%
130.34	131.50	1.16	108554	tonalite, patchy hem alt giving brownish grey colour. Patchy sil, chl/bt diss and on fractures. Minor carb fractures. No veining, tr to 0.5% py.
131.50	133.00	1.50	108555	tonalited as above, with weaker hem alt giving less reddish colour. Py tr.
133.00	134.00	1.00	108556	tonalite, minor sericite, weak patchy hem alt gives pink spots, but grey colour overall. Chl/bt diss and fract. Minor carb on fracts. Increasing sil down sample. Up to 1-2% qv from one vein. Up to 0.5% py.
134.00	134.90	0.90	108557	tonalite as above. More chl/bt farther down the sample.
134.90	136.22	1.32	108558	tonalite, stronger sil and weaker hem then above. More chl/bt around fractured areas. Sericite seen on some fractures and diss. Tr to 0.5% py.
136.22	136.86	0.64	108559	diabase dyke, highly fractured. Chl on fractures, along with carb.
136.86	138.00	1.14	108561	tonalite, patchy to perv hem alt, patchy sil, chl/bt diss. Minor magnetite spots. Tr py, no veining.
140.00	141.25	1.25	108562	bracket tonalite,, patchy hem alt, patchy sil. Chl/bt diss. Heavier chl alt on fractures. No veining. 0.5% py.
141.25	142.50	1.25	108563	Blanchard zone: shear zone, moderately foliated. Carb on shear planes, wk to mod, perv chl mod to strong. 0.5% py, <1% cbv.
142.50	144.00	1.50	108564	Blanchard zone: shear zone, perv strong chl alt, shear controlled moderate carb. 1-2% qtz carb veins. Tr to 0.5% py diss. Highly folded with parasitic folds visible.
144.00	145.26	1.26	108565	Blanchard zone: shear with alt as above. 2% qtz carb veining. 0.5-1.5% py diss and on shear planes. Highly contorted, veins are irregular.
145.26	146.50	1.24	108566	Blanchard zone: shear and stockwork. 30% qv/qcv/cbv, shear has alt as above, highly contorted with variable alpha angle. S fabric seen. 1-2% py, possible tr cpy.
146.50	148.00	1.50	108567	Blanchard zone: shear and stockwork as above. 30-40% qv/qcv/cbv. Shear has alt as above. Tr to 0.5% py diss. Highly contorted.
148.00	149.26	1.26	108568	Blanchard zone: shear and stockwork as above. 20-30% veining, mostly qcv and cbv. 0.5-1% py diss. Highly contorted shear.
149.26	150.75	1.49	108569	Blanchard zone: shear, perv strong chl, carb is shear controlled and moderate. Carb banding shows significant folds.
150.75	152.27	1.52	108570	Blanchard zone: shear as above for alt. <1% cbv, tr to 0.5% py.
152.27	153.14	0.87	108571	Blanchard zone: qtz stockwork zone, with shear as above. Highly contorted shear, with folds and kinks visible. 45-55% qcv/cbv/qv. 0.5% py.
153.14	154.50	1.36	108573	Blanchard zone: perv strong chl. Weak to mod carb alt on shear planes. Highly contorted shearing. <5% qcv. 0.5% py diss.
154.50	156.00	1.50	108574	Blanchard zone: alt as above, highly contored shearing, s fabric visible. 5% cbv/qcv. 0.5% py diss.
156.00	157.00	1.00	108575	Blanchard zone: alt as above, highly contorted, s fabric visible, while getting less prominent towards end of sample. 0.5-1% py diss. No veining

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157.00	158.00	1.00	108576	Blanchard zone: alt as above, moderately contorted shearing. 5-10% qcv/qv/cbv. One qtz vein at lc with tonalite. </= 0.5% frc controlled py,
158.00	159.50	1.50	108577	bracket tonalite. Patchy mod to strong hem alt, giving red colour. Carb on fractures. Diss chl/bt. No veining. Tr py. Spotty diss magnetite.
166.00	166.70	0.70	108578	tonalite with weak to mod sil pv. Spotty weak to very weak hem alt. chl/bt weak, diss. Minor carb on fractures. No veining no minz. Lc with diabase.
166.70	167.60	0.90	108579	diabase dyke. Black colour. Highly fractured. Chl on fractures. Carb diss. 2-5% carb veins. Sharp uc and lc. Minor tonalite raft (4 cm approx.) within near end of dyke. 0.5% py
167.60	169.03	1.43	108580	tonalite at end of diabase dyke. Perv weak to mod sil. Weak to very weak spotty hem alt. weak diss chl/bt. Minor weak carb on fractures. No veining. Tr py.
169.03	170.00	0.97	108581	tonalite, perv weak to mod sil. Weak diss chl/bt. Weak carb fractures. Patchy weak sericite. No veining. Tr to 0.5% py.
175.00	176.50	1.50	108582	tonalite, weak patchy sil. Patchy weak to very weak hem. Carb alt on veins. Diss weak chl/bt. Minor very weak magnetite in some of the chl/bt clots. Tr-0.5% py, no veining.
182.16	183.50	1.34	108583	tonalite, grey colour, perv mod sericite. Chl/bt weak diss. Minor carb on fractures. Tr-0.5% py. No veining.
194.33	195.84	1.51	108585	tonalite, grey to pink grey colour. Spotty hem alt, chl/bt diss throughout. Minor carb on fractures. Tr -0.5% py. Minor qtz carb veining, 1-3%
195.84	196.25	0.41	108586	sheared gabbro dyke. Perv weak to mod chl. Diss weak to mod carb. Carb also as veins through start of dyke. 3-5% cbv. Highly fractured near end. Py up to 3-4% fg diss.
196.25	197.50	1.25	108587	tonalite as above. Patchy weak hem. Chl/bt diss weak throughout. Minor weak magnetite scattered through the chl/bt clusters. Carb weak on fractures. 2% qcv, tr - 0.5% py.
201.50	202.55	1.05	108588	tonalite, patchy weak hem. Chl/bt diss weak throughout. Minor weak magnetite scattered through the chl/bt clusters. Carb weak on fractures. 0.5% py. <1% cbv.
202.55	203.63	1.08	108589	lamprophyre dyke, pervasive weak to very weak magnetism. 3-5% cbv. Perv strong hem alt, weak to mod diss carb. Chl on fractures. 3-5% diss py.
203.63	205.00	1.37	108590	tonalite, patchy weak hem alt, chl/bt weak diss. Carb and chl on fractures, carb weak, chl mod. No veining. Py tr. Patchy weak mag.
209.53	211.00	1.47	108591	tonalite, patchy very weak hem alt. diss mod chl/bt. Heavier chl on fractures. Weak to very weak carb on fractures. 1% qtz sulphide veining. 1-1.5% py on vein, and 0.5-1% diss/frac controlled. Dark colour from heavier chl alt.
211.00	212.00	1.00	108592	tonalite, patchy weak hem. Weak diss mag. Weak to mod chl/bt diss, mod chl on fractures. Chl has noticable darker green colour. Several carb filled fractures, weak. Some possible strung out carb veins enchelon , but they don't go all the way through the core. Veining/fr
215.30	216.77	1.47	108593	tonalite, dark grey colour. Heavy chl and hem at end of sample. Mod to strong chl/bt diss, mod chl on fractures. Weak to mod carb on fractures. There are two veins of pyrite and qtz. Heavy net texture. Py up to 2-3%, veining 1-2%.
216.77	218.00	1.23	108594	tonalite, patchy very weak hem. Some weak sericite possibly, with diss weak to mod chl/bt. Carb weak on fractures. Mod chl fractures. No veining tr py.
219.00	220.54	1.54	108595	tonalite, patchy to pervasive weak hem alt. chl/bt diss weak. Weak to very weak diss mag in the chl/bt. Weak carb on fractures. Tr-0.5% py in clusters and diss.1% qtz carb veining.
220.54	221.57	1.03	108597	sheared gabbro dyke. Green black colour. Perv mod chl, and weak to mod diss carb. There is also weak to mod carb mtv and on fractures. Tr to 0.5% py. 5-8% qtz and qtz carb veining.
221.57	223.00	1.43	108598	tonalite, patchy weak to very weak hem alt. weak dis chl/bt. Weak carb on fractures. Weak diss mag. <1% cbv. Tr to 0.5% py.
230.57	232.05	1.48	108599	tonalite, weak patchy hem alt. weak chl/bt dis, with some moderate patches. Minor weak carb fractures. Qtz veining up to 5%, with 2 generations of veining. Tr to 0.5% py. One minor inclusion.
242.00	242.80	0.80	108600	tonalite, patchy weak hem alt, dis weak chl/bt, carb wk on fracs. <1% cbv. Tr py.
242.80	243.47	0.67	108601	QFP. Perv strong hem alt, except in qtz phenos. Wk carb alt fracts. Flecks of chl/bt. Tr py. No veining.
243.47	244.49	1.02	108602	tonalite, patchy weak hem alt, dis weak chl/bt, carb wk on fracs. <1% cbv. Tr py. One minor inclusion.

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From (m)	To (m)	Length (m)	Sample #	Comments
244.49	245.50	1.01	108603	diabase, black colour. Mod magnetism. Weak to mod carb alt fractures. Strong epidote alt on large (3-5cm) pheoncrysts.
255.00	256.00	1.00	108604	diabase, black colour, mod carb on fractures. Chilled at LC. Not magnetic.
256.00	257.50	1.50	108605	tonalite, pink to red brown colour. Weak to mod hem alt throughout on feldspar grains. Diss wk chl/bt throughout. Weak carb on fractures. No veining, tr py.
262.00	263.28	1.28	108606	tonalite, grey colour. Mod chl/bt diss, weak carb on fractures. No veining. Tr py.
263.28	263.95	0.67	108607	QFP, grey colour. Mostly obscured phenocrysts. Som weak hem alt, weak to mod carb on fractures. No veining. Tr py.
263.95	265.00	1.05	108608	tonalite, grey colour. Mod chl/bt diss, weak carb on fractures. No veining. Tr py.Patchy weak mag
270.50	272.20	1.70	108609	tonalite, grey colour. Weak to mod sericite throughout. Weak chl/bt diss. Minor weak carb fractures. No veining. 0.5% py.Patchy weak mag
272.20	273.00	0.80	108610	tonalite, light grey colour. Weak ser in patches. Chl/bt weak throughout. Minor weak carb on fractures. 1% qtz veining. Tr-0.5% py. Patchy weak mag
273.00	274.50	1.50	108611	tonalite, alt as above, with chl/bt getting mod down sample, <1% qtz veining, 0.5-1% py diss and on fractures.
274.50	276.00	1.50	108613	tonalite, grey to blueish colour. Diss mod chl/bt throughout. Weak carb on fractures. 5% qtz and qtz carb veining. Tr-0.5% py. Patchy weak mag.
286.00	287.50	1.50	108614	tonalite, pink grey colour. Diss weak to mod chl/bt. Spotty vw hem alt. weak carb fractures. 3% qtz veining. Tr-0.5% py. Patchy weak mag. Some spots with stronger chl/bt, darker coloured.
291.23	291.90	0.67	108615	Tonalite, strong chl/bt gives blackish colour between qtz grains. No veining. 2-4% py locally
297.00	298.50	1.50	108616	tonalite, diss chl/bt. Patchy hem alt in lower part, weak patches in upper part. 1% qv, tr py.
304.36	305.50	1.14	108617	Tonalite, dark grey colour, perv diss chl/bt. 5% qcv. Tr-0.5% py. There is a 16 cm chl carb shear with carb veining running through it.
310.00	311.00	1.00	108618	tonalite, grey colour, perv diss chl/bt (wk to mod), and weak sericite diss. Minor weak carb on fractures. 3-4% qtz and qtz carb veining, irreg orientation. Tr-0.25% py.
317.00	318.30	1.30	108619	tonalite perv mod chl/bt alt getting weaker down sample. Weak carb fracts. Spotty weak to very weak hem alt. <1% qv. Tr-0.25% py
318.30	319.73	1.43	108620	tonalite, massive, spotty vw hem alt. carb on fractures. Diss mag. Possible vw-w ser near end. No veining. Tr-0.25% py.
319.73	321.00	1.27	108621	qtz carb vein. Patchy weak hem alt in carb. Wk to strong chl on fractures (isolated strong). Small 3-5cm diabase dyke at start. No py visible
321.00	322.50	1.50	108622	tnlt, weak diss chl/bt, with patchy weak ser focused near top of sample. 2-3% qtz carb veining. Spotty vw hem alt. tr-0.25% py.
322.50	324.00	1.50	108623	tonalite, spotty wk hem alt. diss chl/bt wk. diss mag. 10% qtz veining as one large vein near end of sample. Vein has chl and carb through it. Tr-0.25%py
324.00	325.50	1.50	108625	tonalite alt as above. 8% qtz veining with carb around edges. Tr py
325.50	327.00	1.50	108626	tonalite, alt as above, 2% qtz-carb veining. Tr py.
327.00	327.77	0.77	108627	tonalite alt as above with patches of heavier chl/bt and less hem. No veining. Tr py.
327.77	329.00	1.23	108628	tonalite, massive as above, patchy blueish black and red colour. Heavy mod to strong chl through patches. Diss mag. Patchy wk to mod hem alt. Carb on fractures. No veining. Tr py.
329.00	330.00	1.00	108629	tonalite, hem alt spotted throughout, giving pink to reddish colour. Perv diss chl/bt throughout. Diss magnetite. Vw carb on fractures. No veining tr py.
330.00	331.50	1.50	108630	tnlt similar to above, heavier chl bt gives blackish colour. Patchy wk-vw hem alt. carb fractures and veins.py on some veins, up to 0.5%. 4% qtz and qtz carb veining.

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From (m)	To (m)	Length (m)	Sample #	Comments
331.50	333.02	1.52	108631	tnlt, spotty wk hem alt. diss wk chl/bt. Cb on some fractures. Diss mag. Pink colour overall. 1% qtz veining. Py tr to 0.25%
333.02	334.00	0.98	108632	tnlt alt as above. No veining, tr-0.25 % py.
334.00	335.00	1.00	108633	tnlt alt as above. No veining. One dark xenolith at 334.31, 5cm wide. Py tr to 0.25%.
335.00	336.47	1.47	108634	tnlt alt as above. No veining. Py tr to 0.25%.
336.47	338.00	1.53	108635	tnlt, patchy to perv weak to mod sil. Wk diss chl bt, weak to mod diss ser. Wk carb on fractures. <1% cbv. 0.25-0.5% py diss.
338.00	339.30	1.30	108637	tnlt alt as above. 3-5% py diss and banded around fractures. No veining.
339.30	340.47	1.17	108638	HYDRO ZONE: tnlt alt as above, with mod to str ser and vw chl/bt. No veining. Py up to 3-5% diss and around fractures. No veining.
340.47	341.50	1.03	108639	HYDRO ZONE: tnlt as above, heavier sil, mod to strong. No veining. 0.5-1% diss py.
341.50	342.57	1.07	108640	HYDRO ZONE: tnlt with intense sil. Patchy diss chl/bt and ser, wk and mod respectively. No visible veins(boundaries may be obscured). Blebby py, up to 0.5-1%. Carb blebs around py.
342.57	344.00	1.43	108641	HYDRO ZONE: tnlt, wk to mod sil, stronger near upper part of sample. Dis wk to mod chl and sericite, wk to mod, some carb on fractures. No veining. Py diss 0.5-2%
344.00	345.00	1.00	108642	HYDRO ZONE: tnlt, wk to mod sil, diss mod-strong chl and ser throughout. Carb on some fractures and in micas. No veining, py diss up to 5-6%.
345.00	345.89	0.89	108643	HYDRO ZONE:, tnlt as above, no veining, some heavier carb alt near lc with shear zone. Foliation developing down sample. No veining. Py diss up to 2-3%.
345.89	346.25	0.36	108644	HYDRO ZONE: shear zone. Sharp contact. Intense chl and ser alt. highly crumbly. Some veining visible, unsure of %. Two 1cm wide veins seen. Py diss, up to 1-2%,
346.25	347.50	1.25	108645	HYDRO ZONE: tnlt alt as108643. up to 1% qtz carb veining. Py up to 1%.
347.50	349.00	1.50	108646	HYDRO ZONE: tnlt, vw to wk sil. Wk carb on fractures. Mod diss chl and ser. No veining. Heavy net texture. Py up to 3-5%.
349.00	350.53	1.53	108647	HYDRO ZONE: tnlt, weak to mod sil pv. Wk to mod diss ser, wk diss chl. Cb on fractures. No veining. Py diss 0.5-1.5%.
350.53	352.00	1.47	108649	HYDRO ZONE: tnlt alt as above. <1% qtz veining. Py tr to 0.25%.
352.00	353.00	1.00	108650	HYDRO ZONE: tnlt alt as above. No veining. Tr to 0.25% py.
353.00	354.47	1.47	108651	HYDRO ZONE: tnlt, perv mod to str chl and sericite. Heavy netting. Wk to vw carb on some fractures. No veining. Py up to 0.5%
354.47	355.75	1.28	108652	tnlt. Wk patchy ser near start. Perv diss chl with possible bt throughout. Carb on fractures. Patchy weak sil. No veining. Py up to 0.5%.
355.75	357.00	1.25	108653	tnlt, perv diss chl/bt, diss mag. Spotty vw to wk hem alt. wk carb on fractures.
357.00	358.50	1.50	108654	tnlt, alt as above. More hem alt gives pinker colour. No veining. Tr-0.25% py. Small dark enclave at the end of the sample, 7cm wide, with higher py, up to 5% locally.
358.50	359.92	1.42	108655	tnlt, alt as above but less hem alt, giving greyish colour. No veining. Py tr-0.25%.
359.92	361.23	1.31	108656	tnlt, alt as above. Grey colour. <1% qtz carb veining. Py diss and on fractures, 0.5%
361.23	362.07	0.84	108657	tnlt. Spotty mod hem alt at start gives reddish colour, getting more grey down core. Perv diss chl/bt throughout, wk to mod. Diss mag. Wk carb on fracs. 4-6% qtz veining. Py up to 0.25%.
362.07	363.50	1.43	108658	tnlt grey colour, patchy wk to vw ser. Perv diss wk to mod chl/bt. Wk carb on fracs. No veining, tr-0.2% py.

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From (m)	To (m)	Length (m)	Sample #	Comments
363.50	365.00	1.50	108659	tnlt alt as above. No veining, py tr-0.25%
365.00	366.21	1.21	108661	tnlt as above for chl/bt and carb. Ser starts to get wk to mod. No veining, py tr-0.25%. Mafic dykelet from 366.15-366.21
366.21	367.47	1.26	108662	tnlt. Perv wk to mod ser and chl/bt, with ser dissappearing in last half of sample. No veining. Tr to 0.25% py.
367.47	368.74	1.27	108663	diabase. Perv mag. Ep alt phenos. Minor carb veining. Diss carb alt. no py.
368.74	370.00	1.26	108664	tnlt, perv diss wk to mod chl/bt. Patchy mag. Spotty hem alt gives pink flecks. Wk carb on fracs. No veining. Py up to tr-0.25%.
370.00	371.50	1.50	108665	tnlt, alt as above, patchy sericite alt (wk). 2% qtz veining. Py up to 0.25-0.5%, higher in chl alt areas.
371.50	373.00	1.50	108666	tnlt, alt as above. 1% qv. Py tr to 0.25%. Isolated fragments at 372 and 372.56m.
373.00	374.50	1.50	108667	tnlt, alt as above. 1% qv. Py tr-0.25%.
374.50	375.26	0.76	108668	tnlt, alt as above. 4-6% qv. Tr to 0.25% py.
375.26	376.00	0.74	108669	tnlt, alt as above with mod chl in some spots giving a darker colour, obscuring hem alt. 3-4% qv. Tr-0.25% py.
376.00	377.00	1.00	108670	tnlt. Perv diss chl/bt. Carb on fractures. No veining. Tr-0.25% py.

DRILL HOLE REPORT

Hole Number: **WAT17-05** Project: **TAAC** Project Number: **259**

Drilling

Azimuth:	356
Dip:	-46
Length:	230
Started:	17-Apr-17
Completed:	19-Apr-17
Logged:	17-Apr-17
Township:	CHESTER

Casing

Length:	6
Pulled:	no
Capped:	yes
Cemented:	no
Left in hole:	no
Making water:	yes
Plugged:	no

Core

Dimension:	NQ
Diam Chang:	no
Storage:	Klondike Lodge
Hole Type	DDH
Logged by:	Stephen Roach
Relog by:	

Location

Claim No.:	129028, 102012
NTS:	41-P/12
Hole:	SURFACE
Section:	49+00 East
Zone:	17
NAD:	NAD83

Other

Company:	IAMGOLD
Contractor:	Laframbois
Spotted by:	Stephen Roach
Surveyed:	yes
Surveyed by:	Larry Labelle
Multi shot su	yes

Target: IP Chargeability Targets

Comment: Intersection of IP-3, 4, and 7 (5.2 to 8.15 mV/v) with resistivity break and complex local highs and lows; subtle NW magnetic break; closest to the Errington Creek Flt and mafic/felsic metavolcanic contacts with CIC located in the southern part of the RDZ

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	434899.18	**East:**	434899.18	**East:**	0
North:	5270385.78	**North:**	5270385.78	**North:**	0
Elev.:	377.48	**Elev.:**	377.48	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
0.00	356.00	-46.00	0	0	0		C	☑	
2.00	349.90	-45.90				61181	M	☑	
5.00	350.00	-45.90				61178	M	☑	
8.00	350.00	-45.90				61181	M	☑	
11.00	349.90	-46.00				61178	M	☑	
14.00	353.10	-45.40				57415	M	☑	
17.00	355.10	-45.80				57081	M	☑	
20.00	355.80	-45.60				55968	M	☑	
23.00	355.60	-45.50				55738	M	☑	
26.00	355.20	-45.50				55534	M	☑	
29.00	355.20	-45.30				55404	M	☑	
32.00	355.40	-45.40				55332	M	☑	
35.00	357.00	-45.10				55289	M	☑	
38.00	355.00	-45.00				55251	M	☑	
41.00	355.40	-45.00				55211	M	☑	

DRILL HOLE REPORT

Hole Number: **WAT17-05** Project: **TAAC** Project Number: **259**

Drilling		Casing		Core		Location		Other	
Azimuth:	356	**Length:**	6	**Dimension:**	NQ	**Claim No.:**	129028, 102012	**Company:**	IAMGOLD
Dip:	-46	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframbois
Length:	230	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Stephen Roach
Started:	17-Apr-17	**Cemented:**	no	**Hole Type**	DDH	**Section:**	49+00 East	**Surveyed:**	yes
Completed:	19-Apr-17	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	Larry Labelle
Logged:	17-Apr-17	**Making water:**	yes	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: IP Chargeability Targets

Comment: Intersection of IP-3, 4, and 7 (5.2 to 8.15 mV/v) with resistivity break and complex local highs and lows; subtle NW magnetic break; closest to the Errington Creek Flt and mafic/felsic metavolcanic contacts with CIC located in the southern part of the RDZ

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	434899.18	**East:**	434899.18	**East:**	0
North:	5270385.78	**North:**	5270385.78	**North:**	0
Elev.:	377.48	**Elev.:**	377.48	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
44.00	355.60	-44.90				55211	M	☑	
47.00	355.80	-44.80				55180	M	☑	
50.00	355.00	-44.70				55177	M	☑	
53.00	354.80	-44.40				55177	M	☑	
56.00	355.20	-44.50				55167	M	☑	
59.00	355.40	-44.50				55167	M	☑	
62.00	355.40	-44.50				55167	M	☑	
65.00	355.00	-44.50				55161	M	☑	
68.00	355.60	-44.30				55165	M	☑	
71.00	355.30	-44.40				55139	M	☑	
74.00	356.10	-44.30				55254	M	☑	
77.00	355.70	-44.10				55175	M	☑	
80.00	355.40	-44.10				55142	M	☑	
83.00	355.40	-44.20				55128	M	☑	
86.00	355.10	-44.20				55053	M	☑	
89.00	355.50	-43.90				55082	M	☑	

DRILL HOLE REPORT

Hole Number: **WAT17-05** Project: **TAAC** Project Number: **259**

Drilling		Casing		Core		Location		Other	
Azimuth:	356	**Length:**	6	**Dimension:**	NQ	**Claim No.:**	129028, 102012	**Company:**	IAMGOLD
Dip:	-46	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframbois
Length:	230	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Stephen Roach
Started:	17-Apr-17	**Cemented:**	no	**Hole Type**	DDH	**Section:**	49+00 East	**Surveyed:**	yes
Completed:	19-Apr-17	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	Larry Labelle
Logged:	17-Apr-17	**Making water:**	yes	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: IP Chargeability Targets

Comment: Intersection of IP-3, 4, and 7 (5.2 to 8.15 mV/v) with resistivity break and complex local highs and lows; subtle NW magnetic break; closest to the Errington Creek Flt and mafic/felsic metavolcanic contacts with CIC located in the southern part of the RDZ

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	434899.18	**East:**	434899.18	**East:**	0
North:	5270385.78	**North:**	5270385.78	**North:**	0
Elev.:	377.48	**Elev.:**	377.48	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
92.00	354.90	-44.10				55096	M	☑	
95.00	355.10	-43.80				55190	M	☑	
98.00	356.00	-44.00				55741	M	☑	
101.00	355.90	-44.00				55038	M	☑	
104.00	355.10	-43.90				54993	M	☑	
107.00	355.40	-43.70				55158	M	☑	
110.00	355.30	-43.60				55141	M	☑	
113.00	355.00	-43.80				55125	M	☑	
116.00	355.30	-43.60				55158	M	☑	
119.00	355.40	-43.60				55159	M	☑	
122.00	355.20	-43.60				55135	M	☑	
125.00	355.60	-43.50				55145	M	☑	
128.00	355.50	-43.40				55160	M	☑	
131.00	355.10	-43.40				55154	M	☑	
134.00	355.40	-43.10				55166	M	☑	
137.00	355.20	-43.20				55148	M	☑	

DRILL HOLE REPORT

Hole Number: **WAT17-05** Project: **TAAC** Project Number: **259**

Drilling		Casing		Core		Location		Other	
Azimuth:	356	**Length:**	6	**Dimension:**	NQ	**Claim No.:**	129028, 102012	**Company:**	IAMGOLD
Dip:	-46	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframbois
Length:	230	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Stephen Roach
Started:	17-Apr-17	**Cemented:**	no	**Hole Type**	DDH	**Section:**	49+00 East	**Surveyed:**	yes
Completed:	19-Apr-17	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	Larry Labelle
Logged:	17-Apr-17	**Making water:**	yes	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: IP Chargeability Targets

Comment: Intersection of IP-3, 4, and 7 (5.2 to 8.15 mV/v) with resistivity break and complex local highs and lows; subtle NW magnetic break; closest to the Errington Creek Flt and mafic/felsic metavolcanic contacts with CIC located in the southern part of the RDZ

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	434899.18	**East:**	434899.18	**East:**	0
North:	5270385.78	**North:**	5270385.78	**North:**	0
Elev.:	377.48	**Elev.:**	377.48	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
140.00	355.60	-42.80				55160	M	☑	
143.00	355.30	-42.80				55149	M	☑	
146.00	355.30	-42.80				55146	M	☑	
149.00	355.50	-42.70				55131	M	☑	
152.00	355.50	-42.70				55142	M	☑	
155.00	355.60	-42.50				55131	M	☑	
158.00	355.70	-42.40				55140	M	☑	
161.00	355.80	-42.50				55135	M	☑	
164.00	355.90	-42.40				55163	M	☑	
167.00	355.60	-42.40				55116	M	☑	
170.00	355.90	-42.40				55133	M	☑	
173.00	355.90	-42.50				55116	M	☑	
176.00	355.90	-42.30				55107	M	☑	
179.00	356.10	-42.20				55119	M	☑	
182.00	356.10	-42.30				55113	M	☑	
185.00	356.10	-42.30				55107	M	☑	

DRILL HOLE REPORT

Hole Number: **WAT17-05** Project: **TAAC** Project Number: **259**

Drilling		Casing		Core		Location		Other	
Azimuth:	356	**Length:**	6	**Dimension:**	NQ	**Claim No.:**	129028, 102012	**Company:**	IAMGOLD
Dip:	-46	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframbois
Length:	230	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Stephen Roach
Started:	17-Apr-17	**Cemented:**	no	**Hole Type**	DDH	**Section:**	49+00 East	**Surveyed:**	yes
Completed:	19-Apr-17	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	Larry Labelle
Logged:	17-Apr-17	**Making water:**	yes	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: IP Chargeability Targets

Comment: Intersection of IP-3, 4, and 7 (5.2 to 8.15 mV/v) with resistivity break and complex local highs and lows; subtle NW magnetic break; closest to the Errington Creek Flt and mafic/felsic metavolcanic contacts with CIC located in the southern part of the RDZ

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	434899.18	**East:**	434899.18	**East:**	0
North:	5270385.78	**North:**	5270385.78	**North:**	0
Elev.:	377.48	**Elev.:**	377.48	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
188.00	356.30	-42.20				55114	M	☑	
191.00	356.10	-42.30				55100	M	☑	
194.00	356.60	-42.20				55111	M	☑	
197.00	356.20	-42.20				55065	M	☑	
200.00	356.50	-42.20				55099	M	☐	
203.00	356.50	-42.00				55104	M	☑	
206.00	356.20	-42.10				55099	M	☑	
209.00	356.50	-42.00				55085	M	☑	
212.00	356.50	-41.90				55091	M	☑	
215.00	356.40	-42.00				55097	M	☑	
218.00	356.30	-41.90				55238	M	☑	
221.00	355.10	-41.90				55691	M	☑	
224.00	354.50	-41.90				55183	M	☑	
227.00	360.20	-41.70				54525	M	☑	
230.00	359.20	-41.80				55242	M	☑	

LITHOLOGY REPORT
- Detailed -

Hole Number **WAT17-05** Project: **TAAC** Project Number: **259**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
0.00	4.35	**Overburden** **OB** ***Overburden***	5	5	BR									
		Overburden (Casing - 6.0 meters) - clay and granitic boulders towards 4.35												
4.35	9.10	**Fresh Rock** **14B** ***Diabase Dyke***	1	1	BLK									
		Diabase Dyke - greenish black, black, to dark green colors, mafic composition with strong pervasive carbonate (calcite), 10% to 20% vfg biotite/muscovite in a vfg and aphanitic matrix, massive appearance, occasional to widely scattered cs/qcs < 1% to 2% up to 5 cm in width.												
		Mineralization - occasional py < 1% and moderately to strongly magnetic with vfg 3% to 5% disseminated magnetite												
		Contact - sharp contact with well developed chill zone 60 from C.A.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		4.35 - 9.10 CB PV 4 Carbonatization, Pervasive, Strong												

LITHOLOGY REPORT
- Detailed -

Hole Number **WAT17-05** Project: **TAAC** Project Number: **259**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
9.10	33.10	**Fresh Rock** **SH** ***Sericite-(Chlorite) Shear (Sheared Serci***	1	1	GY

Sericite-(Chlorite) Shear (Sheared Sercitic Felsic Tuff/Crystal Tuff) - greenish gray, light gray, to bleached white colors, altered felsic composition with moderate to strong shear controlled seriicite-(chlorite-carbonate) with intermediate variable mixture of ser-chl-cb; gradual increase in chl with wk to local moderate cb towards 31.95, bleached white intense and pervasive sericite alteration with tour sh fractures from 31.95 to 33.1, scattered vfg to fg relict fractured and broken quartz crystals up to 5%....strained quartz-eyes forming as quartz-eye aggregates.

- strongly sheared relict fragmental texture varying 48 to 65 from C.A. (averaging 57 from C.A) showing mainly Z-shape dextral movement with axial planar FA…..

At 11.8 - 78 from C.A.
At 17.4 - 25 from C.A
At 24.05 - 24 from C.A.

- relict fragmental texture shows strongly flattened felic fragments up to <0.5 to 1.0 cm in size, occasional to widely scattered qcs/qs up to 8 cm wide…ranges < 1% to locally 10%, averaging 2% to 3%

Mineralization - occasional py < 0.5% with slight increase in py up to 1% from 29.7 to 31.05, py occurs as sh grains
Contact - gradational increase in pyrite

Alteration Maj:	***Type/Style/Intensity***	***Comment***
9.10 - 31.95	CB PV 2	Carbonatization, Pervasive, Weak to Moderate
9.10 - 31.95	CL PV 2	Chloritization, Pervasive, Weak to Moderate
9.10 - 31.95	SR PV 3	Sericitization, Pervasive, Moderate to Strong and Shear Controlled
31.95 - 33.10	SR PV 4	Sericitization, Pervasive, Strong to Intense

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
29.70 - 31.05	Py DIS 1	Pyrite, Disseminated, 1%

Minor Interval:

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
282511	9.10	10.10	1.00	-	-	0.00	-	-
282513	10.10	11.10	1.00	-	-	0.00	-	-
282514	11.10	12.10	1.00	-	-	0.00	-	-
282515	12.10	13.00	0.90	-	-	0.00	-	-
282516	13.00	14.00	1.00	-	-	0.00	-	-
282517	14.00	14.70	0.70	-	-	0.00	-	-
282518	14.70	15.60	0.90	-	-	0.00	-	-
282519	15.60	15.90	0.30	-	-	0.00	-	-
282520	15.90	17.00	1.10	-	-	0.00	-	-
282521	17.00	18.00	1.00	-	-	0.00	-	-
282522	18.00	19.00	1.00	-	-	0.00	-	-
282523	19.00	20.00	1.00	-	-	0.00	-	-
282525	20.00	21.00	1.00	-	-	0.00	-	-
282526	21.00	22.00	1.00	-	-	0.00	-	-
282527	22.00	22.50	0.50	-	-	0.00	-	-
282528	22.50	23.50	1.00	-	-	0.00	-	-
282529	23.50	24.50	1.00	-	-	0.00	-	-
282530	24.50	25.60	1.10	-	-	0.00	-	-
282531	25.60	25.90	0.30	-	-	0.00	-	-
282532	25.90	26.40	0.50	-	-	0.00	-	-
282533	26.40	27.00	0.60	-	-	0.00	-	-
282534	27.00	28.00	1.00	-	-	0.00	-	-
282535	28.00	29.00	1.00	-	-	0.00	-	-
282537	29.00	29.70	0.70	-	-	0.00	-	-
282538	29.70	30.35	0.65	-	-	0.00	-	-
282539	30.35	31.05	0.70	-	-	0.00	-	-
282540	31.05	31.95	0.90	-	-	0.00	-	-

LITHOLOGY REPORT
- Detailed -

Hole Number **WAT17-05** Project: **TAAC** Project Number: **259**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
9.70	10.10	Fresh Rock FLTg *Fault Gouge*		2	
		Fault Gouge - greenish gray to gray color, strong ser-cb with strongly broken core and gouge, strongly sheared, <1% qcs and py, sharp contacts			
33.10	36.90	**Fresh Rock SH *Chlorite-Sericite-Pyrite Shear (Sheared***	1	1	GG
		Chlorite-Sericite-Pyrite Shear (Sheared Altered and Mineralized Felsic Tuff) - greenish gray yo grayish green color, altered felsic composition with a mixture of moderate to strong shear controlled chlorite and sericite alteration with chl>ser from 33.1 to 34.5 and ser>chl from 34.5 to 36.9, relict vfg to fg qtz xtls in the more serictic alteration up to 5%.			
		- strongly sheared with variable core angles from 51 to 70 from C.A. with qcs fractures 30 to 60 from C.A., varibale fracturing with qcs/qs up to 16 cm wide ranging from < 1% to locally 15%, averaging 10% to 12% with a significant increase from 35.5 to 36.0 (32% qcs/qs) with a 16 cm wide quartz-carbonate veinlet.			
		Mineralization - 1% to 5% vfg to fg pyrite generally occurring as detached msv lenses and thin bands up to 3 cm wide associated with quartz, average py ranges from 3% to 4% along shear planes as well as vfg disseminations in some of the qcs/qs			
		Contact - gradational decrease in pyrite			

Alteration Maj:	Type/Style/Intensity	Comment
33.10 - 34.50	CB SP 2	Carbonatization, Along Shear Planes, Weak
33.10 - 34.50	SR PV 3	Sericitization, Pervasive, Moderate
33.10 - 34.50	CL PV 4	Chloritization, Pervasive, Strong
34.50 - 36.90	CB SP 2	Carbonatization, Along Shear Planes, Weak
34.50 - 36.90	CL PV 3	Chloritization, Pervasive, Moderate
34.50 - 36.90	SR PV 4	Sericitization, Pervasive, Strong

Mineralization Maj. :	Type/Style/%Mineral	Comment
33.10 - 36.90	Py DIS 3	Pyrite, Disseminated, 3% to 4% average

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
282541	31.95	32.50	0.55	-	-	0.00	-	-
282542	32.50	33.10	0.60	-	-	0.00	-	-
282543	33.10	33.50	0.40	-	-	0.00	-	-
282544	33.50	34.00	0.50	-	-	0.00	-	-
282545	34.00	34.50	0.50	-	-	0.00	-	-
282546	34.50	35.00	0.50	-	-	0.00	-	-
282547	35.00	35.50	0.50	-	-	0.00	-	-
282549	35.50	36.00	0.50	-	-	0.00	-	-
282550	36.00	36.50	0.50	-	-	0.00	-	-
282551	36.50	36.90	0.40	-	-	0.00	-	-

LITHOLOGY REPORT
- Detailed -

Hole Number **WAT17-05** Project: **TAAC** Project Number: **259**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
36.90	51.75	**Fresh Rock** **SH** ***Sericite-Chlorite-(Silicified) Shear***	1	1	GG

Sericite-Chlorite-(Silicified) Shear (Sheared & Altered Felsic Tuff Breccia) - greenish gray, grayish green and gray to light gray colors, altered felsic composition with moderate ser>chl with wk to locally moderate sil, weak cb generally mod cb found along sh slip planes, scattered to tightly packed sil-ser and sil QFP sheared clasts up to 19 cm in width (form and occur as bands)…QFP is mod sil with local clasts strongly sil with relict fg to cg qtz-fd phenocrysts (5% to 20%) set in a vfg silicified-(sericitic) matrix.

- strongly sheared texture ranging from 52 to 70 from C.A. (averages 62 from C.A.), occasional to scattered qs/qcs up to 4 cm wide…..<1% to 10% qcs/qs with increased veining from 45.0 to 47.0 (5% tom 10%)

Mineralization - occasional to very widely scattered sh py <1%, occasional wisp like py lenses in the shear planes
Contact - sharp contact 56 from C.A.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
36.90 - 51.75	CB SP 2	Carbonatization, Along Shear Planes, Weak
36.90 - 51.75	SI BNDS 2	Silicification, Bands/Banded, Weak to Moderate
36.90 - 51.75	CL PV 2	Chloritization, Pervasive, Weak to Moderate
36.90 - 51.75	SR PV 3	Sericitization, Pervasive, Moderate to Strong

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
36.90 - 51.75	Py BLB 1	Pyrite, Blebs, <1%

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
51.75	53.10	**Fresh Rock** **QTS W** ***Weak Quartz-Carbonate Stockwork***	1	1	BE

Weak Quartz-Carbonate Stockwork - beige to dirty brownish grayish green color, altered mafic? with strong pervasive sericite and carbonate (calcite), vfg and strongly sheared 50 to 60 from C.A. and qcs/qs 40 to 70 from C.A., fractured with 105 to 18% qcs/qs up to 4 cm wide with scattered black tour xtls up to 1%

Mineralization - occasional vfg py < 1%
Contact - sharp contact 50 from C.A.

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
282552	36.90	37.50	0.60	-	-	0.00	-	-
282553	37.50	38.00	0.50	-	-	0.00	-	-
282554	38.00	38.50	0.50	-	-	0.00	-	-
282555	38.50	39.00	0.50	-	-	0.02	-	-
282556	39.00	39.50	0.50	-	-	0.00	-	-
282557	39.50	39.90	0.40	-	-	0.00	-	-
282558	39.90	41.00	1.10	-	-	0.00	-	-
282559	41.00	42.00	1.00	-	-	0.00	-	-
282561	42.00	43.00	1.00	-	-	0.00	-	-
282562	43.00	44.00	1.00	-	-	0.00	-	-
282563	44.00	45.00	1.00	-	-	0.02	-	-
282564	45.00	46.00	1.00	-	-	0.00	-	-
282565	46.00	46.50	0.50	-	-	0.00	-	-
282566	46.50	47.00	0.50	-	-	0.00	-	-
282567	47.00	48.00	1.00	-	-	0.00	-	-
282568	48.00	48.50	0.50	-	-	0.00	-	-
282569	48.50	49.00	0.50	-	-	0.00	-	-
282570	49.00	49.80	0.80	-	-	0.00	-	-
282571	49.80	50.80	1.00	-	-	0.00	-	-
282573	50.80	51.75	0.95	-	-	0.00	-	-
282574	51.75	52.45	0.70	-	-	0.00	-	-
282575	52.45	53.10	0.65	-	-	0.00	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		51.75 - 53.10 CB MX 4 Carbonatization, Matrix, Strong												
		51.75 - 53.10 SR MX 4 Sericitization, Matrix, Strong												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		51.75 - 53.10 Py BLB 1 Pyrite, Blebs, <1%												
53.10	59.35	**Fresh Rock** **2B** ***Mafic Massive Flow***	1	1	GR	282576	53.10	53.90	0.80	-	-	0.00	-	-
						282577	53.90	54.50	0.60	-	-	0.00	-	-
						282578	54.50	55.00	0.50	-	-	0.00	-	-
						282579	58.85	59.35	0.50	-	-	0.00	-	-

Mafic Massive Flow - gree and dirty beige-brown gray color, mafic composition with mod chl and wk cb in matrix and strong cb in fractures, strong pervasive ser-cb in upper contact from 53.1 to 53.9 with gradational decrease in ser to 54.5.

- vfg and masive being weak to moderately sheared 60 to 70 from C.A. (average 63.6 from C.A.), scattered qcs/qs up to 4cm with local 10% to 15% qcs/qs from 54.1 to 54.5 associated with strong cb>ser alteration

Mineralization - occasional py < 1%
Contact - sharp and broken contact

Alteration Maj:	***Type/Style/Intensity***	***Comment***
53.10 - 59.35	CB FRC 4	Carbonatization, Along Fractures, Strong
53.10 - 59.35	CB MX 2	Carbonatization, Matrix, Weak
53.10 - 59.35	CL MX 3	Chloritization, Matrix, Moderate

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
53.10 - 59.35	Py BLB 1	Pyrite, Blebs, <1%

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
59.35	64.35	**Fresh Rock** **2G** ***Sheared & Carbonate-Sericitic Mafic Pill***	1	1	BE

Sheared & Carbonate-Sericitic Mafic Pillow Flow - beige to dirty bownish gray color, altered mafic composition with strong pervasive carbonate and sericite alteration with numerous calcite-rich carbonate pillow interstices 1 to 2 cm wide,tightly packed flattened and reworked pillows due to strong sh 50 to 75 from C.A (average 62 from C.A), scattered qcs/qs/cs up to 10 cm wide averaging 5% to 7%, but locally 10% to 15%

Mineralization - occasional to locally scattered py < 1%
Contact - gradational contact

Alteration Maj:	Type/Style/Intensity	Comment
59.35 - 64.35	SR PV 4	Sericitization, Pervasive, Strong
59.35 - 64.35	CB PV 4	Carbonatization, Pervasive, Strong

Mineralization Maj. :	Type/Style/%Mineral	Comment
59.35 - 64.35	Py BLB 1	Pyrite, Blebs, <1%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
282580	59.35	60.35	1.00	-	-	0.00	-	-
282581	60.35	61.35	1.00	-	-	0.00	-	-
282582	61.35	62.35	1.00	-	-	0.00	-	-
282583	62.35	63.35	1.00	-	-	0.00	-	-
282585	63.35	64.35	1.00	-	-	0.00	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
64.35	66.45	**Fresh Rock** **2L** ***Sheared and Laminated Mafic VolcanicI***	1	1	GG

Sheared and Laminated Mafic Volcaniclastic-Epiclastic - grayish green to dirty greenish gray color, altered mafic composition with weak to moderate carbonate in matrix and locally strong carbonate with weak to moderate sericite alteration, strongly sh 64 to 68 from C.A. with well developed laminations/thin bands from 66.25 to 66.45 ranging from 85 to 90 from C.A., scattered qs/qcs up to 3 cm wide (3% to 4%).

Mineralization - occasional py < 1%
Contact - sharp contact 55 from C.A with a 3 cm wide qcs

Alteration Maj:	Type/Style/Intensity	Comment
64.35 - 66.45	SR MX 2	Sericitization, Matrix, Weak to Moderate
64.35 - 66.45	CB MX 2	Carbonatization, Matrix, Weak to Moderate and locally Strong

Mineralization Maj. :	Type/Style/%Mineral	Comment
64.35 - 66.45	Py BLB 1	Pyrite, Blebs, <1%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
282586	64.35	65.35	1.00	-	-	0.01	-	-
282587	65.35	66.25	0.90	-	-	0.00	-	-
282588	66.25	66.45	0.20	-	-	0.00	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
66.45	67.55	**Fresh Rock** **SH** ***Sericite Shear (Sericiitc Felsic Tuf)***	1	1	LGR	282589	66.45	67.00	0.55	-	-	0.00	-	-
						282590	67.00	67.55	0.55	-	-	0.00	-	-
67.55	69.75	**Fresh Rock** **4J** ***Sericitic Felsic Volcaniclastic-Epiclastic***	1	1	GG	282591	67.55	68.00	0.45	-	-	0.00	-	-
						282592	68.00	68.55	0.55	-	-	0.01	-	-
						282593	68.55	69.20	0.65	-	-	0.01	-	-
						282594	69.20	69.75	0.55	-	-	0.00	-	-

Sericite Shear (Sericiitc Felsic Tuff) - light green, grayish green, and beige-greenish colors, altered felsic composition with moderate to strong shear controlled sericite alteration with weak carbonate, scattered vfg to fg (<0.1 cm in size) quartz xtls up to 1%.....5% scattered black grains (Mn xtls), strongly sheared texture 55 to 60 from C.A., 5% to 10% qcs/qs up to 3 cm wide parallel to shearing

Mineralization - vfg scattered py ranging from up to 1% to 3% with relative increase in py at lower contact
Contact - sharp irregular contact 20 to 43 from C.A with 5 cm wide qcs

Alteration Maj:	***Type/Style/Intensity***	***Comment***
66.45 - 67.55	CB SP 2	Carbonatization, Along Shear Planes, Weak
66.45 - 67.55	SR SP 4	Sericitization, Along Shear Planes, Strong

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
66.45 - 67.55	Py DIS 1	Pyrite, Disseminated, 1% to 3% increasing towards 67.55

Sericitic Felsic Volcaniclastic-Epiclastic - dirty beige grayish green colors, altered reworked felsic composition with moderate sericite and wk cb with increased mod cb in matrix/fractures/shear planes from 69.4 to 69.75, occurrence of thin siliceous cherty laminations in the more developed laminatedbanded parts of the unit

- well developed primary compositional laminations/thin bnds up to 0.5cm wide.40 to 60 from C.A. generally parallel to strongly sheared upper part from 67.55 to 68.5, local contortions and parasitic folding with development of F.A. 90 from C.A. and 20 from C.A. (2 generations of folding), localized qcs/qs generally towards the bottom of the interval with vn between 1 to 20 cm wide.

Mineralization - occasional to local vfg py in wallrock with local increases near and in veining, overall <

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		1% py-(aspy), local increase from 69.4 to 69.5 with 5% py with possible arsenian py, observed local blebs of aspy in qcs/qs at 68.4 and at 69.3												
		Contact - sharp contact 60 from C.A.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		67.55 - 69.75 CB FRC 3 Carbonatization, Along Fractures, Moderate												
		67.55 - 69.75 CB MX 2 Carbonatization, Matrix, Weak												
		67.55 - 69.75 SR MX 3 Sericitization, Matrix, Moderate												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		67.55 - 69.75 Aspy BLB 1 Arsenopyrite, Blebs, <1%												
		67.55 - 69.75 Py BLB 1 Pyrite, Blebs, <1%												
69.75	94.60	**Fresh Rock** **2G** ***Sheared Mafic Pillow Flow***	1	1	GR	282595	69.75	71.00	1.25	-	-	0.00	-	-
		Sheared Mafic Pillow Flow - green and local beige brownish green color, mafic composition with moderate chlorite and moderate to strong carbonate (calcite), pillow interstices are composed of calcite and as chlorite-calcite-epidote selvages up to <0.5 to 3 cm wide and form as sheared bands, gradual increase in beige colored moderate sericite with moderate to strong carbonate from 78.35 (sharp 60 from C.A.) to 80.3 and from 91.65 to 92.5 with a gradational contact				282597	71.00	72.00	1.00	-	-	0.00	-	-
						282598	77.35	78.35	1.00	-	-	0.00	-	-
						282599	78.35	79.40	1.05	-	-	0.00	-	-
						282600	79.40	80.30	0.90	-	-	0.00	-	-
						282601	80.30	81.30	1.00	-	-	0.00	-	-
		- strongly sheared pillow texture varying from 45 to 60 from C.A typically averaging 55 to 60 from C.A (average is 57 from C.A.), tightly packed pillows up to 10 cm wide becoming more massive in appearance from 93.2 to 94.6, scattered qcs/cs parallel to sh up to 3 cm wide and averaging 1% to 4%.												
		Mineralization - widely scattered ubiquitous pyrite cubes up to 1% with thin local sections ranging from 1% to 3%.												
		Contact - sharp contact 50 from C.A.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		69.75 - 94.60 CL MX 3 Chloritization, Matrix, Moderate												
		69.75 - 94.60 CB IS 3 Carbonatization, Interstitial, Moderate to Strong Pillow Interstices and Matrix												

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		69.75 - 94.60 Py DIS 1 Pyrite, Disseminated, up to 1% and thin sections 1% to 3%												
94.60	97.65	**Fresh Rock** **14B** ***Diabase Dyke***	1	1	BLK									
		Diabase Dyke - black color, mafic composition with weak carbonate (calcite) in vfg ferromagnesian-rich matrix consisting of pyroxene-amphibole and possible olivine, scattered bright green serpentine in fractures, massive appearance, <1% qcs.												
		Mineralization- <0.5% py and weakly to moderately magnetic with magnetism decreasing towards 97.65 Contact - sharp contact 83 from C.A.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		94.60 - 97.65 CB MX 2 Carbonatization, Matrix, Weak												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		94.60 - 97.65 Py BLB 0.5 Pyrite, Blebs, <0.5%												
97.65	106.35	**Fresh Rock** **2L** ***Sheared/Banded Mafic Volcaniclastic (P***	1	1	GR	282602	105.85	106.35	0.50	-	-	0.00	-	-
		Sheared and (Carbonate-Altered) Mafic Volcaniclastic (Pillow Flow?) - green color and dirty beige brownish green from 105.3 to 106.35 colors, mafic composition with mod Fe-rich chl with wk cb with gradual increase in strong cb with sericite from 105.3 to 106.35 (beige color), patchy magnetite with variable weak to strong magnetism.												
		- sheared banded texture (sheared and ultra-flattended pillows) ranging 60 to 70 from C.A (average is 64 from C.A.), widely scattered qs/qcs < 1% to 2% with more frequent qcs in the stronger carbonate section from 105.3 to 106.35 with 2% to 3% qcs												
		Mineralization - occasional to widely scattered py <1% and variable weak to strongly magnetic with vfg to												

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		fg black magnetite along shear planes and as vfg dissemination in matrix Contact - gradational contact with more reworking and carbonate from 105.3 to 106.35												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		97.65 - 105.30 CB MX 2 Carbonatization, Matrix, Weak												
		97.65 - 105.30 CL MX 3 Chloritization, Matrix, Moderate												
		105.30 - 106.35 SR MX 3 Sericitization, Matrix, Moderate												
		105.30 - 106.35 CB MX 4 Carbonatization, Matrix, Strong												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		97.65 - 106.35 Py BLB 1 Pyrite, Blebs, <1%												
106.35	110.15	**Fresh Rock** **2G** ***Sheared and Carbonate-Sericitic Altere***	1	1	BE	282603	106.35	107.10	0.75	-	-	0.00	-	-
		Sheared and Carbonate-Sericitic Altered Mafic Pillow Flow - beige and dirty brownish gray colors, altered mafic composition with strong pervasive carbonate (calcite) with sericite giving an argillaceous appearance, are carbonate-rich pillow interstices (<1 cm wide).				282604	107.10	107.75	0.65	-	-	0.00	-	-
		- strongly sheared and altered pillows 52 to 65 from C.A. with s-shaped drag folds (F.A. - axial planar) 45 from C.A., pillows are tightly packed and vary from 3 to 8 cm wide, thin banded argillaceous/reworked mafic volcaniclastics units up to 6 cm wide throughout yhe interval being more prolific in the area of the upper contact, scattered qcs/qs up to 10 cm wide averaging 2% to 4%....chl-ser seams in qcs/qs				282605	107.75	108.50	0.75	-	-	0.00	-	-
						282606	108.50	109.50	1.00	-	-	0.00	-	-
		Mineralization - occasional to widely scattered vfg py <1% and local aspy < 0.5% (at 108.0) Contact - sharp contact 52 from C.A.				282607	109.50	110.15	0.65	-	-	0.00	-	-
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		106.35 - 110.15 SR MX 2 Sericitization, Matrix, Weak to Moderate												
		106.35 - 110.15 CB PV 4 Carbonatization, Pervasive, Strong												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		106.35 - 110.15 Aspy BLB 0.5 Arsenopyrite, Blebs, ,<0.5% local												
		106.35 - 110.15 Py BLB 1 Pyrite, Blebs, <1%												

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
110.15	115.75	**Fresh Rock** **2G** ***Carbonate Altered Mafic Pillow Flow***	1	1	GREBL	282608	110.15	110.65	0.50	-	-	0.00	-	-
						282609	115.25	115.75	0.50	-	-	0.00	-	-

Sheared and Carbonate Altered Mafic Pillow Flow - green color, mafic (Mg-Fe rich) composition with mod chl with epidote and strong pervasive cb….frequent calcite-rich carbonate selvages up to 1 cm wide.

- weakly to moderately sheared with decrease in shearing from upper contact, ranges from 55 to 65 from C.A., scattered qcs/cs varying 2% to 3%

Mineralization - occasional to scattered py < 1% to local 1% to 2% vfg py over localized 5 cm sections
Contact - gradational contact

Alteration Maj:	***Type/Style/Intensity***	***Comment***
110.15 - 115.75	CB PV 4	Carbonatization, Pervasive, Strong
110.15 - 115.75	EP MX 2	Epidotization, Matrix, Weak to Moderate
110.15 - 115.75	CL MX 3	Chloritization, Matrix, Moderate

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
110.15 - 115.75	Py BLB 1	Pyrite, Blebs, <1% with 1% to 2% local over 5 cm sections

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
115.75	120.35	**Fresh Rock** **6D** ***Banded/Bedded Greywacke/Siltstone/Ar***	1	1	GY

Banded/Bedded Greywacke/Siltstone/Argillite (minor Sericitic Feslic Crystal Tuff)- gray to dark gray color, siliceous to intermediate in composition with alternating compositional bands/bed/laminations up to 30 cm wide, moderate to strong pervasive carbonate (calcite) and weak to moderate sericite with stronger sericitic alteration in the more argillaceous bands, minor local thin cherty laminations.

118.6 to 118.8 - Sericitic Felsic Crystal Tuff - gray with a greenish beige tinge, altered felsic composition with strong ser altered matrix with weak cb associated with sh, 10% to 15% fg to mg (<0.3 cm) sh qtz xtls showing augen S-shear fabrics and rotation (sinistral), qtz xtls are broken, sub-angular to sub-rounded in shape, and vary in size, variable distribution, tourmaline in fractures a,d along sh fractures, <1% qcs, scattered vfg py up to 1%, sharp upper and lower contacts 52 and 45 from C.A., respectively

119.0 to 119.3 - Sericitic Felsic Crystal Tuff - similar to above description with sharp lower contact 55 from C.A.

- well developed banded/beddded (52 to 66 from C.A.) texture with strong shear (50 to 60 from C.A.) overprint, < 1% to local 5% qcs/cs/qs up to 2 to 4 cm wide.

Mineralization - widely scattered vfg sh py ranging from < 1% to locally 5% (116.75 to 117.05), also observed scattered aspy and occasional cpy <1%...possible arsenian pyrite
Contact - sharp contact 66 from C.A.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
115.75 - 120.35	SI SPT 2	Silicification, Spotty/Patchy, Weak to Moderate
115.75 - 120.35	SR PV 2	Sericitization, Pervasive, Weak
115.75 - 120.35	CB PV 3	Carbonatization, Pervasive, Moderate

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
115.75 - 116.75	Aspy DIS 0.5	Arsenopyrite, Disseminated, <0.5%
115.75 - 116.75	Py DIS 1	Pyrite, Disseminated, ,1%
116.75 - 117.05	Aspy BLB 1	Arsenopyrite, Blebs, <1%
116.75 - 117.05	Py DIS 5	Pyrite, Disseminated, 5%
117.05 - 120.35	Aspy BLB 0.5	Arsenopyrite, Blebs,<0.5%
117.05 - 120.35	Py BLB 1	Pyrite, Blebs, <1%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
282610	115.75	116.75	1.00	-	-	0.00	-	-
282611	116.75	117.05	0.30	-	-	0.01	-	-
282613	117.05	117.55	0.50	-	-	0.00	-	-
282614	117.55	118.05	0.50	-	-	0.00	-	-
282615	118.05	118.60	0.55	-	-	0.00	-	-
282616	118.60	119.30	0.70	-	-	0.00	-	-
282617	119.30	119.80	0.50	-	-	0.00	-	-
282618	119.80	120.35	0.55	-	-	0.01	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
Minor Interval:														
118.60	118.80	Fresh Rock 4I *Sericitic Felsic Crystal Tuff*		1										
		Sericitic Felsic Crystal Tuff - altered felsic composition with strong ser altered matrix with weak cb associated with sh, 10% to 15% fg to mg (<0.3 cm) sh qtz xtls showing augen S-shear fabrics and rotation (sinistral), qtz xtls are broken, sub-angular to sub-rounded in shape, and vary in size, variable distribution, tourmaline in fractures a,d along sh fractures, <1% qcs, scattered vfg py up to 1%, sharp upper and lower contacts 52 and 45 from C.A., respectively												
		119.0 to 119.3 -												
Minor Interval:														
119.00	119.30	Fresh Rock 4I *Sericitic Felsic Crystal Tuff*		1										
		Sericitic Felsic Crystal Tuff - similar to above description with sharp lower contact 55 from C.A.												
120.35	123.65	**Fresh Rock 4I *Sericitic Feslic Crystal Tuff***	1	1	GY	282619	120.35	121.20	0.85	-	-	0.04	-	-
		Sericitic Feslic Crystal Tuff - gray with a greenish beige tinge, altered felsic composition with strong sericite altered matrix about fg to cg (up to 1 cm in size) 15% to 25% quartz crystals giving a sub-porphyritic texture, weak carbonate alteration, 3% to 10% black tourmaline generally occupying shear fractures				282620	121.20	122.00	0.80	-	-	0.02	-	-
						282621	122.00	123.00	1.00	-	-	0.01	-	-
						282622	123.00	123.65	0.65	-	-	0.02	-	-
		- fragmental crystal texture being sub-porphyritic (extrusive vs intrusive), sub-angular to rounded, varying size distribution, and fragmented xtls, moderately sheared altered matrix ranging from 58 to 61 from C.A., < 1% qcs/qs												
		Mineralization - occasional to widely scattered vfg py up to 1% with local 1% to 2% vfg pyrite Contact - sharp contact 61 from C.A.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		120.35 - 123.65 CB MX 2 Carbonatization, Matrix, Weak												
		120.35 - 123.65 SR MX 4 Sericitization, Matrix, Strong												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		120.35 - 123.65 Py DIS 1 Pyrite, Disseminated, up to 1% with local 1% to 2%												

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
123.65	128.05	**Fresh Rock** **6D** ***Laminated/Banded Greywacke/Silstone***	1	1	GY	282623	123.65	124.20	0.55	-	-	0.00	-	-
						282625	124.20	125.00	0.80	-	-	0.00	-	-
						282626	125.00	126.00	1.00	-	-	0.00	-	-
						282627	126.00	127.00	1.00	-	-	0.00	-	-
						282628	127.00	128.05	1.05	-	-	0.00	-	-

Laminated/Banded Greywacke/Silstone (Argillite-Chert) - alternating gray, dark gray, green, and grayish white colors, overall intermediate composition with alternating compositional banding and laminations up to 10 cm wide, overall mod cb (calcite) and ser/chl in compositional bands in a feldspathic-micaceous-quartz vfg matrix.

- well developed primary laminations/banding ranging from 50 to 60 from C.A. with sh overprint parallel to sub-parallel to primary banding, <1% to 15% qcs/qs (averages 5% to 6%) with deacrease in veining towards 128.05, 15% qcs/qs at upper contact associated with sulphides, veining is parallel to banding/sh

Mineralization - overall occasional to widely scattered py and aspy < 1% with cpy < 0.5%, increased sulphide associated with qs/qcs fracturing in the upper part of interval from 123.65 to 124.2 with 3% to 4% py-po-aspy-(cpy) generally associated with qcs…occur as disseminations and fracture-filling, remaining section <1% sulphide

Contact - sharp sheared conjtact 63 from C.A.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
123.65 - 128.05	CL BNDS 2	Chloritization, Bands/Banded, Weak
123.65 - 128.05	SR BNDS 3	Sericitization, Bands/Banded, Moderate
123.65 - 128.05	CB PV 3	Carbonatization, Pervasive, Moderate

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
123.65 - 124.20	Cpy BLB 0.5	Chalcopyrite, Blebs, <0.5%
123.65 - 124.20	Aspy BLB 1	Arsenopyrite, Blebs, <1%
123.65 - 124.20	Po BLB 1	Pyrrhotite, Blebs, up to 1%
123.65 - 124.20	Py DIS 2	Pyrite, Disseminated, 3% to 4%
124.20 - 128.05	Aspy BLB 0.5	Arsenopyrite, Blebs, <0.5%
124.20 - 128.05	Py BLB 1	Pyrite, Blebs, <1%

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
128.05	140.20	**Fresh Rock** **4I** ***Sericitic Felsic Crystal Tuff***	1	1	GY

Sericitic Felsic Crystal Tuff - gray with a greenish beige tinge, altered felsic composition with strong sericite>silicified altered matrix about fg to cg (up to 0.5 cm in size) 15% to 25% quartz crystals giving a sub-porphyritic texture, weak to moderate carbonate alteration, local fuschite shear band up to 20 cm near upper contact, but generally isolated diffuse and wispy fus along shear planes, <1% to 10% black tourmaline generally occupying fractures, shear fractures, and as disseminated xtls (averages approximately 5%).

- strongsheared crystal fragment texture being sub-porphyritic (extrusive vs intrusive), sub-angular to rounded, varying size distribution, and fragmented xtls, moderately to strongly sheared altered matrix ranging from 51 to 65 from C.A average is 59.3 from C.A.), < 1% to local 10% qs/qcs up to 5 cm wide with increase in stringers/veinlets from 132.0 to 134.0 (3% to 10%).

Mineralization - vfg disseminated py ranging from 1% to locally 5%-10%, averaging 2% to 4%, associated vfg scattered arsenian pyrite/arsenoprite, increase in sulphides at upper contact (2% to 10%) and lower contact (2% to 5%) and increased tourmaline

Contact - gradational increse in shearing and decrease in xtl content and size

Alteration Maj:	***Type/Style/Intensity***	***Comment***
128.05 - 140.20	FU SP 3	Fuchsite, Along Shear Planes, Moderate
128.05 - 140.20	CB MX 2	Carbonatization, Matrix, Weak to Moderate
128.05 - 140.20	SI MX 3	Silicification, Matrix, Moderate
128.05 - 140.20	SR MX 4	Sericitization, Matrix, Strong
Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
128.05 - 140.20	Py DIS 2	Pyrite, Disseminated, 2% to 4%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
282629	128.05	129.00	0.95	-	-	0.02	-	-
282630	129.00	130.00	1.00	-	-	0.01	-	-
282631	130.00	131.00	1.00	-	-	0.00	-	-
282632	131.00	132.00	1.00	-	-	0.01	-	-
282633	132.00	133.00	1.00	-	-	0.00	-	-
282634	133.00	134.00	1.00	-	-	0.01	-	-
282635	134.00	135.00	1.00	-	-	0.01	-	-
282637	135.00	136.00	1.00	-	-	0.01	-	-
282638	136.00	137.00	1.00	-	-	0.01	-	-
282639	137.00	138.00	1.00	-	-	0.01	-	-
282640	138.00	139.00	1.00	-	-	0.01	-	-
282641	139.00	139.50	0.50	-	-	0.00	-	-
282642	139.50	140.20	0.70	-	-	0.00	-	-

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From (m)	To (m)	Lithology			Weathering	Oxidation	Colour
140.20	140.95	**Fresh Rock**	**2L**	***Sheared Mafic Volcaniclastic***	1	1	GG

Sheared Mafic Volcaniclastic - dark gray to greenish gray colors, altered mafic composition with strong pervasive carbonate (calcite) and weak relict chlorite, strong sheared overprint with well developed relict laminations/banding 60 to 65 from C.A. with sh parallel to sub-parallel to bedding, 5% boudinaged and fragmented qcs (ankerite?) up to 5 cm wide parallel to sh/bnding.

Mineralization - occasional to widely scattered py < 1%, relatively more frequent proximal to qcs
Contact - sharp contact 40 from C.A.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
140.20 - 140.95	AK FRC 2	Ankerite, Along Fractures, Weak
140.20 - 140.95	CL MX 2	Chloritization, Matrix, Weak
140.20 - 140.95	CB PV 4	Carbonatization, Pervasive, Strong

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
140.20 - 140.95	Py BLB 1	Pyrite, Blebs, <1%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
282643	140.20	140.95	0.75	-	-	0.00	-	-

From (m)	To (m)	Lithology			Weathering	Oxidation	Colour
140.95	141.55	**Fresh Rock**	**QTCSW**	***Quartz-(Carbonate) Stockwork***	1	1	WH

Quartz-Carbonate Stockwork - white, gray, and green colors, altered mafic wallrock with a mixture of strong pervasive carbonate in this section with moderate to strong chl in the uppercontact area with bleached grayish white sil-(ank-ab?) with chl shears in the lower contact.

- strongly sheared 60 from C.A. with 25% to 30% qcs up to 5 cm wide ranging 30 to 60 from C.A. with lower veining being folded and deformed

Mineralization - < 5% pyrite generally found in lower contact area from 141.5 to 141.55, pyrite occurs as at vn/wr contact within the deformed qcs
Contact - sharp contact 43 from C.A. with 5 cm wide qcs

Alteration Maj:	***Type/Style/Intensity***	***Comment***
140.95 - 141.55	AB SPT 3	Albitization, Spotty/Patchy, Moderate
140.95 - 141.55	SI SPT 3	Silicification, Spotty/Patchy, Moderate

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
282644	140.95	141.55	0.60	-	-	0.01	-	-

From (m)	To (m)		Lithology		Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		140.95 - 141.55	CL	PV 3	Chloritization, Pervasive, Moderate to Strong											
		140.95 - 141.55	CB	PV 4	Carbonatization, Pervasive, Strong											
		Mineralization Maj. :	***Type/Style/%Mineral***		***Comment***											
		140.95 - 141.55	Py	DIS 1	Pyrite, Disseminated, <1% to local 5% in last 5 cm											
141.55	197.55	**Fresh Rock**	**2G**	***Mafic Pillow Flow (minor Volcaniclastic/***	1	1	GR	282645	141.55	142.00	0.45	-	-	0.02	-	-
								282646	142.00	142.55	0.55	-	-	0.01	-	-
								282647	142.55	143.00	0.45	-	-	0.01	-	-
								282649	143.00	144.00	1.00	-	-	0.00	-	-
								282650	158.40	159.15	0.75	-	-	0.00	-	-
								282651	159.15	160.00	0.85	-	-	0.00	-	-
								282652	173.80	174.80	1.00	-	-	0.00	-	-
								282653	174.80	175.80	1.00	-	-	0.00	-	-
								282654	175.80	176.80	1.00	-	-	0.00	-	-
								282655	187.50	188.20	0.70	-	-	0.00	-	-
								282656	188.20	189.20	1.00	-	-	0.00	-	-
								282657	189.20	190.20	1.00	-	-	0.00	-	-
								282658	190.20	191.25	1.05	-	-	0.00	-	-
								282659	191.25	192.20	0.95	-	-	0.00	-	-
								282661	192.20	193.20	1.00	-	-	0.00	-	-
								282662	193.20	194.20	1.00	-	-	0.00	-	-
								282663	194.20	194.70	0.50	-	-	0.00	-	-
								282664	194.70	195.00	0.30	-	-	0.00	-	-
								282665	195.00	195.70	0.70	-	-	0.00	-	-

Mafic Pillow Flow (minor Volcaniclastic/Massive Flow) - green to blackish green color, mafic composition with moderate chlorite and variable weak to strong carbonate (calcite) in the matrix with relative decrease in cb towards 197.55, strong calcite carbonate as pillow interstices (form as bands) and in fractures/veining, 5% to 10% vfg to fg sheared white leucoxene from 181.4 to 183.8, scattered fg tour xtls (up to 5%) in sh fractures/veining from 166.5 to 171.8.

- sheared pillow texture with pillows varying 5 to 10 cm wide, local massive pillow sections with little pillow selvages are tightly packed, strongly sheared with strong intense calcite carbonate pillow interstices from 149.0 to 151.9, 174.4 to 176.4, and from 187.0 to 191.25 with cb-rich bands up to 1 cm wide, moderately to strongly sheared 33 to 68 from C.A. (averaging 50.4 from C.A.).....shallower core angles from about 174.7 to 185.0 33 to 48 from C.A., strongly sheared at upper contact from 141.55 to 142.55 associated with qs/py mineralization 50 to 58 from C.A., varibale core angles with fold axis axial planar 15 to 90 from C.A., both S, Z, and M-W-shaped minor or parasitic drag folds observed, scattered qcs/cs/qs generally parallel to sub-parallel to sh ranging < 1% to locally 10% up to 7 cm wide with general increase in qcs/cs veining from 193.2 to 197.55

Mineralization - occasional to widely scattered py <1% over the entire interval, increase in py (2% to 5%) from 141.55 to 142.55 associated with 5% to 7% qcs (50 to 55 from C.A.) and stronger shearing, more frequent up to 1% py-(cpy) from 195.0 to 197.55 associated with both fracturing and cb-rich pillow interstices.

Contact - sharp contact with 2 cm wide qs/qcs with 5% cpy splashes in stringer

Alteration Maj:	***Type/Style/Intensity***	***Comment***
141.55 - 197.55	CB IS 4	Carbonatization, Pillow Interstitial, Strong
141.55 - 197.55	CB FRC 4	Carbonatization, Along Fractures, Strong

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
		141.55 - 197.55 CB MX 2 Carbonatization, Matrix, Weak to Moderate			
		141.55 - 197.55 CL MX 3 Chloritization, Matrix, Moderate			
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***			
197.55	200.00	**Fresh Rock** **QTCSW** ***Quartz-(Carbonate) Stockwork***	1	1	GR

Weak Quartz Carbonate Stockwork (Fractured Mafic Pillow Flow) - green and white colors, mafic in composition with moderate chl and weak to moderate cb in matrix (as pervasive) with strong carbonate in fractures and stringers/veinlets.

- massive appearance with local shearing 60 from C.A., variable numerous qcs/cs/qs ranging from <1% to 25% up to 5 cm wide…averages 10% to 15% veining, increased veining from upper contact at 197.55 to 198.8 ranging 10% to 25% qcs/cs (averages approximately 20% to 22%), veining ranges 50 to 70 from C.A.

Mineralization - <1% cpy to local 3% to 4% (over 0.30 meters wide) cpy occurring as fine to coarse spalshes in veining, overall <1% py with local 1% to 2% py as sh disseminated grains and as fractures

Contact - gradationally less fractured with veining

Alteration Maj:	***Type/Style/Intensity***	***Comment***
197.55 - 200.00	CB FRC 4	Carbonatization, Along Fractures, Strong
197.55 - 200.00	CB MX 2	Carbonatization, Matrix, Weak to Moderate
197.55 - 200.00	CL MX 3	Chloritization, Matrix, Moderate

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
197.55 - 200.00	Sph FOL 1	Sphalerite, Along foliation, <1% to local 1% to 2% along sh
197.55 - 200.00	Cpy FAC 1	Chalcopyrite, Fracture-controlled, <1% to local 3% to 4% as cg splashes in qcs

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
282666	195.70	196.30	0.60	-	-	0.00	-	-
282667	196.30	196.65	0.35	-	-	0.00	-	-
282668	196.65	197.55	0.90	-	-	0.00	-	-
282669	197.55	198.00	0.45	-	-	0.00	-	-
282670	198.00	198.30	0.30	-	-	0.00	-	-
282671	198.30	198.80	0.50	-	-	0.00	-	-
282673	198.80	199.10	0.30	-	-	0.00	-	-
282674	199.10	199.60	0.50	-	-	0.00	-	-
282675	199.60	200.00	0.40	-	-	0.00	-	-

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
200.00	207.80	**Fresh Rock** **2G** ***Mafic Pillow to Massive Flow***	1	1	GR

Mafic Pillow to Massive Flow - green color, mafic composition with mod chlorite and variable weak to strong carbonate (calcite) with stonger calcite at depth, carbonate occurs as a pervasive alteration in the vfg matrix and is strong and intense in fractures and veining.

- vfg massive pillows (tightly packed) with scattered bnds of pillow interstice…possible massive flows, possible pillows up to 30 cm wide with carbonate-rich mafic volcaniclastic pillow interstices (5%) between <1 and 4 cm wide, weakly to locally moderately foliated/sheared 60 from C.A., scattered to frequent thin qcs/qs/cs up to 2 cm ranging from 1% to locally 10% with 1% to 3% stringers/veinlets more typical, stringers/veinlet range from 65 to 71 from C.A.,

Mineralization - scattered and patchy cpy-(py) up to 1% locally as coarse splashes in qcs/cs/qs in local fractures areas, increased sh py (1% to 2%) from 204.8 to 205.3 with increased cpy from…..

202.4 to 202.7 - moderate to strong chl/cb and 10% qcs up to 1.5 cm wide, up to 1% coarse cpy spalshes and < 1% py
203.4 to 203.8 - strong pervasive cb and mod chl, sh pillow texture, wk fractured with 2% to 4% qcs up to 1 cm wide, up to 1% cpy and py

Contact - sharp sheared contact 70 from C.A.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
200.00 - 207.80	CB FRC 4	Carbonatization, Along Fractures, Strong
200.00 - 207.80	CB FP 2	Carbonatization, Along Foliation Planes, Weak to Moderate and increases with depth
200.00 - 207.80	CL MX 3	Chloritization, Matrix, Moderate

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
200.00 - 204.00	Py FOL 1	Pyrite, Along foliation, <1%
200.00 - 204.00	Cpy FAC 1	Chalcopyrite, Fracture-controlled, up to 1% in qcs/qs fractures
204.00 - 205.30	Cpy FAC 0.5	Chalcopyrite, Fracture-controlled, <0.5%
204.00 - 205.30	Py DIS 1	Pyrite, Disseminated, 1% to 2%
205.30 - 207.80	Py DIS 1	Pyrite, Disseminated, <1%
205.30 - 207.80	Cpy FAC 1	Chalcopyrite, Fracture-controlled, <1%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
282676	200.00	201.00	1.00	-	-	0.00	-	-
282677	201.00	202.00	1.00	-	-	0.00	-	-
282678	202.00	202.40	0.40	-	-	0.00	-	-
282679	202.40	202.70	0.30	-	-	0.01	-	-
282680	202.70	203.40	0.70	-	-	0.00	-	-
282681	203.40	203.80	0.40	-	-	0.00	-	-
282682	203.80	204.80	1.00	-	-	0.00	-	-
282683	204.80	205.30	0.50	-	-	0.00	-	-
282685	205.30	206.30	1.00	-	-	0.00	-	-
282686	206.30	207.00	0.70	-	-	0.00	-	-
282687	207.00	207.80	0.80	-	-	0.00	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
207.80	219.80	**Fresh Rock** **SH** ***Chlorite-Carbonate Shear***	1	1	GG	282688	207.80	208.80	1.00	-	-	0.00	-	-
						282689	208.80	209.40	0.60	-	-	0.00	-	-
						282690	209.40	210.40	1.00	-	-	0.00	-	-
						282691	210.40	211.40	1.00	-	-	0.00	-	-
						282692	211.40	212.00	0.60	-	-	0.00	-	-
						282693	212.00	212.50	0.50	-	-	0.00	-	-
						282694	212.50	213.50	1.00	-	-	0.00	-	-
						282695	213.50	214.00	0.50	-	-	0.00	-	-
						282697	214.00	214.50	0.50	-	-	0.00	-	-
						282698	214.50	215.50	1.00	-	-	0.00	-	-
						282699	215.50	216.10	0.60	-	-	0.00	-	-
						282700	216.10	216.85	0.75	-	-	0.01	-	-
						282701	216.85	218.00	1.15	-	-	0.00	-	-
						282702	218.00	218.50	0.50	-	-	0.00	-	-
						282703	218.50	218.80	0.30	-	-	0.00	-	-
						282704	218.80	219.80	1.00	-	-	0.00	-	-

Chlorite-Carbonate Shear - grayish green colorand dark green color, altered mafic composition with pervasive strong chlorite and carbonate alteration (shear controlled), vfg and strongly sheared with all primary textures completely obliterated.

- strongly sheared ranging from 40 to 70 from C.A. with more typical 60 to 70 core angles, folded and crenulated S-and Z-shape parasitic folds (axial planar 50 to 80 from C.A.) throughout the section, being more prominent 216.85, scattered qcs/cs/qs up to 3 cm wideranging from < 1% to 20% with increased veining from 209.4 to 212.5 (2% to 20% - averages 8%) with 20% qcs/qs/cs from 212.0 to 212.5, veining generally parallel to sub-parallel to shearing 60 to 70 from C.A.

Mineralization - occasional to widely scatteered sh and strung out py <1% and as equant py cubes with cpy (<0.5%) localized in random qcs/cs from 212.0 to 212.15 and at 214.05, cpy occurs as medium and coarse splashes in qcs.

Contact - gradationally less sheared

Alteration Maj:	***Type/Style/Intensity***	***Comment***
207.80 - 219.80	CB FP 4	Carbonatization, Along Foliation Planes, Strong
207.80 - 219.80	CL FP 4	Chloritization, Along Foliation Planes, Strong

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
207.80 - 219.80	Cpy BLB 0.5	Chalcopyrite, Blebs, <0.5%
207.80 - 219.80	Py BLB 1	Pyrite, Blebs, <1%

219.80	223.85	**Fresh Rock** **2B** ***Mafic Massive Flow***	1	1	GR									

Mafic Massive Flow - green color, mafic composition with moderate chlorite with epidote and strong

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)

pervasive calcite carbonate in matrix and fractures, 10% to 15% vfg white disseminated leucoxene from 218.3 to 221.55.

- weakly to moderately foliated/sheared 50 to 60 from C.A. with local parasitic drag folds (S-shape) 70 from C.A. scattered both deformed and undeformed qcs/qs up to 2 to 3 cm wide ranging from 25 to locally 5%, deformed qcs/qs occur as lense-like detached features and commonly recognized from 217.4 to 218.2

Mineralization - occasional to widely vfg sheared py <1% with local bleb of cpy < 0.5%, relative increase in py from 218.5 to 218.8 with 2% to 4% scattered sheared py
Contact - sharp contact 39 from C.A.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
221.55 - 223.85	CB FRC 4	Carbonatization, Along Fractures, Strong
221.55 - 223.85	CB MX 4	Carbonatization, Matrix, Strong
221.55 - 223.85	EP MX 3	Epidotization, Matrix, Moderate
221.55 - 223.85	CL MX 3	Chloritization, Matrix, Moderate

223.85 229.40 **Fresh Rock** **14B** ***Diabase Dyke*** 1 1 BLK

Diabase Dyke - black to dark blackish green color, mafic composition with moderate to locally strong carbonate (calcite), vfg/aphanitic and massive texture, occasional qcs/cs with localized increased in qcs/cs (up to 2 cm wide) from 226.35 to 226.8 ranging 5% to 10%.

Mineralization - occasional to widely scattered py < 1% py with localized 1% to 2% at 227.6; strongly magnetic with vfg disseminated magnetite
Contact - sharp contact 53 from C.A

Alteration Maj:	***Type/Style/Intensity***	***Comment***
223.85 - 229.40	CB PV 3	Carbonatization, Pervasive, Moderate to Strong
Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
223.85 - 229.40	Py BLB 1	Pyrite, Blebs, <1%

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
229.40	230.00	**Fresh Rock** **2B** ***Mafic Massive Flow xcut by Diabase Dy***	1	1	DGR	282705	229.40	230.00	0.60	-	-	0.00	-	-

Mafic Massive Flow xcut by Diabase Dykes - dark geeen, greenish balck to black colors, mafic complosition of flow with moderate chlorite and moderate to strong pervasive cb, vfg and msv to fractured.

- xcut by numerous black colored and magnetic diabase tongue-like dykes 5 to 10 cm wideat the upper contact 60 to 70 from C.A., 10% qs/qcs up to 3 cm wide 60 to 65 from C.A.

Mineralization - scattered vfg to fg up to 1% pyrite cubes

Alteration Maj:	***Type/Style/Intensity***	***Comment***
229.40 - 230.00	CB FRC 4	Carbonatization, Along Fractures, Strong
229.40 - 230.00	CB MX 3	Carbonatization, Matrix, Moderate to Strong
229.40 - 230.00	CL MX 3	Chloritization, Matrix, Moderate

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
229.40 - 230.00	Py DIS 1	Pyrite, Disseminated, up to 1%

SAMPLE DESCRIPTION REPORT

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Hole Number: **WAT17-05** Project: **TAAC** Project Number: **259**

From (m)	To (m)	Length (m)	Sample #	Comments
9.10	10.10	1.00	282511	Sericitie-Carbonate Shear - strong to intense sh controlled ser-cb, strongly sh, flt gouge from 9.7 to 10.1, < 1% qcs and py
10.10	11.10	1.00	282513	Hematite-Sericite-Carbonate Shear - strong hem sections up to 20 cm wide with strong ser and mod/strong pervasive cb, strongly sh, <1% qcs/cs and py
11.10	12.10	1.00	282514	Sericite-Carbonate-Hematite Shear - strong ser with wk-mod cb and local 3 cm wide hem sections, strongly sh, <1% qcs/cs and py < 1%
12.10	13.00	0.90	282515	Sericite Shear - moderate to strong ser with wk cb, relict qtz xtls and sh fragmental, <1% qcs and py
13.00	14.00	1.00	282516	Sericite Shear - moderate to strong ser with wk cb, local hem stain, relict qtz xtls and sh fragmental, <1% qcs and py
14.00	14.70	0.70	282517	Sericite-Carbonate Shear - moderate to strong ser with wk to mod cb, disseminated tour, relict qtz xtls and sh fragmental, <1% qcs and py
14.70	15.60	0.90	282518	Sericite Shear - moderate to strong ser with wk cb, strongly sh, <1% qcs/cs, < 1% py
15.60	15.90	0.30	282519	Hematite-Carbonate Shear - bn to rusty bn color, strong pervasive hem and cb with mod ser, strongly sh, <1% qcs/cs and py
15.90	17.00	1.10	282520	Sericite Shear - moderate ser with wk cb, strongly sh and <1% qcs and py
17.00	18.00	1.00	282521	Sericite Shear - moderate ser with wk cb, strongly sh and <1% qcs and py
18.00	19.00	1.00	282522	Sericite Shear - moderate ser with wk cb, strongly sh and 4% qcs/cs parallel to sh, < 1% py
19.00	20.00	1.00	282523	Sericite Shear - moderate ser with wk cb with increased cb along sh planes and fractures, strongly sh and 2% to 3% qcs, < 1% py
20.00	21.00	1.00	282525	Sericite Shear - moderate ser with wk cb with increased cb along sh planes and fractures, strongly sh and<1% to 2% qcs, < 1% py
21.00	22.00	1.00	282526	Sericite-(Chlorite) Shear - moderate ser with chl wk cb with increased cb along sh planes and fractures, strongly sh and 3% qcs, < 1% py
22.00	22.50	0.50	282527	Fractured Sericite Shear - moderate to intense ser at margins of qcs/qcv up to 8 cm wide, accounts for 20% of the section, local tour fractures in qcs, strongly sh, up to 1% py in qcs, but overall < 1% py
22.50	23.50	1.00	282528	Sericite-Chlorite Shear -moderate to strong ser>chl and wk cb, strongly sh, up to 1% thin qcs/cs parallel to sh, < 1% py
23.50	24.50	1.00	282529	Sericite-Chlorite Shear -moderate to strong ser>chl and wk cb, strongly sh, 2% to 3% thin qcs/cs parallel to sh, < 1% py
24.50	25.60	1.10	282530	Sericite-Chlorite Shear -moderate to strong ser-chl and wk cb, strongly sh, scattered 5% to 10% thin qcs/cs parallel to sh, < 1% py
25.60	25.90	0.30	282531	Silicified-Sericite Shear - bleached white color, strong pervasive intense sil-ser and wk cb, strongly sh, < 1% qcs and py
25.90	26.40	0.50	282532	Sericite-(Chlorite) Shear - moderate to strong ser>chl and strongly sheared, 10% qcs/qs paralle to sh up to 8 cm wide, < 1% py
26.40	27.00	0.60	282533	Sericite Shear - moderate to strong ser with wk to locally mod chl and wk cb, strongly sh and 'bx', <1% to 2% qcs, < 1% py
27.00	28.00	1.00	282534	Sericite Shear - moderate to strong ser with wk to locally mod chl and wk cb, strongly sh and 'bx', 2% to 3% qcs, < 1% py
28.00	29.00	1.00	282535	Sericite Shear - moderate to strong ser with wk cb, strongly sh, < 1% qcs and py
29.00	29.70	0.70	282537	Sericite Shear - moderate to strong ser with wk cb, strongly sh, 1% to 2% boud qcs/qs, < 1% py
29.70	30.35	0.65	282538	Sericite-Chlorite-Carbonate Shear - mod to strong mixture of ser-chl and wk cb…stronger cb along sh, strong sh, <1% qcs, up to 1% py with increased py to 30.35, occurs as sh py
30.35	31.05	0.70	282539	Sericite-Chlorite-Carbonate Shear - mod to strong mixture of ser-chl and wk cb…stronger cb along sh with tour along shears, strong sh, <1% qcs, up to 1% py & occurs as sh py grains/lenses

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From (m)	To (m)	Length (m)	Sample #	Comments
31.05	31.95	0.90	282540	Sercite Shear - strong sh controlled ser with wkchl-cb, strongly sh with tour along sh, <1% qcs and py lense
31.95	32.50	0.55	282541	Sericite Shear - bleached white and strong intense ser with tour along sh, <1% qcs/qs and <1% py associated with tour
32.50	33.10	0.60	282542	Sericite Shear - bleached white and strong intense ser with tour along sh, <1% qcs/qs and <1% py associated with tour
33.10	33.50	0.40	282543	Chlorite-Sericite Shear - mod to strong chl>ser and wk cb along sh planes, 10% qcs/qs, 3% to 5% vfg disseminated py along sh lenses
33.50	34.00	0.50	282544	Chlorite-Sericite Shear - mod to strong chl>ser and wk cb along sh planes, 10% qcs/qs, 2% to 4% vfg disseminated py along sh lenses
34.00	34.50	0.50	282545	Chlorite-Sericite Shear - mod to strong chl>ser and wk cb along sh planes, 1% qcs/qs, 2% to 5% vfg disseminated sheared py along sh planes
34.50	35.00	0.50	282546	Sericite-Chlorite Shear - mod to strong mixture of ser-shl, fractured with 10% to 15% qs/qcs, 1% to 3% py
35.00	35.50	0.50	282547	Sericite-Chlorite Shear - mod to strong mixture of ser-shl, fractured with 10% qs/qcs lenses/boudins, 5% py
35.50	36.00	0.50	282549	Sericite-Chlorite Shear - mod to strong mixture of ser and chl and cb along sh, 16 cm wide qcs (32%) parallel to sh, 1% to 3% diss py and 1% to 2% py in qcs with chl-tour seams
36.00	36.50	0.50	282550	Sericite-Chlorite Shear - mod to strong mixture of ser-sh with stronger cb along sh and fractures, 10% qs/qcs, numerous thin lenses of msv py-(sp?) at 5%, lenses are sh and parallel to shearing
36.50	36.90	0.40	282551	Sericite-Chlorite Shear - mod to strong mixture of ser-sh with wk cb along sh and fractures, <1% qs/qcs, scattered vfg py with occasional msv py sh lense ranging 2% to 3% py
36.90	37.50	0.60	282552	Sericite Shear (Felsic Crystal Tuff) - strong ser and sh with relict qtz xtls, 5% qcs at uc, < 1% py
37.50	38.00	0.50	282553	Sericite-Silicified - mod to strong ser and sil and wk chl-cb, strongly sh, 10% to 15% qcs, <1% py
38.00	38.50	0.50	282554	Sericite-Silicified - mod to strong ser and sil and wk chl-cb, strongly sh, 5% to 10% qcs, <1% py in wr and 5% vfg disseminated py in vn…overall 1% to 2%
38.50	39.00	0.50	282555	Sericite-Silicified-Chlorite-(Carbonate) Shear - mod to strong mixture of ser-sil and chl-cb with wk to mod cb, strongly sh, 5% to 10% qtz-sulphide and qs parallel to sh, 5% to 8% py in section mostly in a 3 cm wide massive pyrite-quartz band with local disseminated py along sh
39.00	39.50	0.50	282556	Sericite-Chlorite Shear - mod to strong mixture of ser-chl, strongly sh, <1% to 2% qcs/qs, up to 1% py
39.50	39.90	0.40	282557	Sericite-Chlorite Shear - mod to strong mixture of ser-chl, wk cb, strongly sh, <1% to 2% qcs/qs, up to 1% py
39.90	41.00	1.10	282558	Sericite-Chlorite Shear - mod to strong mixture of ser-chl and wk cb with sil bands, 2 to 15 cm wide sil altered QFP fragments (bleached white color), strongly sh, 1% to 2% qs/qcs parallel to sh, < 1% py
41.00	42.00	1.00	282559	Sericite-Chlorite Shear - mod to strong mixture of ser-chl with 5% sil bands, wk cb, strongly sh, 1% qs/qcs parallel to sh, occasional sh wisp of py along sh planes
42.00	43.00	1.00	282561	Sericitie-Silicified Shear - mod to strongly ser-sil with local chl-cb along sh, strongly sh and 5% to 10% qs/qcs, < 1% py
43.00	44.00	1.00	282562	Sericitie-Silicified Shear - mod to strongly ser-sil with local chl-cb along sh, strongly sh with gy-wt QFP fragments up to 14 cm wide, 1% to 2% qs/qcs and < 1% py
44.00	45.00	1.00	282563	Sericite-Chlorite Shear - mod to strong ser.chl with local sil, wk cb, strong sh, scattered sil QFP fragments, strongly sh, 2% to 3% qs/qcs, < 1% py
45.00	46.00	1.00	282564	Sericite-Chlorite Shear - mod to strong ser.chl with local sil, wk cb, strong sh, strongly sh, 10% qs/qcs, < 1% py
46.00	46.50	0.50	282565	Sericite-Chlorite Shear - mod to strong ser.chl with local sil, wk cb, strong sh, numerous sil QFP fragments, strongly sh, 1% qs/qcs and < 1% py
46.50	47.00	0.50	282566	Sericite-Chlorite Shear - mod to strong ser.chl with local sil, wk cb, strong sh, strongly sh, 10% qs/qcs and < 1% py
47.00	48.00	1.00	282567	Sericite-Chlorite Shear - mod to strong ser.chl with local sil, wk cb, strong sh, numerous sil QFP fragments, 5% qcs/qs, <1% py

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From (m)	To (m)	Length (m)	Sample #	Comments
48.00	48.50	0.50	282568	Sericite-Chlorite Shear - mod to strong ser.chl with local sil, wk cb, strong sh, numerous sil QFP fragments, <1% qcs/qs, <1% py
48.50	49.00	0.50	282569	Sericite-Chlorite Shear - mod to strong ser.chl with local sil, wk cb, strong sh, tour along sh, numerous sil QFP fragments, 5% qcs/qs, <1% py
49.00	49.80	0.80	282570	Sericite-Chlorite Shear - mod to strong ser.chl with local sil, wk cb, strong sh, numerous sil QFP fragments, 3% to 5% qcs/qs, <1% py
49.80	50.80	1.00	282571	Sericite-Chlorite Shear - mod to strong ser.chl with local sil, wk cb, strong sh, numerous sil QFP fragments, 5% to 7% qcs/qs, <1% py
50.80	51.75	0.95	282573	Sericite-Chlorite Shear - mod to strong ser.chl with local sil, wk cb, strong sh, <1% to 2% qcs/qs, <1% py
51.75	52.45	0.70	282574	Sericite-Carbonate Shear - strong pervasive ser-cb sh controlled alteration, fractured with 10% to 12% qs/qcs parallel to sh, scattered tour xtls in qcs/qs, <1% py
52.45	53.10	0.65	282575	Sericite-Carbonate Shear - strong pervasive ser-cb sh controlled alteration, fractured with 15% to 18% qs/qcs parallel to sh, scattered tour xtls in qcs/qs, <1% py
53.10	53.90	0.80	282576	Sheared and Sericite-Carbonate Altered Mafic Flow - beige color, strong pervasive ser-cb, strongly sh, 3% to 5% thin qcs/qs, < 1% py
53.90	54.50	0.60	282577	Carbonate Altered and Fractured Mafic Flow - lt green to green color, altered mafic with strong cb and mod chl, fractured with 10% to 15% qcs/qs, < 1% py
54.50	55.00	0.50	282578	Sheared and Carbonate Altered Mafic Flow - lt green, altered mafic with mod to strong cb and mod chl, mod sh, 2%to 3% qcs/qs, < 1% py
58.85	59.35	0.50	282579	Massive Mafic Flow - mod chl and wk cb, mod sh, 1% to 3% qcs/qs, < 1% py
59.35	60.35	1.00	282580	Sericitic-Carbonate Altered Mafic Pillow Flow - mod ser-cb with numerous cb bnds (pillow interstices?), strongly sh, vfg, 5% to7% qcs/cs, < 1% py
60.35	61.35	1.00	282581	Sericitic-Carbonate Altered Mafic Pillow Flow - mod ser-cb with numerous cb bnds (pillow interstices?), strongly sh, vfg, 5% to 6% qcs/cs, < 1% py
61.35	62.35	1.00	282582	Sericitic-Carbonate Altered Mafic Pillow Flow - mod ser and mod/strong cb in matrix and selvages with numerous cb bnds (pillow interstices?), strongly sh, vfg, <5% qs/cs, occasional to locally scattered < 1% py
62.35	63.35	1.00	282583	Sericitic-Carbonate Altered Mafic Pillow Flow - mod ser and mod/strong cb in matrix and selvages with numerous cb bnds (pillow interstices?), strongly sh, vfg, 5% to 8% qs/cs, occasional to local scattered < 1% py and up to 5% to 10% py in cb-rich pillow selvages up to 2 cm wide
63.35	64.35	1.00	282585	Sericitic-Carbonate Altered Mafic Pillow Flow - mod ser and mod/strong cb in matrix and selvages with numerous cb bnds (pillow interstices?), strongly sh, vfg, 10% to 15% qs/cs with a qc veinlet up to 10 cm wide, occasional to local scattered < 1% py
64.35	65.35	1.00	282586	Carbonate-Sericitic Mafic Volcaniclastic - strong pervasive cb>ser, strongly sh with fine bnds/lam, 5% qcs up to 5 cm wide, < 1% py
65.35	66.25	0.90	282587	Carbonate-Sericitic Mafic Volcaniclastic - strong pervasive cb>ser, strongly sh with fine bnds/lam, 5% qcs/qs, < 1% py
66.25	66.45	0.20	282588	Laminated Mafic Volcaniclastic - mafic to (intermediate) in composition with wk cb, well developed lam, vfg, <1% qcs and py
66.45	67.00	0.55	282589	Sericite Shear - mod to strong ser with wk cb, strongly sh, 4% qcs/qs, up to 1% vfg widely scattered py
67.00	67.55	0.55	282590	Sericite Shear - mod to strong ser with wk cb, 10% qcs along sh and 2% to 3% vfg py along shears with increased py at lower contact
67.55	68.00	0.45	282591	Sericitic Felsic Volcaniclastic - mod to strong sh-controlled ser and wk cb, strongly sh along lam/bnd, <1% qcs, occasional py < 1%
68.00	68.55	0.55	282592	Fractured Sericitic Felsic Volcaniclastic - mod to strongly ser, wk cb-chl, strongly sh along bedding planes, 15% qcs/qs up to 6 cm wide, up to 1% py-aspy mainly along vn/wr contact and in vn, occasional py in sh wr < 1%
68.55	69.20	0.65	282593	Laminated Felsic Volcaniclastic - felsic to intermediate in composition with wk ser-cb-chl, well developed lam with local sil cherty lam/bnds, 2% to 3% qcs/qs, < 1% py
69.20	69.75	0.55	282594	QV & Silicified Felsic Volcaniclastic - 20 cm qv with mod to strong sil along margins of vn with mod ser, strongly sh with relict lam/bnding, 1% to 2% py-(aspy) along and in vn with local 5% py in sil wr

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From (m)	To (m)	Length (m)	Sample #	Comments
69.75	71.00	1.25	282595	Sheared Mafic Pillow Flow - mod chl and strong cb in matrix, strongly sh, 2% to 3% qcs/cs parallel to sh, scattered py up to 1%
71.00	72.00	1.00	282597	Sheared Mafic Pillow Flow - mafic composition with mod chl-ep with moderate to strong cb, sh pillow texture, 25 to 3% qcs parallel to sh, up 1% scattered py
77.35	78.35	1.00	282598	Mafic Pillow Flow - mafic composition with mod chl and wk cb, strong cb fract, sh, 1% to 3% qcs, widely scattered py cubes up to 1%
78.35	79.40	1.05	282599	Sericite-Carbonate Altered Mafic Pillow Flow - altered mafic with pillows mod to strong ser-cb, strongly sh, <1% to 2% qcs, widely scattered py up to 1%
79.40	80.30	0.90	282600	Sericite-Carbonate Altered Mafic Pillow Flow - altered mafic with pillows mod to strong ser-cb, strongly sh, 2% to 4% qcs with tourmaline, widely scattered py <1% to 2%
80.30	81.30	1.00	282601	Sheared Mafic Pillow Flow - mafic composition with gradual very wk ser with cb along sh pillow interstices, strong sh, <1% to 2% qcs/cs, widely scattered py < 1%
105.85	106.35	0.50	282602	Sheared and Carbonate Altered Mafic Pillow Flow - mod to strong cb with ser, strongly sh, 2% to 3% qcs/cs, < 1% py
106.35	107.10	0.75	282603	Sheared and Carbonate-Altered Mafic Pillow Flow/Volcaniclastics/Argillite - strong pervasive cb with ser on pillows/volcaniclastics inter-formational, bdded volcaniclastics, strongly sh, <1% to 2% qcs/cs, < 1% py
107.10	107.75	0.65	282604	Sheared and Carbonate Altered Mafic Flow - strong pervasive cb with ser, strongly sh, 5% to 7% qcs/cs parallel to sh, < 1% py
107.75	108.50	0.75	282605	Sheared and Carbonate-Altered Mafic Pillow Flow/Volcaniclastics/Argillite - strong pervasive cb with ser on pillows/volcaniclastics inter-formational, bdded volcaniclastics, strongly sh, <1% to 2% qcs/cs, < 1% py and observed aspy bleb at 108
108.50	109.50	1.00	282606	Sheared and Carbonate Altered Mafic Pillow Flow - strong pervasive cb with ser, strongly sh pillow texture, 2% to 3% qcs/cs parallel to sh, < 1% py
109.50	110.15	0.65	282607	Sheared and Carbonate Altered Mafic Pillow Flow - strong pervasive cb with ser, strongly sh pillow texture, 10 cm wide qcs (chl seams) accounts for 15% of interval, < 1% py
110.15	110.65	0.50	282608	Sheared and Carbonate Altered Mafic Pillow Flow - green color, mafic composition with mod chl and strong per cb, sh pillow texture, 1% to 2% qcs/cs, < 1% py
115.25	115.75	0.50	282609	Massive Mafic Flow/Pillow Flow - mafic composition with wk chl and mod-strong pervasive cb, vfg and msv and wk sh, 1% to 2% qcs/cs, < 1% py
115.75	116.75	1.00	282610	Greywacke/Argillite - intermediate composition with mod/strong pervasive cb with wk-mod ser, vfg and msv bed with thin cherty lam towards 116.75, mod sh, up to 1% qcs/cs, occasional py < 1%
116.75	117.05	0.30	282611	Greywacke/Siltsone/Argillite - intermediate composition with mod to strong pervasive cb with ser-rich lam/bnds, lam/bnded and sh, minor cherty lam..sil floods, <1% qcs/cs parallel to sh, 5% vfg localized py with sil flood
117.05	117.55	0.50	282613	Greywacke/Arkosic-wacke - intermediate composition with mod to strong pervasive cb with ser-rich lam/bnds, lithic fg fd detrital grains (5%), bnded texture, widely scattered sh py < 1%
117.55	118.05	0.50	282614	Greywacke/Siltstone/Argillite - intermediate in composition with moderate pervasive cb and ser, bnded texture, <1% qcs/cs, 2% to 3% vfg disseminated sh py-aspy-(cpy) generally following sh/bedding planes
118.05	118.60	0.55	282615	Greywacke/Siltstone/Argillite - intermediate in composition with moderate pervasive cb and ser, bnded/sh texture, <1% qcs/cs, up to 1% sh py
118.60	119.30	0.70	282616	Sericitic Felsic Crystal Tuff (70%) & Greywacke - felsic rock has a strong ser alt matrix about 10% to 15% qtz xtls/fragmental texture, sharp contacts with cb-altered greywacke, tour fract in felsic and <2% to 4% qcs/qs, scattered vfg py-(aspy) up to 1% with 2% to 4% py-(aspy) in local sh and fracture zone from 118.8 to 118.9
119.30	119.80	0.50	282617	Greywacke/Siltstone/Argillite - intermediate in composition with moderate pervasive cb and ser, lam/bnded and sh texture, up to 1% qcs/cs, <1% py-(aspy)
119.80	120.35	0.55	282618	Greywacke/Siltstone/Argillite - intermediate in composition with moderate pervasive cb and ser, finely lam and sh, 5% qcs, scattered vfg py-(aspy) up to 1%
120.35	121.20	0.85	282619	Sericitic Feslic Crystal Tuff - altered felsic with strong ser altered matrix about 15% to 20% qtz xtl fragments, wk cb, sub-porp texture, 10% black tour sh fract, < 1% qs/qcs, up to 1% vfg py
121.20	122.00	0.80	282620	Sericitic Feslic Crystal Tuff - altered felsic with strong ser altered matrix about 15% to 20% qtz xtl fragments, wk cb, sub-porp texture, 5% black tour sh fract, < 1% qs/qcs, up to 1% vfg py
122.00	123.00	1.00	282621	Sericitic Feslic Crystal Tuff - altered felsic with strong ser altered matrix about 15% to 20% qtz xtl fragments, wk cb, sub-porp texture, 5% black tour sh fract, < 1% qs/qcs, up to 1% to local 2% vfg scattered py

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123.00	123.65	0.65	282622	Sericitic Feslic Crystal Tuff - altered felsic with strong ser altered matrix about 15% to 20% qtz xtl fragments, wk cb, sub-porp texture, 2% to 4% black tour sh fract, < 1% qs/qcs, up to 1% vfg py
123.65	124.20	0.55	282623	Argillite/Greywacke/Chert - intermediate composition with mod/strong chl-cb bnds and cherty band with sil flood, 15% qcs parallel to sh/bedding, 3% to 4% vfg py>po with up to 1% aspy-(arsenian py) and < 1% cpy…increased sulphides in and margins of veinle
124.20	125.00	0.80	282625	Greywacke/Argillite - intermediate in composition with strong pervasive cb, mod ser-chl alt matrix, minor chert, lam/bdded texture, 3% to 5% qcs/qs, occasional sh py < 1%
125.00	126.00	1.00	282626	Siltstone/Greywacke - intermediate composition with mod bnded cb, lam/bnded texture, 5% to 7% qcs/qs parallel to banding, occasional to widely scattered py-aspy <1%
126.00	127.00	1.00	282627	Siltstone/Greywacke - intermediate composition with mod bnded cb, lam/bnded texture, 2% to 3% qcs/qs parallel to banding, occasional py-aspy <1%
127.00	128.05	1.05	282628	Siltstone/Greywacke - intermediate composition with mod bnded cb,mixture of chl and ser bnds, lam/bnded texture, <1% qcs/qs, occasional to widely scattered py-aspy <1%
128.05	129.00	0.95	282629	Sericitic Felsic Crystal Tuff - strong pervasive ser>sil about qtz xtls, local strong fus along sh and wk cb, 5% tour frac and sh fract, <1% qcs, 2% to 4% vfg py
129.00	130.00	1.00	282630	Sericitic Felsic Crystal Tuff - strong pervasive ser>sil about qtz xtls, wk cb and local fus (<1%), <1% tour, strongly sh, <1% qcs, 2% to 3% vfg py-(aspy or arsenian pyrite)
130.00	131.00	1.00	282631	Sericitic Felsic Crystal Tuff - strong pervasive ser>sil about qtz xtls,mod cb and local wispy diffuse fus (<1%), 5% to 10% tour fract, strongly sh, 5% qcs, 5% to 10% vfg py-(aspy or arsenian pyrite)
131.00	132.00	1.00	282632	Sericitic Felsic Crystal Tuff - strong pervasive serl about qtz xtls,mod cb with 14 cm wide bio-chl-cb band, <5% tour, strongly sh, 1% qcs, 2% to locally 5% vfg py-(aspy or arsenian pyrite)
132.00	133.00	1.00	282633	Sericitic Felsic Crystal Tuff - strong pervasive ser>sil about qtz xtls,mod cb, 10% tour fract, strongly sh, 5% qcs, 2% to locally 5% vfg py-(aspy or arsenian pyrite)
133.00	134.00	1.00	282634	Sericitic Felsic Crystal Tuff - strong pervasive ser>sil about qtz xtls, mod cb, 5% tour fract, strongly sh, 10% qcs, <1% to 2% vfg py-(aspy or arsenian pyrite)
134.00	135.00	1.00	282635	Sericitic Felsic Crystal Tuff - strong pervasive ser>sil about qtz xtls, mod cb, 5% tour fract, strongly sh, 10% qcs, <1% to 2% vfg py-(aspy or arsenian pyrite)
135.00	136.00	1.00	282637	Sericitic Felsic Crystal Tuff - strong pervasive ser>sil about qtz xtls, wk-mod cb, 5% to 10% tour disseminated and sh fract, strongly sh, <1% qcs, 2% to 3% vfg py-(aspy or arsenian pyrite)
136.00	137.00	1.00	282638	Sericitic Felsic Crystal Tuff - strong pervasive ser>sil about qtz xtls, wk-mod cb, local fus, 5% to 7% tour disseminated and sh fract, strongly sh, 1% to 2% qcs, 2% to 4% vfg py-(aspy or arsenian pyrite)
137.00	138.00	1.00	282639	Sericitic Felsic Crystal Tuff - strong pervasive ser>sil about qtz xtls, mod cb, up to 5% tour in sh fract, strongly sh, 5% to 7% qcs, 3% to 5% vfg py-(aspy or arsenian pyrite)
138.00	139.00	1.00	282640	Sericitic Felsic Crystal Tuff - strong pervasive ser>sil about qtz xtls, mod cb, 5% to % tour sh fract, strongly sh, 1% qcs, 2% to 5% vfg py-(aspy or arsenian pyrite)
139.00	139.50	0.50	282641	Sericitic Felsic Crystal Tuff - strong & intense pervasive ser about qtz xtls, mod cb, up to 2% to 3% tour in matrix/sh fract, strongly sh, <1% qcs, 2% to 3% vfg py-aspy or arsenian pyrite
139.50	140.20	0.70	282642	Sericitic Felsic Crystal Tuff - strong & intense pervasive ser about qtz xtls, mod cb, up to 5% to 10% tour in matrix/sh fract, strongly sh, <1% qcs, 5% vfg py-aspy or arsenian pyrite
140.20	140.95	0.75	282643	Sheared Mafic Volcaniclastic - strong pervasive cb, bnded/sh texture, 5% qcs parallel to sh, < 1% widely scattered py
140.95	141.55	0.60	282644	Quartz-Carbonate Stockwork - strong chl-cb-sil-(ab) wr, fractured with 25% to 35% qcs, strongly sh, <5% py generally found at lower contact at vn/wr contacts
141.55	142.00	0.45	282645	Sheared & Carbonate Altered Mafic Pillow Flow/Volcaniclastics - mafic composition with mod chl and strong pervasive cb, strong sh/(bnded), 5% to 7% thin qcs withy 2% to 4% py associated with qcs along fract and sh planes
142.00	142.55	0.55	282646	Sheared & Carbonate Altered Mafic Pillow Flow - mafic composition with mod chl and strong pervasive cb, strong sh, 5% thin qcs parallel to sh with 5% py along sh planes with increase in py with qcs fracturing
142.55	143.00	0.45	282647	Sheared & Carbonate Altered Mafic Massive to Pillow Flow - mafic composition with mod chl and strong pervasive cb, strong sh, <1% qcs and py
143.00	144.00	1.00	282649	Carbonate Altered Massive Mafic Flow (Pillow Flow) - green color, mafic composition with mod chl and strong pervasive cb, wk-mod sh, 5% qcs/cs, < 1% py

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number: **WAT17-05** Project: **TAAC** Project Number: **259**

From (m)	To (m)	Length (m)	Sample #	Comments
158.40	159.15	0.75	282650	Carbonate Altered Mafic Pillow Flow - mod chl and strong pervasive cb, mod sh, 3% to 4% qcs/cs parallel to sh, overall < 1% py with local py along sh
159.15	160.00	0.85	282651	Carbonate Altered Mafic Pillow Flow - mod chl and strong pervasive cb, mod sh, 1% to 3% qcs/cs parallel to sh, local disseminated but overall < 1% py along sh
173.80	174.80	1.00	282652	Carbonate Altered Mafic Pillow Flow - mod chl and strong pervasive cb, mod sh, 2% qcs/cs parallel to sh, up to 1% py along sh with cb-rich pillow interstces
174.80	175.80	1.00	282653	Carbonate Altered Mafic Pillow Flow - mod chl and strong pervasive cb, mod sh, <1% qcs/cs parallel to sh, <1% local py along sh with cb-rich pillow interstces
175.80	176.80	1.00	282654	Carbonate Altered Mafic Pillow Flow - mod chl and strong pervasive cb, mod sh, 1% to 2% qcs/cs parallel to sh, occasional <1% py
187.50	188.20	0.70	282655	Sheared and Carbonate Altered Mafic Pillow Flow - mod chl with strong cb in pillow and cb-rich pillow interstices, strongly sh, 2% to 3% cs/qcs, occasional py <1%
188.20	189.20	1.00	282656	Sheared and Carbonate Altered Mafic Pillow Flow - mod chl with strong cb in pillow and cb-rich pillow interstices, strongly sh, 2% to 3% cs/qcs, occasional py <1% with slight increase at lc
189.20	190.20	1.00	282657	Sheared and Carbonate Altered Mafic Pillow Flow - mod chl with strong cb in pillow and cb-rich pillow interstices, strongly sh, 5% cs/qcs, widely scattered py <1%
190.20	191.25	1.05	282658	Sheared and Carbonate Altered Mafic Pillow Flow - mod chl with strong cb in pillow and cb-rich pillow interstices, strongly sh, 2% to 3% cs/qcs, occasional to widely scattered py <1%
191.25	192.20	0.95	282659	Mafic Pillow Flow - mod chl and cb with stong cb fractures, vfg and msv pillows, wk to mod sh, <1% to 2% qcs/cs with ep, occasional py < 1%
192.20	193.20	1.00	282661	Mafic Pillow Flow - mod chl and cb with stong cb fractures, vfg and msv pillows, wk to mod sh, <1% to 2% qcs/cs with ep, occasional py < 1% and <1% local cpy splashes in thin qs at lc
193.20	194.20	1.00	282662	Mafic Pillow Flow - mod chl and cb with stong cb fractures, vfg and msv pillows, wk to mod sh, increase in fracturing with 10% qcs/cs with local hem/spec hem, widely scattered py < 1%
194.20	194.70	0.50	282663	Mafic Pillow Flow - mod chl and cb with stong cb in matrix/fractures, vfg and msv pillows, wk to mod sh, increase in fracturing with 10% qcs/cs with qcs up to 7 cm wide, widely scattered sh py < 1%
194.70	195.00	0.30	282664	Sheared and Carbonate Altered Mafic Pillow Flow - mod chl with strong cb in pillow and cb-rich pillow interstices, strongly sh, 1% to 2% cs/qcs, occasional py <1%
195.00	195.70	0.70	282665	Mafic Pillow Flow - mod chl and wk-mod cb with strong cb fractures/shears, mod sh, fractured with 5% to 10% qcs/cs, up to 1% vfg widely scattered py with py occurring as sh grains/lenses
195.70	196.30	0.60	282666	Mafic Pillow Flow - mod chl-cb with strong cb pillow interstices, mod sh, 5% qcs/cs, up to 1% py generally found in cb-rich pillow interstices
196.30	196.65	0.35	282667	Mafic Pillow Flow - mod chl and mod/strong cb in matrix/pillow interstices, mod sh, 5% qcs, 2% to 3% disseminated py mainly in pillow interstices with <1% cpy
196.65	197.55	0.90	282668	Mafic Pillow Flow - mod chl and mod to strong pervasive cb in matrix/fractures, vfg and msv pillow, <1% to 2% qcs/cs, occasional py < 1%
197.55	198.00	0.45	282669	Quartz-Carbonate Stockwork - mod chl and mod/strong cb in matrix/fractures, 25% qcs, <1% cpy with 5% cpy in 2cm wide qcs in upper contact
198.00	198.30	0.30	282670	Weak Quartz-Carbonate Stockwork - mod chl and wk cb in matrix and strong cb in fractures, 10% qcs/qs, 3% to 4% cpy in qcs/qs and 1% to 2% py in wr as fractures and sh grains
198.30	198.80	0.50	282671	Quartz-Carbonate Stockwork - mod chl and wk cb in matrix and strong cb in fractures, 20% qcs/qs, up to 1% cpy splashes in qcs
198.80	199.10	0.30	282673	Massive Mafic Flow - green color being mod chl with weak cb and strong cb fractures, <1% qcs and py-cpy
199.10	199.60	0.50	282674	Weak Quartz Stockwork - mod chl and cb with strong cb in fractures, 15% qs/qcs with <1% to 2% cpy splashes in stringers, < 1% py
199.60	200.00	0.40	282675	Fractured Mafic Flow - mod chl-cb and strong cb fractures, 5% qcs, local cpy>py <1% in qcs
200.00	201.00	1.00	282676	Mafic Massive to Pillow Flow - green color, mafic composition with mod chl with wk-mod cb, vfg and massive pillows?, <1% to 2% qcs/cs, occasional bleb of py and cpy < 1%
201.00	202.00	1.00	282677	Mafic Massive to Pillow Flow - green color, mafic composition with mod chl to stronger chl in more sh lower section of interval, wk-mod cb, vfg and massive pillows?, <1% to 2% qcs/cs, occasional bleb of py < 1%

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number: **WAT17-05** Project: **TAAC** Project Number: **259**

From (m)	To (m)	Length (m)	Sample #	Comments
202.00	202.40	0.40	282678	Mafic Massive to Pillow Flow - green color, mafic composition with mod chl and wk-mod cb, vfg and massive pillows?, mod sh, <1% qcs/cs and py
202.40	202.70	0.30	282679	Fractured Mafic Massive to Pillow Flows - green color, mafic composition with mod to strong chl-cb with mod sh, fractured with 10% qcs with up to 1% coarse splashes of cpy and < 1% py
202.70	203.40	0.70	282680	Mafic Pillow Flow - green color, mafic composition with mod chl and wk cb, strong cb fractures, mod sh, <1% qcs and py
203.40	203.80	0.40	282681	Mafic Pillow Flow - mafic composition with strong pervasive cb and mod chl, vfg sh msv pillows, 2% to 4% thin qcs/cs, up to 1% fg to mg cpy>py splashes in qcs/cs
203.80	204.80	1.00	282682	Mafic Pillow Flow - mafic composition with pervasive mod/strong cb and mod chl, wk/mod sh vfg and msv pillows, 2% to 4% thin qcs/cs, <1% py-cpy
204.80	205.30	0.50	282683	Mafic Pillow Flow - mafic composition with pervasive mod/strong cb and mod chl, wk/mod sh msv vfg pillows, 1% to 3% thin qcs, 1% to 2% scattered sh py with occasional cpy in qcs < 0.5%
205.30	206.30	1.00	282685	Mafic Pillow Flow - mafic composition with mod chl and cb, 3% to 5% qcs, <1% py and local cpy splash in qcs <0.5%
206.30	207.00	0.70	282686	Mafic Pillow Flow - mafic composition with mod chl and mod/strong cb in matrix/fractures, local cb-rich pillow selvages, wk sh, 1% to 2% qcs, local scattered py< 1%
207.00	207.80	0.80	282687	Mafic Pillow Flow - mafic composition with mod chl and mod/strong cb in matrix/fractures, local cb-rich pillow selvages, wk sh, 1% to 2% qcs, local py < 1%
207.80	208.80	1.00	282688	Chlorite-Carbonate Shear - altered mafic composition with strong chl-cb, strongly sh, < 1% qcs/cs parallel to sh, occasional sh strung-out py < 1%
208.80	209.40	0.60	282689	Chlorite-Carbonate Shear - altered mafic composition with strong chl-cb, local cb-rich chert bands, strongly sh, 2% to 3% boud detached qcs/cs parallel to sh, occasional py < 1%
209.40	210.40	1.00	282690	Chlorite-Carbonate Shear - altered mafic composition with strong chl-cb, strongly sh, 5% qcs/cs parallel to sh, occasional <1% py
210.40	211.40	1.00	282691	Chlorite-Carbonate Shear - altered mafic composition with strong chl-cb, strongly sh, 5% qcs/cs parallel to sh, occasional <1% py
211.40	212.00	0.60	282692	Chlorite-Carbonate Shear - altered mafic composition with strong chl-cb, strongly sh with strong folded features, 2% to 3% qcs/cs parallel to sh, widely scattered py < 1%
212.00	212.50	0.50	282693	Fractured Chlorite-Carbonate Shear - altered mafic composition with strong chl-cb, strongly sh, fractured with 20% qcs/cs, widely scattered py < 1% with coarse cpy splashes in qcs/cs < 1% cpy
212.50	213.50	1.00	282694	Chlorite-Carbonate Shear - altered mafic composition with strong chl-cb, strongly sh with strong folded and crenulated fold features, 3% to 5% qcs/cs parallel to sh with boud detached qcs/qs, widely scattered py < 1%
213.50	214.00	0.50	282695	Chlorite-Carbonate Shear - altered mafic composition with strong chl-cb, strongly sh with strong folded features, 1% to 2% qcs/cs parallel to sh with boud detached qcs/qs, widely scattered py < 1%
214.00	214.50	0.50	282697	Chlorite-Carbonate Shear - altered mafic composition with strong chl-cb, strongly sh with strong folded and crenulated fold features, 2% to 4% qcs/cs parallel to sh with boud detached qcs/qs, widely scattered py < 1% with coarse splashes of cpy (<1%) in localized qcs/csi
214.50	215.50	1.00	282698	Chlorite-Carbonate Shear - altered mafic composition with strong chl-cb, strongly sh, 2% to 3% qcs/cs, <1% py
215.50	216.10	0.60	282699	Chlorite-Carbonate Shear - altered mafic composition with strong chl-cb, strongly sh, 2% to 3% qcs/cs, <1% py
216.10	216.85	0.75	282700	Chlorite-Carbonate Shear - altered mafic composition with strong chl-cb, strongly sh,<1% qcs/cs, <1% py
216.85	218.00	1.15	282701	Chlorite-Carbonate Shear - altered mafic composition with mod chl and strong per cb,mod/strongly sh, 5% qcs, scattered vfg to fg py cubes up to 1% increasing towards 218
218.00	218.50	0.50	282702	Chlorite-Carbonate Shear - altered mafic composition with mod chl and strong per cb, mod/strongly sh, 5% to 10% deformed qcs, widely scattered vfg 1% to 2% disseminated py
218.50	218.80	0.30	282703	Chlorite-Carbonate Shear - altered mafic composition with mod chl and strong pervasive cb, mod to locally strongly sh, 5% to 7% qcs parallel to sh, 2% to 4% vfg to fg sh py and < 1% local cpy blebs
218.80	219.80	1.00	282704	Chlorite-Carbonate Shear - altered mafic composition with mod chl and strong per cb, mod sh, 3% to 4% qcs/cs, < 1% py

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number: **WAT17-05** Project: **TAAC** Project Number: **259**

From (m)	To (m)	Length (m)	Sample #	Comments
229.40	230.00	0.60	282705	Mafic Massive Flow xcut by Diabase - mafic composition with strong cb, xcut by magnetic diabase dykelets/tongues, fractured 10% qcs/qs, up to 1% scattered py

DRILL HOLE REPORT

Hole Number: **WAT17-06** Project: **TAAC** Project Number: **251**

Drilling		Casing		Core		Location		Other	
Azimuth:	360	**Length:**	6	**Dimension:**	NQ	**Claim No.:**	102012, 165492	**Company:**	IAMGOLD
Dip:	-46	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	230	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Stephen Roach
Started:	19-Apr-17	**Cemented:**	no	**Hole Type**	DDH	**Section:**	49+00 E	**Surveyed:**	yes
Completed:	21-Apr-17	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	Larry Labelle
Logged:	24-Apr-17	**Making water:**	yes	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: Multiple IP Chargeability Targets

Comment: Testing IP 1 down-dip with moderate IP responses ranging from 8.9 and 16.0; shows direct and coincidental strong resitivity ; flexure in the chargeability zone in a northeast direction; hosted in sheared mafic flows/volcaniclastics and inter-formational chemical/clastic metasedimentswithin RDZ

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	434897.9	**East:**	434897.9	**East:**	0
North:	5270385.78	**North:**	5270385.78	**North:**	0
Elev.:	385.56	**Elev.:**	385.56	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
0.00	360.00	-46.00	0	0	0		C	☑	
2.00	359.60	-46.10				59759	M	☑	
5.00	359.60	-46.10				59753	M	☑	
8.00	359.70	-46.10				59741	M	☑	
11.00	0.70	-46.00				55841	M	☑	
14.00	0.30	-45.90				55504	M	☑	
17.00	1.70	-45.60				55316	M	☑	
20.00	348.60	-45.80				58622	M	☐	Magnetic Diabase
23.00	355.40	-45.70				57865	M	☐	Magnetic Diabase
26.00	1.40	-45.60				55171	M	☑	
29.00	0.00	-45.70				55295	M	☑	
32.00	0.30	-45.70				55299	M	☑	
35.00	359.60	-45.50				55280	M	☑	
38.00	0.40	-45.50				55272	M	☑	
41.00	359.60	-45.70				55241	M	☑	

DRILL HOLE REPORT

Hole Number: **WAT17-06** Project: **TAAC** Project Number: **251**

Drilling		Casing		Core		Location		Other	
Azimuth:	360	**Length:**	6	**Dimension:**	NQ	**Claim No.:**	102012, 165492	**Company:**	IAMGOLD
Dip:	-46	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	230	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Stephen Roach
Started:	19-Apr-17	**Cemented:**	no	**Hole Type**	DDH	**Section:**	49+00 E	**Surveyed:**	yes
Completed:	21-Apr-17	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	Larry Labelle
Logged:	24-Apr-17	**Making water:**	yes	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: Multiple IP Chargeability Targets

Comment: Testing IP 1 down-dip with moderate IP responses ranging from 8.9 and 16.0; shows direct and coincidental strong resitivity ; flexure in the chargeability zone in a northeast direction; hosted in sheared mafic flows/volcaniclastics and inter-formational chemical/clastic metasedimentswithin RDZ

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North:	5270385.78	**North:**	5270385.78	**North:**	0
Elev.:	385.56	**Elev.:**	385.56	**Elev.:**	0

Deviation Tests

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
44.00	359.80	-45.60				55226	M	☑	
47.00	359.80	-45.40				55215	M	☑	
50.00	359.80	-45.50				55216	M	☑	
53.00	359.90	-45.30				55231	M	☑	
56.00	359.80	-45.50				55208	M	☑	
59.00	359.90	-45.40				55211	M	☑	
62.00	359.80	-45.30				55190	M	☑	
65.00	359.70	-45.40				55144	M	☑	
68.00	0.20	-45.30				55269	M	☑	
71.00	359.60	-45.40				55195	M	☑	
74.00	0.20	-45.20				55238	M	☑	
77.00	0.20	-45.10				55176	M	☑	
80.00	359.70	-45.20				55041	M	☑	
83.00	0.10	-45.00				55215	M	☑	
86.00	0.20	-45.10				55234	M	☑	
89.00	0.20	-45.10				55220	M	☑	

Density Tests

DRILL HOLE REPORT

Hole Number: **WAT17-06** Project: **TAAC** Project Number: **251**

Drilling		Casing		Core		Location		Other	
Azimuth:	360	**Length:**	6	**Dimension:**	NQ	**Claim No.:**	102012, 165492	**Company:**	IAMGOLD
Dip:	-46	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	230	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Stephen Roach
Started:	19-Apr-17	**Cemented:**	no	**Hole Type**	DDH	**Section:**	49+00 E	**Surveyed:**	yes
Completed:	21-Apr-17	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	Larry Labelle
Logged:	24-Apr-17	**Making water:**	yes	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: Multiple IP Chargeability Targets

Comment: Testing IP 1 down-dip with moderate IP responses ranging from 8.9 and 16.0; shows direct and coincidental strong resitivity ; flexure in the chargeability zone in a northeast direction; hosted in sheared mafic flows/volcaniclastics and inter-formational chemical/clastic metasedimentswithin RDZ

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	434897.9	**East:**	434897.9	**East:**	0
North:	5270385.78	**North:**	5270385.78	**North:**	0
Elev.:	385.56	**Elev.:**	385.56	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
92.00	0.00	-45.10				55241	M	☑	
95.00	0.40	-44.80				55250	M	☑	
98.00	0.20	-44.90				55209	M	☑	
101.00	0.10	-44.80				55234	M	☑	
104.00	0.40	-44.70				55262	M	☑	
107.00	1.00	-44.80				55359	M	☑	
110.00	0.60	-44.70				55257	M	☑	
113.00	0.10	-44.60				55244	M	☑	
116.00	0.50	-44.40				55274	M	☑	
119.00	0.60	-44.40				55278	M	☑	
122.00	0.10	-44.50				55267	M	☑	
125.00	0.10	-44.30				55265	M	☑	
128.00	0.10	-44.30				55263	M	☑	
131.00	359.90	-44.40				55269	M	☑	
134.00	0.30	-44.20				55288	M	☑	
137.00	0.10	-44.20				55332	M	☑	

DRILL HOLE REPORT

Hole Number: **WAT17-06** Project: **TAAC** Project Number: **251**

Drilling		Casing		Core		Location		Other	
Azimuth:	360	**Length:**	6	**Dimension:**	NQ	**Claim No.:**	102012, 165492	**Company:**	IAMGOLD
Dip:	-46	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	230	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Stephen Roach
Started:	19-Apr-17	**Cemented:**	no	**Hole Type**	DDH	**Section:**	49+00 E	**Surveyed:**	yes
Completed:	21-Apr-17	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	Larry Labelle
Logged:	24-Apr-17	**Making water:**	yes	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: Multiple IP Chargeability Targets

Comment: Testing IP 1 down-dip with moderate IP responses ranging from 8.9 and 16.0; shows direct and coincidental strong resitivity ; flexure in the chargeability zone in a northeast direction; hosted in sheared mafic flows/volcaniclastics and inter-formational chemical/clastic metasedimentswithin RDZ

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	434897.9	**East:**	434897.9	**East:**	0
North:	5270385.78	**North:**	5270385.78	**North:**	0
Elev.:	385.56	**Elev.:**	385.56	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
140.00	359.80	-44.30				55286	M	☑	
143.00	359.50	-44.10				55349	M	☑	
146.00	359.70	-44.10				55361	M	☑	
149.00	359.40	-44.10				55271	M	☑	
152.00	359.60	-44.20				55261	M	☑	
155.00	0.30	-44.00				55263	M	☑	
158.00	359.70	-44.10				55163	M	☑	
161.00	0.60	-44.00				55756	M	☑	
164.00	0.40	-43.90				55213	M	☑	
167.00	0.70	-44.00				55194	M	☑	
170.00	0.30	-43.90				55217	M	☑	
173.00	0.70	-44.00				55208	M	☑	
176.00	0.60	-43.90				55211	M	☑	
179.00	0.80	-43.90				55197	M	☑	
182.00	1.20	-43.70				55201	M	☑	
185.00	1.20	-43.60				55201	M	☑	

DRILL HOLE REPORT

Hole Number: **WAT17-06** Project: **TAAC** Project Number: **251**

Drilling		Casing		Core		Location		Other	
Azimuth:	360	**Length:**	6	**Dimension:**	NQ	**Claim No.:**	102012, 165492	**Company:**	IAMGOLD
Dip:	-46	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	230	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Stephen Roach
Started:	19-Apr-17	**Cemented:**	no	**Hole Type**	DDH	**Section:**	49+00 E	**Surveyed:**	yes
Completed:	21-Apr-17	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	Larry Labelle
Logged:	24-Apr-17	**Making water:**	yes	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: Multiple IP Chargeability Targets

Comment: Testing IP 1 down-dip with moderate IP responses ranging from 8.9 and 16.0; shows direct and coincidental strong resitivity ; flexure in the chargeability zone in a northeast direction; hosted in sheared mafic flows/volcaniclastics and inter-formational chemical/clastic metasedimentswithin RDZ

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	434897.9	**East:**	434897.9	**East:**	0
North:	5270385.78	**North:**	5270385.78	**North:**	0
Elev.:	385.56	**Elev.:**	385.56	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
188.00	1.30	-43.70				55182	M	☑	
191.00	1.00	-43.60				55166	M	☑	
194.00	1.00	-43.50				55154	M	☑	
197.00	1.60	-43.40				55182	M	☑	
200.00	1.50	-43.30				55179	M	☑	
203.00	1.50	-43.50				55168	M	☑	
206.00	1.70	-43.30				55191	M	☑	
209.00	1.60	-43.20				55197	M	☑	
212.00	1.20	-43.30				55173	M	☑	
215.00	1.20	-43.20				55176	M	☑	
218.00	1.50	-42.90				55184	M	☑	
221.00	1.40	-42.90				55158	M	☑	
224.00	1.20	-43.00				55067	M	☑	
227.00	2.60	-43.00				55096	M	☐	Magnetic Mafics
230.00	2.40	-42.90				56344	M	☐	Magnetic Mafics

LITHOLOGY REPORT
- Detailed -

Hole Number: **WAT17-06** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
0.00	5.30	**Overburden** **OB** ***Overburden***	5		BR									
		Overburden - sand and granitic boulders (Casing 6.0 meters)												
5.30	8.20	**Fresh Rock** **2G** ***Mafic Pillow Flow***	1	1	GR	282706	7.00	8.20	1.20	-	-	-	-	-
		Mafic PillowFlow - green color, mafic in composition with moderate chlorite with epidote and weak carbonate (calcite), increase in sheared calcite-rich pillow interstices (up to 3 cm wide) being numerous from 5.8 to 8.2.												
		- strongly sheared 60 from C.A., occasional qcs/cs parallel to sh < 1%												
		Mineralization - occasional py <1%												
		Contact - gradational increase in sericite and carbonate												

Alteration Maj:	*Type/Style/Intensity*	*Comment*
5.30 - 8.20	CB IS 2	Carbonatization, Pillow Interstitial, Weak to Moderate
5.30 - 8.20	EP MX 2	Epidotization, Matrix, Weak
5.30 - 8.20	CL MX 3	Chloritization, Matrix, Moderate

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
5.30 - 8.20	Py BLB 1	Pyrite, Blebs, <1%

LITHOLOGY REPORT
- Detailed -

Hole Number: **WAT17-06** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
8.20	17.85	**Fresh Rock** **SH** ***Sericite-Chlorite-Carbonate Shear with***	1	1	BE

Sericite-Chlorite-Carbonate Shear (Sheared and Altered Mafic Pillow Flow with Chert Bands) - dirty beige brownish gray, light green, and grayish white colors, altered mafic composition with moderate to strong ser>chl from 8.2 to 13.9 and chl>ser to 17.85 with a gradational mixture contact, moderate to locally strong pervasive carbonate (calcite) throughout the section, numerous sheared calcite carbonate pillow interstices up to 3cm wide, increase in chert bands from 11.0 to 13.9 (5% to 22%) and from 15.0 to 17.85 (5% to 25%) with overall average of 10% from 11.0 to 17.85, chert bands up to 7 cm wide and act as pillow interstitial to altered mafic pillow flows.

- strongly sheared pillow flows 42 to 56 from C.A. averaging 45 from C.A., local interference fold nose 10 to 30 from C.A. at 11.3, occasional to scattered qcs/qs (1% to 5%) with local increase from 9.65 to 10.3 with 20% qcs/qs (up to 7.5 cm wide) 45 to 55 from C.A.

Mineralization - occasional sh py < 1%
Contact - sharp contact 23 from C.A.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
8.20 - 13.90	CB PV 3	Carbonatization, Pervasive, Moderate
8.20 - 13.90	CL PV 2	Chloritization, Pervasive, Weak to Moderate
8.20 - 13.90	SR PV 3	Sericitization, Pervasive, Moderate to Strong
13.90 - 17.85	CB PV 3	Carbonatization, Pervasive, Moderate
13.90 - 17.85	SR PV 2	Sericitization, Pervasive, Weak to Moderate
13.90 - 17.85	CL PV 3	Chloritization, Pervasive, Moderate to Strong

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
8.20 - 17.85	Py BLB 1	Pyrite, Blebs, <1%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
282707	8.20	9.00	0.80	-	-	-	-	-
282708	9.00	9.65	0.65	-	-	-	-	-
282709	9.65	10.40	0.75	-	-	-	-	-
282710	10.40	11.00	0.60	-	-	-	-	-
282711	11.00	11.70	0.70	-	-	-	-	-
282713	11.70	12.30	0.60	-	-	-	-	-
282714	12.30	13.00	0.70	-	-	-	-	-
282715	13.00	13.90	0.90	-	-	-	-	-
282716	13.90	15.00	1.10	-	-	-	-	-
282717	15.00	16.00	1.00	-	-	-	-	-
282718	16.00	17.00	1.00	-	-	-	-	-
282719	17.00	17.85	0.85	-	-	-	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
17.85	22.90	**Fresh Rock** **14B** ***Diabase Dyke***	1	1	GREBL

Diabase Dyke - greenish black to black color, mafic in composition with moderate to strong cb (calcite), vfg

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
282720	17.85	19.00	1.15	-	-	-	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)

and massive texture, occasional to locally scatterd 10% to 15% qcs/cs (up to 3 cm wide) 30 from C.A. from 20.0 to 20.4.

Mineralization - occasional py < 1% being strongly magnetic with vfg disseminated and fracture-fill magnetite
Contact - sharp contact 40 from C.A.

Alteration Maj:	Type/Style/Intensity	Comment
17.85 - 22.90	CB MX 3	Carbonatization, Matrix, Moderate to Strong

Mineralization Maj. :	Type/Style/%Mineral	Comment
17.85 - 22.90	Py BLB 1	Pyrite, Blebs, <1%

22.90 26.00 **Fresh Rock** **2G** ***Sheared Mafic Pillow Flow*** 1 1 GG

Sheared Mafic Pillow Flow - dirty grayish green color, mafic composition with weak to moderate chlorite and weak carbonate (calcite) with strong calcite-rich carbonate sheared pillow interstices, 10% to 15% vfg white leucoxene in the last 10 cm of the interval

- strongly sheared pillow texture 35 to 45 from C.A., pillows are tightly packed with frequent to numerous thin cb-rich pillow interstices with pillows varying < 1 to 7 cm wide, occasional thin qcs/cs < 1%

Mineralization - occasional py < 1%
Contact - gradational with increase in 10% to 15% vfg white leucoxene in the last 10 cm on the interval

Alteration Maj:	Type/Style/Intensity	Comment
22.90 - 25.90	CB MX 2	Carbonatization, Matrix, Weak
22.90 - 25.90	CL MX 2	Chloritization, Matrix, Weak to Moderate
25.90 - 26.00	CB MX 2	Carbonatization, Matrix, Weak
25.90 - 26.00	CL MX 2	Chloritization, Matrix, Weak to Moderate
25.90 - 26.00	LX DISS 3	Leucoxene, Disseminated, Moderate with 10% to 15%

Mineralization Maj. :	Type/Style/%Mineral	Comment
22.90 - 26.00	Py BLB 1	Pyrite, Blebs, <1%

Hole Number: **WAT17-06** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
26.00	32.80	**Fresh Rock** **2B** ***Mafic Massive Flow***	1	1	GR									

Mafic Massive Flow - green color, mafic in composition with moderate chlorite-(epidote) and weak carbonate (calcite), vfg equigranular matrix mixture of amphibole and feldspar with chlorite and epidote, 5% to 10% vfg to fg white leucoxene from 26.0 to 26.7.

- weakly foliated/sheared 40 to 45 from C.A. with scattered qcs/qs up to 5 cm wide with increased qcs/qs (20% to 25%) from 27.0 to 27.55, overall veining averaging 2% to 3%

Mineralization - occasional py < 0.5%
Contact - gradational

Alteration Maj:	*Type/Style/Intensity*	*Comment*
26.00 - 26.70	LX DISS 3	Leucoxene, Disseminated, Moderate with 5% to 10%
26.00 - 26.70	CB MX 2	Carbonatization, Matrix, Weak
26.00 - 26.70	EP MX 2	Epidotization, Matrix, Weak
26.00 - 26.70	CL MX 3	Chloritization, Matrix, Moderate
26.70 - 32.80	CB MX 2	Carbonatization, Matrix, Weak
26.70 - 32.80	EP MX 2	Epidotization, Matrix, Weak
26.70 - 32.80	CL MX 3	Chloritization, Matrix, Moderate

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
32.80	36.20	**Fresh Rock** **2G** ***Sheared Mafic Pillow Flow/Pillow Brecci***	1	1	GR									

Sheared Mafic Pillow Flow/Pillow Breccia - green color, mafic composition with weak to moderate chlorite and weak carbonate (calcite) with a gradual increasing carbonate alteration in the matrix towards 36.2, numerous strong calcite-rich carbonate-epidote sheared pillow interstices

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		- strongly sheared pillow texture 43 to 46 from C.A., pillows are tightly packed with frequent to numerous thin cb-ep rich pillow interstices and pillows, both up to 10 cm wide, scattered thin qcs/cs (3% to 5%) generally parallel to sub-parallel to shearing, local tour (1% to 2%) in veining Mineralization - occasional py-(po) < 1%...generally, locally recognized in the cb-rich pillow interstices as vfg scattered grains Contact - gradational increase in cb>ser and sharp contact 43 from C.A. with pillow selvage												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment*** 32.80 - 36.20 CB IS 4 Carbonatization, Pillow Interstitial, Strong 32.80 - 36.20 CB MX 2 Carbonatization, Matrix, Weak 32.80 - 36.20 EP MX 2 Epidotization, Matrix, Weak 32.80 - 36.20 CL MX 3 Chloritization, Matrix, Moderate												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment*** 32.80 - 36.20 Po BLB 1 Pyrrhotite, Blebs, <1% 32.80 - 36.20 Py BLB 1 Pyrite, Blebs, <1%												
36.20	46.40	**Fresh Rock** **SH** ***Sericite-Carbonate Shear (Sheared & Alt***	1	1	BE	282721	36.20	37.00	0.80	-	-	-	-	-
		Sericite-Carbonate Shear (Sheared & Altered Mafic Pillow Flow with Chert) - beige and brownish dirty gray, and grayish white colors, strongly altered mafic composition with strong/intense pervasive sericite and carbonate (ankerite & calcite) alteration of pillows and selvages with wk chl relict selvages at upper and lower contacts, gradual increase in chert bands (act as pillow interstitial) from 40.0 to 45 with grayish-white chert bands (up 4.5 cm wide) ranging from 15% to 48%.....48% chert from 44.5 to 45.0.				282722	37.00	38.00	1.00	-	-	-	-	-
						282723	38.00	39.00	1.00	-	-	-	-	-
						282725	39.00	40.00	1.00	-	-	-	-	-
						282726	40.00	40.80	0.80	-	-	-	-	-
		- strongly sheared with relict sheared pillows at upper and lower contacts with strongly/intensely sheared laminated/banded texture with associated intense alteration from 40.0 to 45.0, shearing ranges from 39 to 50 from C.A.and chert banding 31 to 41 from C.A., scattered <1% to local 5% qcs/qs with…				282727	40.80	41.50	0.70	-	-	-	-	-
						282728	41.50	42.55	1.05	-	-	-	-	-
		42.55 to 42.85 - Quartz Vein - milky white to white color, quartz composition with weak cb, 10% irregular ser-cb altered and sh wr, <1% py-(cpy) local in vn, sharp upper and lower contact 49 and 59 from C.A.,				282729	42.55	42.85	0.30	-	-	-	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		respectively				282730	42.85	43.50	0.65	-	-	-	-	-
		Mineralization - occasional py < 1%				282731	43.50	44.50	1.00	-	-	-	-	-
		Contact - sharp sheared contact 49 from C.A.				282732	44.50	45.00	0.50	-	-	-	-	-
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***				282733	45.00	45.50	0.50	-	-	-	-	-
		36.20 - 46.40 CB PV 4 Carbonatization, Pervasive, Strong to Intense				282734	45.50	46.05	0.55	-	-	-	-	-
		36.20 - 46.40 SR PV 4 Sericitization, Pervasive, Strong to Intense				282735	46.05	46.40	0.35	-	-	-	-	-
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		36.20 - 46.40 Py BLB 1 Pyrite, Blebs, <1%												
Minor Interval:														
42.55	42.85	Fresh Rock QV *Quartz Vein* 1												
		Quartz Vein - milky white to white color, quartz composition with weak cb, 10% irregular ser-cb altered and sh wr, <1% py-(cpy) local in vn, sharp upper and lower contact 49 and 59 from C.A., respectively												
Minor Interval:														
44.50	45.00	Fresh Rock 5B *Chert-Cherty Tuff* 1												
		Chert-Cherty Tuff - comprises 48% of the interval, grayish white color, vsg siliceous in composition forming as laminations and bands uop toi 4 cm wide, <1% py												
46.40	77.85	**Fresh Rock** **2B** ***Mafic Massive & Pillow Flows***	1	1	GR	282737	54.20	54.80	0.60	-	-	-	-	-
		Mafic Massive & Pillow Flows - green, greenish black, and dark green color, mafic composition (both Fe and Mg-rich tholeiitic basalts) with moderate to locally strong chlorite-epidote with weak to moderate carbonate (calcite) with strong carbonate as pillow interstices, flow breccia matrix, and in fractures/stringers/veinlets, locally vfg to mg foliated sub-elliptical shaped carbonate-quartz amygdules (5%) from 48.0 to 48.6 and in well developed pillow margins from 62.0 to 65.7.				282738	54.80	55.80	1.00	-	-	-	-	-
						282739	76.85	77.35	0.50	-	-	-	-	-
		- massive and pillow flows (50:50) with the upper (46.4 to 53.2) and lower (69.25 to 77.85) intervals being vfg/aphanitic and massive with the remaining middle section being pillowed flows, well developed				282740	77.35	77.85	0.50	-	-	-	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)

undeformed pillow texture from 62.0 to 65.7 with amygdaloidal margins with vfg carbonate-quartz amygdules with pillows up to 0.70 m wide and both chl-cb-ep and cb-rich pillow interstices <1 to 5cm wdie, well developed flow breccia from 70.2 to 71.8.

- overall variable non-foliated and massive to local sections being strongly sheared/foliated sections within the pillow units from 53.2 to 57.1 and from 68.0 to 69.25, overall 41 to 50 from C.A (average is 47), occasional to scattered qcs/qs with epidote up to 4 cm wide generally parallel to sub-parallel to foliation

Mineralization - occasional sh py-po (<1%) grains, more recognized in the carbonate-rich pillow interstices as vfg scattered grains, 1% to 2% vfg aspy or arsenian py xtls at lower contact at 77.8.

Contact - gradational increased in shearing

Alteration Maj:	***Type/Style/Intensity***	***Comment***
46.40 - 77.85	CB FRC 4	Carbonatization, Along Fractures, Strong
46.40 - 77.85	CB IS 4	Carbonatization, Pillow Interstitial, Strong
46.40 - 77.85	EP MX 3	Epidotization, Matrix, Moderate
46.40 - 77.85	CL MX 3	Chloritization, Matrix, Moderate to Strong

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
46.40 - 77.85	Aspy BLB 0.5	Arsenopyrite, Blebs, <0.5% overall with 1% to 2% at lower contact at 77.8
46.40 - 77.85	Po BLB 1	Pyrrhotite, Blebs, <1%
46.40 - 77.85	Py BLB 1	Pyrite, Blebs, <1%

LITHOLOGY REPORT
- Detailed -

Hole Number: **WAT17-06** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
77.85	84.70	**Fresh Rock** **SH** ***Chlorite-(Sericite)-Carbonate Shear***	1	1	GG

Chlorite-(Sericite)-Carbonate Shear - grayish green, dark greenish black, dirty beige brownish green color, altered mafic composition with a mixture of chlorite and sericite with moderate to strong cb (calcite) along shears and pillow interstices, gradual decrease in sericite from about 82.0 to 84.7.

- strongly sheared pillow and volcaniclastics 47 to 64 from C.A. with increase in core angles from about 83.0 to 84.7, relict pillow texture and folded volcaniclastics bnds from 81.85 to 83.0 with axial planar to F.A. 30 and 84 from C.A. (2 different generations of folding), possible local dirty chert bnds (up to 1 cm wide and <1%) in volcaniclastic unit from 81.85 to 82.8, occasional to local qcs/cs <1% to local 5%.

Mineralization - occasional to widely scattered vfg py-po < 1%, slight increase in the volcaniclastic unit in the cb-rich bands as vfg disseminated grains
Contact - sharp sheared contact 60 from C.A.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
77.85 - 84.70	CB FRC 4	Carbonatization, Along Fractures, Strong
77.85 - 84.70	CB IS 4	Carbonatization, Pillow Interstitial, Strong
77.85 - 84.70	SR PV 3	Sericitization, Pervasive, Moderate to Strong Sh Controlled
77.85 - 84.70	CL PV 3	Chloritization, Pervasive, Moderate to Strong Sh Controlled

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
77.85 - 84.70	Po BLB 1	Pyrrhotite, Blebs, <1%
77.85 - 84.70	Py BLB 1	Pyrite, Blebs, <1%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
282741	77.85	78.85	1.00	-	-	-	-	-
282742	78.85	79.85	1.00	-	-	-	-	-
282743	79.85	80.85	1.00	-	-	-	-	-
282744	80.85	81.85	1.00	-	-	-	-	-
282745	81.85	82.85	1.00	-	-	-	-	-
282746	82.85	83.85	1.00	-	-	-	-	-
282747	83.85	84.70	0.85	-	-	-	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
84.70	106.00	**Fresh Rock** **2B** ***Massive Mafic Flow (Minor Pillow Flows)***	1	1	GR

Massive Mafic Flow (Minor Pillow Flows) - green color, mafic composition with moderate chl and wk to locally moderate cb in vfg matrix, vfg to fg disseminated white leucoxene from 84.7 to 85.7 with overlap of fg to mg (up to 0.20 cm in size) amphibolitic-(chloritic) porphyroblasts (20% to 30%) from 85.4 to 88.6, gradually finer grained with depth.

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
282749	93.85	94.35	0.50	-	-	-	-	-
282750	94.35	95.35	1.00	-	-	-	-	-
282751	95.35	96.35	1.00	-	-	-	-	-

Hole Number: **WAT17-06** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)

94.35 to 95.35 - Chlorite-Carbonate Shear (Sheared Mafic Pillow Flow) - green and grayish white color, altered mafic composition with strong chl and cb as alternating bands with strong chl-cb of pillows and cb-rich pillow interstices, strongly sheared 60 from C.A., up to 1% qcs/cs parallel to sh, <1% py, sharp upper and lower contacts 57 and 80 from C.A., respectively

- vfg to fg and massive appearance with local pillows as per pillow selvage? At 89.9, weakly to moderately sheared and foliated 40 to 60 from C.A. (average is 52 from C.A.), occassional qcs/qs with epidote (up to 3 cm wide) <1% to locally 2% to 3%.

Mineralization - occasional py < 1%
Contact - gradational contact with increase in chl-cb and shearing from 105.6 to 106.0

Alteration Maj:	*Type/Style/Intensity*	*Comment*
84.70 - 85.50	CB MX 2	Carbonatization, Matrix, Weak
84.70 - 85.50	CL MX 3	Chloritization, Matrix, Moderate
84.70 - 85.50	LX DISS 2	Leucoxene, Disseminated, Weak
85.50 - 106.00	CB MX 2	Carbonatization, Matrix, Weak to Locally Moderate
85.50 - 106.00	CL MX 3	Chloritization, Matrix, Moderate

Minor Interval:

94.35	95.35	Fresh Rock	SH	*Chlorite-Carbonate Shear (Sheared Mafic Pillow Flow)*	1

Chlorite-Carbonate Shear (Sheared Mafic Pillow Flow) - green and grayish white color, altered mafic composition with strong chl and cb as alternating bands with strong chl-cb of pillows and cb-rich pillow interstices, strongly sheared 60 from C.A., up to 1% qcs/cs parallel to sh, <1% py, sharp upper and lower contacts 57 and 80 from C.A., respectively

Hole Number: **WAT17-06** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
106.00	111.70	**Fresh Rock** **SH** ***Chlorite-Carbonate Shear***	1	1	GREBL

Chlorite-Carbonate Shear (Massive Mafic Flows/Volcaniclastics) - greenish black to dark green color, altered mafic composition with moderate to strong chlorite and carbonate with weak to moderate carbonate from 110.35 to 111.7 associated with mafic volcaniclastics.

- moderately to strongly sheared 47 to 60 from with well developed folding laminations/banding 50 to 55 from C.A. with variability wrt numerous parasitic drag folds within the mafic volcaniclastics between 110.35 to 111.7, axial planar to S and Z-shape parasitic drag folds range from 40 to 80 from C.A. with at least two generations of folding, S-shape fold from 110.35 to 110.9 with Z-shape folds to 111.7.

Mineralization - occasional py < 1%
Contact - sharp contact 63 from C.A.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
106.00 - 110.35	CB PV 3	Carbonatization, Pervasive, Moderate to Strong
106.00 - 110.35	CL PV 3	Chloritization, Pervasive, Moderate to Strong
110.35 - 111.70	CB PV 2	Carbonatization, Pervasive, Weak to Moderate
110.35 - 111.70	CL PV 3	Chloritization, Pervasive, Moderate to Strong

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
106.00 - 111.70	Py BLB 1	Pyrite, Blebs, <1%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
282752	106.00	107.00	1.00	-	-	-	-	-
282753	107.00	108.00	1.00	-	-	-	-	-
282754	108.00	109.00	1.00	-	-	-	-	-
282755	109.00	109.30	0.30	-	-	-	-	-
282756	109.30	109.90	0.60	-	-	-	-	-
282757	109.90	110.35	0.45	-	-	-	-	-
282758	110.35	111.00	0.65	-	-	-	-	-
282759	111.00	111.70	0.70	-	-	-	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
111.70	115.00	**Fresh Rock** **QTS** ***Quartz Stockwork***	1	1	GR

Quartz Stockwork - dark grayish green, dark green, and white colors, altered mafic composition with strong pervasive chl and wk to moderate carbonate alteration of the wallrock.

- fractured and folded with shearing, sheared 55 from C.A. with variable core angles in deformed and folded qcs/qs (up to 37 cm, but more typically 2 to 5 cm wide, qcs/qs ranges 5% to 100%, averaging 15% to 20% of the unit, core angles vary from 10 to 62 from C.A. with axial planar to folds ranging 0 to 45 from C.A.

Mineralization - occasional to widely scattered vfg py-po-(cpy-aspy) <1% with relative increase in po-py

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
282761	111.70	112.10	0.40	-	-	-	-	-
282762	112.10	112.75	0.65	-	-	-	-	-
282763	112.75	113.60	0.85	-	-	-	-	-
282764	113.60	114.10	0.50	-	-	-	-	-
282765	114.10	114.50	0.40	-	-	-	-	-
282766	114.50	115.00	0.50	-	-	-	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		sulphides from 113.6 to 115 with up to 1% to locally 2% Contact - sharp contact 45 from C.A with 6 cm wide qcs												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		111.70 - 115.00 CB MX 2 Carbonatization, Matrix, Weak to Moderate												
		111.70 - 115.00 CL MX 4 Chloritization, Matrix, Strong												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		111.70 - 113.60 Cpy BLB 0.5 Chalcopyrite, Blebs,<0.5%												
		111.70 - 113.60 Aspy BLB 0.5 Arsenopyrite, Blebs, <0.5%												
		111.70 - 113.60 Po BLB 1 Pyrrhotite, Blebs, <1%												
		111.70 - 113.60 Py BLB 1 Pyrite, Blebs, <1%												
		113.60 - 115.00 Po DIS 1 Pyrrhotite, Disseminated, up to 1%												
		113.60 - 115.00 Py DIS 1 Pyrite, Disseminated, 1% to 2%												
115.00	117.80	**Fresh Rock** **SH** ***Chorite-Carbonate Shear***	1	1	GREBL	282767	115.00	116.00	1.00	-	-	-	-	-
		Chorite-Carbonate Shear - similar in description to section from 106.0 to 11.7 with….				282768	116.00	116.40	0.40	-	-	-	-	-
		1) hosted in massive flows and moderate to strong pervasive chl and cb alteration of matrix (shear controlled) 2) moderately to strongly sh 45 to 50 from C.A. 3) <1% to local 2% to 3% qcs/qs				282769	116.40	117.40	1.00	-	-	-	-	-
						282770	117.40	117.80	0.40	-	-	-	-	-
		Mineralization - occasional to widely scattered vfg po-py <1% Contact - gradational decrease in chl-cb and shearing												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		115.00 - 117.80 CB MX 3 Carbonatization, Matrix, Moderate to Strong												
		115.00 - 117.80 CL MX 3 Chloritization, Matrix, Moderate to Strong												

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		115.00 - 117.80 Po BLB 1 Pyrrhotite, Blebs, <1%												
		115.00 - 117.80 Py BLB 1 Pyrite, Blebs, <1%												
117.80	133.00	**Fresh Rock** **2B** ***Mafic Massive to Pillow Flow***	1	1	GR	282771	117.80	118.30	0.50	-	-	-	-	-
		Mafic Massive to Pillow Flow - green color, mafic composition with moderate chlorite-epidote with weak to local moderate carbonate with increased carbonate in the more sheared pillowed section, foliated amphibolitic porphyroblasts (up to 0.2 cm in size) from 125.5 to 131.1 giving a porphyroblastic texture in this section….becomes gradually more finer grained from 131.1 to 133.0				282773	118.30	119.50	1.20	-	-	-	-	-
						282774	119.50	120.75	1.25	-	-	-	-	-
		- upper and lower intervals are massive flows from 117.8 to 119.4 and from 125.5 to 133.0 with mix of pillowed>massive flows in the mid-section from 119.4 to 125.5 with gradational contacts, overall weakly to moderately foliated/sheared ranging from 47 to 57 from C.A (average is 52 from C.A) with a stronger fabric in the pillow flow section from 119.4 to 125.5, A., occasional to scattered qcs/cs with epidote <1% to locally 5% to 10% with increased of stringers and veinlets in the more sh mafic pillow section (5% to 10% sections from 121.7 to 123.0 and from 125.0 to 126.0), qcs/qs up to 5 cm wide and range from 55 to 70 from C.A….parallel to sub-parallel to foliation/shearing.				282775	120.75	121.70	0.95	-	-	-	-	-
						282776	121.70	123.00	1.30	-	-	-	-	-
						282777	123.00	124.20	1.20	-	-	-	-	-
						282778	124.20	124.50	0.30	-	-	-	-	-
		129.95 to 132.90 - Fault Breccia - reflected as a fault line and thin breccia <0.1 to 1 cm wide trending 0 to 10 from C.A., strike slip flt displacement of 7cm in a sinistral movement at 132.35				282779	124.50	125.00	0.50	-	-	-	-	-
						282780	125.00	126.00	1.00	-	-	-	-	-
		Mineralization - occasional to widely scattered vfg py-(po) <1% with increased sulphide from 119.55 to 120.7, 121.9 to 123.0, and from 124.25 to 124.45 with widely scattered/disseminated vfg py>po (aspy?) up to 1%, py also occurs as minor fracture-filling				282781	126.00	126.50	0.50	-	-	-	-	-
		Contact - gradationally finer grained 131.1 to 133 (finer grained margin of flow) and more reworked												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		117.80 - 133.00 CB IS 3 Carbonatization, Pillow Interstitial, Moderate												
		117.80 - 133.00 CB MX 2 Carbonatization, Matrix, Weak to Moderate												
		117.80 - 133.00 EP MX 3 Epidotization, Matrix, Moderate												
		117.80 - 133.00 CL MX 3 Chloritization, Matrix, Moderate												

Hole Number: **WAT17-06** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)

Mineralization Maj. :	Type/Style/%Mineral	Comment
117.80 - 133.00	Aspy BLB 0.5	Arsenopyrite, Blebs, <0.5%
117.80 - 133.00	Po BLB 0.5	Pyrrhotite, Blebs, <0.5%
117.80 - 133.00	Py BLB 1	Pyrite, Blebs, up to 1%

Minor Interval:

129.95 – 132.90 | Fresh Rock | FLTbx *Fault Breccia* | 1

Fault Breccia - reflected as a fault line and thin breccia <0.1 to 1 cm wide trending 0 to 10 from C.A., strike slip flt displacement of 7cm in a sinistral movement at 132.35

133.00 – 137.30 | **Fresh Rock** | **6D** | ***Greywacke*** | 1 | 1 | GG | 282782 | 133.20 | 134.70 | 1.50 | - | - | - | - | -

Banded Greywacke - dark gray to darkgreenish gray color, intermediate in compostion with weak to moderate cb with argillaceous micaceous bnds/laminations, weakly carbonaceous bands from about 136.0 to 137.3.

- well developed banding 50 to 55 from C.A. with banded up to 5 cm wide, banding is disrupted at lower contact with tongues of diabase intruding into the greywacke, occasional to locally scattered qcs (up to 5 cm wide) averaging 2% to 4% with local 55 to 10% qcs/cs from 133.2 to 134.7, generally parallel to sub-parallel to bedding

Mineralization - occasional to local py <1% with local 1% to 2% py associated with 3 cm qs and sil margin at 133.5.
Contact - sharp, broken I irregular contact with diabase

Alteration Maj:	Type/Style/Intensity	Comment
133.00 - 137.30	CB MX 2	Carbonatization, Matrix, Weak to Moderate

Mineralization Maj. :	Type/Style/%Mineral	Comment
133.00 - 137.30	Py BLB 1	Pyrite, Blebs, <1% with 1% to 2% py at contact

Hole Number: **WAT17-06** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
137.30	145.55	**Fresh Rock** **14B** ***Diabase Dyke***	1	1	DGR	282783	144.50	145.55	1.05	-	-	-	-	-
		Diabase Dyke - dark green to blackish green color, mafic composition with moderate pervasive carbonate (calcite) in matrix being ferromagnesian-rich (amphibole-pyroxene), vfg to fg and massive. Mineralization <0.5% py and weakly magnetic with <1% to 2% magnetite Contact - sharp contact 53 from C.A. with 5 cm wide qcs/cs and strongly graphitic along slip planes												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		137.30 - 145.55 CB MX 3 Carbonatization, Matrix, Moderate												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		137.30 - 145.55 Py BLB 0.5 Pyrite, Blebs, <0.5%												
145.55	152.50	**Fresh Rock** **6E** ***Argillite to Graphitic Argillite***	1	1	BE	282785	145.55	146.00	0.45	-	-	-	-	-
		Argillite to Graphitic Argillite - beige brownish gray and black colored bands/sections, intermediate composition with moderate to locally strong pervasive carbonate (calcite) in matrix and fractures and local shear planes, strong black graphitic from 145.55 to 146.0 and from 148.25 to 149.0 and as variable weak to moderate carbonaceous and graphitic bands laminations (<5% to 10%) in the remaining interval.				282786	146.00	146.50	0.50	-	-	-	-	-
						282787	146.50	147.20	0.70	-	-	-	-	-
						282788	147.20	148.25	1.05	-	-	-	-	-
		- well developed banding/laminations 43 to 50 from C.A. with disrupted fractured and sheared upper contact area with 5% to 70% qcs/qcv from 145.55 to 147.2 (averages 25% to 35%), veining up to 17 cm wide, remaining interval <1% to locally 10% qcs/qs/cs with vieinlets up to 10 cm wide				282789	148.25	149.00	0.75	-	-	-	-	-
						282790	149.00	150.00	1.00	-	-	-	-	-
						282791	150.00	151.00	1.00	-	-	-	-	-
		Mineralization - overall < 1% py as sh grains/strung-out py along sh bedding/sh planes, increased py (1% to 2%) associated with fracturing from 145.55 to 147.2 Contact - gradational				282792	151.00	152.00	1.00	-	-	-	-	-
						282793	152.00	152.50	0.50	-	-	-	-	-
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		145.55 - 152.50 CB SP 4 Carbonatization, Along Shear Planes, Strong												
		145.55 - 152.50 CB FRC 4 Carbonatization, Along Fractures, Strong												
		145.55 - 152.50 CB MX 3 Carbonatization, Matrix, Moderate												

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		145.55 - 147.20 Py FAC 1 Pyrite, Fracture-controlled, 1% to 2%												
		147.20 - 152.50 Py BLB 1 Pyrite, Blebs, <1%												
152.50	153.55	**Fresh Rock** **QTCSW** ***Quartz-(Carbonate) Stockwork***	1	1	WH	282794	152.50	153.00	0.50	-	-	-	-	-
						282795	153.00	153.55	0.55	-	-	-	-	-
		Quartz-(Carbonate) Stockwork - intermediate composition being both argillaceous and strongly graphitic from 153.0 to 153.5, moderate ser with moderate to strong carbonate in altered wr matrix, strongly fractured with 20% to 25% qcs/qs up to 7 cm wide 40 to 60 from C.A., moderately to strongly sheared overprint of bedding 55 to 60 from C.A.												
		Mineralization - <1% to 15% to 20% vfg pyrite fracture-filling and matrix cement in fractured qcs/qs, <1% py from 152.5 to 153.0 and 10% to 15% (locally 20%) from 153.0 to 153.5 associated with stronger graphitic component in the wallrock												
		Contact - gradational												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		152.50 - 153.55 CB MX 3 Carbonatization, Matrix, Moderate to Strong												
		152.50 - 153.55 SR MX 3 Sericitization, Matrix, Moderate												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		152.50 - 153.00 Py BLB 1 Pyrite, Blebs, <1%												
		153.00 - 153.55 Py FAC 10 Pyrite, Fracture-controlled, 10% to 15% and locally 20%												

LITHOLOGY REPORT
- Detailed -

Hole Number: **WAT17-06** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
153.55	156.65	**Fresh Rock** **6E** ***Banded/Laminated Graphitic Argillite/Ar***	1	1	BLK

Banded/Laminated Graphitic Argilliete/Argillite - alternating banded and laminated black and beige brownish gray colors, intermediate composition with moderate to strong pervasive carbonate, alternating moderate to strong graphitic and argillaceous (sericite-carbonate) bands/laminations with strongly graphitic section from 153.55 to 154.5 with up to 30% graphitic bands/lamination in the remaining interval.

- well developed lamination and banding 48 to 58 from C.A. with moderate to strong parasitic drag folding (both S and Z) throughout the section trending 20 to 40 and 70 from C.A. (2 generations), widely scattered qcs/cs ranging < 1% to locally 2% parallel to sub-parallel to bedding/sh planes.

Mineralization - occasional to widely scattered sheared and string-out py along bedding planes ranging < 1% to 4%, typically 1% to 2% pyrite
Contact -sharp contact 50 from C.A.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
153.55 - 156.65	SR MX 3	Sericitization, Matrix, Moderate
153.55 - 156.65	CB PV 3	Carbonatization, Pervasive, Moderate to Strong

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
153.55 - 156.65	Py DIS 1	Pyrite, Disseminated, 1% to 2% and locally up to 4%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
282797	153.55	154.50	0.95	-	-	-	-	-
282798	154.50	155.30	0.80	-	-	-	-	-
282799	155.30	156.00	0.70	-	-	-	-	-
282800	156.00	156.65	0.65	-	-	-	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
156.65	160.80	**Fresh Rock** **14B** ***Diabase Dyke***	1	1	DGR

Diabase Dyke - dark green to greenish black color, mafic composition with weak carbonate (calcite) being ferromagnesian-rich (amphibole-pyroxene) >calcic feldspar, vfg to fg equigranular to sub-ophitic texture, massive appearance, occasional qcs and cs < 1%

Mineralization - occasional py <1%, weakly to locally moderately magnetic with <1% to 2% vfg disseminated magnetite
Contact - sharp contact 60 from C.A.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
156.65 - 160.80	CB MX 2	Carbonatization, Matrix, Weak

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
156.65 - 160.80	Py BLB 0.5	Pyrite, Blebs, <0.5%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
282801	156.65	157.15	0.50	-	-	-	-	-
282802	160.30	160.80	0.50	-	-	-	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
160.80	175.00	**Fresh Rock** **6E** ***Argillite (Minor Argillaceous Mafic Pillow*** 1			BE

Argillite (Minor Argillaceous Mafic Pillow Flow) - beige to dirty light brownish gray and black colors, intermediate in composition being predominantly argillicaceous as per micaceous (sericite) and variable weak to strong carbonate (calcite) with an overall moderate carbonate alteration in the matrix and strong in the fractures and along shear planes, predomiant black graphitic sections inter-banded with argillite from…

160.8 to 162.1
166.9 to 167.5
168.2 to 169.0

- possible argillaceous sheared mafic pillow flows?? from 166.9 to to 169.0 with graphitic and argillaceous mafic volcaniclastic pillow interstitial

- both well developed banded to laminated texture ranging from 47 to 56 from C.A. (average is 50 from C.A.); moderate to locally intensely folded from about 170.0 to 175.0 with numerous parasitic drag fold (generally Z and M-shape drag folds) with axial planar F.A. 20 to 40 from C.A., gradual increased shearing towards 175.0 and generally parallel to sub-parallel to banding/bedding ranging 50 to 57 from C.A., <1% to to local 5% to 15% qcs/cs with a 25 cm wide qcv from 164.25 to 164.5), increased stringers and veining from 168.2 to 169.0 (5% to 10%) and from 171.8 to 172.6 (10% to 15%)

Mineralization - occasional to widely scattered vfg and sheared and string-out py along bedding/sh planes with overall average <1% py, increased py from 161.8 to 162.1 (5% to 10%) and from 166.5 to 168.2 (1% to 2%, minor py fracture-filling)

Contact - gradational contact

Alteration Maj:	*Type/Style/Intensity*	*Comment*
160.80 - 175.00	CB SP 4	Carbonatization, Along Shear Planes, Strong
160.80 - 175.00	CB FRC 4	Carbonatization, Along Fractures, Strong
160.80 - 175.00	CB MX 3	Carbonatization, Matrix, Moderate
160.80 - 175.00	SR MX 3	Sericitization, Matrix, Moderate

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
282803	160.80	161.80	1.00	-	-	-	-	-
282804	161.80	162.10	0.30	-	-	-	-	-
282805	162.10	163.00	0.90	-	-	-	-	-
282806	163.00	164.00	1.00	-	-	-	-	-
282807	164.00	164.50	0.50	-	-	-	-	-
282808	164.50	165.50	1.00	-	-	-	-	-
282809	165.50	166.50	1.00	-	-	-	-	-
282810	166.50	167.50	1.00	-	-	-	-	-
282811	167.50	168.20	0.70	-	-	-	-	-
282813	168.20	169.00	0.80	-	-	-	-	-
282814	169.00	170.00	1.00	-	-	-	-	-
282815	170.00	171.00	1.00	-	-	-	-	-
282816	171.00	171.80	0.80	-	-	-	-	-
282817	171.80	172.60	0.80	-	-	-	-	-
282818	172.60	173.35	0.75	-	-	-	-	-
282819	173.35	174.10	0.75	-	-	-	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)

Mineralization Maj. :	Type/Style/%Mineral	Comment
161.80 - 162.10	Py DIS 5	Pyrite, Disseminated, 5% to 10%
166.50 - 168.20	Py DIS 1	Pyrite, Disseminated, 1% to 2% and as minor fracture-filling

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
175.00	183.80	**Fresh Rock** **4J** ***Felsic VolcaniclasticTuff***	1	1	GY	282820	177.35	178.35	1.00	-	-	-	-	-
						282821	178.35	179.35	1.00	-	-	-	-	-
						282822	179.35	179.65	0.30	-	-	-	-	-
						282823	179.65	180.30	0.65	-	-	-	-	-
						282825	180.30	181.15	0.85	-	-	-	-	-
						282826	181.15	181.95	0.80	-	-	-	-	-
						282827	181.95	182.60	0.65	-	-	-	-	-
						282828	182.60	183.20	0.60	-	-	-	-	-
						282829	183.20	183.80	0.60	-	-	-	-	-

Felsic Volcaniclastic Tuff - gray and beige gray colors, altered felsic composition for most part with moderate to strong pervasive carbonate in matrix and moderate to locally stronger sericite alteration in the matrix, gradual less altered felsic composition from 178.15 to 180.0 with less sericite with relict qtz-fd xtl fragments and felsic fragments up to 2 cm in size (5% to 10% fragments).....matrix supported

- moderately sheared and relict local banding 43 to 61 from C.A. with increasing core angles from 180.5 to 183.8, occasional to scattered qcs/qs (2% to 3%) with increased veining from 181.15 to 181.95 (15%) and from 182.6 to 183.8 (5% to 10%), stringers and veinlets up to 12 cm wide, numerous hairline crackle cs/qcs fractures itowards the contact from 182.6, qcs/qs vary from 48 to 72 from C.A.

Mineralization - occasional to widely scattered vfg sh py < 1% with local 2% to 3% py fractures in 12 cm qcs from 179.5 to 179.62
Contact - sharp contact 65 from C.A.

Alteration Maj:	Type/Style/Intensity	Comment
175.00 - 178.15	SR PV 3	Sericitization, Pervasive, Moderate to Locally Strong
175.00 - 178.15	CB PV 3	Carbonatization, Pervasive, Moderate to Strong
180.00 - 183.80	SR PV 3	Sericitization, Pervasive, Moderate to Locally Strong
180.00 - 183.80	CB PV 3	Carbonatization, Pervasive, Moderate to Strong

Mineralization Maj. :	Type/Style/%Mineral	Comment
179.50 - 179.62	Py FAC 2	Pyrite, Fracture-controlled, 2% to 3% in 12 cm Wide QCS

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
183.80	185.70	**Fresh Rock** **7B** ***Diorite***	1	1	GY	282830	183.80	184.80	1.00	-	-	-	-	-
						282831	184.80	185.70	0.90	-	-	-	-	-
185.70	189.05	**Fresh Rock** **2G** ***Sheared Mafic Pillow Flow (Volcaniclasti***	1	1	GR	282832	185.70	186.65	0.95	-	-	-	-	-
						282833	186.65	187.20	0.55	-	-	-	-	-
						282834	187.20	187.75	0.55	-	-	-	-	-
						282835	187.75	188.50	0.75	-	-	-	-	-
						282837	188.50	189.05	0.55	-	-	-	-	-

Diorite - dark gray to gray color, intermediate in composition with strong pervasive carbonate (calcite), weak chl/amp in matrix (5% to 15%) with locally scattered vfg white leucoxene (<1% to 5%), vfg and massive, scattered thin cs/qcs <1% up to 0.5 cm wide.

Mineralization - <0.5% py and very weakly magnetic
Contact - sharp contact 60 from C.A.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
183.80 - 185.70	CB PV 4	Carbonatization, Pervasive, Strong

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
183.80 - 185.70	Py BLB 0.5	Pyrite, Blebs, <0.5%

Mafic Pillow Flow (Volcaniclastics) - green color, mafic composition with mod chl-ep and moderate cb (calcite) with locally stronger cb in matrix, moderate ser alteration of matrix from 185.7 to 186.65 with gradual decrease in ser towards 186.65

- moderately sheared with upper interval having stronger sh pillowed texture with both carbonate-rich and chl-ep-cb laminated mafic volcaniclastic pillow interstices, weak to moderately shearing/foliated 53 to 55 from C.A. with scattered qcs/qs to locally numerous veining up to 30% up to 8 cm wide ranging 55 to 61 from C.A.

187.20 to 187.75 - Quartz-Carbonate Stockwork - white and green color, moderate chl-cb altered wallrock with 30% qcs/qs up to 8 cm wide, <1% to 5% py with upper10 cm wide interval hosting 5% py as disseminations and fracture-filling, sharp upper and lower contacts 59 and 61 from C.A., respectively

Mineralization - occasional to locally disseminated pyrite over 10 cm as at 186.0 (2% to 3% py), 186.85 to

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		186.95 (5% to 10% py), and from 187.2 to 187.3 (5% py) with increased py associated with shears/fractures and locally in ca-cb-rich pillow interstices Contact - sharp 60 from C.A. ***Alteration Maj:*** ***Type/Style/Intensity*** ***Comment*** 185.70 - 186.65 SR MX 3 Sericitization, Matrix, Moderate 186.65 - 189.05 CB MX 3 Carbonatization, Matrix, Moderate to Locally Strong 186.65 - 189.05 EP MX 3 Epidotization, Matrix, Moderate 186.65 - 189.05 CL MX 3 Chloritization, Matrix, Moderate ***Mineralization Maj. :*** ***Type/Style/%Mineral*** ***Comment*** 185.90 - 186.00 Py DIS 2 Pyrite, Disseminated, 2% to 3% in Sh/Fractures 186.85 - 186.95 Py DIS 5 Pyrite, Disseminated, 5% to 10% in Sh/Fractures 187.20 - 187.30 Py DIS 5 Pyrite, Disseminated, 5% in Shears and Fractures												
Minor Interval:														
187.20	187.75	Fresh Rock QTCS W *Quartz-(Carbonate) Stockwork* 1 187.20 to 187.75 - Quartz-Carbonate Stockwork - white and green color, moderate chl-cb altered wallrock with 30% qcs/qs up to 8 cm wide, <1% to 5% py with upper10 cm wide interval hosting 5% py as disseminations and fracture-filling, sharp upper and lowe contact 59 and 61 from C.A, respectively.												
189.05	190.10	**Fresh Rock** **QV** ***Quartz Vein*** 1 1 WH Quartz Vein - milky white and green color, quartz composition with chl-(cb) altered mafic wallrock inclusions up to 20 cm in width, numerous chl seams inear lower contact and tonguing wr/vn contact, scattered blck vfg to fg tourmaline xtls (1% to 3%) Mineralization - barren < 0.5% Contact - sharp contact 61 from C.A.				282838 282839	189.05 189.55	189.55 190.10	0.50 0.55	- -	- -	- -	- -	- -

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		189.05 - 190.10 CB MTV 2 Carbonatization, Marginal to veins, Weak												
		189.05 - 190.10 CL MTV 3 Chloritization, Marginal to veins, Moderate												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		189.05 - 190.10 Py BLB 0.5 Pyrite, Blebs, <0.5%												
190.10	203.75	**Fresh Rock** **2G** ***Mafic Pillow Flow***	1	1	GREBL	282840	190.10	190.80	0.70	-	-	-	-	-
		Mafic Pillow Flow - blackish green to green color, mafic composition with both Fe and Mg-rich basalts with mod to strong chl with ep in Fe-rich varieties and chl-(serp-talc?) in the Mg-rich flows, moderate to stronger pervasive cb with depth towards 203.75.				282841	190.80	191.20	0.40	-	-	-	-	-
						282842	191.20	191.80	0.60	-	-	-	-	-
		- sheared/foliated pillow texture with cb-rich mafic volcaniclastics interstices up to 1 cm wide giving a banded texture, moderately sheared with variable 32 to 70 from C.A. (average is 51 from C.A.), scattered to numerous qcs/qs (up to 20 cm wide) with veining between….				282843	199.85	200.35	0.50	-	-	-	-	-
						282844	200.35	200.85	0.50	-	-	-	-	-
		190.1 to 191.2 - Fracture Zone - 10% to 15% qcs/qs up to 4 cm wide as thin stringers, veinlets, and as lenses parallel to sh 50 from C.A.				282845	200.85	201.40	0.55	-	-	-	-	-
		196.1 to 196.3 - Quartz-Carbonate Vein - milky white and qtz-cb composition with 205 wr inclusions, sharp contacts 50 from C.A.				282846	201.40	201.95	0.55	-	-	-	-	-
		200.35 to 203.05 - Fracture Zone - 10% quartz-carbonate tourmaline stringers/veinlet with strong tourmaline alteration of wr between 202.2 to 203.05…..strong sil and possible ab-kspar wr bleached pinkish-gray alteration				282847	201.95	202.50	0.55	-	-	-	-	-
						282849	202.50	203.05	0.55	-	-	-	-	-
		Mineralization - occasional py < 1%				282850	203.05	203.75	0.70	-	-	-	-	-
		Contact - sharp contact with 5 cm wide qcs 70 from C.A.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		190.10 - 203.75 CB PV 3 Carbonatization, Pervasive, Moderate to Strong												
		190.10 - 203.75 EP MX 3 Epidotization, Matrix, Moderate												
		190.10 - 203.75 CL MX 3 Chloritization, Matrix, Moderate to Strong												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		190.10 - 203.75 Py BLB 1 Pyrite, Blebs, <1%												
203.75	204.85	**Fresh Rock** **4F** ***Felsic Tuff***	1	1	GY	282851	203.75	204.85	1.10	-	-	-	-	-

Felsic Tuff - felsic in composition with moderate pervasive carbonate (calcite) with weak sericite, vfg fragmental texture withm vfg qtz-fd fragments in a tuffaceous matrix, massive appearance, occasional qcs/cs < 1% to 2%.

Mineralization - occasional py < 0.5%
Contact - sharp contact 70 from C.A.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
203.75 - 204.85	SR MX 2	Sericitization, Matrix, Weak
203.75 - 204.85	CB MX 2	Carbonatization, Matrix, Weak to Moderate

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
203.75 - 204.85	Py BLB 0.5	Pyrite, Blebs, <0.5%

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
204.85	219.30	**Fresh Rock** **6B** ***Arenaceous-Arenite with Chert Exhalite***	1	1	GY

Arenaceous-Arenite with Chert ExhaliteTuffs -dirty beige-greenish gray and light to smoky gray colors, siliceous in composition with moderate pervasive ser and wispy ank-(fus) associated with chert, gradual decrease in ser from 217.0 to 219.3, weak to locally moderate to strong carbonate (calcite), local strong chl-bio shears as from 213.8 to 214.0, gradually more biotiitic and chloritic in the more laminated section of this interval from 216.2 to 219.3,

- noteable strongly sil flooded cherty exhalative tuff occurring as beds/bands/laminations with noteable sections from…

204.85 to 205.35
205.75 to 206.2
208.7 to 209.75
210.3 to 210.8

- cherty tuff sections alternate with strongly ser-ank-(fus) bands, particularly in above local sections and appear to be clasts within the sil flooding of cherty tuff giving a breccia texture as per 205.75 to 206.2

- well developed banding/bedding/lamination ranging from 22 to 63 from C.A.(average is 51 from C.A.) due to flexuring and local folding, becomes more finely laminated gradually from 215.6 to 218.5, local S-shape drag fold with axial planar fold axis 45 from C.A. at 217.5, thin hairline-fault lines following beta angle parallel to core axis at 218.5 and at the contact at 219.3….shows dextral strike slip movement 0.5cm and 2.0 movement, respectively, generally <1% to 3% scattered qs/qcs up to 8 cm wide with local increased veining from 208.7 to 209.75 (10% to 20%) and 211.8 to 212.15 (10%).

Mineralization - overall interval < 1% py-aspy-(sp) with localized increase in sulphide generally with sil cherty tuffs as from…

204.85 to 205.35 - 2% to 4% scattered vfg py with up to 1% to 2% patchy vfg to fg aspy xtls
205.75 to 206.2 - up to 1% to 2% vfg disseminated aspy-py with sulphides occurring in fracture-filling and seams in chert exhalative tuff
208.2 to 208.7 - 10% to 15% vfg disseminated py (also as folded/crenulated seams) in chloritic altered arenite in chert exhalative tuff (minor sericitic arenite)
208.7 to 209.7 - 1% to 5% disseminated and fracture-fill pyrite and <1% to 4% disseminated aspy in chert exhalative bands
210.3 to 210.8 - 1% to 2% vfg to fg aspy>py disseminated xtls in cherty exhalative tuff

Contact - sharp contact 58 from C.A. with 4 cm wide chert band with flt line parallel to C.A. and beta angle

Alteration Maj: ***Type/Style/Intensity*** ***Comment***

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
282852	204.85	205.35	0.50	-	-	-	-	-
282853	205.35	205.75	0.40	-	-	-	-	-
282854	205.75	206.20	0.45	-	-	-	-	-
282855	206.20	206.90	0.70	-	-	-	-	-
282856	206.90	207.55	0.65	-	-	-	-	-
282857	207.55	207.85	0.30	-	-	-	-	-
282858	207.85	208.20	0.35	-	-	-	-	-
282859	208.20	208.70	0.50	-	-	-	-	-
282861	208.70	209.20	0.50	-	-	-	-	-
282862	209.20	209.75	0.55	-	-	-	-	-
282863	209.75	210.30	0.55	-	-	-	-	-
282864	210.30	210.80	0.50	-	-	-	-	-
282865	210.80	211.20	0.40	-	-	-	-	-
282866	211.20	211.80	0.60	-	-	-	-	-
282867	211.80	212.15	0.35	-	-	-	-	-
282868	212.15	213.20	1.05	-	-	-	-	-
282869	213.20	213.80	0.60	-	-	-	-	-
282870	213.80	214.60	0.80	-	-	-	-	-
282871	214.60	215.60	1.00	-	-	-	-	-
282873	215.60	216.60	1.00	-	-	-	-	-
282874	216.60	217.00	0.40	-	-	-	-	-
282875	217.00	218.00	1.00	-	-	-	-	-
282876	218.00	218.50	0.50	-	-	-	-	-
282877	218.50	219.30	0.80	-	-	-	-	-

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From (m)	To (m)		Lithology	Weathering Oxidation Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		204.85 - 210.80	AK SP 2	Ankerite, Along Shear Planes, Weak to Locally Moderate along Shears									
		204.85 - 210.80	CB MX 2	Carbonatization, Matrix, Variable Weak to Strong									
		204.85 - 210.80	SR BNDS 3	Sericitization, Bands/Banded, Moderate to Strong									
		204.85 - 210.80	SI BNDS 4	Silicification, Bands/Banded, Strong									
		210.80 - 217.00	BIO SP 3	Biotitization, Along Shear Planes, Locally Moderate to Strong									
		210.80 - 217.00	CL SP 3	Chloritization, Along Shear Planes, Locally Moderate to Strong									
		210.80 - 217.00	CB MX 2	Carbonatization, Matrix, Variable Weak to Strong									
		210.80 - 217.00	SR PV 3	Sericitization, Pervasive, Moderate to Strong									
		217.00 - 219.30	BIO BNDS 3	Biotitization, Bands/Banded, Moderate									
		217.00 - 219.30	CL BNDS 3	Chloritization, Bands/Banded, Moderate									
		217.00 - 219.30	CB MX 2	Carbonatization, Matrix, Weak to Moderate									
		Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***									
		204.85 - 205.35	Aspy DIS 1	Arsenopyrite, Disseminated, up to 1% to 2% xtls									
		204.85 - 205.35	Py DIS 2	Pyrite, Disseminated, 2% to 4%									
		205.75 - 206.20	Aspy DIS 3	Arsenopyrite, Disseminated, 1% to 2% xtls									
		205.75 - 206.20	Py FAC 1	Pyrite, Fracture-controlled, 1% to 2%									
		208.20 - 208.70	Py DIS 10	Pyrite, Disseminated, 10% to 15% associated with chl alteration, folded seams of py									
		208.70 - 210.80	Aspy DIS 1	Arsenopyrite, Disseminated, <1% to 4% xtls									
		208.70 - 210.80	Py DIS 1	Pyrite, Disseminated, 1% to 5% and also as fracture-fill									

Minor Interval:

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
204.85	205.35	Fresh Rock 5B *Chert-Cherty Exhalative Tuff*		1										
		Cherty Exhalative Tuff - smoky gray to gray color, silicified compoasition with moderate to strong cb, 5% to 10% ankerite-rich bands/lam (altered arenite), sh and banded 54 from C.A., 5% to 10% qcs/qs/sil flooding, scattered vg py (2% to 4%) with up to 1% to 2% patchy aspy xtls												
Minor Interval:														
205.75	206.20	Fresh Rock 5B *Chert-Cherty Exhalative Tuff*		1										
		Cherty Exhalative Tuff (Minor Sericitic Arenite) - gray to smoky gray colors, dirty siicified chert and strong ank-ser altered arenite bnds, strong pervasive ca-cb, banded/bx with sil flooding chert with sericitic arenite clasts, banding 40 from C.A. 2% qcs/qs, up to 1% to 2% vfg disseminated aspy aspy-py with sulphides occurring as fractures												
Minor Interval:														
208.70	209.75	Fresh Rock 5B *Chert-Cherty Exhalative Tuff (Weak QTSW)*		1										
		Chert-Cherty Exhalative Tuff (Weak QTSW) - light to smoky gray color, strong silicified flooding in chert with ser-ank altered arenaceous bands with local fuschite, alternating bands of chert>altered arenite, banded texture with variability 22 to 60 from C.A. which may indicate some flexuring/folding, 10% to 20% fracturing with qs/qcs as veinlets and as lense-like features in with cherty bands, <1% to 5% scattered py and <1% to 4% aspy xtls and as fractures and seams												
Minor Interval:														
210.30	210.80	Fresh Rock 5B *Chert-Cherty Exhalative Tuff*		1										
		Chert-Cherty Exhalative Tuff - light to smoky gray color, strong silicified flooding in cherty bands alternating with diffuse wispy ser-ank-fus bands, banded 42 to 50 from C.A., <15 qs/qcs, up to 1% to 2% aspy>py as scattered vfg xtls/grains												
219.30	230.00	**Fresh Rock 2L *Mafic Volcaniclastic/Flow***	1	1	GR	282878	219.30	220.30	1.00	-	-	-	-	-
						282879	220.30	221.30	1.00	-	-	-	-	-
		Mafic Volcaniclastic/Flow - green to dark green color and greenish black color, mafic composition with moderate chlorite with moderate to strong carbonate (calcite), well developed laminations and banded from 219.3 to 227.1 with moderate foliation/sh overprint…overall 50 to 55 from C.A., local S-shape drag fold on the laminations in the upper part of the interval with axial planar to fold axis 40 to 65 from C.A., scattered qs/qcs up 10 cm wide and avarging 2% to 4%, but locally up to 5% to 10%												
		Mineralization - occasional to widely scattered py < 1%, non-magnetic to weakly magnetic from 219.3 to												

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		224.75 with increasing magnetism from moderately to locally strongly magnetic from 224.75 to 230.0												

Alteration Maj:	Type/Style/Intensity	Comment
219.30 - 230.00	CB MX 3	Carbonatization, Matrix, Moderate to Strong
219.30 - 230.00	CL MX 3	Chloritization, Matrix, Moderate

Mineralization Maj. :	Type/Style/%Mineral	Comment
219.30 - 230.00	Py BLB 1	Pyrite, Blebs, <1% occasional to widely/patchy scattered

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From (m)	To (m)	Length (m)	Sample #	Comments
7.00	8.20	1.20	282706	Mafic Pillow Flow - mod chl and wk cb in matrix, strong ca-cb in pillow interstices,mod sh, 1% to 2% qcs/cs, < 1% py
8.20	9.00	0.80	282707	Sericitic-Carbonate Altered Mafic Pillow Flow (Shear) - mod to strong ser and cb in sh bnds, strongly sh, <1% qcs/cs, occasional py < 1%
9.00	9.65	0.65	282708	Sericitic-Carbonate Altered Mafic Pillow Flow (Shear) - mod to strong ser and cb in sh bnds, strongly sh, 5% qcs/cs parallel to sh, occasional py < 1%
9.65	10.40	0.75	282709	Fractured Sericitic-Carbonate Altered Mafic Pillow Flow (Shear) - mixture of mod ser>chl with strong pervasive cb, strongly sh, 10% qcs/qs, < 1% py
10.40	11.00	0.60	282710	Sericitic-Carbonate Altered Mafic Pillow Flow (Shear)- mod to strong ser and cb in sh bnds, strongly sh, <1%% qcs/cs parallel to sh, occasional py < 1%
11.00	11.70	0.70	282711	Sericitic-Carbonate Altered Mafic Pillow Flow (Shear) and 10% Chert - mod to strong ser>chl and cb with 10% chert interstitial bnds, strongly sh, strongly folded/fold nose, <1% to 2% qcs/qs, <1% py
11.70	12.30	0.60	282713	Sericitic-Chloritic-Carbonate Altered Mafic Pillow Flow (Shear) and 22% Chert - mod to strong ser-chl and cb with 22% grayish-white chert pillow interstitial bnds, strongly sh, strongly folded/fold nose, <1% to 2% qcs/qs, <1% py
12.30	13.00	0.70	282714	Sericitic-Chloritic-Carbonate Altered Mafic Pillow Flow (Shear) and 8% Chert - mod to strong ser-chl and cb with 8% grayish-white chert pillow interstitial bnds, strongly sh, <1% to 2% qcs/qs, <1% py
13.00	13.90	0.90	282715	Sericitic-Chloritic--Carbonate Altered Mafic Pillow Flow (Shear) and 5% Chert - mod to strong ser-chl and cb with 5% grayish-white chert pillow interstitial bnds, strongly sh, 5% qcs/qs, <1% py
13.90	15.00	1.10	282716	Sericitic-Chlorite-Carbonate Altered Mafic Pillow Flow (Shear) and Minor Chert - mod to strong ser-chl and cb with 1% to 2% thin grayish-white chert pillow interstitial bnds, strongly sh, <1% to 2% qcs/qs, <1% py
15.00	16.00	1.00	282717	Chloritic-Carbonate Altered Mafic Pillow Flow (Shear) and 5% Chert Bands - mod chl with local ser bnds and mod-strongly cb, 5% thin chert and cb pillow interstitial bnds, strongly sh, <1% to 2% qcs/cs, < 1% py
16.00	17.00	1.00	282718	Chloritic-Carbonate Altered Mafic Pillow Flow (Shear) and 15% Chert Bands - mod chl with local ser bnds and mod-strongly cb, 15% thin chert and cb pillow interstitial bnds, strongly sh, 2% to 3% qcs/cs, < 1% py
17.00	17.85	0.85	282719	Chloritic-Carbonate Altered Mafic Pillow Flow (Shear) and 25% Chert Bands - mod chl with local ser bnds and mod-strongly cb, 25% thin chert and cb pillow interstitial bnds, strongly sh, 5% to 10% qcs/cs, < 1% py
17.85	19.00	1.15	282720	Diabase - mafic composition with wk cb, vfg and massive, occasional qcs <1% as inclusion, < 1% py and strongly magnetic
36.20	37.00	0.80	282721	Sericite-Carbonate Shear (Mafic Pillow Flow) - strong pervasive ser-cb (ank-ca) of pillow matrix with wk chl and strong cb selvages/pillow interstices, strongly sh, <1% to 2% qcs/cs. < 1% py
37.00	38.00	1.00	282722	Sericite-Carbonate Shear (Mafic Pillow Flow) - strong pervasive ser-cb (ank-ca) of pillow matrix with wk chl and strong cb selvages/pillow interstices, strongly sh, <1% to 2% qcs/cs. < 1% py
38.00	39.00	1.00	282723	Sericite-Carbonate Shear (Mafic Pillow Flow) - strong pervasive ser-cb (ank-ca) of pillow matrix with wk chl and strong cb selvages/pillow interstices, strongly sh, 5% qcs/cs parallel to sh, < 1% py
39.00	40.00	1.00	282725	Sericite-Carbonate Shear (Mafic Pillow Flow) - strong/intense pervasive ser-cb (ank-ca) of pillow matrix with wk chl and strong cb selvages/pillow interstices, strongly sh, 2% to 4% qcs/cs parallel to sh, < 1% py
40.00	40.80	0.80	282726	Sericite-Carbonate Shear (Mafic Pillow Flow) - strong/intense pervasive ser-cb (ank-ca) of pillow matrix with wk chl and strong cb selvages/pillow interstices, strong/intense sh towards being laminated, 3% to 4% qcs/cs parallel to sh, < 1% py
40.80	41.50	0.70	282727	Sericite-Carbonate Shear (Mafic Pillow Flow) with 15% Chert - strong/intense pervasive ser-cb (ank-ca) of pillow matrix and numerous thin grayish white 15% chert bands as pilllow interstices, strong/intense sh showing lam/bnded texture, 5% deformed qcs, occasional
41.50	42.55	1.05	282728	Sericite-Carbonate Shear (Mafic Pillow Flow) with 25% Chert - strong/intense pervasive ser-cb (ank-ca) of pillow matrix and numerous thin grayish white 25% chert bands as pilllow interstices, strong/intense sh showing lam/bnded texture, 5% qcs parallel to sh, occa
42.55	42.85	0.30	282729	Quartz Vein - milky white to white color, quartz composition with weak cb, 10% irregular ser-cb altered and sh wr, <1% py-(cpy) local in vn

SAMPLE DESCRIPTION REPORT

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From (m)	To (m)	Length (m)	Sample #	Comments
42.85	43.50	0.65	282730	Sericite-Carbonate Shear (Mafic Pillow Flow) with 15% Chert - strong/intense pervasive ser-cb (ank-ca) of pillow matrix and numerous thin grayish white 15% chert bands as pilllow interstices, strong/intense sh showing lam/bnded texture, 1% to 2% qcs parallel to sh
43.50	44.50	1.00	282731	Sericite-Carbonate Shear (Mafic Pillow Flow) with 20% to 25% Chert - strong/intense pervasive ser-cb (ank-ca) of pillow matrix and numerous thin grayish white 20% to 25% chert bands as pilllow interstices, strong/intense sh showing lam/bnded texture, <1%to 2% qcs
44.50	45.00	0.50	282732	Sericite-Carbonate Shear (Mafic Pillow Flow) and 48% Chert - strong/intense pervasive ser-cb (ank-ca) of pillow matrix and numerous thin grayish white 48% chert bands as pilllow interstices, strong/intense sh showing lam/bnded texture, <2% to 4% qcs. < 1% py
45.00	45.50	0.50	282733	Sericite-Carbonate Shear (Mafic Pillow Flow) and 22% Chert - strong/intense pervasive ser-cb (ank-ca) of pillow matrix and numerous thin grayish white 22% chert bands as pilllow interstices, strong/intense sh showing lam/bnded texture, <1% to 3% qcs. < 1% py
45.50	46.05	0.55	282734	Sericite-Carbonate Shear (Mafic Pillow Flow) - strong/intense pervasive ser-cb (ank-ca) of pillow matrix with wk chl and strong cb selvages/pillow interstices, strong/intense sh towards being laminated, 2% to 3% qcs/cs parallel to sh, < 1% py
46.05	46.40	0.35	282735	Carbonate-Serciite SH (Altered Mafic Pillow Flow) - strong/intense pervasive cb with wk/mod ser, strongly sh with relict pillows, <1% qcs and py
54.20	54.80	0.60	282737	Sheared and Carbonate Altered Mafic Pillow Flow - mafic composition with mod chl and mod cb in pillow matrix and strong cb in pillow interstices, strongly sh, vfg, <1% qcs, scattered vfg py-po < 1%
54.80	55.80	1.00	282738	Sheared and Carbonate Altered Mafic Pillow Flow - mafic composition with mod chl and mod cb in pillow matrix and strong cb in pillow interstices, strongly sh, <1% qcs/cs and <1% py
76.85	77.35	0.50	282739	Massive Mafic Flow - mafic composition with wk/mod chl and wk cb, msv/vfg, 1% to 3% qcs/cs, < 1% py
77.35	77.85	0.50	282740	Massive Mafic Flow - mafic composition with wk/mod chl and wk cb, msv/vfg, 1% to 3% qcs/cs, < 1% py
77.85	78.85	1.00	282741	Massive Mafic Flow - mafic composition with wk/mod chl and wk cb, msv/vfg and gradational sh to 78.85, 2% to 3% qcs/cs, local py-aspy at 77.75 but < 1% py-aspy,
78.85	79.85	1.00	282742	Chlorite-Sericite-Carbonate Shear - mod chl-ser with mod cb, strong cb along sh pillow interstices, strongly sh, <1% qcs/cs parallel to sh and <1% py
79.85	80.85	1.00	282743	Chlorite-Sericite-Carbonate Shear - mod chl-ser with mod cb, strong cb along sh pillow interstices, strongly sh, <1% qcs/cs parallel to sh and <1% py
80.85	81.85	1.00	282744	Chlorite-Sericite-Carbonate Shear - mod chl and weaker ser with mod cb, strong cb along sh pillow interstices, strongly sh, <1% qcs/cs parallel to sh and <1% py
81.85	82.85	1.00	282745	Folded Chlorite-Carbonate Shear (Mafic Volcaniclastic) - mod chl and strong pervasive cb, dirty chert bnds with strong cb, tightly folded with numerous parasitic drag folds, 5% qcs, scattered vfg po-py generally in cb-rich dirty cherty bnds or cb-rich bnd up to 1%
82.85	83.85	1.00	282746	Chlorite-Carbonate Shear (Mafic Volcaniclastic) - mod chl and strong pervasive cb, dirty cb cherty bnds with strong cb, local folding, 5% deformed qcs, <1% scattered vfg po-py generally in cb-rich dirty cherty bnds or cb-rich bnd
83.85	84.70	0.85	282747	Chlorite-Carbonate Shear - altered mafic with strong pervasive cb and mod chl, cb occurs as sh pillow interstices, strongly sh, <1% qcs and py-po
93.85	94.35	0.50	282749	Massive Mafic Flow - mafic composition with wk cb, vfg and msv, < 1% qcs and py
94.35	95.35	1.00	282750	Chlorite-Carbonate Shear - altered mafic with bnded strong chl and cb (pillow flow?), strongly sh, 1% qcs parallel to sh, < 1% py
95.35	96.35	1.00	282751	Massive Mafic Flow - mafic composition with wk cb, vfg and msv, < 1% qcs and py (local at 96.1)
106.00	107.00	1.00	282752	Chlorite-Carbonate Shear - mod to strong pervasive chl and cb, vfg and mod to strongly sh, <1% qcs/cs, < 1% py
107.00	108.00	1.00	282753	Chlorite-Carbonate Shear - mod to strong pervasive chl and cb, vfg and mod to strongly sh, <1% qcs/cs, < 1% py

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From (m)	To (m)	Length (m)	Sample #	Comments
108.00	109.00	1.00	282754	Chlorite-Carbonate Shear - mod to strong pervasive chl and cb, vfg and mod to strongly sh, <1% qcs/cs, < 1% py
109.00	109.30	0.30	282755	Chlorite-Carbonate Shear - mod to strong pervasive chl and cb, vfg and mod to strongly sh, <1% qcs/cs, < 1% py
109.30	109.90	0.60	282756	Chlorite-Carbonate Shear - mod to strong pervasive chl and cb, mod to strongly sh with 3 cm wide white feldspathic bnds (volcaniclastics), 2% to 4% qcs/cs, < 1% py
109.90	110.35	0.45	282757	Chlorite-Carbonate Shear - mod to strong pervasive chl and cb, vfg and mod to strongly sh, 1% to 2% qcs/cs, < 1% py
110.35	111.00	0.65	282758	Sheared Mafic Volcaniclastic - mafic composition with fd-rich bnds and wk-mod cb, lam and strong sh overprint, numerous S-shape parasitic folds,10% thin qcs/cs, <1% py
111.00	111.70	0.70	282759	Sheared Mafic Volcaniclastic - mafic composition with fd-rich bnds and wk-mod cb, lam and strong sh overprint, numerous Z-shape parasitic folds,<1% thin qcs/cs, <1% py
111.70	112.10	0.40	282761	Quartz Vein - milky white, quartz composition with wk cb-fd, weakly fractured vn, irregilar contacts with chl wr and occasional wr inclusion, < 1% py
112.10	112.75	0.65	282762	Deformed QTSW - strong chl wr with wk cb, 30% to 35% qs/qcs which are predominantly deformed and folded, local cpy-po-py in qs/qcs at 112.3, overall <1% sulphide in this interval
112.75	113.60	0.85	282763	Deformed Weak Quartz Stockwork - moderate to strong chl and wk to moderate cb, 10% thin deformed and folded/crenulated thin qcs/qs, widely scattered sh py and aspy <1% in both wr and along some of the stringer/wr contacts
113.60	114.10	0.50	282764	Deformed Weak Quartz Stockwork - moderate to strong chl-cb, 10% thin deformed and folded/crenulated thin qcs/qs, widely scattered sh py and aspy up to 1% py>aspy in both wr and in qs/qcs
114.10	114.50	0.40	282765	Deformed Quartz Stockwork - moderate to strong chl-cb, 15% to 20% thin deformed and folded/crenulated thin qcs/qs, widely scattered sh po-py-(cpy) 1% to 2% as sh and folded grain trails in altered matrix, possible aspy? <0.5%
114.50	115.00	0.50	282766	Deformed Weak Quartz Stockwork - moderate to strong chl-cb, 5% to 10% thin deformed and folded/crenulated thin qcs/qs, up to 1% po-py
115.00	116.00	1.00	282767	Chlorite-Carbonate Shear - strong pervasive chl and cb and sh, < 1% qcs, <1% po-py
116.00	116.40	0.40	282768	Chlorite-Carbonate Shear - strong pervasive chl and cb and sh, 2% to 3% very thin discontinuous qcs, <1% po-py
116.40	117.40	1.00	282769	Chlorite-Carbonate Shear - strong pervasive chl and cb and sh, < 1% qcs, <1% widely scattered po-py
117.40	117.80	0.40	282770	Chlorite-Carbonate Shear - strong pervasive chl and cb and sh, < 1% qcs, <1% widely scattered po-py
117.80	118.30	0.50	282771	Massive Mafic Flow - mafic composition with weak cb, vfg and massive, <1% qcs and py
118.30	119.50	1.20	282773	Massive Mafic Flow - mafic composition with weak cb and increase in cb towards 119.5, vfg and massive and gradually more sh to 119.5, <1% to 2% qcs and py
119.50	120.75	1.25	282774	Sheared Mafic Pillow/Massive Flow - mafic composition with mod chl and mod/strong cb along sh, mod sh, tight sh pillow texture/, 2% to 3% thin qcs/cs parallel to sh, up to 1% vfg scattered py>po
120.75	121.70	0.95	282775	Sheared Mafic Pillow Flow - mafic composition with mod chl and mod/strong cb along sh, mod sh, tight sh pillow texture/, <1% qcs/cs, <1% py
121.70	123.00	1.30	282776	Weakly Fractured and Sheared Massive Mafic Flow - mafic composition (Mg-rich) with mod chl and mod to strong cb, mod sh, 5% to 10% qcs/qs (deformed) parallel to sh, up to 1% py locally as fractures>disseminated
123.00	124.20	1.20	282777	Sheared Mafic Massive/Pillow Flow - mafic composition (Mg-rich) with mod chl and mod to strong cb, mod sh, <1% to 4% qcs/qs, <1% py
124.20	124.50	0.30	282778	Sheared Mafic Massive/Pillow Flow - mafic composition (Mg-rich) with mod chl and mod to strong cb, mod sh, <1% to 3% qcs/qs as lense-like features, 2% to 3% vfg scattered py
124.50	125.00	0.50	282779	Mafic Pillow Flow - mafic composition with mod chl and wk cb, local mafic volcaniclastic pillow interstitial, sh, 1% thin deformed qcs, <1% py
125.00	126.00	1.00	282780	Weakly Fractured and Sheared Massive Mafic Flow - mafic composition with mod chl and variable wk to strong cb (in stronger sh sections), mod to locally stronger sh, 5% to 10% qcs, <1% py

IAMGOLD CORPORATION

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126.00	126.50	0.50	282781	Massive Mafic Flow - mafic composition with mod chl-ep vfg matrix about 20% to 30% sh amp, mod fol/sh, <5% qcs/qs with ep-ab, <1% py
133.20	134.70	1.50	282782	Banded Greywacke - intermediate in composition and banded, 10% qcs/cs, local py but <1% with local 2% to 3% py
144.50	145.55	1.05	282783	Diabase - mafic composition with mod cb in matrix, vfg and msv, sh fract contact with 5 cm wide qcs, < 1% py
145.55	146.00	0.45	282785	Graphitic Argiliite - mod to strrongly gf being argillaceous, mod per cb in fractures.sh,, fractured with 15% to 20% qcs/cs, widely scattered py <1% to 2%, py also occurs as strung between vn/wr
146.00	146.50	0.50	282786	Quartz-Carbonate Vein/Argillite - argillaceous being micaceous with mod pervasive cb, minor carbonaceous lenses, sh, with 70% qcv up to 17 cm wide, widely scattered py up to 1%
146.50	147.20	0.70	282787	Argillite - argilacceous with mod pervasive cb with gf argillite lam/bnds (10%), lam/bnded, 5% to 7% qcs/cs, patchy 1% to 2% vfg scattered py
147.20	148.25	1.05	282788	Argillite - argillaceous being ser and mod/strong pervasive cb, 10% wk/mod gf bands, 1% to 2% qcs/qs with gf bnd, <1% py
148.25	149.00	0.75	282789	Graphitic Argillite - black color, strongly gf, 5% to 10% cs/qcs, <1% py
149.00	150.00	1.00	282790	Argillite - argillaceous being micaceous with mod ser and mod/strong pervasive cb, scattered gf bnds (5% to 10%), bnded/lam, 10% qcs up to 10 cm wide, <1% py
150.00	151.00	1.00	282791	Argillite - argillaceous being micaceous with mod ser and mod/strong pervasive cb, scattered gf bnds (5%), bnded/lam and locally folded, 5% qcs, <1% py
151.00	152.00	1.00	282792	Argillite - argillaceous being micaceous with mod ser and mod/strong pervasive cb, scattered gf bnds (<5%), bnded/lam, <1% qcs and py
152.00	152.50	0.50	282793	Argillite - argillaceous being micaceous with mod ser and mod/strong pervasive cb, scattered gf bnds (<5%), bnded/lam, <1% qcs and py
152.50	153.00	0.50	282794	Quartz-Carbonate Stockwork - both argillaceous (ser-cb) and gf argillite bands, mod to strong cb in matrix and fractures, 20% qcs/cs paralle to bedding, <1% widely scattered py
153.00	153.55	0.55	282795	Quartz-Carbonate Stockwork - both argillaceous (ser-cb) and gf argillite bands, mod to strong cb in matrix and fractures, 20% to 25% qcs/cs paralle to bedding, 10% to 15% vfg py forming as fractures about qtz and as fracture-filling
153.55	154.50	0.95	282797	Graphitic Argillite/Argillite -alternating argillaceous (ser-cb) and gf argillite, mod to strong pervasive cb, 2% to 3% thin qcs/cs, 1% to 2% widely scattered py
154.50	155.30	0.80	282798	Argillite - intermediate in composition being argillaceous in composition with minor gf lam, mod to strong pervasive cb, lam/bnded and folded with numerous drag folding, <1% to 2% qcs/cs, up to 1% vfg sh py
155.30	156.00	0.70	282799	Argillite - intermediate in composition being argillaceous in composition with 20% gf bnds/lam, mod to strong pervasive cb, lam/bnded and folded with numerous drag folding, <1% to 2% qcs/cs, 2% to 4%% vfg sh py and strung-out py along bedding/sh planes
156.00	156.65	0.65	282800	Argillite - intermediate in composition being argillaceous in composition with 20% to 30% gf bnds/lam, mod to strong pervasive cb, lam/bnded and folded with numerous drag folding, <5% qcs/cs, <1% py
156.65	157.15	0.50	282801	Diabase - mafic composition being wk cb and vfg and massive, <1% qcs/qs and py, weakly to moderately magnetic
160.30	160.80	0.50	282802	Diabase - mafic composition with wk cb, vfg and msv, <1% qcs and py, wk-mod magnetic
160.80	161.80	1.00	282803	Banded Graphitic Argillite and Argillite - alternating gf-rich bands and argillaceous (ser-cb) bands, mod to strongly pervasive cb, bnded/lam, <1% qcs, occasional to widely scattered sh py <1%
161.80	162.10	0.30	282804	Banded Graphitic Argillite and Argillite - alternating gf-rich bands and argillaceous (ser-cb) bands, mod to strongly pervasive cb, bnded/lam with local folds with well developed Z-shape folds and fold nose in parasitic folds, 2% to 3% qcs, 5% to 10% sh and strung-out py along bedding/sh planes
162.10	163.00	0.90	282805	Laminated/Banded Argillite with Graphitic Argillite - intermediate argillaceous composition (ser-cb) with mod/strong pervasive cb, 5% to 10% gf lam/bnds, local chert lam, <1% to 2% qcs, widely scattered vfg sh py < 1%

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From (m)	To (m)	Length (m)	Sample #	Comments
163.00	164.00	1.00	282806	Banded Argillite - intermediate in composition (ser-cb) with mod/strong pervasive cb, minor gf lam, banded texture with local slump bx features, bnded texture, 1% to 2% qcs/qs, < 1% sh py along bedding/sh planes
164.00	164.50	0.50	282807	Quartz-Carbonate Vein xcut Argillite - intermediate in composition (ser-cb) with mod/strong pervasive cb, xcut by 24 cm wide qcv, <1% py
164.50	165.50	1.00	282808	Banded Argillite - intermediate in composition (ser-cb) with mod/strong pervasive cb, banded texture, <1% qcs and <1% py
165.50	166.50	1.00	282809	Banded Argillite - intermediate in composition (ser-cb) with mod/strong pervasive cb, banded texture, <1% to 2% thin qcs/cs <1% py
166.50	167.50	1.00	282810	Banded Argillite/Graphitic Argillite - intermediate in composition (ser-cb) with mod/strong pervasive cb, increase in lam/bnded gf argillite from 166.9 to 167.5, banded texture, <1% to 2% thin qcs/cs, up to 1% to 2% vfg sh py
167.50	168.20	0.70	282811	Argillaceous Mafic Pillow Flow - altered mafic composition being mod/strong ser-cb with mod/strong pervasive cb, 5% to 10% gf pillow interstitial with 20% ca-cb bands (pillow interstices??), strongly sh and bnded, <1% qcs/cs, up to 1% py>po along bedding?/sh planes
168.20	169.00	0.80	282813	Banded/Laminated Graphitic Argillite (Mafic Pillow Flows?) - argillsaceous mafic composition being mod/strong ser-cb with mod/strong pervasive cb, 20% gf pillow interstices? & lam, 5% gf lam/bnds, strongly sh pillow texture?, banded, 5% to 10% qcs/cs, <1% py
169.00	170.00	1.00	282814	Banded Argillite - intermediate composition being argillaceous with ser-cb and gf bands at upper interval, mod/strong pervasive cb, bnded and sh, 2% to 3% qcs/cs, <1% py
170.00	171.00	1.00	282815	Laminated/Banded Argillite - intermediate composition being argillaceous with ser-cb with 5% thin gf and cb lam, mod/strong pervasive cb, folded bnded and sh, <1% qcs and py
171.00	171.80	0.80	282816	Laminated/Banded Argillite - intermediate composition being argillaceous with ser-cb with <5% thin gf lam, mod/strong pervasive cb, folded bnded and sh, 2% to 3% qcs/cs and patchy < 1% py
171.80	172.60	0.80	282817	Folded and Fractured Argillite - intermediate argillaceous in composition with ser and cb and wk cb and strong cb fractures, 10% to 15% folded qcs/cs, < 1% py
172.60	173.35	0.75	282818	Banded Argillite - intermediate composition being argillaceous with ser-cb and gf bands at upper interval, mod/strong pervasive cb, bnded and sh, <1% to 2%% qcs/cs, <1% py
173.35	174.10	0.75	282819	Argillite - intermediate argillaceous composition with ser and mod pervasive cb and strong cb fractures, minor gf lam/lenses <1% to 2%, 3% to 5% qcs/cs fract, relict bnding with local folding, <1% py
177.35	178.35	1.00	282820	Felsic Volcaniclastic - altered felsic with strong pervasive cb and mod ser, mod sh with relict bnding, <1% qcs/cs and py
178.35	179.35	1.00	282821	Felsic Tuff-(Lapilli Tuff)/Crystal Tuff - felsic composition with mod cb and mod ser, msv fragmental texture and wk sh, local 5% qcs/qs, up to 1% to 2% py with local cg aspy in 2 cm qcs at 178.9
179.35	179.65	0.30	282822	Quartz-Carbonate Veinlet and Felsic Tuff - felsic wallrock with mod cb and wk ser, xcut by 12 cm wide qcv with 2% to 3% vfg py and aspy in ser-cb fracture seams, up to 1% aspy
179.65	180.30	0.65	282823	Felsic Volcaniclastic - altered felsic with moderate to strong pervasive cb and moderate ser, sh/bnded texture, 1% qcs/cs, < 1% py
180.30	181.15	0.85	282825	Felsic Volcaniclastic - altered felsic with moderate to strong pervasive cb and moderate ser, sh/bnded texture, 2% to 3% qcs/cs, < 1% py
181.15	181.95	0.80	282826	Fractured Felsic Volcaniclastic - altered felsic with moderate to strong pervasive cb and moderate ser, sh/bnded texture, 15% qcs/qs as a series of stringers/veinlet up to 7 cm wide, < 1% widely scattered py
181.95	182.60	0.65	282827	Felsic Volcaniclastic - altered felsic with moderate to strong pervasive cb and moderate ser, sh/bnded texture, 2% to 4% qcs/cs as thin stringers and in hairline crackle fractures, < 1% py
182.60	183.20	0.60	282828	Fractured Felsic Volcaniclastic - altered felsic with moderate to strong pervasive cb and moderate ser, sh/bnded texture, 10% qcs/qs with numerous crackle cs/qcs fractures, up to 3 cm wide, < 1% py
183.20	183.80	0.60	282829	Fractured Felsic Volcaniclastic - altered felsic with moderate to strong pervasive cb and moderate ser, sh/bnded texture, 5% to 10% qcs/qs with numerous crackle cs/qcs fractures, <1% py
183.80	184.80	1.00	282830	Diorite - intermediate in composition being strong pervasive cb, vfg and msv, <1% cs/qcs thin fractures, <0.5% py
184.80	185.70	0.90	282831	Diorite - intermediate in composition being strong pervasive cb, vfg and msv, up to 1% cs/qcs thin fractures, <0.5% py

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185.70	186.65	0.95	282832	Sheared and Sericitic Mafic Pillow Flow - altered mafic mod pervasive ser and wk cb, ca-cb-rich pillow interstices, mod sheared, 3% to 4% qcs/cs, overall <1% py with local 2% to 5% disseminated py along 3 cm shear at 186.0
186.65	187.20	0.55	282833	Sheared Mafic Pillow Flow - altered mafic with mod/strong pervasive cb and wk/mod ser, ca-cb rich pillow interstices up to 10 cm wide, mod sh, 5% qcs/cs, overall 1% to 2% py to local 5% to 10% py in 10 cm wide pillow interstice with local fus
187.20	187.75	0.55	282834	Quartz-Carbonate Stockwork - mod chl/cb altered wr with 30% qcs/qs, <1% to 5% disseminated and fracture-fill py concentrated at upper interval for 10 cm (5% py)
187.75	188.50	0.75	282835	Mafic Pillow Flow - mafic composition with mod chl-ep-cb, wk-mod sh, local mafic volcaniclastic pillow interstices, wk sh, 2% qcs and < 1% py
188.50	189.05	0.55	282837	Mafic Pillow Flow - mafic composition with mod chl-ep-cb, wk-mod sh, local mafic volcaniclastic pillow interstices, wk sh, 3% to 5% qcs and < 1% py
189.05	189.55	0.50	282838	Quartz Vein - quartz composition with wk fractured vn, chl wr incl, 1% to 2% scattered tour, barren
189.55	190.10	0.55	282839	Quartz Vein - quartz composition with 25% chl wr inclusions with chl-cb seams in vn, weakly fract vn matte, scattered tour 2% to 3%, barren,
190.10	190.80	0.70	282840	Fractured Mafic Pillow Flow - mafic composition with mod chl-cb-ep, mod sh pillow texture, 20% to 25% qcs toawrds lower contact, <1% py
190.80	191.20	0.40	282841	Weakly Fractured Mafic Pillow Flow - mafic composition with mod chl-cb-ep, strongly sh pillow texture giving a banded texture, 10% thin qcs parallel to strongly sh, <1% py
191.20	191.80	0.60	282842	Mafic Pillow Flow - mafic composition with mod chl-cb and mod sh pillow texture, <1% qcs and py
199.85	200.35	0.50	282843	Mafic Pillow Flow - mafic in composition with moderate chl-cb, mod sh, <1% qcs/qs parallel to sh, < 1% py
200.35	200.85	0.50	282844	Fractured & Tourmaline-Altered Mafic Pillow Flow - mafic in composition with mod cb and wk chl strong bleached tour-rich altered wr to qcs/qs with tour, 20% qcs/qs with tourmaline, < 1% py
200.85	201.40	0.55	282845	Mafic Pillow Flow - mafic composition with moderate pervasive cb and wk chl, sh, <1% to 2% qcs/qs, < 1% py
201.40	201.95	0.55	282846	Mafic Pillow Flow - mafic composition with moderate pervasive cb and wk chl, sh, <1% to 2% qcs/qs, < 1% py
201.95	202.50	0.55	282847	Strong Tourmaline-Altered Mafic Pillow Flow - altered mafic composition with mod/strong tour-sil-ab-kspar associated qcts 10%, in fold nose with interfernce fold pattern, <1% py
202.50	203.05	0.55	282849	Strong Tourmaline-Altered Mafic Pillow Flow - altered mafic composition with strong tour (local area msv tour and in fractures in sil-ab-kspar alt wr, asssociated qcts 5% to 10%, <1% py
203.05	203.75	0.70	282850	Carbonate-Sericitic Altered Mafic Pillow Flow - altered mafic with strong pervasive cb and moderate ser alteration, mod/strongly sh, 10% to 15% qcs, < 1% py
203.75	204.85	1.10	282851	Felsic Tuff - felsic composition with mod cb, vfg and massive, 1% to 2% qcs/qs, < 1% py
204.85	205.35	0.50	282852	Cherty Tuff - siliceous with moderate to strong cb, 5% to 10% ankerite, sh, 5% to 10% qcs/qs/sil flooding, scattered vg py (2% to 4%) with up to 1% to 2% patchy aspy xtls
205.35	205.75	0.40	282853	Sericitic Arenite/Chert - mod/strong ser-cb and dirty sil chert lam/bnds (20%), lam/bnded and sh with ank (5%), <1% qcs, scattered sh py up to 1% with occasional aspy <0.5%
205.75	206.20	0.45	282854	Cherty Tuff (Minor Sericitic Arenite) -dirty sil chert and strong ank-ser altered arenite bnds, strong pervasive ca-cb, banded/bx with sil flooding chert with arg clasts, 2% qcs/qs, 1% to 2% vfg disseminated aspy aspy-py with sulphides occurring as fractures
206.20	206.90	0.70	282855	Arenite - siliceous composition with wk/mod cb>ser, vfg and msv with relict fine laminations, < 1% qcs and py
206.90	207.55	0.65	282856	Arenite - siliceous composition with wk cb and very weak ser, vfg and msv with relict fine laminations, < 1% qcs and py
207.55	207.85	0.30	282857	Arenite and Minor Chert - siliceous being mod serwith wk cb, bnded with 20% sil flooded chert and/or <5% qs/qcs, local sp<1% and <1% py-aspy
207.85	208.20	0.35	282858	Arenite - siliceous composition with wk/mod ser and wk cb, vfg and msv, < 1% qcs and py

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number: **WAT17-06** Project: **TAAC** Project Number: **251**

From (m)	To (m)	Length (m)	Sample #	Comments
208.20	208.70	0.50	282859	Chloritic Altered Arenite - altered siliceous composition with bnded and pervasive mod to strong chl-(bio?) with wk cb, folded/crenulated bnding, <1% qcs, 10% to 15% vfg disseminated py…py also occurs as folded and crenulated seams
208.70	209.20	0.50	282861	Cherty Exhalative Tuff - strong sil flooding with ank altered arnt, relict banded texture, 10% to 20% qs/qcs, 5% vfg disseminated py with <1% aspy
209.20	209.75	0.55	282862	Cherty Exhalative Tuff/Arenite - 60% strong sil flood and bx bnds/lam with ank-ser-fus and wk cb alt and ser arnt, bnded texture, 10% qs/qcs as lenses assoiated with chert, 2% to 4% aspy in cherty bnds as xtls and seams/fracture-fill with 1% to 2% py
209.75	210.30	0.55	282863	Sericitic Arenite - siliceous in composition with mod to strong cb and mod ser with strong ca-cb lam, sh and bnded/lam, <1% qcs/qs and py
210.30	210.80	0.50	282864	Cherty Exhalative Tuff - strong sil flooding in bands alternating with ser-ank-cb wispy bands (argillite?), bnded texture, up to 1% to 2% aspy>py as scattered xtls
210.80	211.20	0.40	282865	Banded Sericitic Arenite and Chert - alternating bnds of ser-ank-(fus) arnt/arg with wk calcite, thin dirty sil bnds of chert, bnded/lam texture, <1% qs/qcs, <1% py-aspy
211.20	211.80	0.60	282866	Arenite - siliceous composition with mod pervasive cb with wk/mod ser and wisps of ank-fus, bnded texture, <1% qcs/qs, up to 1% patchy py>aspy
211.80	212.15	0.35	282867	Weakly Fractured Arenite - siliceous composition with mod ser and wk cb, thin lam cb-rich dirty chert (5%), 10% qs/qcs, < 1% aspy-py in qs/qcs
212.15	213.20	1.05	282868	Arenite - siliceous in composition with mod pervasive ser in matrix, wk cb, possible tour, sh/bnded, <1% qcs/qs,<1% py
213.20	213.80	0.60	282869	Arenite - siliceous in composition with mod pervasive ser in matrix, wk cb, possible tour, sh/bnded, xcut by 8 cm qs (13%) with occasional <1% aspy xtl, widely scattered py < 1%
213.80	214.60	0.80	282870	Arenite - siliceous composition with mod ser with mod/strong per cb, upper 20 cm interval sh-controlled mod/strong bio-chl shear, mod sh/lam/bnded, 10% scattered qs/qcs, patchy <1% py with occasional aspy < 0.5%
214.60	215.60	1.00	282871	Arenite - siliceous composition with mod to strong peravasive cb with mod ser, well developed laminated texture, 2% to 3% widely scattered qcs/qs, < 1% py
215.60	216.60	1.00	282873	Arenite - siliceous in composition with mod serand cb pervasive in matrix, gradually more biotite-rich lam, well developed lam, <1% to 2% qcs/qs,<1% py
216.60	217.00	0.40	282874	Arenite - siliceous composition with mod pervasive cb with locally wk fus, very wk ser, bio-chl-rich lam, 5% chert bnd, well developed lam, <1% qs/qcs and py
217.00	218.00	1.00	282875	Arenite - siliceous composition with mod pervasive cb with locally wk fus, chl-rich lam, local drag folding, 5% chert lam, well developed lam, 3% qs/qcs and <1% py
218.00	218.50	0.50	282876	Arenite - siliceous composition with mod pervasive cb with increase in chl>bio lam, us, 2% chert lam, well developed lam, <1% qs/qcs and widely scattered <1% py cubes
218.50	219.30	0.80	282877	Arenite/Mafic Volcaniclastic - transition from sed/mafics with intermediate composition with well developed feldspathic and chl laminatins, 8 cm wide gy-white chert at lower contact, <1% qs/qcs and py
219.30	220.30	1.00	282878	Mafic Volcaniclastic - mafic composition with moderate chl and moderate to strong pervasive cb, well developed lam/bnded texture, 5% to 7% qcs/qs lenses, <1% py
220.30	221.30	1.00	282879	Mafic Volcaniclastic - mafic composition with moderate chl and moderate to strong pervasive cb, well developed lam/bnded texture, up to 1% qcs/qs lenses, <1% py

DRILL HOLE REPORT

Hole Number: **WAT17-07** Project: **TAAC** Project Number: **259**

Drilling		Casing		Core		Location		Other	
Azimuth:	228	**Length:**	10.5	**Dimension:**	NQ	**Claim No.:**	313368, 325420	**Company:**	IAMGOLD
Dip:	-55	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframbois
Length:	200	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Stephen Roach
Started:	08-Apr-17	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	yes
Completed:	10-Apr-17	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	Larry Labelle
Logged:	08-Apr-17	**Making water:**	no	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: Hydro Zone

Comment: – down-dip extension of Hydro Zone (QSP with py-qs -18.9 g/t Au & 17.6 g/t Ag); intersect Hydro at 125 meters vertically below surface

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	434632.52	**East:**	434632.52	**East:**	0
North:	5268530.49	**North:**	5268530.49	**North:**	0
Elev.:	378.21	**Elev.:**	378.21	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
0.00	228.00	-55.00	0	0	0		C	☑	
17.00	230.80	-54.30				56262	M	☑	
20.00	226.50	-54.00				54778	M	☑	
23.00	228.90	-54.30				55372	M	☑	
26.00	225.90	-54.30				54589	M	☑	
29.00	227.50	-54.10				54403	M	☑	
32.00	224.30	-54.50				55664	M	☑	
35.00	225.20	-54.30				54590	M	☑	
38.00	228.60	-54.30				54873	M	☑	
41.00	227.50	-54.20				55192	M	☑	
44.00	227.50	-54.10				55278	M	☑	
50.00	228.10	-54.00				54983	M	☑	
53.00	227.00	-54.10				54957	M	☑	
56.00	227.60	-54.20				55066	M	☑	
59.00	228.50	-54.10				55175	M	☑	

DRILL HOLE REPORT

Hole Number: **WAT17-07** Project: **TAAC** Project Number: **259**

Drilling		Casing		Core		Location		Other	
Azimuth:	228	**Length:**	10.5	**Dimension:**	NQ	**Claim No.:**	313368, 325420	**Company:**	IAMGOLD
Dip:	-55	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframbois
Length:	200	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Stephen Roach
Started:	08-Apr-17	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	yes
Completed:	10-Apr-17	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	Larry Labelle
Logged:	08-Apr-17	**Making water:**	no	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: Hydro Zone

Comment: – down-dip extension of Hydro Zone (QSP with py-qs -18.9 g/t Au & 17.6 g/t Ag); intersect Hydro at 125 meters vertically below surface

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	434632.52	**East:**	434632.52	**East:**	0
North:	5268530.49	**North:**	5268530.49	**North:**	0
Elev.:	378.21	**Elev.:**	378.21	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
62.00	227.60	-54.20				55197	M	☑	
65.00	227.10	-54.30				55052	M	☑	
68.00	227.90	-54.10				55237	M	☑	
71.00	225.40	-54.20				55065	M	☑	
74.00	227.40	-54.30				55293	M	☑	
77.00	227.40	-54.30				55056	M	☑	
80.00	226.80	-54.20				55190	M	☑	
83.00	227.40	-54.20				55030	M	☑	
86.00	227.00	-54.10				54999	M	☑	
89.00	227.50	-54.00				55000	M	☑	
92.00	227.30	-54.10				55291	M	☑	
95.00	226.50	-54.00				55192	M	☑	
98.00	227.50	-53.90				54985	M	☑	
101.00	227.60	-53.90				55365	M	☑	
104.00	228.10	-53.80				54830	M	☑	
107.00	227.60	-53.80				54925	M	☑	

DRILL HOLE REPORT

Hole Number: **WAT17-07** Project: **TAAC** Project Number: **259**

Drilling		Casing		Core		Location		Other	
Azimuth:	228	**Length:**	10.5	**Dimension:**	NQ	**Claim No.:**	313368, 325420	**Company:**	IAMGOLD
Dip:	-55	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframbois
Length:	200	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Stephen Roach
Started:	08-Apr-17	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	yes
Completed:	10-Apr-17	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	Larry Labelle
Logged:	08-Apr-17	**Making water:**	no	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: Hydro Zone

Comment: – down-dip extension of Hydro Zone (QSP with py-qs -18.9 g/t Au & 17.6 g/t Ag); intersect Hydro at 125 meters vertically below surface

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East:	434632.52	**East:**	434632.52	**East:**	0
North:	5268530.49	**North:**	5268530.49	**North:**	0
Elev.:	378.21	**Elev.:**	378.21	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
110.00	229.10	-54.20				54933	M	☑	
113.00	228.80	-54.10				54939	M	☑	
116.00	228.10	-54.30				54897	M	☑	
119.00	228.40	-54.40				54888	M	☑	
122.00	229.30	-54.10				54767	M	☑	
125.00	227.40	-54.30				54572	M	☑	
128.00	228.10	-54.30				54773	M	☑	
134.00	225.80	-54.20				55874	M	☑	
137.00	227.20	-54.10				55549	M	☑	
140.00	229.30	-54.20				55550	M	☑	
143.00	230.10	-54.10				55455	M	☑	
146.00	228.10	-54.20				54705	M	☑	
149.00	226.60	-54.20				54886	M	☑	
152.00	229.20	-54.10				55242	M	☑	
158.00	226.00	-54.30				54041	M	☑	
161.00	227.70	-54.20				55258	M	☑	

DRILL HOLE REPORT

Hole Number: **WAT17-07** Project: **TAAC** Project Number: **259**

Drilling		Casing		Core		Location		Other	
Azimuth:	228	**Length:**	10.5	**Dimension:**	NQ	**Claim No.:**	313368, 325420	**Company:**	IAMGOLD
Dip:	-55	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframbois
Length:	200	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Stephen Roach
Started:	08-Apr-17	**Cemented:**	no	**Hole Type**	DDH	**Section:**		**Surveyed:**	yes
Completed:	10-Apr-17	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	Larry Labelle
Logged:	08-Apr-17	**Making water:**	no	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: Hydro Zone

Comment: – down-dip extension of Hydro Zone (QSP with py-qs -18.9 g/t Au & 17.6 g/t Ag); intersect Hydro at 125 meters vertically below surface

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	434632.52	**East:**	434632.52	**East:**	0
North:	5268530.49	**North:**	5268530.49	**North:**	0
Elev.:	378.21	**Elev.:**	378.21	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
164.00	228.00	-54.20				55172	M	☑	
167.00	228.70	-54.00				55216	M	☑	
170.00	229.20	-54.20				55160	M	☑	
173.00	228.20	-54.10				55028	M	☑	
176.00	228.80	-54.20				55141	M	☑	
179.00	228.80	-54.00				55085	M	☑	
182.00	228.70	-54.10				55222	M	☑	
185.00	229.10	-54.00				54956	M	☑	
188.00	225.60	-54.20				55291	M	☑	
194.00	226.50	-54.10				55469	M	☑	
197.00	226.20	-53.90				55042	M	☑	
200.00	229.20	-53.90				56294	M	☑	

LITHOLOGY REPORT
- Detailed -

Hole Number **WAT17-07** Project: **TAAC** Project Number: **259**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
0.00	10.00	**Overburden** **OB** ***Overburden***	5	5	BLK									
		Clay & no boulders (10.5 NW Casing)												
10.00	10.80	**Fresh Rock** **7C** ***Gabbro***	1	1	GR									
		Gabbro - green color, mafic composition being weak to moderate chlorite with strong pervasive carbonate alteration, vfg and massive.												
		Mineralization - occasional < 1% pyand weak to moderately magnetic with 1% to 3% vfg disseminated magnetite Contact - sharp and broken												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		10.00 - 10.80 MAG DISS 2 Magnetite, Disseminated, Weak to Moderate												
		10.00 - 10.80 CL MX 2 Chloritization, Matrix, Weak to Moderate												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		10.00 - 10.80 Py BLB 0.5 Pyrite, Blebs,<1%												
10.80	17.65	**Fresh Rock** **8C** ***Tonalite/Trondjhemite-Granodiorite (QP***	1	1	GY	282401	16.75	17.25	0.50	-	-	0.01	-	-
		Tonalite/Granodiorite (Quartz Porphyry) - pinkish/reddish greenish gray colors, felsic to intermediate in composition with moderate patchy hematite dusting with chl-cb-(ser) interstitial about quartz-eye and feldspar phenocrysts with weak to locally moderate cb…..fg to locally cg (up to 0.5 cm) bluish quartz-eyes (20% to 30%) with 15% to 20% feldspar, scattered randomly oriented chl-cb (ser) fractures.				282402	17.25	17.65	0.40	-	-	0.02	-	-
		-well developed porphyritic texture, occasional vfg mafic inclusion up to 4 cm wide, occasional qs/qcs up to 2 cm wide (<1%)..locally tourmaline seams/fractures												

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Mineralization - <1% pyite with gradual increase in 1% to 2% pyite with occasional splash of cpy (<0.5%) towards to latter 0.40 meters at lower contact……py occurs as fractures and vfg disseminations, moderately to strongly magnetic (1% to 4%) towards 17.65												
		Contact - sharp contact 88 from C.A.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		10.80 - 17.65 MAG DISS 3 Magnetite, Disseminated, Moderate to Strong												
		10.80 - 17.65 CB MX 2 Carbonatization, Matrix, Weak to locally Moderate												
		10.80 - 17.65 HM SPT 3 Hematization, Spotty/Patchy, Moderate												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		17.25 - 17.65 Py DIS 1 Pyrite, Disseminated, 1% to 2%												
17.65	20.15	**Fresh Rock** **SH** ***Chlorite-Carbonate Shear (Gabbro)***	1	1	DGR	282403	17.65	18.40	0.75	-	-	0.01	-	-
		Chlorite-Carbonate Shear (Gabbro) & Fault Zone - dark green to green color, altered mafic composition with strong pervasive and shear/fault controlled chlorite-carbonate…relict vfg to fg disseminated white feldspar ranging 5% to 20%, relict pseudo-equigranular texture.				282404	18.40	18.90	0.50	-	-	0.01	-	-
		18.9 to 19.3 - Fault Zone - strong and intense chl-cb with local reddish pink hematite alteration in broken up core from 19.0 to 19.2, mostly gouge and broken up core, <1% py with 1% to 2% vfg scattered py in sil-hem broken core section, sharp upper and lower contacts				282405	18.90	19.30	0.40	-	-	0.01	-	-
		Mineralization - occasional to widely scattered pyrite < 0.5% generally at upper contact, in fault zone from 19.0 to 19.2 with 1% to 2% vfg scattered py in sil-hem broken core section				282406	19.30	20.15	0.85	-	-	0.01	-	-
		Contact - sharp contact 72 from C.A.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		17.65 - 19.00 MAG DISS 1 Magnetite, Disseminated, Very weak												
		17.65 - 19.00 CB MX 4 Carbonatization, Matrix, Strong												
		17.65 - 19.00 CL MX 4 Chloritization, Matrix, Strong												

From (m)	To (m)		Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		19.00 - 19.20	MAG 1	Magnetite, Very weak											
		19.00 - 19.20	SI MX 4	Silicification, Matrix, Strong											
		19.00 - 19.20	HM MX 4	Hematization, Matrix, Strong											
		19.20 - 20.15	MAG DISS 1	Magnetite, Disseminated, Very weak											
		19.20 - 20.15	CB MX 4	Carbonatization, Matrix, Strong											
		19.20 - 20.15	CL MX 4	Chloritization, Matrix, Strong											
		Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***											
		19.00 - 19.20	Py DIS 1	Pyrite, Disseminated, 1% to 2%											
Minor Interval:															
18.90	19.30	Fresh Rock	FLTg *Fault Gouge*			4									
		Fault Gouge - strong and intense chl-cb with local reddish pink hematite alteration in broken up core from 19.0 to 19.2, mostly gouge and broken up core, <1% py with 1% to 2% vfg scattered py in sil-hem broken core section from 19.0 to 19.2; sharp upper and lower contacts													
20.15	24.50	**Fresh Rock**	**8C** ***Tonalite/Trondjhemite-Granodiorite (QP***		1	1 RE	282407	20.15	20.50	0.35	-	-	0.01	-	-
		Tonalite/Trondjhemite-Granodiorite - pinkish grayish color, felsic to intermediate in composition with moderate pinkish red hematite dusting with magnetite, 10% to 20% vfg to fg chl-cb-(ser) grains and as interstitial, forming as interstitial matrix about mg to cg bluish quartz-eyes (20% to 25%) giving a well developed porphyritic texture, occasional diffuse, rounded mafic wallrock inclusions up to 5 cm in size.					282408	20.50	21.50	1.00	-	-	0.01	-	-
							282409	21.50	22.50	1.00	-	-	0.01	-	-
							282410	22.50	23.50	1.00	-	-	0.01	-	-
		Mineralization - occasional vfg to fg pyrite (<0.5%); weak to moderately magnetic with 1% to 2% vfg scattered magnetite assocaited with hematite dusting Contact - sharp contact 60 from C.A.					282411	23.50	24.50	1.00	-	-	0.01	-	-
		Alteration Maj:	***Type/Style/Intensity***	***Comment***											
		20.15 - 24.50	MAG DISS 2	Magnetite, Disseminated, Weak to Moderate											
		20.15 - 24.50	HM MX 3	Hematization, Matrix, Moderate											
		Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***											

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		20.15 - 24.50 Py BLB 0.5 Pyrite, Blebs, <1%												
24.50	25.90	**Fresh Rock** **7C** ***Gabbro***	1	1	GR	282413	24.50	25.20	0.70	-	-	0.01	-	-
						282414	25.20	25.90	0.70	-	-	0.01	-	-
		Gabbro - green color, mafic composition with moderate to (strong) chlorite and intense pervasive carbonate (calcite), modertely sheared 55 to 60 from C.A.with numerous calcite fractures (up to 2 cm wide) ranging 5% to 10%....generally parallel to shearing												
		Mineralization - occasional py-(cpy) < 0.5% with slight increase in sulphides at lower contact Contact - sharp irregular contact 66 from C.A. with well developed chill margin at lower contact (flame-like feature) and sheared upper contact												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		24.50 - 25.90 MAG DISS 1 Magnetite, Disseminated, Very weak												
		24.50 - 25.90 CB MX 5 Carbonatization, Matrix, Intense												
		24.50 - 25.90 CL MX 3 Chloritization, Matrix, Moderate to (Strong)												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		24.50 - 25.90 Py BLB 0.5 Pyrite, Blebs,<1%												
25.90	30.80	**Fresh Rock** **7B** ***Hematitic Diorite - Quartz Diorite***	1	1	GR	282415	25.90	26.30	0.40	-	-	0.01	-	-
						282416	26.30	27.30	1.00	-	-	0.01	-	-
		Hematitic Diorite/Quartz Diorite - dirty red`dish gray color, altered intermediate composition with strong and pervasive hematite-magnetite and carbonate (calcite) in gabbro, weakly chloritic, vfg to fg and massive appearance with localized shearing/foliated……weakly sheared 50 to 55 from C.A.				282417	27.30	28.30	1.00	-	-	0.01	-	-
						282418	28.30	29.30	1.00	-	-	0.01	-	-
		25.9 to 26.0 - Tonalite/Trondjhemite-Granodiorite - grayish white color; felsic to intermediate in composition, weak to moderate hematite & carbonate, weakly sheared porphyritic texture with 5% to 10% mg to cg bluish quartz eyes, <1% qcs, <0.5% py and weakly magnetic up to 1% magnetite, sharp lower contact 45 from C.A.				282419	29.30	30.35	1.05	-	-	0.01	-	-
						282420	30.35	30.80	0.45	-	-	0.01	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)

30.35 to 30.8 - Tonalite/Trondjhemite-Granodiorite - reddish/pinkish gray color; felsic to intermediate in composition with moderate to strong hematite dusting and strong pervasive carbonate alteration, non-foliated/sheared with well developed porphyritic texture with 20% to 25% mg bluish quartz-eyes in cb-chl qtz-fd-rich interstitial matrix; weakly magnetic up to 1% magnetite, sharp irregular upper and lower contacts 60 to 90 from C.A.

Mineralization - occassional to widely scattered vfg py <1%
Contact - sharp upper and lower contacts with tonalite-granodiorite (QP) from 25.9 to 26.0 and from 30.35 to 30.8, respectively; irregular sharp lower contacts 60 to 90 from C.A.

Alteration Maj:	Type/Style/Intensity	Comment
25.90 - 30.80	MAG DISS 3	Magnetite, Disseminated, Moderate to Strong
25.90 - 30.80	CB MX 4	Carbonatization, Matrix, Strong
25.90 - 30.80	HM PV 4	Hematization, Pervasive, Strong

Minor Interval:

25.90 26.00 Fresh Rock 8C *Tonalite/Trondjhemite-Granodiorite* 1

Tonalite/Trondjhemite-Granodiorite - grayish white color; felsic to intermediate in composition, weak to moderate hematite and carbonate, weakly sheared porphyritic texture with 5% to 105 mg to cg bluish quartz eyes, <1% qcs, <0.5% py and weakly magnetic up to 1% magnetite, sharp lower contact 45 from C.A.

Minor Interval:

30.35 30.80 Fresh Rock 8C *Hematitic-Carbonate Altered Tonalite/Trondjhemite-Grano* 1

Hematitic-Carbonate Altered Tonalite/Trondjhemite-Granodiorite - reddish/pinkish gray color; felsic to intermediate in composition with moderate to strong hematite dusting and strong pervasive carbonate alteration, non-foliated/sheared with well developed porphyritic texture with 20% to 25% mg bluish quartz-eyes in cb-chl qtz-fd-rich interstitial matrix; weakly magnetic up to 1% magnetite, sharp irregular upper and lower contacts 60 to 90 from C.A.

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
30.80	34.75	**Fresh Rock** **7C** ***Gabbro***	1	1	GR	282421	30.80	31.80	1.00	-	-	0.01	-	-

Gabbro - green color, mafic composition with weak to moderate chlorite with strong and pervasive carbonate alteration, generally a vfg aphanitic matrix with vfg to fg (up to 0.10 cm in size), white and rounded qtz-cb-fd 'amygdules'? from 30.8 to 34.2…..ranges from <1% tolocally 20%, averaging 5% to 10%

- massive to possibly amygdaloidal? and vfg matrix, scattered cs/qcs (up to 2 cm wide) ranging 3% to 7%

Mineralization - occasional py < 0.5% and non-magnetic to very weakly magnetic
Contact - gradationally chilled contact from 34.2 to 34.75 with sharp contact 50 from C.A.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
30.80 - 34.75	MAG DISS 1	Magnetite, Disseminated, Very weak
30.80 - 34.75	CB PV 4	Carbonatization, Pervasive, Strong
30.80 - 34.75	CL MX 2	Chloritization, Matrix, Weak to Moderate

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
30.80 - 34.75	Py BLB 0.5	Pyrite, Blebs, <1%

34.75	41.85	**Fresh Rock** **8C** ***Tonalite/Trondjhemite-Granodiorite (QP***	1	1	GY	282422	34.90	35.40	0.50	-	-	0.01	-	-
						282423	35.40	35.85	0.45	-	-	0.01	-	-
						282425	35.85	36.40	0.55	-	-	0.01	-	-
						282426	36.40	37.40	1.00	-	-	0.01	-	-
						282427	37.40	38.40	1.00	-	-	0.01	-	-
						282428	38.40	38.90	0.50	-	-	0.01	-	-
						282429	38.90	39.15	0.25	-	-	0.01	-	-
						282430	39.15	40.00	0.85	-	-	0.01	-	-

Tonalite/Trondjhemite-Granodiorite (QP) - gray to pinkish gray colors, felsic to intermediate in composition with moderate hematite dusting from 34.75 to 38.4 and weak cb in fractures>matrix, weak to (locally moderate) sil at upper interval, increase in pervasive carbonate alteration (moderate to strong) from 38.4 to 41.85; 20% to 30% mg to cg (<0.5 cm in size) bluish quartz-eyes giving a well developed porphyritic texture.

- scattered quartz stringers/veins ranging from 5cm to 0.5 m with veining accounting between 10% and 12% of the interval with…

35.4 to 35.85 - Quartz Vein - milky white color, quartz composition with thin chlorite-tourmaline seams in vn…vn matte is weakly fractured, barren, sharp upper and lower contact 15 and 56 from C.A., respectively

35.85 to 36.4 - Diorite - gray to light greenish gray color, intermediate in composition with moderate and pervasive cb alteration in the matrix, very weak chl, vfg and massive, < 1% qcs, < 1% py, sharp contact

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)

55 from C.A.

38.9 to 39.15 - Quartz Vein - milky white color, quartz composition with thin, hairline chl-(tour?) seams, vn matte is not fractured, barren, sharp upper contact 83 from C.A. and lower broken contact

Mineralization - occasional vfg pyrite < 0.5%, increased weak to moderate magnetite (1% to locally 3%) associated with hem alteration from 34.75 to 38.4
Contact - sharp contact 53 from C.A.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
34.75 - 38.40	CB MX 1	Carbonatization, Matrix, Very weak to Weak
34.75 - 38.40	MAG DISS 2	Magnetite, Disseminated, Weak to Moderate
34.75 - 38.40	HM MX 3	Hematization, Matrix, Moderate
38.40 - 41.85	MAG DISS 1	Magnetite, Disseminated, Very weak
38.40 - 41.85	HM MX 1	Hematization, Matrix, Very weak
38.40 - 41.85	CB MX 3	Carbonatization, Matrix, Moderate to Strong

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
34.75 - 41.85	Py BLB 0.5	Pyrite, Blebs, <1%

Minor Interval:

35.40 35.85 Fresh Rock QV *Quartz Vein* 1

35.4 to 35.9 - Quartz Vein - milky white color, quartz composition with thin chlorite-tourmaline seams in vn…vn matte is weakly fractured, barren, sharp upper and lower contact 15 and 56 from C.A., respectively

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
Minor Interval:														
35.85	36.40	Fresh Rock 7B *Diorite - Quartz Diorite*		1										
		Diorite - gray to light greenish gray color, intermediate in composition with moderate and pervasive cb alteration in the matrix, very weak chl, vfg and massive, < 1% qcs, < 1% py, sharp contact 55 from C.A.												
Minor Interval:														
38.90	39.15	Fresh Rock QV *Quartz Vein*		1										
		Quartz Vein - milky white color, quartz composition with thin, hairline chl-(tour?) seams, vn matte is not fractured, barren, sharp upper contact 83 from C.A. and lower broken contact												
41.85	43.50	**Fresh Rock 14B *Diabase Dyke***	1	1	BLK									
		Diabase - black color, mafic composition with wk cb in matrix and strong carbonate (calcite) fractures, very fine-grained/aphanitic and massive, 10 cm wide rounded hematitic QP inclusion at 42.65, scattered cs and qcs (up to 2 cm wide) < 1% to 5%, barren of sulphide and moderately magnetic with 15 to 2% vfg scattered magnetite.												
		Contact - sharp upper and lower contacts with well developed chill margins 53 and 83 from C.A., respectively												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		41.85 - 43.50 Py BLB 0.5 Pyrite, Blebs, <1%												
43.50	53.00	**Fresh Rock 8D *Granodiorite-Monzodiorite-Tonalite (QF***	1	1	GY	282431	51.75	52.75	1.00	-	-	0.01	-	-
		Granodiorite-Monzodiorite-Tonalite (QFP) - light gray to grayish-white color, felsic to intermediate in composition with increased silicification/silica flooding from 49.8 to 50.3, patchy weak hematitie dusting at upper part of the interval, light green chl-ser-cb interstitial matrix about phenocrysts, 25% to 35% mg white albitic feldspar with gradual increase towards 53.0 in mg to cg bluish quartz eyes ranging 20% to 30%.				282432	52.75	53.00	0.25	-	-	0.01	-	-
		- well developed porphyritic texture, scattered qs (up to 1 cm wide) up to 1%												

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Mineralization - occasional py < 0.5%,locally increased sulphide from 52.85 to 53.0 with 10% disseminated py associated with qs along core axis Contact - sharp variable contact 20 from C.A. with 3 cm qs with 10% pyrite ***Alteration Maj:*** ***Type/Style/Intensity*** ***Comment*** 43.50 - 49.80 HM SPT 2 Hematization, Spotty/Patchy, Weak to locally (Moderate) 49.80 - 50.30 SI MX 3 Silicification, Matrix, Moderate ***Mineralization Maj. :*** ***Type/Style/%Mineral*** ***Comment*** 43.50 - 52.85 Py BLB 0.5 Pyrite, Blebs, <1% 52.85 - 53.00 Py DIS 10 Pyrite, Disseminated, 10%												
53.00	54.50	**Fresh Rock** **7C** ***Gabbro***	1	1	GR	282433	53.00	53.75	0.75	-	-	0.01	-	-
						282434	53.75	54.50	0.75	-	-	0.01	-	-
		Gabbro - dark green to green color, mafic composition being moderately chloritic with weak to moderate carbonate alteration in the matrix; scattered deformed qs/qcs up to 5% up to 2 cm wide, moderately sheared ranging from 50 to 55 from C.A., very fine-grained, massive matrix Mineralization - occasional py < 1% with local increase in pyrite (1% to 2%) at both upper and lower contacts as vfg disseminations Contact - sharp contact 65 from C.A. ***Alteration Maj:*** ***Type/Style/Intensity*** ***Comment*** 53.00 - 54.50 CB MX 2 Carbonatization, Matrix, Weak to Moderate 53.00 - 54.50 CL MX 3 Chloritization, Matrix, Moderate ***Mineralization Maj. :*** ***Type/Style/%Mineral*** ***Comment*** 53.00 - 54.50 Py DIS 1 Pyrite, Disseminated, <1% with local 1% to 2% at upper and lower contacts												

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
54.50	84.00	**Fresh Rock** **8C** ***Tonalite/Trondjhemite-Granodiorite (QP***	1	1	GY	282435	54.50	55.50	1.00	-	-	0.01	-	-
						282437	83.00	84.00	1.00	-	-	0.01	-	-

Tonalite/Trondjhemite-Granodiorite (QP) - light to dark gray color, felsic to intermediate in composition with variable chl-cb-ser network interstital alteration about mg to cg 25% to 35% bluish quartz-eyes and mg 10% to 20% feldspar phenocrysts, altered sections as follows from….

58.6 to 59.6 - moderate to strong sil with weak to moderate hem and wk-mod magnetite
65.85 to 67.4 - weak to moderate hematite-magnetite
74.0 to 77.4 - weak to moderate patchy hematite-magnetite
79.2 to 83.0 - moderate to strong sericitic>chloritic interstitial alteration with vfg white patchy/clustered leucoxene disseminations
83.0 to 84.0 - weak to moderate patchy hematite-magnetite (overprints the sericitic alteration)

- porphyritic texture,occasional to widely scattered qs/qcs (<1%) up to 2cm wide

Mineralization - occassional py < 0.5% and increase magnetite (wk-mod) in the more hematitic sections
Contact - sharp sheared contact 55 from C.A

Alteration Maj:	***Type/Style/Intensity***	***Comment***
58.60 - 59.60	MAG DISS 2	Magnetite, Disseminated, Weak to Moderate
58.60 - 59.60	HM MX 2	Hematization, Matrix, Weak to Moderate
65.85 - 67.40	MAG DISS 2	Magnetite, Disseminated, Weak to Moderate
65.85 - 67.40	HM MX 2	Hematization, Matrix, Weak to Moderate
74.00 - 77.40	MAG SPT 2	Magnetite, Spotty/Patchy, Weak to Moderate
74.00 - 77.40	HM SPT 2	Hematization, Spotty/Patchy, Weak to Moderate
83.00 - 84.00	MAG SPT 2	Magnetite, Spotty/Patchy, Weak to Moderate
83.00 - 84.00	HM SPT 2	Hematization, Spotty/Patchy, Weak to Moderate

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
54.50 - 84.00	Py BLB 0.5	Pyrite, Blebs,<1%

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
84.00	84.90	**Fresh Rock** **7B** ***Hematitic Diorite-(Gabbro)***	1	1	RE	282438	84.00	84.90	0.90	-	-	0.01	-	-

Hematitic Diorite-(Gabbro) - dirty reddish gray color, intermediate in composition with pervasive strong hem with weak carbonate (calcite) alteration except at upper and lower contacts with moderate to strong pervasive carbonate, weakly sil, vfg and massive with strongly sheared 20 cm sections from the upper and lower contacts 55 from C.A., widely scattered qcs/qs < 1% up to 0.1 cm wide.

Mineralization - occassional py <1% with weak to moderate magnetic associated with hem.
Contact - sharp contact 50 from C.A.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
84.00 - 84.90	MAG DISS 2	Magnetite, Disseminated, Weak
84.00 - 84.90	CB MX 2	Carbonatization, Matrix, Weak to locally Moderatetp Strong at UC and LC
84.00 - 84.90	HM PV 4	Hematization, Pervasive, Strong
Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
84.00 - 84.90	Py BLB 0.5	Pyrite, Blebs, <1%

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
84.90	96.50	**Fresh Rock** **8C** ***Tonalite/Trondjhemite-Granodiorite (QP***	1	1	GY	282439	84.90	86.00	1.10	-	-	0.01	-	-

Tonalite/Trondjhemite-Granodiorite (QP) - pinkish gray to dark dirty gray colors, felsic to intermediate in composition with moderate reddish/pink hematite-magnetite dusting from 84.9 to 92.2 and from 95.4 to 96.5 with weak cb, section from 92.2 to 95.4 consists of varibale chl-cb-(ser) network interstitial with weak to moderate carbonate, 30% to 35% mg to cg (up to 0.6 cm in size) bluish quartz eyes (unstrained) with 10% to 20% fg to mg hematitic dusted albitic feldspar.

- well developed porphyritic texture, <1% qs/qcs with localized increased in qcs/qs at lower contact with diabase.

Mineralization - occasional py < 1%
Contact - sharp contact

Alteration Maj:	***Type/Style/Intensity***	***Comment***

From (m)	To (m)		Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		84.90 - 92.20	CB MX 2			Carbonatization, Matrix, Weak									
		84.90 - 92.20	MAG DISS 3			Magnetite, Disseminated, Moderate									
		84.90 - 92.20	HM MX 3			Hematization, Matrix, Moderate									
		92.20 - 95.40	SR IS 3			Sericitization, Interstitial, Moderate to (Strong)									
		95.40 - 96.50	CB MX 2			Carbonatization, Matrix, Weak									
		95.40 - 96.50	MAG DISS 2			Magnetite, Disseminated, Weak to Moderate									
		95.40 - 96.50	HM MX 3			Hematization, Matrix, Moderate									
		Mineralization Maj. :	***Type/Style/%Mineral***			***Comment***									
		84.90 - 96.50	Py BLB 0.5			Pyrite, Blebs, <1%									
96.50	97.75	**Fresh Rock**	**14B** ***Diabase Dyke***		1	1 BLK									
		Diabase Dyke - black and dark blackish green color, mafic composition with strong pervasive carbonate (calcite), vfg and massive, incrreased calcite fracturing at upper and lower contacts up to 3 cm wide……averages up to 5% cs/qcs													
		96.65 to 96.8 - Tonalite-Granodiorite (QP) Raft/Inclusion - felsic to intermediate composition with 20% to 30% quartz eyes with chl-cb interstitial matrix, porphyritic texture, <1% qs and py, sharp broken contacts													
		Mineralization - occasional py < 0.5%, strongly magnetic with up to 5% vfg disseminated magnetite, weakly magnetic upper contact Contact - sharp upper and lower contact with well developed chill zone, sharp lower contact 55 from C.A. at 5 cm wide qcs/cs													
		Alteration Maj:	***Type/Style/Intensity***			***Comment***									
		96.50 - 97.75	CB PV 4			Carbonatization, Pervasive, Strong									
		Mineralization Maj. :	***Type/Style/%Mineral***			***Comment***									
		96.50 - 97.75	Py BLB 0.5			Pyrite, Blebs, <0.5%									

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
97.75	100.40	**Fresh Rock** **8C** ***Tonalite/Trondjhemite-Granodiorite (QP***	1	1	GY									
100.40	102.05	**Fresh Rock** **8C** ***Sericitic-Silicified Tonalite/Trondjhemit***	1	1	LGR	282440	100.45	101.40	0.95	-	-	0.01	-	-
						282441	101.40	102.05	0.65	-	-	0.01	-	-

Tonalite/Trondjhemite-Granodiorite (QP) - moderate to dark gray to greenish gray color, felsic to intermediate composition with chl-(cb) interstitial matrix about mg to cg (up to 0.5 cm) sub-rounded bluish 20% to 30% qe > fd, porphyritic texture, < 1% qs

Mineralization - occasional py < 0.5%
Contact - gradational contact with increase in sericitic alteration

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
97.75 - 100.40	Py BLB 0.5	Pyrite, Blebs, <1%

Sericitic-Silicified Tonalite/Trondjhemite-Granodiorite (QP) - light green and bleached grayish-white fresh colors, altered felsic to intermediate composition with moderate to strong ser with wk cb from 100.4 to 101.45 as sericiite forms as interstitial alteration in matrix about fg to mg (up to 0.2 cm) fractured quartz-eyes, strong sil-ser flooding of matrix with cb fractures from 101.45 to 102.05…..sharp contact 90 from C.A. between both alteration types; sericitic alteration.

- relict sub-porphyritic texture in ser alteration with protolithic textures obliterated in the silicifed alteration, occasional qs/qcs (<1%).

Mineralization - occasional py < 0.5%
Contact - sharp contact 50 from C.A. with 1 cm wide qcs/qs

Alteration Maj:	***Type/Style/Intensity***	***Comment***
100.40 - 101.45	CB MX 2	Carbonatization, Matrix, Weak
100.40 - 101.45	SR IS 3	Sericitization, Interstitial, Moderate to Strong
101.45 - 102.05	CB FRC 4	Carbonatization, Along Fractures, Strong

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		101.45 - 102.05 SR PV 3 Sericitization, Pervasive, Moderate												
		101.45 - 102.05 SI PV 4 Silicification, Pervasive, Strong												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		100.40 - 102.05 Py BLB 0.5 Pyrite, Blebs, <0.5%												
102.05	107.60	**Fresh Rock** **7C** ***Gabbro***	1	1	GR	282442	102.05	103.00	0.95	-	-	0.01	-	-
		Gabbro - green color, mafic composition with moderate chlorite alteration and moderate to strong pervasive carbonate alteration (calcite) in matrix as well as fractures, local sections of vfg to fg feldspar (5% to 15%), but generally vfg and massive,				282443	103.00	104.00	1.00	-	-	0.01	-	-
						282444	104.00	105.00	1.00	-	-	0.01	-	-
		- scattered qcs/qs/cs up to 3 cm wide with stringers/veinlets ranging < 1% to local 10%...averages 5%, core angles ranges from 45 to 80 from C.A.				282445	105.00	106.00	1.00	-	-	0.01	-	-
						282446	106.00	107.00	1.00	-	-	0.02	-	-
		Mineralization - occasional py < 0.5% Contact - sharp contact 61 from C.A.				282447	107.00	107.60	0.60	-	-	0.01	-	-
		- scattered qcs/cs up to 3 cm wide and ranging 3% to 6% being weakly fractured												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		102.05 - 107.60 CL MX 3 Chloritization, Matrix, Moderate												
		102.05 - 107.60 CB PV 3 Carbonatization, Pervasive, Moderate to Strong												

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
107.60	112.45	**Fresh Rock** **8C** ***Sericitic Tonalite/Trondjhemite-Granodi***	1	1	LGR

Sericitic Tonalite/Trondjhemite-Granodiorite (QP) - light green to greenish gray color, altered felsic to intermediate composition with moderate to strong sericite-(chlorite) as interstitial alteration about mg (up to 0.3 cm in size) bluish quartz eyes (fractured?), locally silicified (patchy) and patchy chlorite 'bands' and/or shear fractures, scattered localized white vfg leucoxene up to 1% to 3%.

- porphyritic texture, occasional qs/qcs/cs up to 6 cm wide ranging < 1% to 2%

109.8 to 110.05 - Sheared and Carbonate Altered Diorite - greenish-gray color, intermediate in composition with strong pervasive, sh controlled alteration, vfg and strongly sheared 80 from C.A., <1% qcs, barren, sharp upper and lower contacts 63 and 80 from C.A.

Mineralization - widely scattered pyrite cbues <1% with localized area of 1% (10 cm wide); local 6 cm wide qs from 111.75 with 1% to 3% cpy fracture seam and 2% to 3% py, non-magnetic.

Contact - sharp contact 60 from C.A.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
107.60 - 112.45	LX DISS 1	Leucoxene, Disseminated, Very weak
107.60 - 112.45	SI SPT 3	Silicification, Spotty/Patchy, Moderate
107.60 - 112.45	CL SPT 3	Chloritization, Spotty/Patchy and in Shear Fractures, Moderate
107.60 - 112.45	SR IS 3	Sericitization, Interstitial, Moderate to Strong

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
107.60 - 112.45	Cpy FAC 0.5	Chalcopyrite, Fracture-controlled, 0.5%
107.60 - 112.45	Py BLB 1	Pyrite, Blebs, <1%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
282449	107.60	108.50	0.90	-	-	0.01	-	-
282450	108.50	109.50	1.00	-	-	0.01	-	-
282451	109.50	110.05	0.55	-	-	0.01	-	-
282452	110.05	110.70	0.65	-	-	0.02	-	-
282453	110.70	111.75	1.05	-	-	0.02	-	-
282454	111.75	112.00	0.25	-	-	0.05	-	-
282455	112.00	112.45	0.45	-	-	0.01	-	-

Minor Interval:

109.80	110.05	Fresh Rock	7B	*Sheared & Carbonate Altered Diorite*	1

Sheared and Carbonate Altered Diorite - greenish-gray color, intermediate in composition with strong pervasive, sh controlled alteration, vfg and strongly sheared 80 from C.A., <1% qcs, barren, sharp upper and lower contacts 63 and 80 from C.A.

Hole Number **WAT17-07** Project: **TAAC** Project Number: **259**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
112.45	113.75	**Fresh Rock** **QCV** ***Quartz-(Carbonate) Vein/Stockwork*** Quartz Carbonate Vein/Stockwork - white and light gray/gray color, 60% vein matte composed of quartz and carbonate with 40% moderately to strongly chl with varibale wk to strong carbonate alteration…..form as inclusions in the vein matte <5 to 10 cm wide, inclusions show both reaction rims and as diffuse wallrockboundaries, wallrock inclusions form as random, irregular contacts with the vein matte. Mineralization - overall < 1% to 2% cpy and up to 1% py over the entire interval, local 10 cm interval from 112.45 (upper contact) with 5% cpy as coarse splashes within the vn in contact with wallrock inclusions and 1% to 2% py rimming cpy Contact - sharp contact 16 from C.A.	1	1	WH
113.75	136.35	**Fresh Rock** **8C** ***Granodiorite-Tonalite (QFP-QP)*** Granodiorite-Tonalite (QFP-QP) - grayish white and pinkish/reddish white colors, felsic to intermediate in composition with moderate to strong hematite dusting with magnetite increasing at depth from 118.6 to 127.5….strongest hem-mag from 124.5 to 127.5, vfg green chl-(wk to locally moderate cb) with local ser interstitial matrix about both fg to mg (up to 0.3 to 0.4 cm in size) quartz-eyes and feldspars with increase in quartz-eyes (20% to 25%) and grain size from 118.35 to 136.35. - well developed porphyritic texture, occasional qs/qcs/cs up to 2 cm wide and < 1% of the interval. Noteable thin sections from…. 118.15 to 118.25 - Quartz-Carbonate-Chlorite Veinlet - green and white color, quartz-carbonate (moderate)-chlorite composition, 5% associated with strong green Fe-rich chlorite, sharp contacts 46 from C.A. 118.3 - 3 cm wide Diabase Dykelet - black color, mafic composition, vfg and msv, non-magnetic, sharp contacts 50 from C.A. 121.2 to 121.3 - Gabbro Dykelet - dark green color, mafic composition with moderate pervasive cb	1	1	GY

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
282456	112.45	112.80	0.35	-	-	1.59	-	-
282457	112.80	113.30	0.50	-	-	0.01	-	-
282458	113.30	113.75	0.45	-	-	0.07	-	-
282459	113.75	114.50	0.75	-	-	0.01	-	-
282461	114.50	115.50	1.00	-	-	0.01	-	-
282462	115.50	116.50	1.00	-	-	0.01	-	-
282463	116.50	117.50	1.00	-	-	0.01	-	-
282464	117.50	118.15	0.65	-	-	0.01	-	-
282465	118.15	118.40	0.25	-	-	0.01	-	-
282466	118.40	119.00	0.60	-	-	0.01	-	-
282467	119.00	120.00	1.00	-	-	0.01	-	-
282468	120.00	121.00	1.00	-	-	0.01	-	-
282469	121.00	122.00	1.00	-	-	0.01	-	-
282470	128.00	128.90	0.90	-	-	0.01	-	-
282471	128.90	129.40	0.50	-	-	0.02	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		alteration in matrix, vfg and msv, non-magnetic and sharp contact 50 and 52 from C.A. at upper and lower contacts, respectively.				282473	129.40	130.40	1.00	-	-	0.01	-	-

At 125.85 - 2 cm wide Diabase Dykelet - similar in description to above diabase intercept but strongly magnetic, well developed chill zones with sharp contacts 65 from C.A.

128.15 to 128.3 - Carbonate Altered Gabbro - dirty grayish green color, altered mafic composition with strong intense cb alteration, vfg and massive, < 1% qcs, and py, sharp irregular upper contact with lower contact at 80 from C.A.

135.75 to 136.05 - Sheared and Carbonate Altered Gabbro - light greenish gray colr, altered mafic composition with strong pervasive cb, strongly sh 50 from C.A., < 1% qcs and non-magnetic with < 1% py, sharp upper and lower contacts 62 And 60 from C.A., respectively.

Mineralization - occasional to widely scattered vfg pyrite with overall < 1% py, locally up to 1% py, 2-3 cm wide qs 10 from C.A. hosting 5% to 10% py from 128.9 to 129.4 with 1% scattered py in adjacent wallrock.

Contact - sharp contact 52 from C.A.

Alteration Maj:	Type/Style/Intensity	Comment
118.60 - 124.50	MAG DISS 3	Magnetite, Disseminated, Moderate
118.60 - 124.50	HM MX 3	Hematization, Matrix, Moderate
124.50 - 127.50	MAG DISS 4	Magnetite, Disseminated, Strong
124.50 - 127.50	HM MX 4	Hematization, Matrix, Strong

Mineralization Maj. :	Type/Style/%Mineral	Comment
128.90 - 129.40	Py DIS 1	Pyrite, Disseminated, <1% to locally 5% to 10% py over 10 cm section

Minor Interval:

135.75 136.05 Fresh Rock 7C *Sheared and Carbonate Altered Gabbro* 1

Sheared and Carbonate Altered Gabbro - light greenish gray colr, altered mafic composition with strong pervasive cb, strongly sh 50 from C.A., < 1% qcs and non-magnetic with < 1% py, sharp upper and lower contacts 62 And 60 from C.A.,

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		respectively.												
136.35	137.60	**Fresh Rock** **14B** ***Diabase Dyke***	1	1	BLK									
		Diabase Dyke - black color, mafic composition with weak carbonate with 5% to 10% fg black pyroxene/amphibole in an otherwise vfg and aphanitic matrix, massive appearance with tonalite-granodiorite inclusions up to 0.19 meters with section from…												
		136.7 to 136.9 - Tonalite-Granodiorite (QP) raft/inclusions - pinkish gray color,felsic to intermediate in composition with weak hem-cb, porphyritic texture with 20% to 30% qe>fd in a chl-ser-cb matrix, < 1% qs and py…non-magnetic, sharp upper and lower contacts 60 and 64 from C.A., respectively												
		Mineralization - occasional py < 1% being moderately to strongly magnetic with vfg disseminated magnetite Contact - sharp contact 50 from C.A.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		136.35 - 137.60 CB MX 2 Carbonatization, Matrix, Weak												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		136.35 - 137.60 Py BLB 0.5 Pyrite, Blebs,<0.5%												
Minor Interval:														
136.70	136.90	Fresh Rock 8C *Tonalite/Trondjhemite-Granodiorite (QP)*		1										
		Tonalite-Granodiorite (QP) raft/inclusions - pinkish gray color,felsic to intermediate in composition with weak hem-cb, porphyritic texture with 20% to 30% qe>fd in a chl-ser-cb matrix, < 1% qs and py…non-magnetic, sharp upper and lower contacts 60 and 64 from C.A., respectively												
137.60	147.10	**Fresh Rock** **8C** ***Tonalite/Trondjhemite-Granodiorite (QP***	1	1	GY	282474	146.00	146.70	0.70	-	-	0.01	-	-
		Tonalite/Trondjhemite-Granodiorite (QP) - light pinkish gray to light greenish gray color, felsic to intermediate in composition with weak to moderate hematite dusting with multiple moderately to strong sericitic network interstitial alteration and non-hematitic from 137.9 to 139.15, 143.35 to 144.5, and from 146.1 to 146.7, mg to cg (up to 0.5 cm in size) bluish quartz-eyes (20% to 30%) > hematitic dusted albitic feldspar (15% to 20%).				282475	146.70	147.10	0.40	-	-	0.01	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)

- porphyritic texture, occasional rounded mafic inclusion (<1% and up to 5 cm wide), occasional qs/qcs < 1%...up to 2 cm wide ranging 45 to 60 from C.A.

Mineralization - occasional to widely scattered py < 1%, increased magnetite in hematitic sections with <1% to 3% vfg disseminated magnetite relative to the more sericitic felsic sections

Contact - sharp irregular contact 60 from C.A.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
137.60 - 137.90	HM MX 2	Hematization, Matrix, Weak to Moderate
137.90 - 139.15	SR IS 3	Sericitization, Interstitial, Moderate to Strong
139.15 - 143.35	HM MX 2	Hematization, Matrix, Weak to Moderate
143.35 - 144.50	SR IS 3	Sericitization, Interstitial, Moderate to Strong
144.50 - 146.10	HM MX 2	Hematization, Matrix, Weak to Moderate
146.10 - 146.70	SR IS 3	Sericitization, Interstitial, Moderate to Strong
146.70 - 147.10	HM MX 2	Hematization, Matrix, Weak to Moderate

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
137.60 - 147.10	Py BLB 1	Pyrite, Blebs, <1%

147.10 149.30 **Fresh Rock** **7C** ***Gabbro*** 1 1 GR

Gabbro - green color, mafic in composition with moderate chlorite with weak carbonate….strong pervasive carbonate from 148.35 to 149.3, vfg and moderately sheared 80 from C.A., massive appearance, < 1% qcs/qs with increased qcs from 149.1 to 149.3 with two thiin 6 cm and 7 cm wide qcs.

148.2 to 148.35 - Tonalite-Granodiorite (QP) - pinkish gray color, felsic to intermediate in composition with moderate hematite dusting, chl-(cb) interstitial about 20% to 30% bluish quartz-eyes > feldspar, porphyritic texture, 1% qs, scattered cg poikiloblastic pyrite cubes porphyroblasts, strongly magnetic with disseminated and fractures of magnetite.

Mineralization - occasional py < 0.5%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
282476	147.10	148.20	1.10	-	-	0.01	-	-
282477	148.20	148.40	0.20	-	-	0.01	-	-
282478	148.40	149.10	0.70	-	-	0.01	-	-
282479	149.10	149.30	0.20	-	-	0.01	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Contact - sharp contact 78 from C.A. with 7 cm wide qs with two qcs 6 and 7 cm wide from 149.1												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		148.35 - 149.30 CB PV 4 Carbonatization, Pervasive, Strong												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		147.10 - 149.30 Py BLB 0.5 Pyrite, Blebs, <0.5%												
149.30	153.35	**Fresh Rock** **8C** ***Tonalite/Trondjhemite-Granodiorite (QP***	1	1	GY	282480	149.30	150.20	0.90	-	-	0.01	-	-
		Tonalite/Trondjhemite-Granodiorite (QP) - pinkish/redish hue gray color, felsic to intermediate in composition with moderate to (strong) hematitte dusting with magnetite, wk to mod sil matrix with 5% to 15% chl and wk cb interstitial matrix, fg to mg (up to 0.2 to 0.3 cm in size) bluish quartz eyes (25% to 35%). frequent randomly oriented hairline fractures (chl-cb)				282481	150.20	151.20	1.00	-	-	0.01	-	-
						282482	151.20	152.20	1.00	-	-	0.01	-	-
		- sub- porphyritic texture with occasional qs/qcs < 1% up to 1 cm wide.				282483	152.20	152.80	0.60	-	-	0.01	-	-
						282485	152.80	153.35	0.55	-	-	0.15	-	-
		Mineralization - occasional py < 0.5% with moderate to strong magnetite as vfg disseminated grains/minor fractures with magnetite ranging from 2% to 4%												
		Contact - sharp contact 50 from C.A.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		149.30 - 153.35 SI MX 2 Silicification, Matrix, Weak to Moderate												
		149.30 - 153.35 MAG DISS 3 Magnetite, Disseminated, Moderate to Strong												
		149.30 - 153.35 HM MX 3 Hematization, Matrix, Moderate to Strong												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		149.30 - 153.35 Py BLB 0.5 Pyrite, Blebs, <0.5%												

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
153.35	154.45	**Fresh Rock** **7C** ***Gabbro***	1	1	GREBL	282486	153.35	153.90	0.55	-	-	0.01	-	-
						282487	153.90	154.45	0.55	-	-	0.01	-	-

Gabbro - greenish black to dark green color, altered mafic composition with strong pervasive chlorite and carbonate alteration, vfg and moderately sheared 45 to 52 from C.A.…massive appearance, occasional qcs/qs.

Mineralization - occasional py < 1%, non-magnetic
Contact - sharp contact 20 from C.A. with qcv

Alteration Maj:	Type/Style/Intensity	Comment
153.35 - 154.45	CB PV 4	Carbonatization, Pervasive, Strong
153.35 - 154.45	CL PV 4	Chloritization, Pervasive, Strong

Mineralization Maj. :	Type/Style/%Mineral	Comment
153.35 - 154.45	Py BLB 0.5	Pyrite, Blebs, <1%

154.45	156.80	**Fresh Rock** **QV** ***Quartz-(Carbonate) Vein***	1	1	WH	282488	154.45	155.00	0.55	-	-	0.01	-	-
						282489	155.00	155.50	0.50	-	-	0.01	-	-
						282490	155.50	156.00	0.50	-	-	0.01	-	-
						282491	156.00	156.80	0.80	-	-	0.01	-	-

Quartz-(Carbonate) Vein - milky white and green colors, predominantly quartz composition with calcite fractures in weakly to locally moderately fractured vn matte, 20% to 30% wallrocks inclusions with strongly chl-(cb) altered wallrock (definitive wallrock boundaries) from 154.45 to 155.8 with diffuse cb>chl wallrock inclusions from 155.8 to 156.8, wallrock inclisions are irregularly oriented and up to 20 cm wide, numerous chlorite-(carbonate) seams

Mineralization - occasional to locally clustered vfg disseminated py (<1%), generally recognized in the altered wallrock, relative increase in py in the area of the upper contact but still < 1%, non-magnetic

Contact - sharp contact 82 from C.A.

Alteration Maj:	Type/Style/Intensity	Comment
154.45 - 156.80	CB XN 3	Carbonatization, Xenoliths,Weak to Moderate
154.45 - 156.80	CL XN 3	Chloritization, Xenoliths, Weak to Moderate

Mineralization Maj. :	Type/Style/%Mineral	Comment
154.45 - 156.80	Py DIS 1	Pyrite, Disseminated, <1%

Hole Number **WAT17-07** Project: **TAAC** Project Number: **259**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
156.80	158.70	**Fresh Rock** **8C** ***Tonalite/Trondjhemite-Granodiorite (QP***	1	1	GY	282492	156.80	157.50	0.70	-	-	0.02	-	-
						282493	157.50	158.70	1.20	-	-	0.01	-	-
158.70	160.20	**Fresh Rock** **SH** ***Chlorite-(Carbonate) & Silicified Shear***	1	1	GR	282494	158.70	159.20	0.50	-	-	0.01	-	-
						282495	159.20	159.70	0.50	-	-	0.01	-	-
						282497	159.70	160.20	0.50	-	-	0.01	-	-

Tonalite/Trondjhemite-Granodiorite (QP) -pinkish grayish white color, felsic to intermediate in composition with moderate hematite dusting and moderate silicification in the upper interval associated with a series of qs/qcs, chl-(wk cb-ser) interstitial matrix about relict mg to cg bluish quartz eyes (10% to 30%).

- porphyritic texture, scattered qs/qcs (up to 4 cm wide) with increased veining from 156.8 to 157.5 with 10% to 15% qs/qcs

Mineralization - occasional py < 1%
Contact - sharp contact 38 from C.A.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
156.80 - 158.70	HM MX 3	Hematization, Matrix, Moderate

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
156.80 - 158.70	Py BLB 1	Pyrite, Blebs, <1%

Chlorite-(Carbonate) & Silicified Shear - green and greenish gray color, altered mafic composition with strong chlorite and locally strong carbonate with moderate silicification from 159.75 to 160.0.

- strongly sheared 50 from C.A. with intense pytgmatic parasitic folding from 159.4 to 159.75 with axial planar/fold axis 10 to 20 from C.A., well developed C and S fabrics with well developed horsetails and multiple cymoidal loops, occasional qcs with qcv from 158.9 to 159.05…opaque white color, quartz-carbonate in composition (ankerite?) xcut by chl-cb seams.

159.75 to 160.0 - Silicified-(Sericite) QP - grayish white color, altered felsic composition with strong sil with moderate ser and weak cb, relict porphyritic texture and strongly sheared 50 from C.A., 1% to 2% qs/qcs parallel to sh, < 1% py, sharp contacts 47 and 50 from C.A., respectively

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Mineralization - occasional py < 1% Contact - sharp contact 50 from C.A.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		158.70 - 159.75 CB FP 4 Carbonatization, Along Foliation Planes, Strong												
		158.70 - 159.75 CL FP 4 Chloritization, Along Foliation Planes, Strong												
		159.75 - 160.00 SI MX 3 Silicification, Matrix, Moderate												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		158.70 - 160.20 Py BLB 1 Pyrite, Blebs, <1%												
160.20	168.60	**Fresh Rock** **8C** ***Sericitic Tonalite/Trondjhemite-Granodi***	1	1	LGR	282498	160.20	161.00	0.80	-	-	0.01	-	-
		Sericitic Tonalite/Trondjhemite-Granodiorite (QP) - light greenish gray color, altered felsic to intermediate in composition with moderate to strong sericite>silicification with locally strong silicified section from 165.4 to 165.7 with vfg drusy silica flooding, sericitic alteration occurs as network interstitial alteration with weak carbonate about tightly packed mg to locally cg (<0.4 to 0.5 cm in size) 25% to 35% bluish quartz eyes > feldspar				282499	161.00	162.00	1.00	-	-	0.01	-	-
						282500	162.00	163.00	1.00	-	-	0.02	-	-
						282501	163.00	164.00	1.00	-	-	0.01	-	-
						282502	164.00	164.70	0.70	-	-	0.01	-	-
		- porphyritic texture, not well developed visual sheared fabric, but observed 40 to 60 from C.A., occasional qs/qcs (<1%) up to 2 cm wide				282503	164.70	165.40	0.70	-	-	0.01	-	-
						282504	165.40	165.70	0.30	-	-	0.01	-	-
		Mineralization - overall occasional py < 1% to locally up to 1% scattered py Contact - gradational decrease in sericite				282505	165.70	166.70	1.00	-	-	0.01	-	-
						282506	166.70	167.70	1.00	-	-	0.01	-	-
						282507	167.70	168.70	1.00	-	-	0.01	-	-
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		160.20 - 165.40 SI MX 2 Silicification, Matrix, Weak to Moderate												
		160.20 - 165.40 SR IS 3 Sericitization, Interstitial, Moderate to Strong												
		165.40 - 165.70 SI MX 4 Silicification, Matrix, Strong												
		165.70 - 168.60 SI MX 2 Silicification, Matrix, Weak to Moderate												
		165.70 - 168.60 SR IS 3 Sericitization, Interstitial, Moderate to Strong												

Hole Number **WAT17-07** Project: **TAAC** Project Number: **259**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		160.20 - 168.60 Py BLB 1 Pyrite, Blebs, <1%												
168.60	181.40	**Fresh Rock** **8D** ***Granodiorite-Monzodiorite-Tonalite (QF***	1	1	GY	282508	173.90	174.40	0.50	-	-	0.01	-	-
		Granodiorite-Monzodiorite-Tonalite (QFP) - light gray to pinkish/redddish gray colors, felsic to intermediate in composition with gradual increase in hematite stain from 174.2 with strong hematite dusting from 179.4 to 181.4 with associated increase in magnetite, chl-(cb) interstitial about mg to cg (<0.6 cm in size) bluish quartz eyes (20% to 30%) with localized clusters of fg to mg (<0.2 cm) of feldspar phenocrysts in the more hem sections.				282509	174.40	174.70	0.30	-	-	0.01	-	-
		- porphyritic texture, local sh fracture 50 from C.A. at 171.0, occasional to widely scattered qs/qcs < 1% with scattered thin epidote fractures from 177.7 to 181.4				282510	174.70	175.20	0.50	-	-	0.01	-	-
		Mineralization - occasional py < 1% with local 2 cm cluster of py (10%) at 174.45, increase in magnetite (<1% to 4%) associated with more hematitic section from 174.2 to 181.4.												
		Contact - sharp contact 36 from C.A.…chill zone and broken core in underlying diabase												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		168.60 - 181.40 MAG DISS 3 Magnetite, Disseminated, Moderate												
		168.60 - 181.40 HM MX 3 Hematization, Matrix, Moderate to Strong												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		168.60 - 181.40 Py BLB 1 Pyrite, Blebs, <1%												
181.40	200.00	**Fresh Rock** **14B** ***Diabase***	1	1	DGR									
		Diabase - dark green to greenish black color, mafic in composition with weak carbonate with scattered medium to coarse (<1 cm) pistachio green sauss/epidotic calcic plagioclase (<1%).												

Hole Number **WAT17-07** Project: **TAAC** Project Number: **259**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)

- very fine-granined and massive, scattered white thin hairline fractures consisting of white powder zeolites?/serpentine (greasy feel) and calcite from 185 to 196 and locally numerous over 0.10 to 0.30 meter sections.

Mineralization - barren but moderately to strongly magnetic
Contact - sharp upper contact with chill zone and broken core.

Alteration Maj:	Type/Style/Intensity	Comment
181.40 - 200.00	CB MX 2	Carbonatization, Matrix, Weak
181.40 - 200.00	EP AFG 3	Epidotization, Alteration of feldspar grains, Moderate

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number: **WAT17-07** Project: **TAAC** Project Number: **259**

From (m)	To (m)	Length (m)	Sample #	Comments
16.75	17.25	0.50	282401	Tonalite-Granodiorite - felsic to intermediate in composition with mod hem, porp texture with 20% to 30% qe, <1% qcs and py, moderately to strongly magnetic
17.25	17.65	0.40	282402	Tonalite-Granodiorite - felsic to intermediate in composition with mod interstitial hem, wk cb, porp texture with 20% to 30% qe, 5% qs and 1% to 2% vfg scattered py and a coarse splash of cpy <0.5%, moderately to strongly magnetic
17.65	18.40	0.75	282403	Chorite-Carbonate Shear - strong intense chl-cb and sh, up to 1% qcs, widely scattered py up to 1%, non-magnetic
18.40	18.90	0.50	282404	Chorite-Carbonate Shear - strong intense chl-cb and sh, up to 1% qcs, <1% py, non-magnetic
18.90	19.30	0.40	282405	Fault Zone Gouge - strong chl-cb and gouge/broken core, strong per hem-cb-(sil) from 19.0 to 19.2 with 1% to 2% vfg py
19.30	20.15	0.85	282406	Chorite-Carbonate Shear - strong intense chl-cb and sh, up to 5% qcs, <1% py, non-magnetic
20.15	20.50	0.35	282407	Silicified & Chloritic Tonalite-Granodiorite - both strong sil and chl-mag at upper contact, <1% qs, 5% fg to mg scattered py and strongly magnetic
20.50	21.50	1.00	282408	Tonalite-Granodiorite - felsic to intermediate in composition with weak to mod hem, porp texture with 20% to 30% qe, <1% qs and occasional py, moderately to strongly magnetic
21.50	22.50	1.00	282409	Tonalite-Granodiorite - felsic to intermediate in composition with weak to mod hem, porp texture with 20% to 30% qe, <1% qs and occasional py, moderately to strongly magnetic
22.50	23.50	1.00	282410	Tonalite-Granodiorite - felsic to intermediate in composition with weak to mod hem, porp texture with 20% to 30% qe, <1% qs and occasional py, moderately to strongly magnetic
23.50	24.50	1.00	282411	Tonalite-Granodiorite - felsic to intermediate in composition with weak to mod hem, porp texture with 20% to 30% qe, <1% qs and occasional py, moderately to strongly magnetic
24.50	25.20	0.70	282413	Sheared Gabbro - altered mafic with moderate chl and strong pervasive cb, mod to strongly sh, 5% to 10% cs/qcs parallel to sh, < 1% py and non-magnetic
25.20	25.90	0.70	282414	Gabbro - mafic composition with mod chl and strong cb, wk sh, 5% to 10% cs/qcs, < 1% py and non-magnetic
25.90	26.30	0.40	282415	Tonalite-Granodiorite (QP) & Hematitic Diorite - felsic to intermediate compositions with 75% hem diorite with upper contact 25% tonalite (QP), strong hem-mag, wk sh, <1% py and wk-mod mag in hem diorite
26.30	27.30	1.00	282416	Hematitic Diorite/Gabbro - intermediate to mafic composition with mod to strong hem in chl matrix, strong pervasive cb, <1% qcs/cs, widely scattered vfg py < 1% and strongly magnetic
27.30	28.30	1.00	282417	Hematitic Diorite/Gabbro - intermediate to mafic composition with mod to strong hem in chl matrix, strong pervasive cb, <1% qcs/cs, widely scattered vfg py < 1% and strongly magnetic
28.30	29.30	1.00	282418	Hematitic Diorite/Gabbro - intermediate to mafic composition with mod to strong hem in chl matrix, strong pervasive cb, 2% to 3% qcs/cs, widely scattered vfg py < 1% and strongly magnetic
29.30	30.35	1.05	282419	Hematitic Diorite/Gabbro - intermediate to mafic composition with mod to strong hem in chl matrix, strong pervasive cb, 1% to 2% qcs/cs, widely scattered vfg py < 1% and strongly magnetic
30.35	30.80	0.45	282420	Tonalite-Granodiorite (QP) - felsic to intermediate in composition with moderate to strong hem and strong cb, porp texture, <1% qcs and py, wk-(mod) magnetic
30.80	31.80	1.00	282421	Gabbro - mafic compositionwith wk-mod chl and strong pervasive cb, msv/amygdaloidal feature, <0.5% py and non-magnetic
34.90	35.40	0.50	282422	Tonalite-Granodiorite - weak to (mod) sil with wk to mod hem dusting, numerous hairline fractures, 1% to 3% qs/qcs, <1% py and wk/mod magnetic
35.40	35.85	0.45	282423	Quartz Vein -milky white color, quartz composition, thin chl-tour seams in vn matte (wk fract), barren
35.85	36.40	0.55	282425	Diorite - intermediate composition, moderate pervasive cb in matrix, wk chl, vfg and msv, <1% qcs and py, non-magnetic and sh lc
36.40	37.40	1.00	282426	Tonalite-Granodiorite - felsic to intermediate composition with wk-(mod) sil with mod hem, porp texture, 5% qs, < 1% py and mod magnetic
37.40	38.40	1.00	282427	Tonalite-Granodiorite - felsic to intermediate composition with wk sil with mod hem, porp texture, <1% qs, < 1% py and mod magnetic
38.40	38.90	0.50	282428	Tonalite-Granodiorite - felsic to intermediate composition with wk to no hem, porp texture, <1% qs, < 1% py & non-magnetic

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number: **WAT17-07** Project: **TAAC** Project Number: **259**

From (m)	To (m)	Length (m)	Sample #	Comments
38.90	39.15	0.25	282429	Quartz Vein - milky white color, quartz composition, thin hairline chl(tour) seams, barren
39.15	40.00	0.85	282430	Tonalite-Granodiorite (QP) - felsic to intermediate in composition, porp texture, with 20% to 30% qe, 2% to 4% qs and <1% py, non-magnetic
51.75	52.75	1.00	282431	Tonalite-Granodiorite - felsic to intermediate in composition with weak sil, relict porp texture, <1% qs and py, non-magnetic
52.75	53.00	0.25	282432	Tonalite-Granodiorite - felsic to intermediate in composition with weak sil, relict porp texture, <1% qs with 10% py associated with 3 cm qs parallel to C.A from 52.85 to 53.0, non-magnetic
53.00	53.75	0.75	282433	Gabbro - mafic composition with mod chl and wk cb, sh, 5% qcs/qs, overall < 1% py with slight increase in py 10 cm from uc
53.75	54.50	0.75	282434	Gabbro - mafic composition with mod chl and wk-mod cb matrix, 5% deformed qs/qcs and sh, overall < 1% py and local 1% py at lc
54.50	55.50	1.00	282435	Tonalite-Granodiorite (QP) - felsic to intermediate in composition, wk ser-cb in matrix, porp texture, < 1% qs and py, non-magnetic
83.00	84.00	1.00	282437	Tonalite-Granodiorite (QP) - felsic to intermediate in composition, mod hem stain and wk-(mod) sil in matrix, sub-porp texture, <1% qcs/qs and py <1%, moderately magnetic
84.00	84.90	0.90	282438	Hematitic Diorite - intermediate composition with strong pervasive hem in matrix, increase wk-mod cb and sheared at uc and lc, msv, <1% qs/qcs, < 1% py and wk-mod magnetics
84.90	86.00	1.10	282439	Tonalite-Granodiorite (QP) - felsic to intermediate in composition, mod to strong hem stain & wk-mod cb fractures, sub-porp texture, <1% qcs/qs and widely scattered py <1%, weak to moderately magnetic
100.45	101.40	0.95	282440	Sericitic Tonalite-Granodiorite (QP) - mod to strong ser interstitial matrix about qe, wk cb, porp texture, < 1% qs and py, non-magnetic
101.40	102.05	0.65	282441	Silicified Tonalite-Granodiorite - strong pervasive sil flooding of matrix, vfg and massive, <1% qs and py
102.05	103.00	0.95	282442	Gabbro - mafic composition with mod chl and wk cb in matrix but strong cb fractures, vfg and msv, 3% to 5% cs/qcs, < 1% py
103.00	104.00	1.00	282443	Gabbro - mafic composition with mod chl and strong cb in matrix and fractures, vfg and msv, 2% to 3% cs/qcs, < 1% py
104.00	105.00	1.00	282444	Gabbro - mafic composition with mod chl and strong cb in matrix and fractures, vfg and msv, 1% to 2% cs/qcs, < 1% py
105.00	106.00	1.00	282445	Gabbro - mafic composition with mod chl and strong cb in matrix and fractures, vfg and msv, 5% cs/qcs, < 1% py
106.00	107.00	1.00	282446	Gabbro - mafic composition with mod chl and strong cb in matrix and fractures, vfg and msv, <1% cs/qcs, < 1% py
107.00	107.60	0.60	282447	Gabbro - mafic composition with mod chl and strong cb in matrix and fractures, vfg and msv, 2% to 3% cs/qcs, < 1% py
107.60	108.50	0.90	282449	Sericitic Tonalite-Granodiorite (QP) - mod to strong ser interstitial with chl and wk cb about qe, porp texture, <1% qs, widely scattered up to 1% locally
108.50	109.50	1.00	282450	Sericitic Tonalite-Granodiorite (QP) - mod to strong ser interstitial with chl and wk cb about qe, porp texture, <1% qs, widely scattered py <1%
109.50	110.05	0.55	282451	Sericitic Tonalite-Granodiorite (QP) and 0.25 m wide Sheared Carbonate Altered Diorite - QP is mod to strong ser interstitial with chl and wk cb about qe, porp texture, 2% cs/qcs, widely scattered py <1%
110.05	110.70	0.65	282452	Sericitic Tonalite-Granodiorite (QP) - moderate to strong ser with moderate chlorite, moderately sh and up to 5% qcs/cs parallel to sh, <1% py
110.70	111.75	1.05	282453	Sericitic Tonalite-Granodiorite (QP) - mod to strong ser-(chl) interstitial with wk cb about qe, porp texture, <1% qs/qcs, widely scattered py <1%
111.75	112.00	0.25	282454	Sericitic Tonalite-Granodiorite (QP) xcut by 6 cm QCS/QS - mod to strong ser-(chl) interstitial with wk cb about qe, porp texture, <1% qs/qcs, overall <1% cpy-py with 1% to 2% cpy and 1% to 2% py in 6cm qcs/qs
112.00	112.45	0.45	282455	Sericitic Tonalite-Granodiorite (QP) - mod to strong ser-(chl) interstitial with wk cb about qe, porp texture, <1% qs/qcs, widely scattered py <1%
112.45	112.80	0.35	282456	Quartz Stockwork - 45% qcv vn matte xcutting mod to strong chl-cb altered wallrock inclusions, 10 cm wide 5% cpy and 1% to 2% py at upper contact with occasional py towards 112.8

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number: **WAT17-07** Project: **TAAC** Project Number: **259**

From (m)	To (m)	Length (m)	Sample #	Comments
112.80	113.30	0.50	282457	Quartz Vein - quartz-carbonate in composition with 40% diffuse cb-chl altered wallrock, strongly fractured vn matte, numerous chl-cb seams/fractures in vn matte, < 1% py-cpy
113.30	113.75	0.45	282458	Quartz Vein - quartz-carbonate composition with 30% chl-cb wallrock, wk-mod fractured vn matte, <1% py-cpy
113.75	114.50	0.75	282459	Granodiorite - felsic to intermediate in composition with fd>qe, chl interstitial with wk cb, sub-porp texture, <1% qs, <1% py and non-magnetic
114.50	115.50	1.00	282461	Granodiorite - felsic to intermediate in composition with fd>qe, chl interstitial with wk cb, sub-porp texture, <1% qs, <1% py and non-magnetic
115.50	116.50	1.00	282462	Granodiorite - felsic to intermediate in composition with fd>qe, chl interstitial with wk cb, sub-porp texture, <1% qs, <1% py and non-magnetic
116.50	117.50	1.00	282463	Granodiorite - felsic to intermediate in composition with fd>qe, chl interstitial with wk cb, sub-porp texture, <1% qs, <1% py and non-magnetic
117.50	118.15	0.65	282464	Granodiorite - felsic to intermediate in composition with fd>qe, chl interstitial with wk cb, sub-porp texture, <1% qs, <1% py and non-magnetic
118.15	118.40	0.25	282465	Quartz-Carbonate-Chlorite Veinlet/Diabase/QP - 10 cm wide quartz-carbonate-chlorite veinlet with mod cb and strong chl with 5% py associated with chl, xcut by 3 cm wide diabase dyke
118.40	119.00	0.60	282466	Tonalite-Granodiorite (QP) - felsic to intermediate in composition with weak hem, porp texture with 20% to 30% qe, <1% qs/qcs hairline fract, < 1% py and non-magnetic
119.00	120.00	1.00	282467	Tonalite-Granodiorite (QP) - felsic to intermediate in composition with weak hem, porp texture with 20% to 30% qe, <1% qs/qcs, < 1% py and weakly magnetic
120.00	121.00	1.00	282468	Tonalite-Granodiorite (QP) - felsic to intermediate in composition with weak to (moderate) hem, porp texture with 20% to 30% qe, <1% qs/qcs, 1% to local 2% scattered py and weakly magnetic
121.00	122.00	1.00	282469	Tonalite-Granodiorite (QP) - felsic to intermediate in composition with weak to (mod) hem, porp texture with 20% to 30% qe, <1% qs/qcs, < 1% py and weakly magnetic
128.00	128.90	0.90	282470	Tonalite-Granodiorite (QP)xcut by 15 cm wide Carbonate Altered Gabbro Dyke- QP is felsic to intermediate in composition with chl interstitial and weak to locally (mod) cb, porp texture with 20% to 30% qe, 1% qs, occasional py < 1% and non-magnetic
128.90	129.40	0.50	282471	Tonalite-Granodiorite (QP)xcut by 2-3 cm Qspy - felsic to intermediate in composition with chl interstitial and weak cb, porp texture with 20% to 30% qe, presence of 2-3 cm wide qs 10 from C.A. with 5% to 10% disseminated py, up to 1% py in wallrock, overall 1% py, non-magnetic
129.40	130.40	1.00	282473	Tonalite-Granodiorite (QP) - felsic to intermediate in composition with chl and ser interstitial and weak cb mainly in fract, porp texture with 20% to 30% qe, <1% qs, scattered py <1% and locally up to 1% in upper part of interval associated with chl interstitial, non-magnetic
146.00	146.70	0.70	282474	Sericitic Tonalite-Granodiorite (QP) - altered felsic to intermediate composition with mod to (strong) ser altered interstitial matrix about fragmented qe, porp texture, <1% qs/qcs and py, non-magnetic
146.70	147.10	0.40	282475	Tonalite-Granodiorite (QP) - felsic to intermediate in composition with wk-mod hem dusting, chl and wk cb interstitial and wk sil, porp texture, 2% to 4% qs, <1% py, weakly magnetic
147.10	148.20	1.10	282476	Gabbro - mafic composition with mod chl and wk-mod cb, mod sh, scattered qcs/cs parallel to sh, widely scattered py cubes < 1%, non-mangetic
148.20	148.40	0.20	282477	Tonalite-Granodiorite (QP) - pinkish gray color, felsic to intermediate in composition with moderate hematite dusting, chl-(cb) interstitial about 20% to 30% bluish quartz-eyes > feldspar, porphyritic texture, 1% qs, scattered cg poikiloblastic pyrite cubes porphyroblasts (1%), strongly magnetic with disseminated and fractures of magnetite.
148.40	149.10	0.70	282478	Gabbro - mafic composition with mod chl and strong pervasive cb, wk sh, scattered qcs/cs parallel to sh, w and massive appearance, < 1% qcs/cs, <1% py, non-mangetic
149.10	149.30	0.20	282479	Quartz Veinlets and Gabbro - mafic composition with mod chl-cb wallrock, xcut by two qs/qcs up to 7 cm wide which account for 65% of the interval with numerous chl-cb seams in vn matte, occasional py <1%, non-magnetic
149.30	150.20	0.90	282480	Tonalite-Granodiorite (QP) - felsic to intermediate in composition with moderate hem dusting, chl and wk cb interstitial matrix, porp texture, <1% qs and py, moderately magnetic
150.20	151.20	1.00	282481	Tonalite-Granodiorite (QP) - felsic to intermediate in composition with moderate hem dusting, chl and wk cb interstitial matrix, porp texture, <1% qs and py, moderately magnetic

IAMGOLD CORPORATION

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number: **WAT17-07** Project: **TAAC** Project Number: **259**

From (m)	To (m)	Length (m)	Sample #	Comments
151.20	152.20	1.00	282482	Tonalite-Granodiorite (QP) - felsic to intermediate in composition with moderate hem dusting, chl and wk cb interstitial matrix, porp texture, <1% qs and py, moderately magnetic
152.20	152.80	0.60	282483	Tonalite-Granodiorite (QP) - felsic to intermediate in composition with moderate hem dusting, chl and wk cb interstitial matrix, porp texture, <1% qs and py, moderately magnetic
152.80	153.35	0.55	282485	Tonalite-Granodiorite (QP) - felsic to intermediate in composition with chl and wk cb interstitial matrix, wk to non-hem, porp texture, <1% qs and py, weakly magnetic
153.35	153.90	0.55	282486	Gabbro - mafic composition with mod-strong chl and cb, mod sh, 2% to 3% qcs/cs parallel to sh, occasional py < 1%, non-magnetic
153.90	154.45	0.55	282487	Gabbro - mafic composition with mod-strong chl and cb, mod sh, <1% qcs/cs parallel to sh, occasional py < 1%, non-magnetic
154.45	155.00	0.55	282488	Quartz Vein - qtz-(cb) composition with numerous 40% strong chl-(wk cb) wr, < 1% py
155.00	155.50	0.50	282489	Quartz Vein - qtz-(cb) composition with numerous 35% strong chl-(wk cb) wr, < 1% py
155.50	156.00	0.50	282490	Quartz Vein - qtz-(cb) composition with numerous 25% strong chl wr with increased cb>chl wr towards 156, < 1% py
156.00	156.80	0.80	282491	Quartz Vein - qtz-(cb) composition with numerous 15% strong cb>chl wr (diffuse boundaries), < 1% localized py in wr
156.80	157.50	0.70	282492	Fractured Tonalite-Granodiorite (QP) - mod sil-hem with increased sil associated with 10% to 15% qs, relict porp texture, <1% yp and wk-mod magnetic
157.50	158.70	1.20	282493	Tonalite-Granodiorite (QP) - felsic to intermediate composition with mod hem, porp texture, <1% qs/qcs and <1% py and wk-mod magnetic
158.70	159.20	0.50	282494	Chlorite-(Carbonate) Shear - strongly chl with wk cb, strongly sh and fractured with 40% qcs/qcv up to 15 cm wide, occasional py < 1%
159.20	159.70	0.50	282495	Chlorite-(Carbonate) Shear - strongly chl and cb with strong C and S fabrics and horsetails, <1% qcs and py
159.70	160.20	0.50	282497	Silicified QP and Chlorite-(Carbonate) Shear - strong sil of QP and sh and strong chl with cb sheared gabbro, 10% qcs at lower contact with occasional qcs/qcs in sil sil QP, occasional py < 1%
160.20	161.00	0.80	282498	Sericitic Tonalite-Granodiorite (QP) - altered felsic to intermediate in composition with strong ser interstitial, wk cb, porp texture, < 1% qs/qcs, < 1% py
161.00	162.00	1.00	282499	Sericitic Tonalite-Granodiorite (QP) - altered felsic to intermediate in composition with strong ser interstitial, wk cb, porp texture, 1% to 3% qs/qcs, < 1% py
162.00	163.00	1.00	282500	Sericitic Tonalite-Granodiorite (QP) - altered felsic to intermediate in composition with strong ser interstitial, mod sil in matrix and cb, porp texture, 1% to 2% qs/qcs, scattered up to 1% py
163.00	164.00	1.00	282501	Sericitic Tonalite-Granodiorite (QP) - altered felsic to intermediate in composition with strong ser interstitial, wk cb, porp texture, < 1% qs/qcs, < 1% py
164.00	164.70	0.70	282502	Sericitic Tonalite-Granodiorite (QP) - altered felsic to intermediate in composition with strong ser interstitial, wk cb, porp texture, scattered qs/qcs and local sh (2% to 3%), < 1% py
164.70	165.40	0.70	282503	Sericitic Tonalite-Granodiorite (QP) - altered felsic to intermediate in composition with strong ser interstitial, wk cb, porp texture, < 1% qs/qcs, < 1% py
165.40	165.70	0.30	282504	Silicified Tonalite-Granodiorite (QP) - strong bleached grayish wite intense sil, vfg and aphanitic, relict sh fabric and vfg, 1% to 3% qcs/qs parallel to sh, occasional py < 1%
165.70	166.70	1.00	282505	Silicified-Sericitic Tonalite-Granodiorite (QP) - wk to mod sil and strong ser interstitial altered matrix, relict porp texture, <1% qs and py
166.70	167.70	1.00	282506	Silicified-Sericitic Tonalite-Granodiorite (QP) - wk to mod sil and strong ser interstitial altered matrix, relict porp texture, <1% qs and py
167.70	168.70	1.00	282507	Sericitic Tonalite-Granodiorite (QP) - wk sil and strong ser interstitial altered matrix, porp texture, <1% qs and py
173.90	174.40	0.50	282508	Granodiorite-Tonalite - felsic to intermediate in composition with wk hem and cb, porp texture, local chl sh, <1% qcs/qs, <1% py and weakly magnetic
174.40	174.70	0.30	282509	Granodiorite-Tonalite - felsic to intermediate in composition with wk to (mod) hem and cb, porp texture, local chl sh, <1% qcs/qs, overall<1% py with 2 cm wide 10% py mod magnetic

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number: **WAT17-07** Project: **TAAC** Project Number: **259**

From (m)	To (m)	Length (m)	Sample #	Comments
174.70	175.20	0.50	282510	Granodiorite-Tonalite - felsic to intermediate in composition with wk to (mod) hem and cb, porp texture, local chl sh, <1% qcs/qs,l<1% py and mod magnetic

DRILL HOLE REPORT

Hole Number: **WAT17-08A** Project: **WATERSHED EAST** Project Number: **259**

Drilling		Casing		Core		Location		Other	
Azimuth:	30	**Length:**	1.3	**Dimension:**	NQ	**Claim No.:**	100408, 163531	**Company:**	IAMGOLD
Dip:	-55	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	243	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Stephen Roach
Started:	12-Nov-17	**Cemented:**	no	**Hole Type**	DDH	**Section:**	81+50E	**Surveyed:**	yes
Completed:	14-Nov-17	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	Larry Labelle
Logged:	12-Nov-17	**Making water:**	no	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: North Shear

Comment: southeast strike and down-plunge extension of North Shear with values of 1.31 g/t Au / 3.16m including 5.89 g/t Au./ 1.0m; widest part of ankerite-siderite alteration zone on the North Shear Zone up to 40 meters wide with thick areas of strongly disseminated sulphide between 5 and 10 meters (1.76 g/t Au to 5.89 g/t Au), part of 800 meter long continuous chargeability zone

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	435947.16	**East:**	435947.16	**East:**	0
North:	5267918.79	**North:**	5267918.79	**North:**	0
Elev.:	392.83	**Elev.:**	392.83	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
0.00	29.80	-56.30				57207	M	☑	Strong magnetics
3.00	31.00	-56.30				56554	M	☑	
6.00	30.50	-56.30				56542	M	☑	
9.00	30.30	-56.30				56558	M	☑	
12.00	30.50	-56.40				56555	M	☑	
14.00	31.00	-56.30				55578	S	☑	Surrounding magnetics
15.00	30.20	-56.30				56522	M	☑	
18.00	30.50	-56.30				56529	M	☑	
21.00	30.70	-56.40				56054	M	☑	
24.00	31.00	-56.20				55758	M	☑	
27.00	31.80	-56.30				55580	M	☑	
30.00	32.80	-56.20				55521	M	☑	
33.00	33.40	-56.10				55819	M	☑	
42.00	33.10	-56.10				55570	M	☑	
45.00	32.60	-55.80				55218	M	☑	

DRILL HOLE REPORT

Hole Number: **WAT17-08A** Project: **WATERSHED EAST** Project Number: **259**

Drilling		Casing		Core		Location		Other	
Azimuth:	30	**Length:**	1.3	**Dimension:**	NQ	**Claim No.:**	100408, 163531	**Company:**	IAMGOLD
Dip:	-55	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	243	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Stephen Roach
Started:	12-Nov-17	**Cemented:**	no	**Hole Type**	DDH	**Section:**	81+50E	**Surveyed:**	yes
Completed:	14-Nov-17	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	Larry Labelle
Logged:	12-Nov-17	**Making water:**	no	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: North Shear

Comment: southeast strike and down-plunge extension of North Shear with values of 1.31 g/t Au / 3.16m including 5.89 g/t Au./ 1.0m; widest part of ankerite-siderite alteration zone on the North Shear Zone up to 40 meters wide with thick areas of strongly disseminated sulphide between 5 and 10 meters (1.76 g/t Au to 5.89 g/t Au), part of 800 meter long continuous chargeability zone

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	435947.16	**East:**	435947.16	**East:**	0
North:	5267918.79	**North:**	5267918.79	**North:**	0
Elev.:	392.83	**Elev.:**	392.83	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
48.00	30.40	-55.90				54285	M	☑	
50.00	30.60	-56.00				55330	S	☑	
51.00	31.30	-56.00				53571	M	☑	
57.00	30.50	-56.10				56208	M	☑	Strong magnetics
60.00	30.60	-56.00				55542	M	☑	
63.00	34.20	-55.80				54358	M	☑	
66.00	34.10	-55.80				54158	M	☑	
69.00	32.80	-55.70				54549	M	☑	
72.00	31.20	-55.90				54924	M	☑	
75.00	32.50	-55.70				54661	M	☑	
78.00	32.00	-55.60				54977	M	☑	
81.00	31.10	-55.60				54865	M	☑	
84.00	31.10	-55.60				55008	M	☑	
87.00	31.20	-55.50				55001	M	☑	
90.00	31.10	-55.60				54914	M	☑	
93.00	31.90	-55.50				54709	M	☑	

DRILL HOLE REPORT

Hole Number: **WAT17-08A** Project: **WATERSHED EAST** Project Number: **259**

Drilling		Casing		Core		Location		Other	
Azimuth:	30	**Length:**	1.3	**Dimension:**	NQ	**Claim No.:**	100408, 163531	**Company:**	IAMGOLD
Dip:	-55	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	243	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Stephen Roach
Started:	12-Nov-17	**Cemented:**	no	**Hole Type**	DDH	**Section:**	81+50E	**Surveyed:**	yes
Completed:	14-Nov-17	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	Larry Labelle
Logged:	12-Nov-17	**Making water:**	no	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: North Shear

Comment: southeast strike and down-plunge extension of North Shear with values of 1.31 g/t Au / 3.16m including 5.89 g/t Au./ 1.0m; widest part of ankerite-siderite alteration zone on the North Shear Zone up to 40 meters wide with thick areas of strongly disseminated sulphide between 5 and 10 meters (1.76 g/t Au to 5.89 g/t Au), part of 800 meter long continuous chargeability zone

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
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North:	5267918.79	**North:**	5267918.79	**North:**	0
Elev.:	392.83	**Elev.:**	392.83	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
96.00	36.50	-55.50				54634	M	☑	
101.00	32.10	-55.30				54949	S	☑	
102.00	31.40	-55.30				54532	M	☑	
105.00	32.50	-55.30				55368	M	☑	
111.00	31.30	-55.20				55087	M	☑	
114.00	32.50	-55.20				55041	M	☑	
117.00	32.30	-55.20				55345	M	☑	
120.00	32.50	-55.00				55142	M	☑	
123.00	32.60	-55.00				55269	M	☑	
126.00	33.00	-54.80				55408	M	☑	
129.00	31.60	-54.80				54895	M	☑	
132.00	32.90	-54.80				54680	M	☑	
135.00	34.90	-54.60				55267	M	☑	
138.00	32.30	-54.70				55146	M	☑	
141.00	32.50	-54.70				55411	M	☑	
144.00	31.90	-54.60				55070	M	☑	

DRILL HOLE REPORT

Hole Number: **WAT17-08A** Project: **WATERSHED EAST** Project Number: **259**

Drilling		Casing		Core		Location		Other	
Azimuth:	30	**Length:**	1.3	**Dimension:**	NQ	**Claim No.:**	100408, 163531	**Company:**	IAMGOLD
Dip:	-55	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	243	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Stephen Roach
Started:	12-Nov-17	**Cemented:**	no	**Hole Type**	DDH	**Section:**	81+50E	**Surveyed:**	yes
Completed:	14-Nov-17	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	Larry Labelle
Logged:	12-Nov-17	**Making water:**	no	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: North Shear

Comment: southeast strike and down-plunge extension of North Shear with values of 1.31 g/t Au / 3.16m including 5.89 g/t Au./ 1.0m; widest part of ankerite-siderite alteration zone on the North Shear Zone up to 40 meters wide with thick areas of strongly disseminated sulphide between 5 and 10 meters (1.76 g/t Au to 5.89 g/t Au), part of 800 meter long continuous chargeability zone

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Elev.:	392.83	**Elev.:**	392.83	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
147.00	32.40	-54.60				55147	M	☑	
150.00	32.60	-54.50				55158	M	☑	
152.00	32.30	-54.50				54986	S	☑	
153.00	32.80	-54.50				55231	M	☑	
156.00	32.30	-54.50				55293	M	☑	
159.00	32.50	-54.30				55289	M	☑	
162.00	32.70	-54.30				55295	M	☑	
165.00	32.60	-54.40				55315	M	☑	
168.00	33.10	-54.20				55342	M	☑	
171.00	32.70	-54.40				55328	M	☑	
174.00	32.80	-54.30				55359	M	☑	
177.00	32.80	-54.30				55378	M	☑	
180.00	33.20	-54.10				55303	M	☑	
183.00	33.10	-54.30				55416	M	☑	
186.00	33.10	-54.20				55190	M	☑	
189.00	33.60	-54.20				54383	M	☑	

DRILL HOLE REPORT

Hole Number: **WAT17-08A** Project: **WATERSHED EAST** Project Number: **259**

Drilling		Casing		Core		Location		Other	
Azimuth:	30	**Length:**	1.3	**Dimension:**	NQ	**Claim No.:**	100408, 163531	**Company:**	IAMGOLD
Dip:	-55	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	243	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Stephen Roach
Started:	12-Nov-17	**Cemented:**	no	**Hole Type**	DDH	**Section:**	81+50E	**Surveyed:**	yes
Completed:	14-Nov-17	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	Larry Labelle
Logged:	12-Nov-17	**Making water:**	no	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: North Shear

Comment: southeast strike and down-plunge extension of North Shear with values of 1.31 g/t Au / 3.16m including 5.89 g/t Au./ 1.0m; widest part of ankerite-siderite alteration zone on the North Shear Zone up to 40 meters wide with thick areas of strongly disseminated sulphide between 5 and 10 meters (1.76 g/t Au to 5.89 g/t Au), part of 800 meter long continuous chargeability zone

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Elev.:	392.83	**Elev.:**	392.83	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
192.00	33.60	-54.20				55200	M	☑	
195.00	32.80	-54.20				54902	M	☑	
198.00	32.90	-54.00				55287	M	☑	
200.00	33.10	-54.00				55161	S	☑	
201.00	33.20	-54.00				55392	M	☑	
204.00	33.90	-54.00				54892	M	☑	
207.00	32.60	-54.00				54792	M	☑	
210.00	34.60	-53.90				55445	M	☑	
213.00	32.90	-54.00				55557	M	☑	
216.00	33.30	-54.00				55204	M	☑	
219.00	35.80	-53.90				56269	M	☑	
222.00	32.20	-53.90				55213	M	☑	
225.00	33.10	-53.90				55180	M	☑	
228.00	33.20	-53.90				55168	M	☑	
231.00	33.40	-53.80				55188	M	☑	
234.00	33.60	-53.50				55122	M	☑	

DRILL HOLE REPORT

Hole Number: **WAT17-08A** Project: **WATERSHED EAST** Project Number: **259**

Drilling		Casing		Core		Location		Other	
Azimuth:	30	**Length:**	1.3	**Dimension:**	NQ	**Claim No.:**	100408, 163531	**Company:**	IAMGOLD
Dip:	-55	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	243	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Stephen Roach
Started:	12-Nov-17	**Cemented:**	no	**Hole Type**	DDH	**Section:**	81+50E	**Surveyed:**	yes
Completed:	14-Nov-17	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	Larry Labelle
Logged:	12-Nov-17	**Making water:**	no	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: North Shear

Comment: southeast strike and down-plunge extension of North Shear with values of 1.31 g/t Au / 3.16m including 5.89 g/t Au./ 1.0m; widest part of ankerite-siderite alteration zone on the North Shear Zone up to 40 meters wide with thick areas of strongly disseminated sulphide between 5 and 10 meters (1.76 g/t Au to 5.89 g/t Au), part of 800 meter long continuous chargeability zone

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Elev.:	392.83	**Elev.:**	392.83	**Elev.:**	0

Deviation Tests

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
237.00	33.90	-53.50				55111	M	☑	
240.00	33.80	-53.50				55110	M	☑	
242.00	34.20	-53.60				55044	S	☑	
243.00	34.40	-53.50				55081	M	☑	

Density Tests

LITHOLOGY REPORT
- Detailed -

Hole Number **WAT17-08A** Project: **WATERSHED EAST** Project Number: **259**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
0.00	1.75	**Overburden** **OB** ***Overburden***	4	4	BR									
		Overburden - silty-clay and boulders (3.0 m of casing)												
1.75	9.70	**Fresh Rock** **8L** ***Granodiorite-Tonalite-Trondjhemite (In-***	1	1	GG									
		Granodiorite/Tonalite/Quartz Porphyry Intrusive-Magmatic Breccia - greenish gray, gray, and grayish green colors, intermediate composition with weak to moderate chlorite and carbonate in the interstitial matrix, relict patchy epidote alteration from 1.75 to 2.70 and bleached grayish-white strong pervasive carbonate with silicification alteration from 9.3 to 9.7, fg to mg (up to 0.3 cm in size) being felsdphyric>quartz-eyes (<5%) giving a sub-porphyritic texture.												
		- numerous wispy and diffuse, sub-rounded gabbroic inclusions up to 13 cm in size…..assimilated CIC with more chlorite, reflecting to a more intermediate composition, weakly foliated gabbroic inclusions varying 50 to 60 from C.A., occasional thin calcite stringers < 1%												
		Mineralization - occasional py <0.5% and patchy weak to moderately magnetic with increased magnetite associated with gabbroic inclusions Contact - gradational contact												

Alteration Maj:	*Type/Style/Intensity*	*Comment*
1.75 - 2.70	CB PV 5	Carbonatization, Pervasive, Intense
1.75 - 2.70	CL IS 3	Chloritization, Interstitial, Moderate
1.75 - 2.70	EP SPT 3	Epidotization, Spotty/Patchy, Moderate
2.70 - 9.30	CB IS	Carbonatization, Interstitial
2.70 - 9.30	CL IS	Chloritization, Interstitial
9.30 - 9.70	CB IS 2	Carbonatization, Interstitial, Weak
9.30 - 9.70	CL IS 2	Chloritization, Interstitial, Weak
9.30 - 9.70	SI MX 4	Silicification, Matrix, Strong

Hole Number **WAT17-08A** Project: **WATERSHED EAST** Project Number: **259**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		1.75 - 9.70 Py BLB 0.5 Pyrite, Blebs,<1%												
9.70	20.70	**Fresh Rock** **7C** ***Gabbro***	1	1	GR	455501	19.70	20.20	0.50	0	-	0.01	-	-
						455502	20.20	20.70	0.50	0	-	0.01	-	-
		Gabbro - green to dark green color, mafic in composition with moderate chlorite and carbonate with numerous carbonate (calcite) bands from 14.6 to 20.6 with calcite bands up to 3 cm wide; chl-cb products from regional metamorphic alteration of amphIboles.												
		- vfg to fg massive appearance and weak to locally moderately foliated varying 35 to 54 from C.A., scatterd cs and qcs up to 5% and up to 2 cm wide with irregular and random fracture pattern.												
		Mineralization - occasional vfg py < 0.5% with weak to non-magnetic Contact - gradational contact												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		9.70 - 20.70 Py BLB 0.5 Pyrite, Blebs, <1%												
20.70	28.90	**Fresh Rock** **8E** ***Quartz Diorite-Diorite***	1	1	GG	455503	20.70	21.00	0.30	0	-	0.01	-	-
						455504	21.00	21.50	0.50	0	-	0.01	-	-
						455505	21.50	22.00	0.50	0	-	0.01	-	-
						455506	22.00	23.00	1.00	0	-	0.01	-	-
		Porphyritic Quartz-Diorite/Diorite- grayish green, green and pistachio lt greenish gray color, intermediate to mafic in composition being feldsphyric with 25%to 35% fg to mg (up to 0.25 cm) crowded albite phenocrystsn with weak to moderate epidote and sauss, alteration of feldspar, <5% to locally 10% qe with gradational decrease in qe (<1% to 5%) from 27.9 to 28.9.												
		- porphritic texture, 5% scattered and rounded gabbroic rafts/xenoliths up to 6 cm in size reflecting stoping and assimilation of gabbro, scattered qsd/qcs <5 to 10 cm in width ranging from 45 to 90 from C.A..												
		Mineralization - occasional py <0.5% and moderately magnetic with 2% vfg disseminated magnetite Contact - sharp contact 40 from C.A.												

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)

Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***

20.70 - 28.90 Py BLB 0.5 Pyrite, Blebs,<0.5%

28.90 33.65 **Fresh Rock** **7C** ***Gabbro*** 1 1 GR

Gabbro - green to dark green color, mafic composition with 30% to 35% disseminated vfg to fg albite phenocrysts in a vfg mod chl-(ep) matrix, weak to locally moderate carbonate (calcite).

- equigranular to sub-porphyritic texture, local CIC dykes up to 5 cm wide 44 from C.A., <1% qs/qcs

Mineralization - occasional vfg py < 1% and moderate to strongly magnetic from 28.9 to 31.8 and weak to locally moderate magnetic from 31.65 to 33.65
Contact - sharp diffuse contact 25 from C.A.

Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***

28.90 - 33.65 Py BLB 0.5 Pyrite, Blebs, <1%

33.65 35.30 **Fresh Rock** **8L** ***Granodiorite-Tonalite-Trondjhemite (In-*** 1 1 GG

Granodiorite-Tonalite-Trondjhemite (In-Situ) Magmatic Breccia - green and light greenish gray to gray color, 50:50 GTT and gabbro with GTT intermediate composition with assimilation and increased chl and weak to locally moderate cb, local hem at lower contact, vfg to fg gabbroic component is mafic composition with relict equigranular texture reflecting larger rafts up to 0.5 meters wide.

- numerous gabbroic rafts/xneoliths, sub-porphyritic texture of GTT, <1% qcs/qs

Mineralization - <0.5% occasional vfg py bleb and weak to moderately magnetic with increase in magnetite in gabbro inclusions

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Contact - sharp contact 53 from C.A.												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		33.65 - 35.30 Py BLB 0.5 Pyrite, Blebs, <0.5%												
35.30	39.40	**Fresh Rock** **7C** ***Gabbro***	1	1	GR	455507	37.15	37.65	0.50	0	-	0.01	-	-
		Gabbro - green to dark green color, mafic composition with moderate chlorite and weak to locally moderate carbonate, vfg and massive with 2% to 5% scattered thin calcite fractures up to 1 cm wide…local qs.				455508	37.65	38.20	0.55	0	-	0.01	-	-
						455509	38.20	38.60	0.40	0	-	0.03	-	-
		Mineralization - occasional vfg py (<1%) with significant increase in sulphide from 38.2 to 39.0 with 5% disseminated py in fractures with occasional cpy <0.5% in more chl altered…no calcite; weak to moderately magnetic with decrease in magnetite associated with increased pyrite content from 38.2 to 39.0				455510	38.60	39.00	0.40	0	-	0.01	-	-
						455511	39.00	39.40	0.40	0	-	0.01	-	-
		Contact - sharp irregular contact 20 from C.A. with numerous/swarm CIC dykelets up to 2.5 cm wide.												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		35.30 - 38.20 Py BLB 0.5 Pyrite, Blebs, <0.5%												
		38.20 - 39.00 Py FAC 5 Pyrite, Fracture-controlled, 5%												
		39.00 - 39.40 Py BLB 0.5 Pyrite, Blebs, <0.5%												
39.40	53.40	**Fresh Rock** **8L** ***Granodiorite-Tonalite-Trondjhemite (In-***	1	1	GG	455513	39.40	40.40	1.00	0	-	0.01	-	-
		Granodiorite-Tonalite-Trondjhemite (In-Situ) Magmatic Breccia - both light gray to greenish gray, and green colors, felsic to intermediate in composition with 20% to 30% fg to mg albite phenocrysts and 5%												

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)

to 15% blue quartz eyes, weak carbonate in GTT with variable weak to moderate cb in gabbro, mod to locally strong epidote alteration of feldspars from 39.4 to 46.0.

- porphyritic texture with numerous vfg gabbroic rafts and inclusions (mafic, vfg, and mod chl/wk cb) varying 7 to 62 cm in size…sub-rounded in shape and comprise of 30% to 35% of the interval, locally foliated 50 from C.A. with highly variable clast C.A. 15 to 85 from C.A., widely scattered qs/qcs (,1% to 2%) with local tourmaline….vn matte up to 5 cm wide.

Mineralization - occasional to locally widely scattered vfg to fg py <1%, moderately magnetic from 39.4 to 44 becoming weak to locally moderately magnetic to 53.4, occurs as vfg disseminated magnetite grains

Contact - sharp, diffuse contact 50 from C.A.

Mineralization Maj. :	Type/Style/%Mineral	Comment
39.40 - 53.40	Py BLB 0.5	Pyrite, Blebs,<0.5%

53.40	63.30	**Fresh Rock** **7C** ***Gabbro***		1	1	GR								

Gabbro - green to dark green color, mafic composition being melanocratic with moderate chl and weak to moderate carbonate as a result in the metamorphic alteration of amphiboles and feldspars, vfg to fg and massive appearance.

- massive appearnace with local foliation 61 from C.A. at 62.4, numerous carbonate bands irregularly oriented up to 3 cm wide… scattered qcs/cs up to 5 cm wide and ranging <1% to 2%

Mineralization - widely scattered vfg py (<1%) and occasional cpy < 0.5%, overall weakly magnetic with locally moderate magnetic
Contact - gradational contact

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
63.30	67.95	**Fresh Rock** **8D** ***Granodiorite-Monzodiorite/Tonalte/QP***	1	1	GG									

Granodiorite-Tonalite-Quartz Porphyry - light to moderate gray, whitish-gray, and pinkish gray colors, felsic to intermediate in composition with weak to moderate carbonate alteration, increase in hem stain from 66.45 to 67.95, overall fg to cg (0.40 cm) blue quartz-eyes (20% to 25%) and feldspar (15% to 20%) tightly packed in a chloritic-(carbonate) matrix.

- porphyritic texture with grain size to vfg (<0.05 cm) reduction in strongly sheared section from 64.35 to 65.0 (43-48 from C.A) and from 67.5 to 67.95 (20 to 30 from C.A…..possible flt breccia with increased ser in matrix), <1% qs/qcs

Mineralization - occasional to widely scattered vfg py <1%, relative increase in py at lower contact, but still < 1%,weak to non-magnetic
Contact - sharp contact 45 from C.A., strongly sheared abd brecciated contact area from 67.5 to 67.95

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
63.30 - 67.95	Py BLB 0.5	Pyrite, Blebs, <1% with relative increase in py at lower contact, but still < 1%

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
67.95	71.60	**Fresh Rock** **7C** ***Gabbro***	1	1	GR									

Gabbro - green to darik green color, mafic composition with moderate chlorite and weak to moderate carbonate (calcite) with increase cb towards 71.6, vfg to fg (<0.10cm) white albite xtls varying 10% to 20% in a vfg chl-cb) matrix, massive appearance showing local sh/fol 49 to 60 from C.A., scattered thin qcs/cs ranging 2% to 3%.

Mineralization - occasional vfg py < 1% and weakly magnetic
Contact - gradational

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
67.95 - 71.60	Py BLB 0.5	Pyrite, Blebs, <1%

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
71.60	73.05	**Fresh Rock** **8L** ***Granodiorite-Tonalite-Trondjhemite (In-***	1	1	GG	455514	72.00	73.05	1.05	0	-	0.01	-	-
73.05	76.20	**Fresh Rock** **SH** ***Chlorite-(Ankerite-Silicified) Shear Zone***	1	1	GG	455515	73.05	74.00	0.95	0	-	0.02	-	-
						455516	74.00	75.00	1.00	0	-	0.01	-	-
						455517	75.00	75.95	0.95	0	-	0.05	-	-
						455518	75.95	76.20	0.25	1	-	0.64	-	-

Granodiorite-Tonalite-Trondjhemite (In-Situ) Magmatic Breccia - greenish gray to grayish green color, felsic to intermediate in composition with weak to moderate chl in interstitial matrix, weak to non carbonate (calcite), gabbroic inclusions are mod chl-(cb).

- numerous sh/foliated gabbroic inclusions (up to m7 cm in size), moderately sh/foliated 46 to 47 from C.A., 1% to 2% qcs/cs

Mineralization - occasional vfg py < 1%
Contact - gradational

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
71.60 - 73.05	Py BLB 0.5	Pyrite, Blebs, <1%

Chlorite-(Ankerite-Silicified) Shear Zone - greenish gray ang gray color, altered composition with moderate chl with ank-sil alteration in matrix, strongly sheared 45 to 50 from C.A, 10% qcs/cs with….

75.95 to 76.2 - Quartz-Carbonate Veinlet - qtz-cb composition with diffuse chl fractures and inclusions, sh/fract giving a pseudo-bx texture, sharp upper and lower contacts 50 from C.A.

Mineralization - occasional to widely scattered vfg py <0.5%
Contact - broken contact with 0.25m wide qcv 50 from C.A.

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
73.05 - 76.20	Py BLB 0.5	Pyrite, Blebs, <0.5% occasional to widely scattered

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
76.20	83.00	**Fresh Rock** **SH** ***Ankerite-Siderite Shear/Shear Zone***	1	1	GY

Ankerite-Siderite Shear/Shear Zone - light gray and gray with a beige/brownhue colors, altered composition with moderate to strong ank-sid with intense ank-sid from 79.3 to 83.0, strongly sheared texture ranging from 42 to 50 from C.A. with decreasing core angles towards 83.0, scattered thin qs (1% to 3%) up to 1 cm wide….qs show buckling and tight hinge fold nose varying 10 to 60 from C.A., extremely broken core from 76.2 to 77.8…flt with slickenslides/strongly sheared

Mineralization - occasional to widely scattered vfg py averaging <1% with local <3% to 5% py at 79.3 and 80.15, <0.5% cpy with more visible observations in some of the thin qs, weakly to non-magnetic
Contact - sharp and gradational increase in qs from 82.75

Mineralization Maj. :	Type/Style/%Mineral	Comment
76.20 - 79.30	Cpy BLB 0.5	Chalcopyrite, Blebs, <0.5%
76.20 - 79.30	Py BLB 0.5	Pyrite, Blebs,<1%
79.30 - 80.15	Cpy BLB 0.5	Chalcopyrite, Blebs, <0.5%
79.30 - 80.15	Py DIS 5	Pyrite, Disseminated, <3% to 5%
80.15 - 83.00	Cpy BLB 0.5	Chalcopyrite, Blebs, <0.5%
80.15 - 83.00	Py BLB 0.5	Pyrite, Blebs, <0.5%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
455519	76.20	77.00	0.80	0	-	0.03	-	-
455520	77.00	77.80	0.80	0	-	0.06	-	-
455521	77.80	78.80	1.00	0	-	0.17	-	-
455522	78.80	79.30	0.50	0	-	0.12	-	-
455523	79.30	79.80	0.50	0	-	0.01	-	-
455525	79.80	80.80	1.00	0	-	0.07	-	-
455526	80.80	81.70	0.90	0	-	0.02	-	-
455527	81.70	82.40	0.70	0	-	0.08	-	-
455528	82.40	83.00	0.60	0	-	0.04	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
83.00	84.30	**Fresh Rock** **QTS W** ***Quartz Stockwork***	1	1	GREG

Quartz Stockwork - greenish white, green, and white colors, altered composition with mod to strong sh-controlled ank-sid from 83.0 to 83.5 and mod chl-(ank) from 83.85 to 84.3, strongly sh 48 to 60 from C.A., strongly fractured with 35% to 40% quartz-(carbonate) veining with…..

83.5 to 83.85 - Quartz Vein - white with diffuse green fractures, strongly fractured vn matte with chl-ser fractures about pre-existing qtz…in-situ/cement breccia features, styolitic fractures at lower end of qv, 4 cm wide milky white qs, 2% to 3% vfg py-(aspy-cpy) generally occuring in the fracture cement…local coarser splash of aspy in xcutting milky-white qs, sharp lower contact with milky white qs 32 from C.A.

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
455529	83.00	83.50	0.50	0	-	0.23	-	-
455530	83.50	83.85	0.35	0	-	0.19	-	-
455531	83.85	84.30	0.45	1	-	0.82	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Mineralization - overall 5% vfg pyrite generally found along shear planes with increase in py (5% to 10%) associated with the more chloritic part of the interval from 83.85 to 84.3, occasional aspy and cpy < 0.5%, non-magnetic Contact - sharp decrease in qs and strongly sheared at contact 48 from C.A. ***Mineralization Maj. :*** ***Type/Style/%Mineral*** ***Comment*** 83.00 - 83.85 Cpy BLB 0.5 Chalcopyrite, Blebs, occasional<0.5% 83.00 - 83.85 Aspy BLB 0.5 Arsenopyrite, Blebs, occasional <0.5% 83.00 - 83.85 Py DIS 5 Pyrite, Disseminated, 5% 83.85 - 84.30 Cpy BLB 0.5 Chalcopyrite, Blebs, occasional <0.5% 83.85 - 84.30 Aspy BLB 0.5 Arsenopyrite, Blebs, occasional < 0.5% 83.85 - 84.30 Py DIS 10 Pyrite, Disseminated, 5% to 10%												
84.30	99.90	**Fresh Rock** **SH** ***Ankerite-Siderite Shear Zone***		1	1 LG	455532	84.30	84.70	0.40	2	-	1.86	-	-
		Ankerite-Siderite Shear Zone - light grayto gray color, altered composition with moderate to strong shear controlled ank-sid with increased sil-ank-sid) from 89.2 to 93.4, strongly sheared ranging from locally 32 to 62 from C.A. (average is 46.2 from C.A.), scattered qs up to 15 cm wide generally parallel to shearing.				455533	84.70	85.70	1.00	0	-	0.11	-	-
						455534	85.70	86.70	1.00	0	-	0.03	-	-
						455535	86.70	87.70	1.00	0	-	0.01	-	-
						455537	87.70	88.70	1.00	0	-	0.01	-	-
		Mineralization - occasional to scattered vfg py ranging from <1% to locally 5% (averaging 1% to 2%)…increase in pyrite (2% to 3%) from 96.0 to 99.45, pyrite occurs as vfg disseminated grains, occasional cpy-(aspy?) <0.5%, weakly to moderately magnetic with increase in magnetite associated with the more sil section from 89.2 to 93.4…magnetite occurs as vfg disseminations and occasionally as fracture-fill				455538	88.70	89.20	0.50	0	-	0.02	-	-
						455539	89.20	90.10	0.90	0	-	0.01	-	-
						455540	90.10	91.10	1.00	0	-	0.03	-	-
						455541	91.10	92.00	0.90	0	-	0.02	-	-
		Contact - gradational increase in quartz stringers				455542	92.00	93.00	1.00	0	-	0.02	-	-
						455543	93.00	93.65	0.65	0	-	0.00	-	-
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***				455544	93.65	94.50	0.85	0	-	0.01	-	-
		84.30 - 96.00 Cpy BLB 0.5 Chalcopyrite, Blebs, <0.5%				455545	94.50	95.50	1.00	0	-	0.00	-	-
		84.30 - 96.00 Aspy BLB 0.5 Arsenopyrite, Blebs,<0.5%												
		84.30 - 96.00 Py DIS 2 Pyrite, Disseminated,1% to 2% and locally up to 5%												

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From (m)	To (m)		Lithology		Weathering	Oxidation	Colour
		96.00 - 99.45	Cpy BLB 0.5	Chalcopyrite, Blebs,<0.5%			
		96.00 - 99.45	Aspy BLB 0.5	Arsenopyrite, Blebs, <0.5%			
		96.00 - 99.45	Py DIS 3	Pyrite, Disseminated, 2% to 3%			
		99.45 - 99.90	Py BLB 0.5	Pyrite, Blebs, <1%			
99.90	100.90	**Fresh Rock**	**QTCSW**	***Quartz-(Carbonate) Stockwork***	1	1	GY

Quartz-(Carbonate) Stockwork -moderate gray and white color, altered wallrock with moderate to strong chl-(ank-sid?) with very weak carbonate (calcite), strongly fractured with 25% qcs/qs generally parallel to strong shearing (38 to 50 from C.A.).

Mineralization - 5% vfg disseminated py-aspy throughout the wallrock and lesser in qcs/qs (1% to 2% py-aspy), <0.5% cpy
Contact - sharp contact 50 from C.A.

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
99.90 - 100.90	Cpy BLB 0.5	Chalcopyrite, Blebs, <0.5%
99.90 - 100.90	Aspy BLB 0.5	Arsenopyrite, Blebs, <0.5%
99.90 - 100.90	Py DIS 5	Pyrite, Disseminated, 5%

100.90	104.50	**Fresh Rock**	**14B**	***Diabase***	1	1	BLK

Diabase Dyke - black to dark blackish gray color, mafic composition being vfg and massive being jointed and fractured with thin calcite fractures.

Mineralization - local pyrite at upper contact from 100.9 to 101.0 (2% to 3% vfg py), but overall <1% py in the interval, moderately magnetic with vfg dissemnated magnetite in matrix.

Contact - sharp contact 40 from C.A

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
455546	95.50	96.00	0.50	0	-	0.00	-	-
455547	96.00	97.00	1.00	0	-	0.00	-	-
455549	97.00	98.00	1.00	0	-	0.00	-	-
455550	98.00	99.00	1.00	0	-	0.02	-	-
455551	99.00	99.45	0.45	0	-	0.06	-	-
455552	99.45	99.90	0.45	0	-	0.09	-	-
455553	99.90	100.35	0.45	0	-	0.04	-	-
455554	100.35	100.90	0.55	1	-	0.56	-	-
455555	100.90	102.00	1.10	0	-	0.01	-	-
455556	102.00	103.00	1.00	0	-	0.00	-	-
455557	103.00	104.50	1.50	0	-	0.00	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		100.90 - 104.50 Py BLB 0.5 Pyrite, Blebs,<1% with 2% to 3% py at upper contact from 100.9 to 101.0												
104.50	109.60	**Fresh Rock** **SH** ***Silicified-Ankerite-Siderite Shear***	1	1	GY	455558	104.50	105.00	0.50	1	-	0.88	-	-
		Silicified-Ankerite-Siderite Shear - light gray to gray color, altered composition with moderate to strong sil with ank-sid; both weak cb and carbonate (calcite), moderately sheared with local bands ranging from 40 to 51 from C.A., <1% to local 5% qs/qcs, averaging 2% to 3%.				455559	105.00	105.50	0.50	1	-	1.37	-	-
						455561	105.50	106.00	0.50	3	-	2.67	-	-
		Mineralization - vfg disseminated py ranging 2% to 10% with 5%-10% vfg disseminated py from 104.5 to 106.8 with 1% to 5% py from 106.8 to 109.6, gradational decrease in py towards 109.6, overall py average of the interval is approximately 5%, occasional cpy-(aspy?) < 0.5%				455562	106.00	106.80	0.80	2	-	2.15	-	-
						455563	106.80	107.80	1.00	1	-	0.65	-	-
		Contact - gradational decrease in pyrite and silicification				455564	107.80	108.50	0.70	0	-	0.02	-	-
						455565	108.50	109.00	0.50	0	-	0.04	-	-
						455566	109.00	109.60	0.60	0	-	0.01	-	-
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		104.50 - 106.80 Cpy BLB 0.5 Chalcopyrite, Blebs, <0.5%												
		104.50 - 106.80 Aspy BLB 0.5 Arsenopyrite, Blebs, <0.5%												
		104.50 - 106.80 Py DIS 10 Pyrite, Disseminated, 5% to 10%												
		106.80 - 109.60 Cpy BLB 0.5 Chalcopyrite, Blebs, <0.5%												
		106.80 - 109.60 Aspy BLB 0.5 Arsenopyrite, Blebs, <0.5%												
		106.80 - 109.60 Py DIS 3 Pyrite, Disseminated, 1% to 5%												

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
109.60	129.30	**Fresh Rock** **8L** ***Silicified Granodiorite-Tonalite-Trondjh***	1	1	LG

Silicified Granodiorite-Tonalite-Trondjhemite (In-Situ) Magmatic Breccia - light gray to gray, greenish gray, and grreen colors, felsic to intermediate in composition with mod sil from 109.6 to 115.8 gradual decreasing with depth, mainly vfg quartz-feldspathic with coarser varieties with fg to mg (<0.3cm) 5% to 10% qe giving a porphritic texture

- numerous wide intervals (up to 2.4 meters wide) of vfg gabbroic (mafic composition with moderate to local stronger chl, vfg/msv), weakly to moderately foliated ranging from 35 to 51 from C.A. averging 44 from C.A…….increase in sh from 128.7 to 129.3 with stronger chl, scattered qs/qcs up to 10 cm wide ranging <1% to locally 5%.

Mineralization - occasional to widely scattered py <1%, weakly to locally moderately magnetic
Contact - sharp, sheared contact 15 from C.A.

Mineralization Maj. :	Type/Style/%Mineral	Comment
109.60 - 129.30	Py BLB 0.5	Pyrite, Blebs, <1%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
455567	109.60	110.60	1.00	0	-	0.00	-	-
455568	110.60	111.60	1.00	0	-	0.00	-	-
455569	127.70	128.70	1.00	0	-	0.02	-	-
455570	128.70	129.30	0.60	0	-	0.00	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
129.30	130.90	**Fresh Rock** **14B** ***Diabase Dyke***	1	1	BLK

Diabase Dyke - black color, mafic composition being vfg and massive with calcite fractures and numerous joints, skipping in and out of wallrock from 129.3 to 129.75 with 5% calcite fractures.

Mineralization - occasional to widely scattered py <1%, moderately to strongly magnetic
Contact - sharp contact 59 from C.A.

Mineralization Maj. :	Type/Style/%Mineral	Comment
129.30 - 130.90	Py BLB 0.5	Pyrite, Blebs, <1% occasional to widely scattered

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
455571	129.30	129.80	0.50	0	-	0.00	-	-
455573	129.80	130.90	1.10	0	-	0.01	-	-

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
130.90	140.10	**Fresh Rock** **SH** ***Chlorite-Ankerite-Silicified Shear***	1	1	GREG

Chlorite-Ankerite-Silicified Shear- greenish-gray, bleached grayish white to light gray, gray, and green/dark green variety of colors, variety and variable alteration of GTT and gabbro from….

139.9 to 133.3 - chlorite-ankerite with silicified-ankerite bands up to 20 to 25 cm wide accounting for 20% to 25%
133.3 to 135.0 - moderate to strong ankerite-siderite-(silicified) with silicified occurring as thin bands/laminations
135.0 to 136.7 - moderate to strong chlorite-ankerite-(silicified) with silicified areas occurring as silicifed bands up to 39 cm wide acounting for 25% to 30%
136.7 to 140.1 - strong bleached white silicifed bands (30%) with moderate chlorite-(ankerite) alteration, sil bands up to 15 cm wide and generally occur within or the margins of the quartz veining.

- strongly sheared ranging from 35 to 50 from C.A. averaging 43 from C.A., scattered qs/qcs generally parallel to sh and varying <1% to locally 10% with increased veining from 133.3 to 136.7 averaging 4% to 8%.

Mineralization - occasional to widely scattered vfg py with overall average <1% with local 1% to 2% pyrite
Contact - sharp sheared contact with a silicified CIC 47 from C.A.

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
130.90 - 140.10	Py DIS 0.5	Pyrite, Disseminated, average <1% and locally 1% to 2%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
455574	130.90	131.30	0.40	0	-	0.01	-	-
455575	131.30	132.10	0.80	0	-	0.01	-	-
455576	132.10	132.55	0.45	0	-	0.01	-	-
455577	132.55	133.30	0.75	0	-	0.01	-	-
455578	133.30	134.00	0.70	0	-	0.01	-	-
455579	134.00	135.00	1.00	0	-	0.02	-	-
455580	135.00	135.45	0.45	0	-	0.04	-	-
455581	135.45	135.90	0.45	0	-	0.08	-	-
455582	135.90	136.70	0.80	0	-	0.01	-	-
455583	136.70	137.00	0.30	0	-	0.01	-	-
455585	137.00	137.70	0.70	0	-	0.01	-	-
455586	137.70	138.70	1.00	0	-	0.01	-	-
455587	138.70	139.40	0.70	0	-	0.01	-	-
455588	139.40	140.00	0.60	0	-	0.01	-	-

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
140.10	210.80	**Fresh Rock** **7C** ***Melanocratic & Leucocratic Gabbro***	1	1	GR

Melanocratic & Leucocratic Gabbro (80% Cross-Cut by Porphyritic Granodiorite/Tonalite/QFP/FP Dykes (20%) - green to dark green, pinkish gray and gray colors, gabbro is mafic in composition with weak to moderate chlorite, part of a layered intrusive with the dominant being melanocratic with sub-equigranular amp (40% to 60%)>fd (30% to 35%) with 5% to 10% coarser albitic xenocrysts (5%), coarser fd-rich unit from 182.65 to 185.75 with 25% to 35% fg to mg (up to 0.3cm insize) in an vfg ferromagnesian amp-chl matrix with up to 1% to 5% quartz eyes……porphyritic texture with gradational upper contact and sharp lower contact 50 from C.A.

- numerous GTT dykes with crowded feldspar porphyry being the dominant dyke, felsic to intermediate in composition with 25% to 40% vfg to mg fd and up to 5% qe (locally 10% to 15%), porphyritic texture, major sections from…

152.3 to 157.95 - 30% to 35% GTT dykes up to 0.45m wide
160.2 to 165.2 - 20% thin dykes up to 0.50m wide, well developed breccia from 162.25 to 163.25 with rounded gabbroic inclusions up to 10 cm in size.
172.25 to 178.3 - 25% GTT dykes up to 0.5 meters wide with local breccia with gabbro inclusions.xenoliths
189.4 to 207.8 - 15% to 20% GTT up tom0.73m wide, dominated by FP and QFP dykes

- locally foliated 45 to 48 from C.A.and multiple sharp contacts between GTT dykes and gabbro, scatered qcs/qs (<1% to 5%) up to 0.5 meters wide with…

178.7 to 179.3 - Quartz-Carbonate Vein - quartz-carbonate in composition with sh chl gabbroic inclusions 20 from C.A. up 5%, <1% py, sharp upper and lower contacts 22 and 30 from C.A., respectively

181.1 to 181.45 0 - Weak Quartz-Carbonate Stockwork - green to greenish white colors, strong chl with mod to strong cb in fractures, 35% to 40% qcs up to 5 cm wide, strongly sh10 to 30 from C.A., <1% py, sharp contacts 30 from C.A.

Mineralization - occasional to locally widely scattered py < 1%
Contact - sharp diffuse contact

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
140.10 - 210.80	Py BLB 0.5	Pyrite, Blebs, <1% occasional to widely scattered

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
455589	140.00	141.00	1.00	0	-	0.01	-	-
455590	141.00	142.00	1.00	0	-	0.01	-	-
455591	177.70	178.20	0.50	2	-	1.66	-	-
455592	178.20	178.70	0.50	3	-	2.24	-	-
455593	178.70	179.30	0.60	0	-	0.04	-	-
455594	179.30	179.80	0.50	0	-	0.01	-	-
455595	179.80	180.30	0.50	0	-	0.03	-	-
455597	180.30	181.10	0.80	0	-	0.01	-	-
455598	181.10	181.45	0.35	0	-	0.00	-	-
455599	181.45	182.00	0.55	0	-	0.01	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
210.80	212.75	**Fresh Rock** **14B** ***Diabase Dyke***	1	1	BLK									

Diabase Dyke - black color, mafic composition being vfg (<0.5 cm) equigranular to ophitic texture? Being aphanitic, massive appearance, local thin qs <1%.

Mineralization - occasional py <0.5%, moderately to strongly magnetic
Contact - sharp contact 65 from C.A.

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
210.80 - 212.75	Py BLB 0.5	Pyrite, Blebs, <0.5%

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
212.75	217.75	**Fresh Rock** **8L** ***Granodiorite-Tonalite-Trondjhemite (In-***	1	1	GREG									

Granodiorite-Tonalite-Trondjhemite (In-Situ) Magmatic Breccia - both GTT dykes (32%) intruding into gabbro (68%); green colored gabbro and grayish-greenish white GTT…

Gabbro - mafic in composition with fg to mg (<0.20 cm in size) 20% to 30% fd in a vfg amp-chl-cb-ep matrix…..mod to locally strong ep/sauss alteration of albite phenocrysts, mod pervasive chl and cb alteration, sub-porphyritic to porphritic texture, <1% qs/qcs.

GTT - acts as series of dykes-like bodies being felsic to intermediate in composition, fg to mg (<0.3cm) crowded albitic fd (35% to 45%) with up to 5% to 10% bluish qe in a vfg qtz-fd-(chl-amp) interstital matrix, porphritic texture, larger dykes show 5% rounded gabbroic inclusions up to 6 cm in size, sharp contacts vary from 60 to 2n from C.A., GTT are from 212.-212.9, 213.45-213.9, and from 215.0 to 216.15, <1% qs/qcs.

Mineralization - occasional vfg py <1%, weak to moderately magnetic gabbro and non-magnetic GTT
Contact - sharp contact 50 from C.A.

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
212.75 - 217.75	Py BLB 0.5	Pyrite, Blebs, <0.5%

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
217.85	220.50	**Fresh Rock** **14B** ***Diabase Dyke***	1	1	BLK

Diabase Dyke - Similar in description to interval 210.8 to 212.75 with….

1) <1% cg (0.5 cm) sub-rounded clots of sauss/ep altered albite phenocrysts
2) strongly magnetic

Contact - series of sharp contacts with the wallrock from 220.1 to 220.5 at 60 to 90 from C.A. with sharp irregular contact 50 to 90 from C.A. at 220.5, wallrock inclusions up to 10 cm wide.

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
217.85 - 220.50	Py BLB 0.5	Pyrite, Blebs, <0.5%

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
220.50	228.40	**Fresh Rock** **8L** ***Granodiorite-Tonalite-Trondjhemite (In-***	1	1	GREG

Granodiorite-Tonalite-Trondjhemite (In-Situ) Magmatic Breccia - Similar to section from 212.75 to 217.75 with both GTT dykes (43%) intruding into gabbro (57%) with…..

1) GTT dyke-like bodies with vfg gabbroic inclusions up to 20cm wide with GTT from 221.9 to 223.15, 223.65 to 223.8, 225.05 to 225.6, and from 227.2 to 228.4
2) Sharp contacts between the GTT and gabbro are highly variable ranging from 20 to 90 from C.A.
3) Weakly magnetic

Mineralization - widely scattered vfg to fg pyrite <1% with increase in pyrite up to 1% from 223.0 to 228.4
Contact - sharp irregular contact 72 from C.A.
Contact -

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
220.50 - 223.00	Py BLB 0.5	Pyrite, Blebs, <1%
223.00 - 228.40	Py BLB 1	Pyrite, Blebs, 1%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
455600	223.00	223.80	0.80	0	-	0.01	-	-
455601	223.80	225.10	1.30	0	-	0.01	-	-
455602	225.10	225.60	0.50	0	-	0.02	-	-
455603	225.60	226.60	1.00	0	-	0.02	-	-
455604	226.60	227.25	0.65	0	-	0.01	-	-
455605	227.25	227.80	0.55	0	-	0.01	-	-
455606	227.80	228.40	0.60	0	-	0.03	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
228.40	230.00	**Fresh Rock** **SH** ***Chlorite-Carbonate Shear***	1	1	GR	455607	228.40	229.10	0.70	0	-	0.01	-	-
						455608	229.10	230.00	0.90	0	-	0.02	-	-

Chlorite-Carbonate Shear - green to light green with white color, altered mafic composition with strong/intense chl and moderate pervasive ca-cb, vfg and strongly sheared 20 to 45 from C.A., 5% qcs/cs parallel to sh and up to 5 cm wide…occurs as boudinaged qcs/qs

Mineralization - occasional py-cpy <0.5%, weakly magnetic
Contact - sharp contact 34 from C.A.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
228.40 - 230.00	CB SP 3	Carbonatization, Along Shear Planes, Moderate
228.40 - 230.00	CL SP 5	Chloritization, Along Shear Planes, Strong to Intense 9Shear-Controlled)

230.00	243.00	**Fresh Rock** **7Cm** ***Melanocratic Gabbro***	1	1	GR	455609	230.00	231.00	1.00	0	-	0.01	-	-

Melanocratic Gabbro - green to dark green color, mafic composition with moderate to locally strong chlorite (236.9 to 237.7) of matrix with weak to pervasive moderate carbonate alteration, vfg to fg (up to 0.10 cm) white albite feldspars (20% to 30%) in a vfg ferromagnesian chloritic/amphibolitic matrix, massive to sub-equigranular texture, scattered qs/qcs <1% to 2% up to 3 cm wide.

Mineralization - occasional vfg py <0.5%, weakly to non-magnetic

Alteration Maj:	*Type/Style/Intensity*	*Comment*
230.00 - 236.90	CB MX 3	Carbonatization, Matrix, Weak to Moderate
230.00 - 236.90	CL MX 3	Chloritization, Matrix, Moderate
236.90 - 237.70	CB MX 1	Carbonatization, Matrix, Very weak

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
	236.90 - 237.70	CL	MX	4	Chloritization, Matrix, Strong									
	237.70 - 243.00	CB	MX	3	Carbonatization, Matrix, Moderate									
	237.70 - 243.00	CL	MX	3	Chloritization, Matrix, Moderate									

Mineralization Maj. :	Type/Style/%Mineral			Comment
230.00 - 243.00	Py	BLB	0.5	Pyrite, Blebs, <0.5%

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From (m)	To (m)	Length (m)	Sample #	Comments
19.70	20.20	0.50	455501	Gabbro - mafic composition with wk/mod chl, equigranular texture, msv, < 1% qcs and py
20.20	20.70	0.50	455502	Gabbro - mafic composition with wk/mod chl, equigranular texture, msv, 2% to 3% qcs and widely scattered py <1%py
20.70	21.00	0.30	455503	QCV Pod/CIC - felsic to intermediate composition with mod cb, 10 cm wide qcv lense with coarse splashes of py with chl-cb…overall < 1%
21.00	21.50	0.50	455504	Quartz Diorite/Diorite - intermediate composition with wk-mod cb, porp texture, <1% qcs, <1% py
21.50	22.00	0.50	455505	Quartz Diorite/Diorite - intermediate composition with wk-mod cb, porp texture, <1% qcs, <1% py
22.00	23.00	1.00	455506	Quartz Diorite/Diorite - intermediate composition with wk-mod cb, porp texture, <1% qcs, <1% py with local scattered py at 22.9
37.15	37.65	0.50	455507	Gabbro (minor CIC dyke) - mafic composition with mod chl and wk/mod cb in matrix and strong cb fract, msv, vfg, scattered cs up to 1%, < 1% py,
37.65	38.20	0.55	455508	Gabbro - mafic composition with mod chl and wk/mod cb in matrix and strong cb fract, msv, vfg, scattered cs 2% to 3%, widely scattered py up to 1%
38.20	38.60	0.40	455509	Gabbro - mafic composition with increase mod chl and wk cb, msv, <1% qcs/cs, 5% to locally 10% py with <1% cpy as fract-fill>disseminated
38.60	39.00	0.40	455510	Gabbro - mafic composition with increase mod chl and wk cb, msv, <1% qcs/cs, 5% py with <1% cpy as fract-fill & disseminated
39.00	39.40	0.40	455511	Gabbro - mafic composition with mod chl and wk/mod cb in matrix and strong cb fract, msv, vfg, scattered cs 2% to 3%, widely scattered py 1% to 2%
39.40	40.40	1.00	455513	CIC Breccia - numerous CIC dykes intruding into vfg gabbro, vfg and msv, gabbroic incl. < 1% qcs and py
72.00	73.05	1.05	455514	CIC Breccia - felsic to intermediate composition with chl with numerous assimilated gabbroic inclusions, 2% to 3% thin qcs/cs, <1% py
73.05	74.00	0.95	455515	Chlorite-Ankerite-(Silicified) Shear - mod chl-ank-(sil), mod sh, 1% to 2% qcs/cs, < 1% py
74.00	75.00	1.00	455516	Ankerite-(Chlorite-Silicified) Shear - lt gray color, mod ank-(chl-sil) and stronger sh, 2% to 3% thin qcs/cs, widely scattered py < 1%
75.00	75.95	0.95	455517	Ankerite-(Chlorite-Silicified) Shear - lt gray color, mod ank-(chl-sil) and strongly sh, 5% thin qcs/cs, widely scattered py < 1%
75.95	76.20	0.25	455518	Quartz-Carbonate Veinlet - qtz-cb composition with diffuse chl fractures and inclusions, sh/fract giving a pseudo-bx texture, <1% py
76.20	77.00	0.80	455519	Ankerite-Siderite Shear - mod to strong ank and sh, <1% qcs, broken core part of flt zone?, occasional to widely scattered py < 1%
77.00	77.80	0.80	455520	Ankerite-Siderite Shear - mod to strong ank (locally sil) and sh, <1% qcs, broken core with possible flt as slickenslides observed, widely scattered py < 1%
77.80	78.80	1.00	455521	Ankerite-Siderite Shear - moderate to strong and sh, 1% to 2% folded qs/qcs, occasional to widely scattered py < 1%
78.80	79.30	0.50	455522	Ankerite-Siderite Shear - moderate to strong and sh, 1% qs/qcs, broken core from 79.1 to 79.2, widely scattered py < 1% with increase py 25 to 3% towards lc
79.30	79.80	0.50	455523	Ankerite-Siderite Shear - strong/intense ank-sid with chl sh seams, strongly sh, < 1% qs/qcs, <1% py
79.80	80.80	1.00	455525	Ankerite-Siderite Shear - strong/intense ank-sid with chl sh seams, strongly sh, 2% to 4% qs/qcs, <1% py with local 1% to 2% py-(cpy) at 80.15 with thin qs
80.80	81.70	0.90	455526	Ankerite-Siderite Shear - strong/intense ank-sid with chl sh seams, strongly sh, < 1% qs/qcs, <1% widely scattered vfg py
81.70	82.40	0.70	455527	Ankerite-Siderite Shear - strong/intense ank-sid with chl sh seams, strongly sh, 5% folded thin qs/qcs, <1% widely scattered py
82.40	83.00	0.60	455528	Ankerite-Siderite Shear - strong/intense ank-sid with chl sh seams, strongly sh, 5% thin folded qs/qcs, <1% scattered py

IAMGOLD CORPORATION

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From (m)	To (m)	Length (m)	Sample #	Comments
83.00	83.50	0.50	455529	Quartz Stockwork -mod to strong ank-sid, 20% qs/qcs parallel to sh, 3% to 5% disseminated py
83.50	83.85	0.35	455530	Quartz Vein - white with diffuse green fractures, strongly fractured vn matte with chl-ser fractures about pre-existing qtz…in-situ/cement breccia features, styolitic fractures at lower end of qv, 4 cm wide milky white qs, 2% to 3% vfg py-(aspy-cpy) generally occuring in the fracture cement…local coarser splash of aspy in xcutting milky-white qs
83.85	84.30	0.45	455531	Weak Quartz Stockwork - mod chl-ank-sid with sil flooded bnds, strongly sh, weakly fractures 10% to 15% qs parallel to sh, 5% to 10% disseminated py in chl-ank-sid matrix and sil bnds
84.30	84.70	0.40	455532	Silicified-Ankerite-Siderite Shear - bleached gy-wt, strong intense sil with ank-sid, strongly sh, <1% qs, 10% to 15% vfg disseminated py
84.70	85.70	1.00	455533	Ankerite-Siderite Shear - strong to intense ank-sid with chl sh seams, strongly sh, 1% to 2% qs/qcs, <1% widely scattered py
85.70	86.70	1.00	455534	Ankerite-Siderite Shear - strong to intense ank-sid with chl sh seams, strongly sh, 2% to 4% qs/qcs, <1% widely scattered py
86.70	87.70	1.00	455535	Ankerite-Siderite Shear - strong to intense ank-sid with chl sh seams, strongly sh, 5% to 7% qs/qcs, <1% widely scattered py with increase up to 1% py towards 87.7
87.70	88.70	1.00	455537	Ankerite-Siderite Shear - strong to intense ank-sid with chl sh seams, strongly sh, 5% qs/qcs, <1% widely scattered py
88.70	89.20	0.50	455538	Fractured Ankerite-Siderite Shear - strong to intense ank-sid with chl sh seams, strongly sh, fractured with 15% to 20% qs, <1% widely scattered py
89.20	90.10	0.90	455539	Silicified-Ankerite-Siderite Shear - lt gray color, strong sil with ank-sid, sh, <1% qs, patchy py ranging <1% to 5% in 5-7cm intervals….fg to mg py cubes
90.10	91.10	1.00	455540	Weakly Fractured Silicified-Ankerite-Siderite Shear - strong sil flooding wr with ank-sid, fractured with 10% to 15% qs, local py fracture <1%
91.10	92.00	0.90	455541	Fractured Silicified-Ankerite-Siderite Shear - strong sil flooding wr with ank-sid, fractured with 15% to 20% qs, local <1% py cubes
92.00	93.00	1.00	455542	Silicified-Ankerite-Siderite Shear - lt bleached gray color, strong/intense sil flood with ank-sid, sh, 1% to 3% qs, <1% py
93.00	93.65	0.65	455543	Silicified-Ankerite-Siderite Shear - lt gray color, strong sil with ank-sid, sh, 10% qs, <1% py with slight increase at lower interval 1% to 2% scattered py with thin qs
93.65	94.50	0.85	455544	Ankerite-Siderite Shear - strong/intense ank-sid with chl sh seams, strongly sh, 2% to 3% qs, <1% py
94.50	95.50	1.00	455545	Ankerite-Siderite Shear - strong/intense ank-sid with chl sh seams, strongly sh, 1% to 3% qs, <1% py
95.50	96.00	0.50	455546	Ankerite-Siderite Shear - strong/intense ank-sid with chl sh seams, strongly sh, <1% qs, up to 1% towards 96.0
96.00	97.00	1.00	455547	Ankerite-Siderite-(Silicified) Shear - strong/intense ank-sid with chl sh seams, strongly sh, <1% qs, 1% to 3% scattered vfg py
97.00	98.00	1.00	455549	Ankerite-Siderite-(Silicified) Shear - strong/intense ank-sid with chl sh seams, strongly sh, 1% qs, 1% to 2% scattered vfg py
98.00	99.00	1.00	455550	Ankerite-Siderite-(Silicified) Shear - strong/intense ank-sid with chl sh seams, strongly sh, 2% to 3% tightly folded qs, 2% to 3% scattered vfg py with increase near folded qs
99.00	99.45	0.45	455551	Ankerite-Siderite-(Silicified) Shear - strong/intense ank-sid with chl sh seams, strongly sh, 2% to 3% qs, 1% to 2% scattered vfg py
99.45	99.90	0.45	455552	Ankerite-Siderite-(Silicified) Shear - strong/intense ank-sid with chl sh seams, strongly sh, 5% scattered thin qs, <1% vfg py
99.90	100.35	0.45	455553	Weak QTCSW - mod-strong chl with ank?, 15% thin qs/qcs, 5% py
100.35	100.90	0.55	455554	QTCSW - mod to strong chl with ank-sid, 25% to 30% qs/qcs, 5% vfg disseminated py
100.90	102.00	1.10	455555	Diabase - mafic composition being vfg and massive, <1% qcs/cs, <1% py with local 1% to 2% py at upper contact, moderately magnetic
102.00	103.00	1.00	455556	Diabase - mafic composition being vfg and massive, 2% qcs/cs, <1% py and moderately magnetic

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From (m)	To (m)	Length (m)	Sample #	Comments
103.00	104.50	1.50	455557	Diabase - mafic composition being vfg and massive, 1% qcs/cs, <1% py and moderately magnetic
104.50	105.00	0.50	455558	Silicified-Ankerite-Siderite Shear - moderate to strong sil with ank-sid, mod sh, 2% to 3% qs, 5% to 10% disseminated py-(aspy)
105.00	105.50	0.50	455559	Silicified-Ankerite-Siderite Shear - moderate to strong sil with ank-sid, mod sh, 2% to 4% qs, 10% disseminated py-(aspy)
105.50	106.00	0.50	455561	Silicified-Ankerite-Siderite Shear - moderate to strong sil with ank-sid, local 15cm wide qtbx mod sh, 2% to 5% qs, 5% to 10% disseminated py-(aspy)
106.00	106.80	0.80	455562	Silicified-Ankerite-Siderite Shear - moderate to strong sil with ank-sid, mod sh, <1% to 2% qs, 5% disseminated py-(aspy)
106.80	107.80	1.00	455563	Silicified-Ankerite-Siderite Shear - moderate to strong sil with ank-sid, mod sh, 5% qs, 2% to 5% disseminated py-(aspy)
107.80	108.50	0.70	455564	Silicified-Ankerite-Siderite Shear - moderate to strong sil with ank-sid, mod sh, 2% to 3% qs, 1% to 2% disseminated grains
108.50	109.00	0.50	455565	Silicified-Ankerite-Siderite Shear - moderate to strong sil with ank-sid, mod sh, 2% to 3% qs, 2% to 3% disseminated grains and local cpy<0.5%
109.00	109.60	0.60	455566	Silicified-Ankerite-Siderite Shear - moderate to strong sil with ank-sid, mod sh, 2% qs, 5% disseminated grains
109.60	110.60	1.00	455567	Silicified Granodiorite/Tonalite - altered felsic with mod sil, vfg with relict porp texture obliterated, 5% to 10% qs, occasional py < 1%
110.60	111.60	1.00	455568	Silicified Granodiorite/Tonalite - altered felsic with mod sil, vfg with relict porp texture obliterated, <1% qs, occasional py < 1%
127.70	128.70	1.00	455569	Sheared CIC Breccia - felsic to intermediate composition with mod sil & chl, mod sh, <1% qcs/cs, < 1% py
128.70	129.30	0.60	455570	Sheared CIC Breccia - felsic to intermediate composition with mod chl>sil, mod to strongly sh, 10% qcs/cs parallel to sh, < 1% py
129.30	129.80	0.50	455571	Diabase - irregular contact with CIC (inclusions), mafic composition, vfg and numerous ca fractures, occasional py <1% and moderately to strongly magnetic
129.80	130.90	1.10	455573	Diabase - mafic composition, vfg and massive, 1% to 5% cs/qcs with increased fracturing at lc, <1% py, moderately to strongly magnetic
130.90	131.30	0.40	455574	Silicified-Chlorite Shear (Breccia) - bleached wt and strong to intense sil with wk-mod chl-ca, strongly sh and bx, <1% qcs, < 1% py
131.30	132.10	0.80	455575	Chlorite-Ankerite-(Silicified) Shear - moderate to strong chl-ank with sil, strongly sh, 1% to 2% qs, <1% py
132.10	132.55	0.45	455576	Silicified and Chlorite-Ankerite Shear - both strong sil (55%) as bnd and chl-ank (45%), sil bnds are bx, strongly sh, 5% qcs, < 1% py
132.55	133.30	0.75	455577	Chlorite-Ankerite-(Silicified) Shear - moderate to strong chl-ank with sil, strongly sh, 1% to 2% qs, <1% py
133.30	134.00	0.70	455578	Ankerite-Siderite-Silicified Shear - strong ank-sid with mod to strong sil as thin lam, strongly sh, 5% to 10% thin qs parallel to sh, occasional to locally widely scattered py-(cpy)
134.00	135.00	1.00	455579	Ankerite-Siderite-Silicified Shear - strong ank-sid with mod to strong sil as thin lam, strongly sh, 2% to 5% thin qs parallel to sh, occasional to locally widely scattered py <1% with slight increase towards 135.0-
135.00	135.45	0.45	455580	Chlorite-(Ankerite) Shear - strong to intense chl with ank and local sil lam, strongly sh, 5% to 10% qcs/qs parallel to sh, <1% py
135.45	135.90	0.45	455581	Silicified and Fractured Shear- bleached white and strongly sil flooding (relict CIC with bluish 5% qe), 5% to 10% qs, scattered vfg py <1% to locally 2%
135.90	136.70	0.80	455582	Chlorite-Ankerite Shear - mod to strong chl-ank-sid, strongly sh, 5% to 7% thin qs parallel to sh, <1% py
136.70	137.00	0.30	455583	Silicified Band/QV - white color being strong sil/qtz composition, local tour seam, vfg and with incl of wr, scattered py mostly in inclusion up to 1%
137.00	137.70	0.70	455585	Chlorite Shear with Silicified Bands - strong to intense chl-(ank?) with 5% to 10% sil bands, sheared with 12 cm wide flt gouge, 5% qcs/qs, up to 1% py with increased py towards 137.7 after flt gouge

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From (m)	To (m)	Length (m)	Sample #	Comments
137.70	138.70	1.00	455586	Silicified Shear - strong to intense bleached white sil (40% to 50%) with mod sil wr, banded texture/sh, 5% qs/qcs, widely scattered py < 1% and locally 1%
138.70	139.40	0.70	455587	Silicified Shear (Gabbro) - strong to locally intense sil of wallrock, 2% to 3% diffuse qs, massive appearance, < 1% py
139.40	140.00	0.60	455588	Silicified Shear (Gabbro) - strong to locally intense sil of wallrock, 1% to 2% diffuse qs,mod sh, scattered 1% py
140.00	141.00	1.00	455589	Silicified CIC & Gabbro - bleached white color, strong to intense sil from 139.4 to 140.5 (QP) with gradual mod sil towards 141, scattered 2% to 3% qs, <1% py
141.00	142.00	1.00	455590	Silicified CIC & Gabbro - bleached white color, strong to intense sil from 139.4 to 140.5 (QP) with wk/mod sil in gabbro, <1% to 2% qs, <1% py
177.70	178.20	0.50	455591	GTT Breccia - felsic to intermediate in composition with gabbroic inclusions in dyke-like body, porp with 25% to 35% crowded fd and <5% qe, <1% qs and py
178.20	178.70	0.50	455592	Gabbro (Raft?) - mafic composition being mod chl, vfg and massive, <1% qcs and py
178.70	179.30	0.60	455593	Quartz-Carboinate Vein - qtz-cab composition with sheared chl gabbroic inclusions 15% to 20%, ,1% py
179.30	179.80	0.50	455594	Gabbro - mafic composition with mod chl, vfg and msv, 5% qcs/qs, < 1% py
179.80	180.30	0.50	455595	Gabbro - mafic composition with mod chl, vfg and msv, <1% to 2% qcs/qs, < 1% py
180.30	181.10	0.80	455597	Gabbro - mafic composition with mod chl & mod per cb, vfg and msv, 5% qcs/qs, < 1% py
181.10	181.45	0.35	455598	QTCSW - mod to strong chl-cb and strongly sh and fractured with 15% to 20% qcs/qs parallel to sh, < 1% py
181.45	182.00	0.55	455599	Gabbro - mafic composition with mod chl & mod per cb, vfg and msv, 5% qcs/qs, < 1% py
223.00	223.80	0.80	455600	CIC Breccia - GTT dykes intruding into gabbro, gabbro is mafic and mod chl/ca-cb, felsic to intermediate CIC/GTT, up to 1% qcs/cs, scattered py < 1%
223.80	225.10	1.30	455601	Gabbro - mafic composition with pervasive mod chl-ca-cb, vfg and wk sh/msv, <1% qcs, widely scattered py cubes < 1%
225.10	225.60	0.50	455602	Porphritic Granodiorite/Tonalite/QFP - felsic to intermediate on composition with 10% to 15% blue qe and 25% to 35% fd phenocrysts, porp texture, <1% qcs, <1% py
225.60	226.60	1.00	455603	Gabbro - mafic composition with pervasive mod chl-ca-cb, vfg and wk sh/msv, up to 1% qcs, patchy scattered py cubes up to 1%
226.60	227.25	0.65	455604	Gabbro - mafic composition with pervasive mod chl-ca-cb, vfg and wk sh/msv, up to 1% qcs, < 1% py
227.25	227.80	0.55	455605	Porphritic Granodiorite/Tonalite/QP - altered felsic to intermediate on composition with mod to strong sil, relict qe up to 20% (tightly packed), relict porp texture, 5% qs/qcs, widely scattered vfg py-(cpy) <1%
227.80	228.40	0.60	455606	Porphritic Granodiorite/Tonalite/QP - altered felsic to intermediate on composition with mod to strong sil, relict qe up to 20% (tightly packed), relict porp texture, 10% qs/qcs, widely scattered vfg py-(cpy) <1% with coarse msv py in 5 cm wide qs at 227.
228.40	229.10	0.70	455607	Chlorite-Carbonate Shear - strong/intense chl with mod per cb, strongly sh, 2% to 4% qcs/cs, <1% py
229.10	230.00	0.90	455608	Chlorite-Carbonate Shear - strong/intense chl with mod per cb, strongly sh, 5% qcs/cs, <1% py-cpy
230.00	231.00	1.00	455609	Gabbro - mafic composition with mod chl-ca-cb, vfg to fg and msv, 1% to 2% scattered qcs, < 1% py

DRILL HOLE REPORT

Hole Number: **WAT17-09** Project: **WATERSHED EAST** Project Number: **259**

Drilling		Casing		Core		Location		Other	
Azimuth:	30	**Length:**	1.5	**Dimension:**	NQ	**Claim No.:**	100408, 157524	**Company:**	IAMGOLD
Dip:	-55	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	302	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Stephen Roach
Started:	14-Nov-17	**Cemented:**	no	**Hole Type**	DDH	**Section:**	83+00E	**Surveyed:**	yes
Completed:	17-Nov-17	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	Larry Labelle
Logged:	21-Nov-17	**Making water:**	yes	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: North Shear

Comment: Southeast strike and down-plunge extension of North Shear with up to 6.0 meters of silicified-(albitized)-ankerite-siderite and pyritic/sheared CIC and second chlorite altered and sheared gabbro with local pyrite fracture-filling at CIC contact; coincides with weak to moderate chargeability zone ranging from 5.85 to 6.86 mV/V

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	436043.82	**East:**	436043.82	**East:**	0
North:	5267817.61	**North:**	5267817.61	**North:**	0
Elev.:	408.12	**Elev.:**	408.12	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
0.00	30.00	-55.00	0	0	0		C	☑	
14.00	25.30	-55.20				55923	M	☑	
17.00	26.30	-55.20				55662	M	☑	
20.00	26.10	-55.20				55467	M	☑	
23.00	26.70	-55.30				55393	M	☑	
26.00	26.70	-55.20				55298	M	☑	
29.00	26.60	-55.00				55265	M	☑	
32.00	27.10	-55.10				55215	M	☑	
35.00	26.80	-55.00				55204	M	☑	
38.00	26.90	-54.90				55189	M	☑	
41.00	27.10	-54.90				55208	M	☑	
44.00	26.70	-54.90				55256	M	☑	
47.00	26.00	-54.80				55302	M	☑	
53.00	28.10	-54.80				54781	M	☑	
56.00	28.00	-54.70				54972	M	☑	

DRILL HOLE REPORT

Hole Number: **WAT17-09** Project: **WATERSHED EAST** Project Number: **259**

Drilling		Casing		Core		Location		Other	
Azimuth:	30	**Length:**	1.5	**Dimension:**	NQ	**Claim No.**	100408, 157524	**Company:**	IAMGOLD
Dip:	-55	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	302	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Stephen Roach
Started:	14-Nov-17	**Cemented:**	no	**Hole Type**	DDH	**Section:**	83+00E	**Surveyed:**	yes
Completed:	17-Nov-17	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	Larry Labelle
Logged:	21-Nov-17	**Making water:**	yes	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: North Shear

Comment: Southeast strike and down-plunge extension of North Shear with up to 6.0 meters of silicified-(albitized)-ankerite-siderite and pyritic/sheared CIC and second chlorite altered and sheared gabbro with local pyrite fracture-filling at CIC contact; coincides with weak to moderate chargeability zone ranging from 5.85 to 6.86 mV/V

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	436043.82	**East:**	436043.82	**East:**	0
North:	5267817.61	**North:**	5267817.61	**North:**	0
Elev.:	408.12	**Elev.:**	408.12	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
62.00	27.40	-54.50				55200	M	☑	
65.00	27.30	-54.40				55198	M	☑	
68.00	27.10	-54.40				55262	M	☑	
71.00	27.80	-54.50				55080	M	☑	
74.00	27.70	-54.40				55091	M	☑	
77.00	27.70	-54.40				55135	M	☑	
80.00	27.40	-54.20				55121	M	☑	
83.00	29.90	-54.30				54155	M	☑	
92.00	27.80	-54.10				55240	M	☑	
95.00	28.10	-53.90				55200	M	☑	
98.00	28.20	-54.00				55158	M	☑	
101.00	28.40	-53.90				55159	M	☑	
104.00	28.40	-53.70				55168	M	☑	
107.00	27.70	-53.70				55187	M	☑	
110.00	28.60	-53.80				55019	M	☑	
113.00	28.80	-53.70				55114	M	☑	

DRILL HOLE REPORT

Hole Number: **WAT17-09** Project: **WATERSHED EAST** Project Number: **259**

Drilling		Casing		Core		Location		Other	
Azimuth:	30	**Length:**	1.5	**Dimension:**	NQ	**Claim No.:**	100408, 157524	**Company:**	IAMGOLD
Dip:	-55	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	302	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Stephen Roach
Started:	14-Nov-17	**Cemented:**	no	**Hole Type**	DDH	**Section:**	83+00E	**Surveyed:**	yes
Completed:	17-Nov-17	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	Larry Labelle
Logged:	21-Nov-17	**Making water:**	yes	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: North Shear

Comment: Southeast strike and down-plunge extension of North Shear with up to 6.0 meters of silicified-(albitized)-ankerite-siderite and pyritic/sheared CIC and second chlorite altered and sheared gabbro with local pyrite fracture-filling at CIC contact; coincides with weak to moderate chargeability zone ranging from 5.85 to 6.86 mV/V

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	436043.82	**East:**	436043.82	**East:**	0
North:	5267817.61	**North:**	5267817.61	**North:**	0
Elev.:	408.12	**Elev.:**	408.12	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
116.00	29.00	-53.50				55232	M	☑	
119.00	29.40	-53.50				55950	M	☑	
122.00	30.20	-53.60				55587	M	☑	
125.00	35.00	-53.30				55529	M	☑	
128.00	28.80	-53.40				55142	M	☑	
131.00	30.80	-53.30				55582	M	☑	
134.00	29.80	-53.10				54988	M	☑	
137.00	28.80	-53.20				55046	M	☑	
140.00	29.30	-53.20				55088	M	☑	
143.00	29.20	-53.10				54881	M	☑	
146.00	28.60	-53.00				55080	M	☑	
149.00	27.70	-52.80				55111	M	☑	
152.00	29.10	-52.80				54770	M	☑	
155.00	27.90	-52.80				55439	M	☑	
158.00	29.00	-52.70				55188	M	☑	
161.00	30.60	-52.60				55013	M	☑	

DRILL HOLE REPORT

Hole Number: **WAT17-09** Project: **WATERSHED EAST** Project Number: **259**

Drilling		Casing		Core		Location		Other	
Azimuth:	30	**Length:**	1.5	**Dimension:**	NQ	**Claim No.:**	100408, 157524	**Company:**	IAMGOLD
Dip:	-55	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	302	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Stephen Roach
Started:	14-Nov-17	**Cemented:**	no	**Hole Type**	DDH	**Section:**	83+00E	**Surveyed:**	yes
Completed:	17-Nov-17	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	Larry Labelle
Logged:	21-Nov-17	**Making water:**	yes	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: North Shear

Comment: Southeast strike and down-plunge extension of North Shear with up to 6.0 meters of silicified-(albitized)-ankerite-siderite and pyritic/sheared CIC and second chlorite altered and sheared gabbro with local pyrite fracture-filling at CIC contact; coincides with weak to moderate chargeability zone ranging from 5.85 to 6.86 mV/V

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	436043.82	**East:**	436043.82	**East:**	0
North:	5267817.61	**North:**	5267817.61	**North:**	0
Elev.:	408.12	**Elev.:**	408.12	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
164.00	28.50	-52.40				54969	M	☑	
167.00	28.90	-52.20				55488	M	☑	
170.00	29.80	-52.10				55150	M	☑	
179.00	30.90	-52.00				54179	M	☑	
182.00	28.00	-52.10				55774	M	☑	
185.00	30.30	-51.90				55636	M	☑	
191.00	32.20	-52.00				55206	M	☑	
194.00	28.70	-52.00				55356	M	☑	
197.00	27.70	-51.90				55405	M	☑	
200.00	29.20	-51.90				56086	M	☑	
203.00	26.20	-51.90				56875	M	☑	
206.00	29.00	-51.80				56916	M	☑	
209.00	29.00	-51.80				56921	M	☑	
212.00	28.80	-51.90				55317	M	☑	
215.00	31.00	-51.80				55109	M	☑	
218.00	30.20	-51.90				54590	M	☑	

DRILL HOLE REPORT

Hole Number: **WAT17-09** Project: **WATERSHED EAST** Project Number: **259**

Drilling		Casing		Core		Location		Other	
Azimuth:	30	**Length:**	1.5	**Dimension:**	NQ	**Claim No.**	100408, 157524	**Company:**	IAMGOLD
Dip:	-55	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	302	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Stephen Roach
Started:	14-Nov-17	**Cemented:**	no	**Hole Type**	DDH	**Section:**	83+00E	**Surveyed:**	yes
Completed:	17-Nov-17	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	Larry Labelle
Logged:	21-Nov-17	**Making water:**	yes	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: North Shear

Comment: Southeast strike and down-plunge extension of North Shear with up to 6.0 meters of silicified-(albitized)-ankerite-siderite and pyritic/sheared CIC and second chlorite altered and sheared gabbro with local pyrite fracture-filling at CIC contact; coincides with weak to moderate chargeability zone ranging from 5.85 to 6.86 mV/V

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	436043.82	**East:**	436043.82	**East:**	0
North:	5267817.61	**North:**	5267817.61	**North:**	0
Elev.:	408.12	**Elev.:**	408.12	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
221.00	34.40	-51.80				55107	M	☑	
224.00	30.70	-52.00				55114	M	☑	
227.00	29.70	-51.90				55003	M	☑	
230.00	29.70	-51.80				55339	M	☑	
233.00	30.70	-51.80				55205	M	☑	
236.00	30.60	-51.80				55190	M	☑	
239.00	30.40	-51.80				55133	M	☑	
242.00	29.50	-51.70				55082	M	☑	
245.00	31.60	-51.70				55487	M	☑	
248.00	32.00	-51.80				54321	M	☑	
251.00	30.20	-51.70				55118	M	☑	
254.00	30.60	-51.70				55049	M	☑	
257.00	30.30	-51.70				54926	M	☑	
260.00	30.10	-51.70				54966	M	☑	
263.00	30.00	-51.50				54923	M	☑	
266.00	30.10	-51.50				54933	M	☑	

DRILL HOLE REPORT

Hole Number: **WAT17-09** Project: **WATERSHED EAST** Project Number: **259**

Drilling		Casing		Core		Location		Other	
Azimuth:	30	**Length:**	1.5	**Dimension:**	NQ	**Claim No.:**	100408, 157524	**Company:**	IAMGOLD
Dip:	-55	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	302	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Stephen Roach
Started:	14-Nov-17	**Cemented:**	no	**Hole Type**	DDH	**Section:**	83+00E	**Surveyed:**	yes
Completed:	17-Nov-17	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	Larry Labelle
Logged:	21-Nov-17	**Making water:**	yes	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: North Shear

Comment: Southeast strike and down-plunge extension of North Shear with up to 6.0 meters of silicified-(albitized)-ankerite-siderite and pyritic/sheared CIC and second chlorite altered and sheared gabbro with local pyrite fracture-filling at CIC contact; coincides with weak to moderate chargeability zone ranging from 5.85 to 6.86 mV/V

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	436043.82	**East:**	436043.82	**East:**	0
North:	5267817.61	**North:**	5267817.61	**North:**	0
Elev.:	408.12	**Elev.:**	408.12	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
269.00	30.20	-51.40				54940	M	☑	
272.00	30.80	-51.50				54945	M	☑	
275.00	31.20	-51.50				54986	M	☑	
302.00	28.50	-51.20				54978	M	☑	

LITHOLOGY REPORT
- Detailed -

Hole Number **WAT17-09** Project: **WATERSHED EAST** Project Number: **259**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
0.00	0.63	**Overburden** **OB** ***Overburden*** Overbureden - silty-clay with boulders (1.5m of Casing)	4	4	BR									
0.63	3.10	**Fresh Rock** **8D** ***Granodiorite-Monzodiorite/Tonalite/Feld*** Granodiorite-Monzodiorite/Tonalite/Feldspar Porphyry - greenish gray to gray colors, felsic to intermediate in composition with tightly packed white fg to mg (<0.2cm in size) fd, <1% to 2% qtz/qe interstitial with chl matrix, weak carbonate, sub-porphyritic to porphritic texture, numerous diffuse vfg gabbroic inclusions…rounded up to 3 cm in size, <1% qcs/qs. Mineralization - occasional py <0.5%, weakly to non-magnetic Contact - sharp contact 48 from C.A. ***Mineralization Maj. :*** ***Type/Style/%Mineral*** ***Comment*** 0.63 - 3.10 Py BLB 0.5 Pyrite, Blebs,< 0.5%	1	1	GREG									
3.10	3.95	**Fresh Rock** **14B** ***Diabase Dyke*** Diabase Dyke - black to dark metallic gray colors, mafic in composition with vfg to fg (up to 0.10 cm) pyroxene phenocrysts/laths (10% to 20%) in a vfg ferromagnesian matrix, sub-ophitic to ophitic texture, <1% qcs/cs. Mineralization - occasional py <0.5%, weakly to non-magnetic Contact - sharp contact 56 from C.A.	1	1	BLK									

LITHOLOGY REPORT
- Detailed -

Hole Number **WAT17-09** Project: **WATERSHED EAST** Project Number: **259**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
3.95	17.70	**Fresh Rock** **8D** ***Granodiorite-Monzodiorite/Tonalite***	1	1	GREG

Granodiorite-Monzodiorite/Tonalite/Quartz Porphyry - greenish gray, green, and bleached grsayish white colors, altered felsic to intermediate composition with moderate to strong/intense pervasive and interstitial chlorite alteration from 4.55 to 11.0 (gradational) and moderate to strong pervasive sil-ab in matrix from 11.0 to 17.7, vfg to mg (<0.2cm) feldspar phenocrysts ranging from <5% to 30% and where unaltered the fd are tightly packed/crowded giving a porphyritic texture, 5% to 10% quartz eyes.

- relict porphyritic texture, foliated 45 to 52 from C.A., <1% to 2% qcs/cs

Mineralization - occasional vfg py <1% with increase py-cpy up to 1% from 7.2 to 7.7, weak to non-magnetic
Contact - sharp contact 90 from C.A. with 5 cm wide qs with tourmaline seams

Alteration Maj:	***Type/Style/Intensity***	***Comment***
4.55 - 11.00	CL IS 3	Chloritization, Interstitial, Moderate to Strong
11.00 - 17.70	AB MX 3	Albitization, Matrix, Moderate to Strong
11.00 - 17.70	SI MX 3	Silicification, Matrix, Moderate to Strong

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
3.95 - 7.20	Cpy BLB 0.5	Chalcopyrite, Blebs, 0.5%
3.95 - 7.20	Py BLB 0.5	Pyrite, Blebs, 0.5%
7.20 - 7.70	Cpy BLB 0.5	Chalcopyrite, Blebs, <0.5%
7.20 - 7.70	Py BLB 1	Pyrite, Blebs, 1%
7.70 - 17.70	Py BLB 0.5	Pyrite, Blebs,<0.5%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
455610	6.20	7.20	1.00	-	-	0.02	-	-
455611	7.20	7.70	0.50	-	-	0.00	-	-
455613	7.70	8.70	1.00	-	-	0.00	-	-
455614	8.70	9.70	1.00	-	-	0.07	-	-
455615	9.70	11.00	1.30	-	-	0.03	-	-
455616	11.00	12.00	1.00	-	-	0.00	-	-
455617	12.00	13.00	1.00	-	-	0.00	-	-
455618	13.00	14.00	1.00	-	-	0.00	-	-
455619	14.00	15.00	1.00	-	-	0.00	-	-
455620	15.00	15.80	0.80	-	-	0.00	-	-
455621	15.80	16.90	1.10	-	-	0.00	-	-
455622	16.90	17.70	0.80	-	-	0.00	-	-

LITHOLOGY REPORT
- Detailed -

Hole Number **WAT17-09** Project: **WATERSHED EAST** Project Number: **259**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
17.70	18.35	**Fresh Rock** **SH** ***Chlorite-(Carbonate) Shear***	1	1	GR	455623	17.70	18.35	0.65	-	-	0.00	-	-

Chlorite-(Carbonate) Shear - green color, altered mafic gabbroic inclusion? with strong chlorite and weak to locally moderate carbonate alteration, scattered vfg to fg fd xtls (5%) in a vfg chloritic matrix, strongly sheared 50 from C.A. with flexure 20 from C.A. at about 18.0, scattered 5% qcs/qs.

Mineralization - widely scattered py <1%, non-magnetic
Contact - sharp contact 60 from C.A.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
17.70 - 18.35	CB SP 2	Carbonatization, Along Shear Planes, Weak to Locally Moderate
17.70 - 18.35	CL SP 4	Chloritization, Along Shear Planes, Strong

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
17.70 - 18.35	Py BLB 1	Pyrite, Blebs, <1%

Texture Maj:	***Type***	***Comment***
17.70 - 18.35	SCH	Schistose

18.35	47.90	**Fresh Rock** **8L** ***Granodiorite-Tonalite-Trondjhemite (In-***	1	1	GREG	455625	18.35	19.10	0.75	-	-	0.00	-	-
						455626	19.10	19.75	0.65	-	-	0.00	-	-
						455627	19.75	20.30	0.55	-	-	0.00	-	-
						455628	20.30	21.40	1.10	-	-	0.00	-	-
						455629	21.40	22.50	1.10	-	-	0.00	-	-
						455630	22.50	23.00	0.50	-	-	0.00	-	-
						455631	23.00	23.80	0.80	-	-	0.00	-	-
						455632	23.80	24.40	0.60	-	-	0.00	-	-
						455633	24.40	25.00	0.60	-	-	0.00	-	-

Granodiorite-Tonalite-Trondjhemite (In-Situ) Magmatic Breccia - greenish gray to green and moderate gray colors, felsic to intermediate in composition with increased pervasive to interstitial chl (mod to strong) from 37.95 to 47.9…….strong/intense chl from 39.9 to 46.6 , crowded fg to mg (<0.3cm) albitic fd (40% to 50%) with varying proportions of qe/quartz ranging <1% to 10%-20% with increased quartz from 18.35 to 37.95 decreasing towards 47.9 being more feldspathic in the more unaltered intervals well developed porphyritic texture in the unaltered intervals

- well developed hydrothermal intrusive breccias from…..

19.75 to 20.25 - Sericite-Chlorite Hydrothermal Intrusive Breccia - mod to strong ser altered clasts in a chloritic matrix, fragment supported mod foliated with sub-angular to sub-rounded clasts up to 2cm in size, sh/foliated 45 to 50 from C.A., <1% py

23.8 to 24.4 - Silcified Hydrothermal Intrusive Breccia - strong intense pervasive sil in matrix and clasts, mod hem stain, tightly packed & fragment supported, diffuse sub-rounded clats up to 2 to 3 cm in size, non foliated and occasional py <1%.

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)

- large gabbro (mafic in composition, vfg, & msv) rafts up to 3.4 meters wide from the major ones from 21.4 to 22.5 and from 24.4 to 26.45, 35.9 to 38.2., weakly foliated 20 to 50 from C.A. with lower core angles towards 47.9, scattered qcs/qs up to 17 cm in width with increased qs from 45.3 to 47.7 (10%)

Mineralization - occasional py-cpy <0.5%, weak to non-magnetic
Contact - sharp contact 54 from C.A

Alteration Maj:	Type/Style/Intensity	Comment
19.75 - 20.25	CL MX 3	Chloritization, Matrix, Moderate
19.75 - 20.25	SR FRG 3	Sericitization, Fragments, Moderate to Strong
23.80 - 24.40	SI PV 4	Silicification, Pervasive, Strong
37.95 - 39.90	CL IS 3	Chloritization, Interstitial, Moderate to Strong
39.90 - 46.60	CL PV 5	Chloritization, Pervasive, Intense
46.60 - 47.90	CL PV 3	Chloritization, Pervasive, Moderate to Strong

Mineralization Maj. :	Type/Style/%Mineral	Comment
18.35 - 47.90	Cpy BLB 0.5	Chalcopyrite, Blebs, <0.5%
18.35 - 47.90	Py BLB 0.5	Pyrite, Blebs, <0.5%

47.90 49.75 **Fresh Rock** **14B** ***Diabase Dyke*** 1 1 BLK

Diabase Dyke - black to dark metallic gray color, mafic composition with very weak carbonate (calcite), vfg and aphanitic.

Mineralization - barren of sulphides and strongly magnetic
Contact - well developed chill zones at upper and lower contacts, sharp lower contact at 71

Alteration Maj:	Type/Style/Intensity	Comment
47.90 - 49.75	CB MX 2	Carbonatization, Matrix, Weak to Moderate

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		47.90 - 49.75 Py BLB 0.5 Pyrite, Blebs, <0.5% to barren												
49.75	56.60	**Fresh Rock** **8L** ***Granodiorite-Tonalite-Trondjhemite (In-***	1	1	LG	455634	55.50	56.00	0.50	-	-	0.00	-	-
						455635	56.00	56.60	0.60	-	-	0.00	-	-
		Granodiorite-Tonalite-Trondjhemite (In-Situ) Magmatic Breccia - felsic to intermediate in composition with increased moderate to strong ep alteration of fd as patchy intervals from 51.6 to 56.6…intervals up to 0.40 m wide, crowded to equigranular fg to mg (up to 0.3cm) 35% to 45% with 10% to 20% interstital qtz/qe.												
		- sub-porphyritic/equigranular phanertic texture, scattered green and rounded vfg gabbroic inclusions/rafts up to 8 cm in size., <1% qs/qcs.												
		Mineralization - occasional vfg py <).5% with local aspy near lower contact at 56.5, non-magnetic Contact - sharp contact 46 from C.A.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		51.60 - 56.60 EP SPT 3 Epidotization, Spotty/Patchy, Moderate to Strong												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		49.75 - 56.60 Aspy BLB 0.5 Arsenopyrite, Blebs, <0.5% at lower contact												
		49.75 - 56.60 Py BLB 0.5 Pyrite, Blebs, <0.5%												
56.60	58.50	**Fresh Rock** **14B** ***Diabase Dyke***	1	1	BLK	455637	56.60	57.10	0.50	-	-	0.00	-	-
		Diabase Dyke - black to dark metallic gray color, mafic composition with a vfg aphanitic ferromagnesian matrix…<1% mg to cg (<1cm) sauss/ep altered plagioclase feldspar phenocrysts, <1% qcs/cs												
		Mineralization - barren and moderately magnetic Contact - sharp contact 36 from C.A.												

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Alteration Maj:	***Type/Style/Intensity***	***Comment***										
		56.60 - 58.50	EP MX 3	Epidotization, Matrix, Moderate										
		56.60 - 58.50	SAUSS MX 3	Saussuritization, Matrix, Moderate										
		Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***										
		56.60 - 58.50	Py BLB 0.5	Pyrite, Blebs, <0.5% to barren										
58.50	92.60	**Fresh Rock** **8D** ***Granodiorite-Monzodiorite/Tonalite/QFP***	1	1	GREG	455638	69.60	70.20	0.60	-	-	0.00	-	-
						455639	70.20	70.60	0.40	-	-	0.00	-	-
						455640	70.60	71.00	0.40	-	-	0.00	-	-
						455641	71.00	72.25	1.25	-	-	0.03	-	-

Granodiorite-Monzodiorite/Tonalite/QFP - grayish green, gray, and green colors, felsic to intermediate in composition being feldsphyric (30% to 40%) and quartz-rich (5% to 20%) interstitial, wk to mod chl with weak cb interstitial, silicified section from 70.2 to 71.0 with both sil bands (associated with numerous sil-chl fractures) and pervasive sil, patchy moderate to strong ep alteration as bands up to 0.45m wide throughout and gradual increase in hem dusting from 75.5 to to 88.7 with patchy hem in the upper part of the interval.

- sub-porphyritic to equigranular texture with crowded feldspar phenocrysts, weakly to local moderately foliated ranging from 43 to 56 with increaed foliation where gabbroic inclusions occur, occasional gabbroic inclusion/rafts up to16 cm wide and large gabbroic raft from 88.3 to 90.2 (1.9 meters wide).....

67.75 to 68.2 - Diabase - similar in description to section from 56.0 to 58.5, <1% py, sharp upper and lower contacts 53 and 59 from C.A., respectively

88.3 to 90.2 - Gabbro Raft - green color, mafic composition with mod chl and wk/none-cb, vfg to fg scattered fd (5%) phenocrysts ina vfg aphanitic ferromagnesian matrix, xcut by thin (up to 5 cm wide) CIC dykes (4%), <1% qs/qcs, <1% py, sharp upper contact 46 from C.A. and sharp irregular lower contact 47 from C.A.

Mineralization - occasional to locally widely scattered py (<0.5%) with local inccrease in py and aspy (1% to 2%) from 70.2 to 71.0 associated with strong sil alteration….occurs as vfg disseminations.

Contact - sharp contact 46 from C.A.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
58.50 - 70.20	EP SPT 3	Epidotization, Spotty/Patchy, Moderate to Strong

Hole Number **WAT17-09** Project: **WATERSHED EAST** Project Number: **259**

From (m)	To (m)		Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		58.50 - 70.20	CB IS 2	Carbonatization, Interstitial, Weak to Moderate											
		58.50 - 70.20	CL IS 2	Chloritization, Interstitial, Weak to Moderate											
		70.20 - 71.00	SI PV 4	Silicification, Pervasive, Strong											
		71.00 - 75.50	EP SPT 3	Epidotization, Spotty/Patchy, Moderate to Strong											
		71.00 - 75.50	CB IS 2	Carbonatization, Interstitial, Weak to Moderate											
		71.00 - 75.50	CL IS 2	Chloritization, Interstitial, Weak to Moderate											
		75.50 - 88.70	HM GM 3	Hematization, Groundmass, Moderate											
		75.50 - 88.70	EP SPT 3	Epidotization, Spotty/Patchy, Moderate											
		75.50 - 88.70	CB IS 2	Carbonatization, Interstitial, Weak to Moderate											
		75.50 - 88.70	CL IS 2	Chloritization, Interstitial, Weak to Moderate											
		88.70 - 92.60	EP SPT 3	Epidotization, Spotty/Patchy, Moderate to Strong											
		88.70 - 92.60	CB IS 2	Carbonatization, Interstitial, Weak to Moderate											
		88.70 - 92.60	CL IS 2	Chloritization, Interstitial, Weak to Moderate											
		Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***											
		58.50 - 70.10	Aspy BLB 0.5	Arsenopyrite, Blebs, <0.5%											
		58.50 - 70.10	Py BLB 0.5	Pyrite, Blebs, <0.5%											
		70.10 - 71.00	Aspy DIS 1	Arsenopyrite, Disseminated, <1% associated with sil											
		70.10 - 71.00	Py DIS 1	Pyrite, Disseminated, 1% to 2% associated with sil											
		71.00 - 92.60	Py BLB 0.5	Pyrite, Blebs,< 0.5%											

Minor Interval:

67.75	68.20	Fresh Rock	14B	*Diabase Dyke*	1

67.75 to 68.2 - Diabase - similar in description to section from 56.0 to 58.5, <1% py, sharp upper and lower contacts 53 and 59 from C.A., respectively

LITHOLOGY REPORT
- Detailed -

Hole Number **WAT17-09** Project: **WATERSHED EAST** Project Number: **259**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
Minor Interval:					
88.30	90.20	Fresh Rock 7C *Gabbro*		1	
		Gabbro Raft - green color, mafic composition with mod chl and wk/none-cb, vfg to fg scattered fd (5%) phenocrysts ina vfg aphanitic ferromagnesian matrix, xcut by thin (up to 5 cm wide) CIC dykes (4%), <1% qs/qcs, <0.5% py, sharp upper contact 46 from C.A. and sharp irregular lower contact 47 from C.A.			
92.60	101.95	**Fresh Rock 7C *Gabbro (Minor CIC)***	1	1	GR
		Gabbro (Minor CIC) - green color,mafic in composition woth weak to moderate chlorite with increased chl alteration from 99.0 to 101.9, weak ca-cb with increased ca in fractures and increased qcs, vfg and wk foliated with stronger foliation from 100.5 to 101.95 30 from C.A.			
		- numerous CIC dykes from 92.6 to 94.7 up to 5 to 10 cm wide randomly oriented, scattered qcs/qs with gradual increase in qcs/qs (10%) from 98.50 to 101.95 ranging from 25 to 52 from C.A.			
		Mineraliztion - occasional to widely scattered/scattered vfg to fg py cubes < 1% to locally 2% to 4% with < 1% aspy/arsenian py, increased py-aspy (1% to 3%) from 98.75 to 100.15			
		Contact - sharp irregular contact			

Alteration Maj:	*Type/Style/Intensity*	*Comment*
99.00 - 101.95	CB FRC 2	Carbonatization, Along Fractures, Weak
99.00 - 101.95	CL MX 2	Chloritization, Matrix, Weak to Moderate

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
98.75 - 101.15	Aspy DIS 1	Arsenopyrite, Disseminated, <1%
98.75 - 101.15	Py DIS 1	Pyrite, Disseminated, 1% to 3%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
455642	96.00	97.00	1.00	-	-	0.01	-	-
455643	97.00	98.00	1.00	-	-	0.00	-	-
455644	98.00	98.75	0.75	-	-	0.00	-	-
455645	98.75	99.40	0.65	-	-	0.01	-	-
455646	99.40	100.15	0.75	-	-	0.01	-	-
455647	100.15	101.00	0.85	-	-	0.00	-	-
455649	101.00	101.95	0.95	-	-	0.00	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
101.95	109.05	**Fresh Rock** **8L** ***Granodiorite-Tonalite-Trondjhemite (In-***	1	1	GREG

Granodiorite-Tonalite-Trondjhemite (In-Situ) Magmatic Breccia - grayish green, dark gray, and green color, divergent compositions with vfg, dark gray felsic composition with wk-mod sil intruding into mod chl and vfg gabbro, overall weak to locally mod cb with stronger ca-cb along fractures and local shear planes.

- pseudo-breccia texture with gabbroic clasts (up to 8 cm wide) being wispy and diffuse, locally well developed breccia textures from 105.25 to 105.4 with up to 2 cm with tightly altered clast supported, weakly to moderately foliated/sheared 43 to 51 from, C.A., scattered qcs/qs <1% to 3% up to 1 cm wide

Mineralization - occasional to locally widely scattered py and aspy <1%, weakly to no-magnetic
Contact - sharp sheared contact 51 from C.A.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
101.95 - 109.05	CB FRC 4	Carbonatization, Along Fractures, Strong
101.95 - 109.05	CL MX 3	Chloritization, Matrix, Moderate
101.95 - 109.05	SI MX 2	Silicification, Matrix, Weak to Moderate

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
101.95 - 109.05	Aspy BLB 0.5	Arsenopyrite, Blebs, <0.5%
101.95 - 109.05	Py BLB 0.5	Pyrite, Blebs, <0.5%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
455650	101.95	103.00	1.05	-	-	0.00	-	-
455651	103.00	103.80	0.80	-	-	0.01	-	-
455652	103.80	104.30	0.50	-	-	0.00	-	-
455653	104.30	105.00	0.70	-	-	0.00	-	-
455654	105.00	106.00	1.00	-	-	0.00	-	-
455655	106.00	107.00	1.00	-	-	0.01	-	-
455656	107.00	107.60	0.60	-	-	0.01	-	-
455657	107.60	108.60	1.00	-	-	0.01	-	-
455658	108.60	109.05	0.45	-	-	0.00	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
109.05	112.30	**Fresh Rock** **7C** ***Gabbro***	1	1	GR

Gabbro - green color, mafic in composition with moderate pervasive chl and weak to moderate ca-cb, scattered fg to mg (<0.3cm) albitic feldspars (5%) from 110.3 to 111.5, vfg and weakly to locally moderately foliated/sheared 46 to 52 from C.A., scattered qcs/qs parallel to sh averaging 5% with increase of qcs/cs (up to 10%) from 109.05 to 110.0 gradually decreasing.

Mineralization - occasional vfg py <0.5%, weakly to non-magnetic
Contact - sharp sheared contact 49 from C.A.

Alteration Maj:	*Type/Style/Intensity*	*Comment*

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
455659	109.05	110.00	0.95	-	-	0.00	-	-
455661	110.00	111.00	1.00	-	-	0.00	-	-
455662	111.00	112.00	1.00	-	-	0.00	-	-
455663	112.00	112.30	0.30	-	-	0.00	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		109.05 - 112.30 CB PV 2 Carbonatization, Pervasive, Weak to Moderate												
		109.05 - 112.30 CL PV 3 Chloritization, Pervasive, Moderate												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		109.05 - 112.30 Py BLB 0.5 Pyrite, Blebs, <0.5%												
112.30	120.30	**Fresh Rock** **8L** ***Granodiorite-Tonalite-Trondjhemite (In-***	1	1	GREG	455664	112.30	113.00	0.70	-	-	0.00	-	-
		Granodiorite-Tonalite-Trondjhemite (In-Situ) Magmatic Breccia - similar in description to interval from 101.95 to 109.05 with….				455665	113.00	114.00	1.00	-	-	0.00	-	-
		1) wk-mod vfg sil on CIC and wk/mod chl on vfg gabbro, overall wk to locally mod cb both pervasive and in fracture				455666	114.00	115.00	1.00	-	-	0.00	-	-
		2) weakly foliated 21 to 49 from C.A., scattered thin qs/qcs up to 5 cm wide				455667	115.00	116.00	1.00	-	-	0.00	-	-
		Mineralization - occasional vfg py-aspy <1% with local patchy increases as from 117.15 to 117.45 with 2% to 5% vfg disseminated py and aspy, moderately to locally strongly magnetic				455668	116.00	116.50	0.50	-	-	0.00	-	-
						455669	116.50	117.15	0.65	-	-	0.00	-	-
		Contact - sharp contact 43 from C.A.				455670	117.15	117.45	0.30	-	-	0.01	-	-
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***				455671	117.45	118.50	1.05	-	-	0.00	-	-
		112.30 - 120.30 CB FRC 2 Carbonatization, Along Fractures, Weak to locally Moderate				455673	118.50	119.50	1.00	-	-	0.00	-	-
		112.30 - 120.30 CL PV 2 Chloritization, Pervasive, Weak to Moderate				455674	119.50	120.30	0.80	-	-	0.00	-	-
		112.30 - 120.30 SI PV 2 Silicification, Pervasive, Weak to Moderate												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		112.30 - 117.15 Py BLB 0.5 Pyrite, Blebs, ,0.5%												
		117.15 - 117.45 Aspy DIS 1 Arsenopyrite, Disseminated, up to 1%												
		117.15 - 117.45 Py DIS 5 Pyrite, Disseminated, 2% to 5%												
		117.45 - 120.30 Py BLB 0.5 Pyrite, Blebs, <0.5%												

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
120.30	122.30	**Fresh Rock** **7C** ***Sheared Gabbro***	1	1	GR	455675	120.30	121.30	1.00	-	-	0.00	-	-
						455676	121.30	122.00	0.70	-	-	0.01	-	-
						455677	122.00	122.30	0.30	-	-	0.00	-	-
122.30	128.30	**Fresh Rock** **SH** ***Ankerite-Siderite-(Chlorite) Shear***	1	1	GY	455678	122.30	123.10	0.80	-	-	0.01	-	-
						455679	123.10	124.00	0.90	-	-	0.01	-	-
						455680	124.00	124.60	0.60	-	-	0.01	-	-
						455681	124.60	125.20	0.60	-	-	0.01	-	-
						455682	125.20	125.90	0.70	-	-	0.01	-	-
						455683	125.90	126.30	0.40	-	-	0.01	-	-
						455685	126.30	126.70	0.40	-	-	0.00	-	-
						455686	126.70	127.15	0.45	-	-	0.00	-	-
						455687	127.15	127.45	0.30	-	-	0.07	-	-

Sheared Gabbro - green color, mafic in composition with moderate pervasive chlorite with variable weak to strong carbonate (calcite) in the matrix, 20% to 30% vfg to fg (up to 0.10 cm in size) white disseminated feldspars xtls, moderatly to strongly sh 45 from C.A., <1% qcs/qcs with possible sheared and strongly carbonate altered and sheared CIC? (<2 cm wide).

Mineralization - occasional vfg py <0.5%, weak to non-magnetic
Contact - sharp and sheared/broken contact

Alteration Maj:	*Type/Style/Intensity*	*Comment*
120.30 - 122.30	CB SP 2	Carbonatization, Along Shear Planes, Weak to Strong
120.30 - 122.30	CL SP 3	Chloritization, Along Shear Planes, Moderate

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
120.30 - 122.30	Py BLB 0.5	Pyrite, Blebs, <0.5%

Ankerite-Siderite-(Chlorite) Shear - alternating light gray, gray, grayish-white, and dark green colors, strongly altered with shear controlled ankerite-siderite with chlorite occurring as alternating lamination/bands with very weak calcite.

- strongly laminated/sheared texture with highly variable core angles due to tight folding 0 to 90 from C.A., more consistent shearing at lower interval (127.5 to 128.3) 42 to 47 from C.A., series of interfernce fold patterns/nose at 123.0, 123.7 to 124.0, 124.2 to 124.55, and from 126.7 to 127.0, numerous drag folds throughout with Z-shape at upper and lower intervals with S-shape 125.5 to 126.1, buckling and re-folding drag folds with axial planar 30 to 70 from C.A., scattered qs/qcs (<1% to 5%) with increased fracturing in fold nose areas, particularly from 125.9 to 126.3 (30%) with increased cpy-py-(aspy) ranging from 1% to 3%.

Mineralization - occasional to locally scatered py-cpy-(aspy) with overall average < 1%, local increases in

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		py and cpy (1% to 3%) associated in fold nose areas with increased qs/qcs, particularly from 125.9 to 126.3 (30%) with increased cpy-py-(aspy) ranging from 1% to 3% mainly found in stringers, moderately to strongly magnetic from 122.8 to 126.4 gradually decreasing to the upper and lower interval contacts.				455688	127.45	128.30	0.85	-	-	0.06	-	-
		Contact - sharp, sheared contact 42 from C.A., significant increase in disseminated py												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		122.30 - 128.30 CL BNDS 3 Chloritization, Bands/Banded, Moderate												
		122.30 - 128.30 AK-SID SP 4 Ankerite-Siderite, Along Shear Planes, Strong												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		122.30 - 125.90 Aspy BLB 0.5 Arsenopyrite, Blebs, <0.5%												
		122.30 - 125.90 Cpy BLB 0.5 Chalcopyrite, Blebs, <0.5%												
		122.30 - 125.90 Py DIS 1 Pyrite, Disseminated, 1% to 3%												
		125.90 - 126.30 Cpy BLB 0.5 Chalcopyrite, Blebs, <0.5%												
		125.90 - 126.30 Py DIS 30 Pyrite, Disseminated, 30%												
		126.30 - 128.30 Aspy BLB 0.5 Arsenopyrite, Blebs, <0.5%												
		126.30 - 128.30 Cpy BLB 0.5 Chalcopyrite, Blebs, <0.5%												
		126.30 - 128.30 Py DIS 1 Pyrite, Disseminated, 1% to 3%												
128.30	131.70	**Fresh Rock** **SH** ***Ankerite-Siderite-Chlorite-Silicified-Pyri***	1	1	LG	455689	128.30	128.80	0.50	-	-	0.06	-	-
		Ankerite-Siderite-Chlorite-Silicified-Pyrite Shear - bleached grayish white, light gray, and pinkish gray colors, altered shear controlled alteration with strong to intense silicified flooding up to 0.5 meters wide in a strong to intense ank-sid with mod/strong relict chl section from 128.3 to 129.7 decreasing to lower interval.				455690	128.80	129.30	0.50	-	-	0.94	-	-
						455691	129.30	129.80	0.50	-	-	0.14	-	-
						455692	129.80	130.30	0.50	-	-	0.91	-	-
		- strongly consistent shearing 44 to 45 from C.A., relict porphritic texture in the more sil bands (altered CIC) with 10% to 15% qe, occasional qs < 5cm wide and <1%				455693	130.30	131.30	1.00	-	-	0.13	-	-
						455694	131.30	131.70	0.40	-	-	0.14	-	-
		Mineralization - overall 5% vfg to locally fg (up to 0.1 cm) pyrite with minor cpy-aspy < 0.5%, range of py												

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		<1% to locally 10% as patchy py mineralization, moderately magnetic gradually decreasing towards 131.7 Contact - gradational contact												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		128.30 - 131.70 CL BNDS 3 Chloritization, Bands/Banded, Moderate to Strong Relict to 129.7												
		128.30 - 131.70 AK-SID PV 4 Ankerite-Siderite, Pervasive, Strong to Intense												
		128.30 - 131.70 SI BNDS 5 Silicification, Bands/Banded, Intense												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		128.30 - 131.70 Aspy BLB 0.5 Arsenopyrite, Blebs, <0.5%												
		128.30 - 131.70 Cpy BLB 0.5 Chalcopyrite, Blebs, <0.5%												
		128.30 - 131.70 Py DIS 5 Pyrite, Disseminated, 5%												
131.70	137.80	**Fresh Rock** **SH** ***Ankerite-Siderite-Silicified-(Chlorite) Sh***	1	1	DG	455695	131.70	132.30	0.60	-	-	0.24	-	-
		Ankerite-Siderite-Silicified-(Chlorite) Shear- dark gray, greenish gray, and light green color, altered composition with strong ank-sid-sil with weak to mod relict chl, increased sil in the more felsic variety of GTT (tonalite) with relict porphyritic texture from 136.45 to 137.8m with 5% mg to cg (<0.3 to 0.5 cm) rounded qe.				455697	132.30	133.00	0.70	-	-	0.12	-	-
						455698	133.00	134.00	1.00	-	-	0.24	-	-
						455699	134.00	135.00	1.00	-	-	0.14	-	-
		- strongly sheared 40 to 49 from C.A. with relict porphritic texture from 136.45 to 137.8 as per altered and sheared CIC, occasional qs/qcs <1%				455700	135.00	135.60	0.60	-	-	0.02	-	-
						455701	135.60	136.30	0.70	-	-	2.32	-	-
		Mineralization - occasional to widely scattered py up to 1% with significant increase in pyrite (10% to 20%) from 135.6 to 136.3…py occurs as vfg disseminations associated with strong sheared silicification, weak to non-magnetic				455702	136.30	137.00	0.70	-	-	0.40	-	-
						455703	137.00	137.80	0.80	-	-	0.01	-	-
		Contact - sharp contact 49 from C.A.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		131.70 - 137.80 CL MX 2 Chloritization, Matrix, Weak to Moderate Relict												

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		131.70 - 137.80 SI PV 4 Silicification, Pervasive, Strong												
		131.70 - 137.80 AK-SID SP 4 Ankerite-Siderite, Along Shear Planes, Strong												
137.80	141.70	**Fresh Rock SH** ***Ankerite-Siderite-Chlorite-Silicified She***	1	1	DG	455704	137.80	138.60	0.80	-	-	0.05	-	-
						455705	138.60	139.00	0.40	-	-	0.36	-	-
						455706	139.00	139.50	0.50	-	-	0.16	-	-
						455707	139.50	139.85	0.35	-	-	0.00	-	-
						455708	139.85	141.05	1.20	-	-	0.01	-	-
						455709	141.05	141.70	0.65	-	-	0.51	-	-

Ankerite-Siderite-Chlorite-Silicified Shear (CIC Breccia) - dark gray, gray, and green color, variable strong alteration with strong ank-sid-sil bands (up to 0.40 m wide) in the CIC alterd host and ank-sid-chl in the relict gabbroic bands.

- strongly sheared 43 to 50 from C.A., widely scattered qs/qcs up to 7 cm wide.

Mineralization - occasional to locally vfg disseminated py with cpy and aspy ranging <1% to 10%, increase in sulphides, mainly in py from 138.6 to 139.0 (2% to 5% py-cpy-aspy) and from 139.0 to 139.5 (10% py-(aspy))…increased sulphides are associated with stronger sil and brecciation, weak to non-magnetic

Contact - broken contact

Alteration Maj:	*Type/Style/Intensity*	*Comment*
137.80 - 141.70	CL BNDS 4	Chloritization, Bands/Banded, Strong
137.80 - 141.70	SI BNDS 4	Silicification, Bands/Banded, Strong
137.80 - 141.70	AK-SID SP 4	Ankerite-Siderite, Along Shear Planes, Strong

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
137.80 - 138.60	Aspy BLB 0.5	Arsenopyrite, Blebs, <0.5%
137.80 - 138.60	Cpy BLB 0.5	Chalcopyrite, Blebs, <0.5%
137.80 - 138.60	Py DIS 1	Pyrite, Disseminated, 1%
138.60 - 139.00	Aspy BLB 0.5	Arsenopyrite, Blebs, <0.5%
138.60 - 139.00	Cpy BLB 0.5	Chalcopyrite, Blebs, <0.5%

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From (m)	To (m)			Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		138.60 - 139.00	Py DIS 5	Pyrite, Disseminated, 2% to 5%												
		139.00 - 139.50	Aspy BLB 0.5	Arsenopyrite, Blebs, <0.5%												
		139.00 - 139.50	Cpy BLB 0.5	Chalcopyrite, Blebs, <0.5%												
		139.00 - 139.50	Py DIS 10	Pyrite, Disseminated, 10% associated with sil												
		139.50 - 141.70	Aspy BLB 0.5	Arsenopyrite, Blebs, <0.5%												
		139.50 - 141.70	Cpy BLB 0.5	Chalcopyrite, Blebs, <0.5%												
		139.50 - 141.70	Py DIS 1	Pyrite, Disseminated, 1%												
141.70	142.25	**Fresh Rock**	**QTSW**	***Quartz Stockwork***	1	1	GY	455710	141.70	142.25	0.55	-	-	0.47	-	-

Quartz Stockwork - gray and white colors, strongly altered sheared wallrock with strong chl-ca-cb with ankerite, strong sh 25 to 43 from C.A. with qs/qcs (<3 to 5 cm wide) comprising 30% of the interval, qcs/qs parallel to sub-parallel to strong shearing…..wallrock clasts up to 2 cm wide.

Mineralization - 5% vfg disseminated aspy>py generally in altered wallrock, non-magnetic
Contact - gradational decrease in qcs/qs with sharp sheared at contact 43 from C.A.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
141.70 - 142.25	AK SP 3	Ankerite, Along Shear Planes, Moderate
141.70 - 142.25	CB SP 4	Carbonatization, Along Shear Planes, Strong
141.70 - 142.25	CL SP 4	Chloritization, Along Shear Planes, Strong
Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
141.70 - 142.25	Py DIS 1	Pyrite, Disseminated, 1%
141.70 - 142.25	Aspy DIS 5	Arsenopyrite, Disseminated, 4% to 5%

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
142.25	147.95	**Fresh Rock** **8L** ***Sheared Granodiorite-Tonalite-Trondjhe***	1	1	GY

Sheared Granodiorite-Tonalite-Trondjhemite (In-Situ) Magmatic Breccia - alternating gray, light to dark gray, and green colors, numerous altered and sheared GTT dykes ranging from 7 to 75 cm in width with moderate to strong pervasive sil….relict mg to cg qe phenocrysts (5%) and porp texture

- strongly sheared 43 to 55 from C.A. with sharp contacts between the altered CIC and gabbro…parallel to sub-parrallel to shears, scattered qs/qcs parallel to sh up to 3cm wide.

Mineralization - occasional to widely scattered vfg py and aspy averaging <1% to 2%, increase in sulphides from 146.0 to 146.75 with 5% vfg disseminated py>aspy, weak to non-magnetic

Contact - sharp contact 90 from C.A.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
142.25 - 147.95	SI BNDS 3	Silicification, Bands/Banded, Moderate to Strong

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
142.25 - 146.00	Aspy DIS 1	Arsenopyrite, Disseminated, <1%
142.25 - 146.00	Py DIS 2	Pyrite, Disseminated, 1% to 2%
146.00 - 146.75	Aspy BLB 0.5	Arsenopyrite, Blebs, <0.5%
146.00 - 146.75	Py DIS 5	Pyrite, Disseminated, 5%
146.75 - 147.95	Aspy DIS 1	Arsenopyrite, Disseminated, <1%
146.75 - 147.95	Py DIS 1	Pyrite, Disseminated, 1% to 2%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
455711	142.25	142.70	0.45	-	-	0.20	-	-
455713	142.70	143.70	1.00	-	-	0.00	-	-
455714	143.70	144.20	0.50	-	-	0.01	-	-
455715	144.20	145.30	1.10	-	-	0.02	-	-
455716	145.30	145.60	0.30	-	-	0.01	-	-
455717	145.60	146.00	0.40	-	-	0.04	-	-
455718	146.00	146.75	0.75	-	-	0.17	-	-
455719	146.75	147.40	0.65	-	-	0.35	-	-
455720	147.40	147.95	0.55	-	-	0.03	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
147.95	151.60	**Fresh Rock** **7C** ***Gabbro (Minor Silicified-Ankerite CIC)***	1	1	GG

Gabbro (Minor Silicified-Ankerite CIC) - dark grayish green color, altered mafic composition with mod sil and wk pervasive ca-cb, vfg….aphanitic, massive, mostly fracturingmoderately fracturing with frequent thin qs/qcs (up to 1-2 cm wide), qs/qcs range from 5% to locally 10%.

- local thin pinkish-white sil-ank CIC dykelets up to 5 to 10 cm wide from 150.1 to 150.3, sharp contacts 52 to 5 from C.A.

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
455721	147.95	149.00	1.05	-	-	0.01	-	-
455722	149.00	150.00	1.00	-	-	0.01	-	-
455723	150.00	150.70	0.70	-	-	0.01	-	-
455725	150.70	151.00	0.30	-	-	0.03	-	-
455726	151.00	151.60	0.60	-	-	0.01	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Mineralization - widely scattered vfg py and aspy <1% with increase in py-aspy from 150.7 to 151.0 with 1% to 2% py-aspy Contact - sharp contact 58 from C.A.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		147.95 - 151.60 CB PV 2 Carbonatization, Pervasive, Weak												
		147.95 - 151.60 SI PV 3 Silicification, Pervasive, Moderate												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		147.95 - 150.70 Aspy BLB 0.5 Arsenopyrite, Blebs, <0.5%												
		147.95 - 150.70 Py BLB 1 Pyrite, Blebs, <1%												
		150.70 - 151.00 Aspy BLB 1 Arsenopyrite, Blebs, <1%												
		150.70 - 151.00 Py DIS 5 Pyrite, Disseminated, 5%												
		151.00 - 151.60 Aspy BLB 0.5 Arsenopyrite, Blebs, <0.5%												
		151.00 - 151.60 Py BLB 1 Pyrite, Blebs, <1%												
151.60	164.15	**Fresh Rock** **SH** ***Silicified-Chlorite-Ankerite Shear Zone (***	1	1	GREG	455727	151.60	152.35	0.75	-	-	0.01	-	-
		Silicified-Chlorite-Ankerite Shear Zone (Sheared CIC Bx)- alternating bands of pinkish gray, gray, grayish white, and green colors, highly variable alteration, shear controlled alteration bands from….				455728	152.35	153.35	1.00	-	-	0.05	-	-
		151.6 to 154.0 - Sheared CIC Breccia - alternating pinkish gray to gray strong sil-ab-(ank-kspar?) altered CIC (48%) intruding into wk to mod chl-(cb) altered gabbro rafts inclusions which comprise of 48% of the interval, sil-ab altered bands up to 30 cm wide, strongly sh banded 44 to 51 from C.A., <1% to 4% qs/qcs up to 2 cm wide, overall <1% vfg py-aspy with increase in py>aspy (2% to 3%) from 152.35 to 153.35 associated in wr fract, margins of qs, and in qs…patchy sulphide				455729	153.35	154.00	0.65	-	-	0.14	-	-
						455730	154.00	154.30	0.30	-	-	0.21	-	-
						455731	154.30	154.95	0.65	-	-	0.36	-	-
						455732	154.95	155.50	0.55	-	-	0.01	-	-
		154.0 to 155.5 - Chlorite-Silicified-Fuschite Shear - green to light grsayish apple green colors, both strong chl and sil-fus-(chl) rich bands up to 13 cm wide, strongly sh banded texture 43 to 45 from C.A., 6% qs.qcs up to 8 cm sub-parallel to sh, <1% vfg py-(aspy) with increase in py-(aspy) as vfg disseminated grains in sil-fus bands ranging from 3% to 5%				455733	155.50	156.05	0.55	-	-	0.01	-	-
						455734	156.05	156.50	0.45	-	-	0.24	-	-
						455735	156.50	157.10	0.60	-	-	0.00	-	-
						455737	157.10	157.60	0.50	-	-	0.01	-	-
		155.5 to 161.9 - Sheared CIC Breccia - predominantly grayish white strong sil-ab-ank with possible kspar? altered CIC (90%) up to 24 cm wide, local interstitial chl, relict mg to cg qtz/qe (10% to 20%) from				455738	157.60	157.85	0.25	-	-	0.01	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		155.5 to 156.5 in a mod chl interstitial matrix, 10% chl gabbroic rafts, occasional to numerous qs/qcs with increase in qs/qcs (15% to 30%) from 156.05 to 157.85 up to 5 cm wide…mod to strong mix of sil>chl in wallrock matrix, overall <1% to local 2% py-cpy-aspy as per patchy sulphides throughout this section….. slight increase in sulphide from 156.05 to 156.5 (up to 1%-2% cpy>py>aspy in qs and strong sil flooding), 157.6 to 157.85 (<1% to locally 5% vfg disseminated py-(aspy) in sil-fus rich band).				455739	157.85	158.60	0.75	-	-	0.02	-	-
		%				455740	158.60	159.45	0.85	-	-	0.01	-	-
		161.9 to 164.1 - Silicified-(Ankerite) CIC - pinkish-reddish gray color, strong to intense pervasive sil-ank-(ab?) cherty-like flooding of matrix, local hem dusting, relict porp texture with 10% to 20% fg to mg bluish qe, 1% to 2% qs, scattered to weakly disseminated vfg to fg py ranging <1% to 5% and averaging 2% to 4% associated with strong sil flooding of CIC matrix				455741	159.45	160.25	0.80	-	-	0.04	-	-
						455742	160.25	161.00	0.75	-	-	0.00	-	-
						455743	161.00	161.90	0.90	-	-	0.13	-	-
						455744	161.90	162.40	0.50	-	-	0.02	-	-
						455745	162.40	162.90	0.50	-	-	0.02	-	-
		- overall weakly magnetic				455746	162.90	163.50	0.60	-	-	0.05	-	-
						455747	163.50	164.15	0.65	-	-	0.40	-	-
		Contact - gradational contact with decrease in sil and in chl/cb in diffuse gabbroic wallrock raft												

Alteration Maj:	Type/Style/Intensity	Comment
151.60 - 154.00	KSPAR BNDS 2	Potassic Feldspar, Bands/Banded, Weak to Moderate
151.60 - 154.00	AK BNDS 3	Ankerite, Bands/Banded, Moderate
151.60 - 154.00	AB BNDS 4	Albitization, Bands/Banded, Strong
151.60 - 154.00	SI BNDS 4	Silicification, Bands/Banded, Strong
154.00 - 155.50	SI BNDS 4	Silicification, Bands/Banded, Strong
154.00 - 155.50	FU BNDS 4	Fuchsite, Bands/Banded, Strong
154.00 - 155.50	CL BNDS 4	Chloritization, Bands/Banded, Strong
155.50 - 161.90	AK BNDS 4	Ankerite, Bands/Banded, Strong
155.50 - 161.90	AB BNDS 4	Albitization, Bands/Banded, Strong
155.50 - 161.90	SI BNDS 4	Silicification, Bands/Banded, Strong
161.90 - 164.15	SI PV 4	Silicification, Pervasive, Strong to Intense
161.90 - 164.15	AK PV 4	Ankerite, Pervasive, Strong to Intense

Mineralization Maj. :	Type/Style/%Mineral	Comment
151.60 - 154.00	Aspy BLB 1	Arsenopyrite, Blebs, <1%
151.60 - 154.00	Py PA 1	Pyrite, Patchy, 1%
154.00 - 155.50	Aspy BLB 1	Arsenopyrite, Blebs, <1% occasional

From (m)	To (m)		Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		154.00 - 155.50	Py PA 1	Pyrite, Patchy, 1%											
		155.50 - 161.90	Aspy BLB 1	Arsenopyrite, Blebs, <1%											
		155.50 - 161.90	Cpy BLB 1	Chalcopyrite, Blebs, <1%											
		155.50 - 161.90	Py DIS 1	Pyrite, Disseminated, 1% to locally in bands up to 5%											
		161.90 - 164.15	Py DIS 2	Pyrite, Disseminated, 2% to 3%, but locally up to 5%											
164.15	192.55	**Fresh Rock**	**8L**	***Granodiorite-Tonalite-Trondjhemite (In-***	1	1	GG	455749	164.15	165.00	0.85	-	-	0.00	-	-
								455750	165.00	165.95	0.95	-	-	0.00	-	-
								455751	165.95	166.70	0.75	-	-	0.00	-	-
								455752	166.70	167.65	0.95	-	-	0.00	-	-
								455753	167.65	168.05	0.40	-	-	0.00	-	-
								455754	168.05	169.00	0.95	-	-	0.00	-	-
								455755	169.00	170.00	1.00	-	-	0.00	-	-
								455756	170.00	170.70	0.70	-	-	0.01	-	-
								455757	170.70	171.50	0.80	-	-	0.01	-	-
								455758	171.50	172.00	0.50	-	-	0.01	-	-
								455759	172.00	173.00	1.00	-	-	0.00	-	-
								455761	179.85	180.35	0.50	-	-	0.00	-	-
								455762	180.35	181.00	0.65	-	-	0.00	-	-
								455763	181.00	182.00	1.00	-	-	0.00	-	-
								455764	182.00	182.60	0.60	-	-	0.00	-	-
								455765	182.60	183.20	0.60	-	-	0.01	-	-
								455766	183.20	183.65	0.45	-	-	0.02	-	-

Granodiorite-Tonalite-Trondjhemite (In-Situ) Magmatic Breccia - variable greenish gray, light gray, pinkish/reddish gray, and green colors, felsic to intermediate in composition with moderate to strong chl and mod cb from 164.15 to 165.95 and from 180.5 to 181.5 with 5% to 20% fg to mg (<0.20 cm) bluish qe, CIC/GTT form as dyke-like bodies (37%) up to 1.1m wide and are commonly feldsphyric (25% to 40% fg-mg albite) with 15% to 25% qtz/qe…tightly packed or crowded phenocrysts, mod sil dykes from 164.15 with gradational decrease in sil from 170…..relict phenocrysts/prop texture, well developed porphritic texture.

- gabbroic bodies represent larger rafts and smaller xenoliths and account for the remaining 63% of the interval, mafic in composition being mod chl and weakly to locally moderate to strong carbonate-altered with epidote, vfg to fg, massive to sub-euigranular to locally porp texture with 10% fg to mg ep/sauss altered albite phenocrysts.

- variable contact angles between CIC dykes with stoped gabbro varying from 30 to 90 from C.A., but generally 45 to 50 from C.A., scattered qcs/qs with overall <1% to 2% with increased qcs (10% to 20%) from 166.7 to 168.05 in chl-cb altered gabbro, local wk-(mod) foliated 30 to 50 from C.A. in the more chl altered CIC/GTT.

Mineralization - occasional to scattered/patchy vfg to fg pyrite with increase in py from 164.15 to 165.95 (1% to 2%), 167.85 to 168.05 (3% to 5%), 168.05 to 170.0 (1% to 3%), and from 182.6 to 183.65 (15 to 5% py with <1% cpy)…increase to 5% py-(cpy) from 183.2 to 183.65 in both QP and gabbro, variable weak to locally moderately magnetic with increased magnetics in the gabbro towards 192.55

Contact - sharp sheared contact 50 from C.A.

Alteration Maj:	Type/Style/Intensity	Comment

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From (m)	To (m)		Lithology			Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		164.15 - 165.95	CB	PV	3	Carbonatization, Pervasive, Moderate			455767	183.65	184.65	1.00	-	-	0.00	-	-
		164.15 - 165.95	CL	PV	3	Chloritization, Pervasive, Moderate to Strong			455768	192.00	192.55	0.55	-	-	0.00	-	-
		180.50 - 181.50	CB	PV	3	Carbonatization, Pervasive, Moderate											
		180.50 - 181.50	CL	PV	3	Chloritization, Pervasive, Moderate to Strong											
		Mineralization Maj. :	***Type/Style/%Mineral***			***Comment***											
		164.15 - 165.95	Py	DIS	1	Pyrite, Disseminated, 1% to 2%											
		167.85 - 168.05	Py	DIS	3	Pyrite, Disseminated, 3% to 5%											
		168.05 - 170.00	Py	DIS	1	Pyrite, Disseminated, 1% to 3%											
		182.60 - 183.65	Cpy	BLB	1	Chalcopyrite, Blebs, <1%											
		182.60 - 183.65	Py	DIS	1	Pyrite, Disseminated, 1% to 5%											
192.55	194.30	**Fresh Rock**	**SH**	***Chlorite-Carbonate Shear***		1	1	GR	455769	192.55	193.00	0.45	-	-	0.01	-	-
									455770	193.00	193.50	0.50	-	-	0.00	-	-
									455771	193.50	194.30	0.80	-	-	0.00	-	-

Chlorite-Carbonate Shear - green and white, strong shear controlled chlorite and carbonate, qcs/cs account for 10% of the interval and up to 3.5 cm wide with strong chl styolitic sh fractures, increased qcs/cs (20% to 25%) from 193.0 to 193.5, strongly sheared 45 to 60 from C.A.

Mineralization - occasional py <0.5%, weak to non-magnetic
Contact - gradational decrease in sh

Mineralization -

Alteration Maj:	***Type/Style/Intensity***	***Comment***
192.55 - 194.30	CB SP 4	Carbonatization, Along Shear Planes, Strong
192.55 - 194.30	CL SP 4	Chloritization, Along Shear Planes, Strong

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
192.55 - 194.30	Py BLB 0.5	Pyrite, Blebs, <0.5%

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
194.30	198.05	**Fresh Rock** **8D** ***Chloritic Granodiorite-Monzodiorite***	1	1	DGR	455773	194.30	195.00	0.70	-	-	0.01	-	-

Chloritic Granodiorite-Monzodiorite - dark green, blackish green, pinkish gray/gray colors, altered felsic to intermediate in composition with moderate to strong chl and wk cb altered matrix about 15% to 20 vfg to mg (up to 0.30cm) bluish qe giving a well developed porphyritic texture, occasional qs/qcs (<1%).

197.45 to 198.05 - GTT/QFP -gray to pinkish gray color, felsic to intermediate in composition with increase mod/(strong) hem stain towards contact, feldsphyric (20% to 30% ab) and 10% to 20% bluish qe, fg to mg with a sub-porphyritic texture, <1% qs, this interval forms the contact dyke between the chloritic GTT and diabase with sharp upper and lower contacts at 70 and 51 from C.A.,respectively

Mineralization - occasional vfg py <1%, weakly magnetic
Contact - sharp lower contact 51 from C.A.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
194.30 - 198.05	CB MX 2	Carbonatization, Matrix, Weak
194.30 - 198.05	CL MX 3	Chloritization, Matrix, Moderate to Strong

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
194.30 - 198.05	Py BLB 1	Pyrite, Blebs, <1%

198.05	206.90	**Fresh Rock** **14B** ***Diabase Dyke***	1	1	BLK									

Diabase Dyke - black to metallic gray blackish color, mafic composition with strong vfg ferromagnesian matrix with no ca-cb, gradationally coarser grained towards center of dyke 201.0 to 205.0 with intergowth of pyroxene and calcic plagioclase giving this section a well developed ophitic texture, scattered fg to cg (up to 2 cm) ep/sauss plagioclase clots/xenocrysts <1%, occasional <1% qcs/cs.

Mineralization - barren of sulphides, moderately to locally strongly magnetic
Contact - well develop upper and lower chill zones with the lower contact 75 to 80 from C.A.

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Alteration Maj:	***Type/Style/Intensity***	***Comment***										
		198.05 - 206.90	SAUSS AFG 3	Saussuritization, Alteration of feldspar grains, Moderate										
		198.05 - 206.90	EP AFG 3	Epidotization, Alteration of feldspar grains, Moderate										
		Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***										
		198.05 - 206.90	Py BLB 0.5	Pyrite, Blebs,<0.5% to barren										
206.90	215.40	**Fresh Rock** **8D**	***Granodiorite-Monzodiorite/Tonalite/QFP***	1	1	GY	455774	211.80	212.80	1.00	-	-	0.01	-	-
							455775	212.80	213.80	1.00	-	-	0.04	-	-
							455776	213.80	214.80	1.00	-	-	0.02	-	-
							455777	214.80	215.40	0.60	-	-	0.01	-	-

Granodiorite-Monzodiorite/Tonalite/QFP - gray to greenish gray to local green colors, felsic to intermediate in composition with quartz-feldspathic-rich phemnocrysts being fg to mg (<0.2 cm) feldspars (35% to 45%) and bluish to gray quartz-eyes (15% to 25%), spotty 15% to 25% chl altered amphibole

- frequent to locally numerous green sub-rounded gabbroic inclusions up to 6 cm…..some assimilation as altered original protoliths becoming more chloritic and towards intermediate in composition, <1% qs/qcs, increase in sil-(chl-cb)l microfractures from 213.7 to 215.4 ranging from 50 to 60 from C.A…….microfractures/altered margins up 5 cm wide

Mineralization - occasional to widely scattered py-aspy with increase in py-aspy associated with frequent to numerous sil-(chl-cb) microfractures, locally vfg py and aspy ranging 1% to 2%, weakly to moderately magnetic.

Contact - sharp contact 75 from C.A

Alteration Maj:	***Type/Style/Intensity***	***Comment***
213.70 - 215.40	CB FRC 4	Carbonatization, Along Fractures, Strong
213.70 - 215.40	CL FRC 4	Chloritization, Along Fractures, Strong
213.70 - 215.40	SI FRC 4	Silicification, Along Fractures, Strong
Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
206.90 - 215.40	Aspy BLB 1	Arsenopyrite, Blebs, <1%
206.90 - 215.40	Py DIS 1	Pyrite, Disseminated, <1% to locally 1% to 2%

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
215.40	216.15	**Fresh Rock** **QTS W** ***Quartz Stockwork***	1	1	DGR	455778	215.40	216.15	0.75	-	-	0.00	-	-

Quartz Stockwork - strong to intense chl alteration with weak carbonate (calcite) with increased strong cb along weak sh/foliation planes, weakly foliated/sh 50 from C.A., series of thin boudinaged qs pods/lenses up 12 cm wide ranging 25% to 30%...numerous strong chl inclusions in vein matte.

Mineralization - occasional fg to mg py cubes in both wr and vn margin with <0.5% cpy, non-magnetic
Contact - sharp contact varying 20 to 70 from C.A, highly variable

Alteration Maj:	***Type/Style/Intensity***	***Comment***
215.40 - 216.15	CB SP 2	Carbonatization, Along Shear Planes, Weak to Strong along Shear Planes
215.40 - 216.15	CL PV 4	Chloritization, Pervasive, Strong

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
215.40 - 216.15	Cpy BLB 0.5	Chalcopyrite, Blebs, <0.5%
215.40 - 216.15	Py BLB 0.5	Pyrite, Blebs, <0.5%

216.15	217.20	**Fresh Rock** **8D** ***Granodiorite-Monzodiorite/Tonalite/QP***	1	1	DG	455779	216.15	217.20	1.05	-	-	0.01	-	-

Granodiorite-Monzodiorite/Tonalite/QP - similar in description to section from 206.9 to 215.4

Contact - sharp and broken

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
216.15 - 217.20	Py BLB 0.5	Pyrite, Blebs, <0.5%

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
217.20	221.90	**Fresh Rock** **7C** ***Gabbro***	1	1	DGR

Gabbro - dark green to greenish black color, mafic composition with moderate to strong chlorite-(biotite) and moderate to strong pervasive carbonate (calcite) in the matrix, vfg and massive, occasional qcs <1%.

220.1 to 220.3 - GTT/QP - graish greenish white color, altered matrix with mod to strong sil with interstitial chl, obliterated porp texture…amorphous appearance, <1% qcs, scatered vfg to fg py 1% cubes..possible aspy, sharp upper contact 20 from C.A. and broken lower contact

Mineralization - overall <1% vfg py-(aspy) with increased sulphide with scattered xtls of py-aspy-(cpy) towards the lower contact between 221.2 to 221.9 with 2% to 5% py-aspy-arsenian py and <1% cpy at contact along core axis between sh gabbro and GTT/QP, weakly magnetic

Contact - sharp contact 18 from C.A.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
217.20 - 221.90	CB PV 3	Carbonatization, Pervasive, Moderate to Strong
217.20 - 221.90	BIO PV 2	Biotitization, Pervasive, Weak
217.20 - 221.90	CL PV 3	Chloritization, Pervasive, Moderate to Strong

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
217.20 - 221.20	Aspy BLB 0.5	Arsenopyrite, Blebs, <0.5%
217.20 - 221.20	Py BLB 1	Pyrite, Blebs, <1%
221.20 - 221.90	Cpy BLB 0.5	Chalcopyrite, Blebs, <0.5%
221.20 - 221.90	Aspy DIS 1	Arsenopyrite, Disseminated, up to 1% as aspy and arsenian py
221.20 - 221.90	Py DIS 2	Pyrite, Disseminated, 2% to 5%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
455780	217.20	218.20	1.00	-	-	0.01	-	-
455781	218.20	219.70	1.50	-	-	0.01	-	-
455782	219.70	221.20	1.50	-	-	0.01	-	-
455783	221.20	221.90	0.70	-	-	0.01	-	-

Hole Number **WAT17-09** Project: **WATERSHED EAST** Project Number: **259**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
221.90	232.00	**Fresh Rock** **8L** ***Granodiorite-Tonalite-Trondjhemite (In-***	1	1	GREG

Granodiorite-Tonalite-Trondjhemite (In-Situ) Magmatic Breccia - greenish gray, gray, and green colors, felsic to intermediate in composition with 20% to 30% fg to mg (<0.3 cm) albitic fd and 10% to 20% bluish qe in a vfg qtz-fd matrix….crowded phenocrysts, intermittent sil sections (up to 27 cm wide) throughout the section.

- porphritic texture on GTT/QFP with numerous gabbroic inclusions/rafts which account for 35% to 40% of the interval, gabbroi is vfg and shows strong per cb and mod chl, vfg and msv, occasional to local increase in qs/qcs/cs ranging from <1% to 5% with local 10% to 12% qs (up to 13 cm wide) with associated strong chl along margins

Mineralization - occasional to scattered py-(aspy) ranging <1% to 3% with <0.5% occasional cpy, increase in scattered vfg to fg py-(aspy-arsenian pyrite) ranging 1% to 3% with local 2%-3% from 221.9 to 225.5……generally hosted a vfg disseminations in gabbro, weakly to non-magnetic

Contact - sharp contac 77 from C.A. with thin qs up to 1 cm wide

Alteration Maj:	***Type/Style/Intensity***	***Comment***
221.90 - 232.00	CL FRG 3	Chloritization, GabbroFragments/Rafts, Moderate
221.90 - 232.00	CB FRG 4	Carbonatization, Gabbro Fragments/Rafts, Strong

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
221.90 - 225.50	Aspy DIS 1	Arsenopyrite, Disseminated, up to 1% aspy and arsenian py
221.90 - 225.50	Py DIS 2	Pyrite, Disseminated, 2% to 3%
225.50 - 232.00	Aspy BLB 1	Arsenopyrite, Blebs, <1%
225.50 - 232.00	Py BLB 1	Pyrite, Blebs, up to 1%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
455785	221.90	222.60	0.70	-	-	0.01	-	-
455786	222.60	223.50	0.90	-	-	0.01	-	-
455787	223.50	224.50	1.00	-	-	0.01	-	-
455788	224.50	225.50	1.00	-	-	0.01	-	-
455789	225.50	226.25	0.75	-	-	0.01	-	-
455790	226.25	226.85	0.60	-	-	0.01	-	-
455791	226.85	227.85	1.00	-	-	0.01	-	-
455792	227.85	228.80	0.95	-	-	0.01	-	-
455793	228.80	230.00	1.20	-	-	0.01	-	-
455794	230.00	231.00	1.00	-	-	0.01	-	-
455795	231.00	232.00	1.00	-	-	0.00	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
232.00	236.20	**Fresh Rock** **7C** ***Gabbro***	1	1	GR

Gabbro - green color, mafic in composition with moderate pervasive chlorite and carbonate (calcite) alteration, scattered vfg to fg white feldspars ranging from 15% to 20%, vfg and massive, scattered thin cs/qcs (1% to 2%).

Mineralization - occasional to vfg disseminated py-(aspy)<1% to 2% with most of py mineralization occurring from 232.0 to 233.4, gradually decreasing with depth, 0.2 cm msv cpy fracture and disseminated cpy (1% to 2%) over 9 cm in altered chill zone between 232 and 232.1 at upper contact, weakly magnetic.

Contact - sharp contact 44 from C.A.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
232.00 - 236.20	CB PV 3	Carbonatization, Pervasive, Moderate
232.00 - 236.20	CL PV 3	Chloritization, Pervasive, Moderate

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
232.00 - 236.20	Cpy FAC 1	Chalcopyrite, Fracture-controlled, 1% to 2% in 0.2 cm wide cpy fracture
232.00 - 236.20	Aspy BLB 1	Arsenopyrite, Blebs, <1%
232.00 - 236.20	Py DIS 1	Pyrite, Disseminated, <1% to 2%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
455797	232.00	233.00	1.00	-	-	0.04	-	-
455798	233.00	234.00	1.00	-	-	0.01	-	-
455799	234.00	235.00	1.00	-	-	0.00	-	-
455800	235.00	236.20	1.20	-	-	0.01	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
236.20	237.85	**Fresh Rock** **8D** ***Granodiorite-Monzodiorite/Tonalite/QP***	1	1	GREG

Granodiorite-Monzodiorite/Tonalite/QP - greenish gay sanf green colors, felsic to intermediate in cpomposition with moderate to strong pervasive chl and ca-cb from 236.2 to 237.4…both interstitial and possibly sh-controlled, unaltered sections show 20% to 25% qtz>fd phenocrysts in a vfg matrix.

- weakly to locally moderately foliated/sheared 38 to 43 from C.A., <1% to local 5% qcs/qs up to 5 cm wide

Mineralization - occasional to widely scattered vfg to fg py cubes up to 1%, non-magnetic
Contact - sharp contact 31 from C.A.

Alteration Maj:	***Type/Style/Intensity***	***Comment***

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
455801	236.20	236.70	0.50	-	-	0.01	-	-
455802	236.70	237.40	0.70	-	-	0.01	-	-
455803	237.40	237.85	0.45	-	-	0.00	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		236.20 - 237.85 CB PV 3 Carbonatization, Pervasive, Moderate to Strong												
		236.20 - 237.85 CL PV 3 Chloritization, Pervasive, Moderate to Strong												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		236.20 - 237.85 Py DIS 1 Pyrite, Disseminated, up to 1%												
237.85	240.30	**Fresh Rock** **7C** ***Gabbro***	1	1	GR	455804	237.85	238.85	1.00	-	-	0.00	-	-
		Gabbro - similar in description to interval from 232.0 to 236.2 with….												
		1) stronger pervasive carbonate alteration with calcite 2) locally foliated near upper contact 40 from C.A. 3) 4 cm wide CIC/QFP dyke at 239.85 upper and lower contact 48 and 70 from C.A., respectively												
		Mineralization - occasional vfg py <0.5%, weak to non-magnetic Contact - sharp contact 46 from C.A.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		237.85 - 240.30 CB PV 4 Carbonatization, Pervasive, Strong												
		237.85 - 240.30 CL PV 3 Chloritization, Pervasive, Moderate												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		237.85 - 240.30 Py BLB 0.5 Pyrite, Blebs, <0.5%												
240.30	243.40	**Fresh Rock** **8D** ***Granodiorite-Monzodiorite/Tonalite/QFP***	1	1	PG									
		Granodiorite-Monzodiorite/Tonalite/QFP - pinkish gray to gray colors, felsic to intermediate in composition with weak local hem dusting (kspar?), local bleached sil bands up to 10 cm wide associated with qs and microfractures, 20% to 30% fg to mg (<0.3cm) fd phenocrysts with 15% to 20% quartz interstitial.												
		- well developed porphyritic texture, occasional gabbroic inclusion towards lower contact up to 5 cm,												

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		scattered qs/qcs 1% to 3% Mineralization - occasional vfg py generally located in sil sections, weak to locally moderately magnetic Contact - sharp sheared contact 45 from C.A. ***Alteration Maj:*** ***Type/Style/Intensity*** ***Comment*** 240.30 - 243.40 KSPAR GM 2 Potassic Feldspar, Groundmass, Weak 240.30 - 243.40 SI BNDS 3 Silicification, Bands/Banded to Fractures, Moderate 240.30 - 243.40 HM GM 2 Hematization, Groundmass, Weak ***Mineralization Maj. :*** ***Type/Style/%Mineral*** ***Comment*** 240.30 - 243.40 Py BLB 1 Pyrite, Blebs, <1% with more frequent in sil bnds												
243.40	246.20	**Fresh Rock** **7C** ***Gabbro***	1	1	GR	455805	245.20	246.20	1.00	-	-	0.01	-	-
		Gabbro - similar in description to interval between 237.85 to 240.3 with…. 1) 1% to 2% qcs/cs up to 3 cm wide 2) both upper and lower sheared contacts with GTT/QFP Mineralization - occasional vfg py <0.5% with local scattered py (<1%) near/at upper sheared contact over 2 cm, weakly to non-magnetic Contact - sharp sheared contact 50 from C.A. ***Alteration Maj:*** ***Type/Style/Intensity*** ***Comment*** 243.40 - 246.20 CB PV 4 Carbonatization, Pervasive, Strong 243.40 - 246.20 CL PV 3 Chloritization, Pervasive, Moderate ***Mineralization Maj. :*** ***Type/Style/%Mineral*** ***Comment*** 243.40 - 246.20 Py BLB 0.5 Pyrite, Blebs, <0.5%												

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
246.20	251.20	**Fresh Rock** **8D** ***Granodiorite-Monzodiorite/Tonalite/QFP***	1	1	GREG	455806	246.20	247.00	0.80	-	-	0.01	-	-
						455807	247.00	247.75	0.75	-	-	0.00	-	-
						455808	247.75	249.00	1.25	-	-	0.01	-	-
						455809	249.00	249.35	0.35	-	-	0.00	-	-
						455810	249.35	250.40	1.05	-	-	0.00	-	-
						455811	250.40	251.20	0.80	-	-	0.00	-	-
251.20	275.00	**Fresh Rock** **8E** ***Quartz Diorite-Diorite***	1	1	GR	455813	251.20	252.00	0.80	-	-	0.00	-	-
						455814	252.00	253.00	1.00	-	-	0.01	-	-

Granodiorite-Monzodiorite/Tonalite/QFP - greenish gray, gray, pinkish gray, and light gray colors, felsic to intermediate in composition with local moderate hem, fg to mg (<0.35 cm) 20% to 30% albitic feldspars in quartz-rich feldspathic matrix, scattered sil sections up to 14 cm wide associated with xcutting qs, also wk-mod chl-cb altered qe QP sections from 247.75 to 249.0 and from 249.35 to 249.55…..chl-cb occurs in the altered interstitial matrix.

- porphyritic texture with sharp contacts between unalatered QFP and altered QP, occasional qs <1% up to 6 cm wide

Mineralization - occasional vfg to fg py-(cpy) <1%, slight increase in py in the chl-cb and sil sections of QP but still <1%, non-magnetic to locally weakly magnetic
Contact - sharp, but diffuse/gradational 40 from C.A., gradationaal mod to strong sil from from 250.4 to 251.2

Alteration Maj:	***Type/Style/Intensity***	***Comment***
246.20 - 251.20	SI BNDS 3	Silicification, Bands/Banded to Fractures, Moderate
246.20 - 251.20	HM GM 2	Hematization, Groundmass, Weak

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
246.20 - 251.20	Cpy BLB 0.5	Chalcopyrite, Blebs, <0.5%
246.20 - 251.20	Py BLB 1	Pyrite, Blebs, <1%

Quartz Diorite-Diorite - green, grayish green, with local pinkish white colors, intermediate in composition with variances crowded and non-crowded fg to mg (0.30 cm) feldspar (25% to 40%) with <5% to locall 10% quartz/quartz-eyes generally interstitial, leucocratic with fd>amp 15% to 20% in a mixture of qtz-fd-ep-chl-amp matrix.

- phaneritic texture with local porphyritic texture from 268.4 to 275.0, well developed breccias from 266.0 to 268.4 with GTT/QFP intruding into quartz diorite with clasts up to 86 cm with vfg mafic gabbroic clasts from 268.4 to 275.0 up to 50 cm wide, sharp irregular and highly variable contacts between stoped

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)

blocks/fragments and CIC/QFP dyke-like bodies from 0 to 90 from C.A., occasional to widely scattered qs/qcs <1%

Mineralization - occasional vfg py (<0.5%), non-magnetic to locally very weakly magnetic
Contact - sharp and broken

Mineralization Maj. :	Type/Style/%Mineral	Comment
251.20 - 275.00	Py BLB 0.5	Pyrite, Blebs, <0.5%

Minor Interval:

266.00 275.00 Fresh Rock 8I *Intrusive Breccia* 1

Intrusive Breccia - variable green and greenish gray colors, well developed breccia textures with….

266.0 268.4 - quartz-diorite clasts (up to 86 cm) in GTT/QFP
268.4 to 275.0 - vfg mafic gabbro clasts (up to 50 cm) in GTT/QFP

- sharp irregular contacts with sub-rounded clasts and bands, <1% qcs/qs, and <1% py and non-magnetic

275.00 298.20 **Fresh Rock** **14B** ***Diabase Dyke*** 1 1 GRBLK

Diabase Dyke - greenish black to black color, mafic composition with strong vfg ferromagnesian matrix with no ca-cb, gradationally coarser grained towards center of dyke 283.0 to 293.0 with intergowth of pyroxene and calcic plagioclase giving this section a well developed ophitic texture, very occasional mg to cg (up to 0.5 cm) ep/sauss plagioclase clots/xenocrysts <0.5%, occasional <1% qcs/cs.

Mineralization - barren of sulphides, strongly magnetic
Contact - well develop broken upper and lower chill zones with the lower contact 35 from C.A.

Alteration Maj:	Type/Style/Intensity	Comment
275.00 - 298.20	SAUSS SPT 2	Saussuritization, Spotty/Patchy, Weak
275.00 - 298.20	EP SPT 2	Epidotization, Spotty/Patchy, Weak

Mineralization Maj. :	Type/Style/%Mineral	Comment
275.00 - 298.20	Py BLB 0.5	Pyrite, Blebs, <0.5% to barren

LITHOLOGY REPORT
- Detailed -

Hole Number **WAT17-09** Project: **WATERSHED EAST** Project Number: **259**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
298.20	302.00	**Fresh Rock** **7C** ***Gabbro (Minor Quartz Diorite/FP Dykes)***	1	1	GR									

Gabbro (Minor Quartz Diorite/FP Dykes) - green color, mafic in composition being melanocratic with amp>fd showing wk-mod chl no carbonate (cb), sub-equigranular to equigranular texture, <1% qs/qcs

- scattered GTT/FP/QFP dykes up to 10 cm wide showing local well developed bx textures and account for 5% to 10% of the interva…generally feldsphyric, trend 30 to 40 from C.A.

Mineralization - <0.5% vfg py, non-magnetic

Alteration Maj:	***Type/Style/Intensity***	***Comment***
298.20 - 302.00	CL GM 2	Chloritization, Groundmass, Weak to Moderate
Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
298.20 - 302.00	Py BLB 0.5	Pyrite, Blebs,<0.5%

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number **WAT17-09** Project: **WATERSHED EAST** Project Number: **259**

From (m)	To (m)	Length (m)	Sample #	Comments
6.20	7.20	1.00	455610	Chloritic CIC - mod to locally strong chl with weak to mod ca-cb, porp, <1% qcs, widely scattered vfg py <0.5%
7.20	7.70	0.50	455611	Chloritic CIC - strong chl with weak to mod ca-cb and stronger ca along fractures, porp, <1% qcs, widely scattered vfg py up to 1%
7.70	8.70	1.00	455613	Chloritic CIC - strong chl with weak to locally mod ca-cb and stronger ca along fractures, porp, wk/mod foliated, <1% qcs, occasional py <0.5%
8.70	9.70	1.00	455614	Chloritic CIC - strong chl with weak to locally mod ca-cb and stronger ca along fractures, porp, wk/mod foliated, <1% qcs, occasional py <0.5%
9.70	11.00	1.30	455615	Chloritic CIC - strong chl with weak to locally mod ca-cb and stronger ca along fractures, porp, wk/mod foliated, <1% to 2% qcs, occasional py <0.5%
11.00	12.00	1.00	455616	Silicified/Albitized CIC - wk to mod sil/ab with chl-cb fract, vfg, 1% to 2% qcs/qs, <1% py
12.00	13.00	1.00	455617	Silicified/Albitized CIC - mod to strong sil/ab with chl-cb fract, vfg, 1% to 2% qcs/qs, <1% py
13.00	14.00	1.00	455618	Silicified/Albitized CIC - mod to strong sil/ab with chl-cb fract, vfg, <1% qcs/qs, <1% py
14.00	15.00	1.00	455619	Silicified/Albitized CIC - mod to strong sil/ab with chl-cb fract, vfg, <1% qcs/qs, <1% py
15.00	15.80	0.80	455620	Silicified/Albitized CIC - strong to intense sil/ab with chl-cb fract, vfg, <1% qcs/qs, <1% py
15.80	16.90	1.10	455621	Silicified/Albitized CIC - felsic to intermediate with porp texture, patchy strong bleached sil/ab, numerous chl-cb fractures, vfg, <1% qcs/qs, <1% py
16.90	17.70	0.80	455622	Silicified/Albitized CIC - strong to intense bleached sil/ab, numerous chl-cb fractures, vfg, <1% qcs/qs with 5 cm wide qs/qcs at lc, <1% py
17.70	18.35	0.65	455623	Chlorite-(Carbonate) Shear - strong chlorite and weak to locally moderate carbonate alteration, strongly sh, 3% to 5% qcs/cs, <1% py
18.35	19.10	0.75	455625	CIC -felsic to intermediate in composition with wk chl-ep of fd/amp, 5% qtz/qe, equigranular texture, <1% qcs/qs, <1% py
19.10	19.75	0.65	455626	CIC -felsic to intermediate in composition with wk chl-ep of fd/amp, 5% qtz/qe, equigranular texture, minor gabbroic inclusion, o<1% qcs/qs, <1% py
19.75	20.30	0.55	455627	Sericitic-Chloritic Hydrothermal Intrusive Bx - mod to strong ser alt clasts in a wk ch matrix, bx texture, mod fol, <1% qcs and py
20.30	21.40	1.10	455628	CIC -felsic to intermediate in composition with wk chl-ep of fd/amp, 5% qtz/qe, equigranular texture, wispy and diffuse chl gabbroic inclusion, o<1% qcs/qs, <1% py
21.40	22.50	1.10	455629	Gabbro Raft, mod chl, vfg and msv/wk foliated, <1% qcs/qs and py
22.50	23.00	0.50	455630	CIC Breccia - felsic to intermediate composition with assimilated gabbroic inclusions, wk/mod chl, relict porp texture, <1% qcs and py
23.00	23.80	0.80	455631	CIC Breccia - felsic to intermediate composition with assimilated gabbroic inclusions, wk/mod chl, relict porp texture, <1% qcs and py
23.80	24.40	0.60	455632	Silicified Hydrothermal Intrusive Breccia - strong/intense sil with wk to mod hem stan, bx texture, <1% qcs/qs, occasional py < 1%
24.40	25.00	0.60	455633	Gabbro Raft - mafic composition with mod chl and wk cb, equigranular texture, <1% qcs and py
55.50	56.00	0.50	455634	CIC - felsic to intermediate in composition with wk/mod chl with amp in interstitial matrix, mg, sub-porp/equigranualr texture, gabbro incl, <1% qs/qcs and py
56.00	56.60	0.60	455635	CIC - felsic to intermediate in composition with wk/mod chl with amp in interstitial matrix, mg, sub-porp/equigranualr texture, gabbro incl, <1% qs/qcs and local aspy at 56.5, <0.5% py-aspy
56.60	57.10	0.50	455637	Diabase - mafic composition, vfg and msv, <1% cs/qcs, barren and mod/strong magnetics
69.60	70.20	0.60	455638	CIC - felsic to intermediate in composition being feldsphyric, 5% to 10% qtz/qe, porp texture, <1% qs and py

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From (m)	To (m)	Length (m)	Sample #	Comments
70.20	70.60	0.40	455639	Silicified CIC - felsic to intermediate in composition with strong sil bands with numerous sil-chl fractures, <1% qs, 1% to 2% vfg disseminated py-aspy
70.60	71.00	0.40	455640	Silicified CIC - altered felsic to intermediate in composition with strong per sil, local chl interstitial, <1% qs, 1% to 2% vfg disseminated py-aspy
71.00	72.25	1.25	455641	CIC - felsic to intermediate in composition being feldsphyric, 5% to 10% qtz/qe, porp texture, <1% qs and py
96.00	97.00	1.00	455642	Gabbro - mafic in composition, mod chl & variable wk to strong pervasive cb, 5% qcs/cs, <1% scattered py
97.00	98.00	1.00	455643	Gabbro - mafic composition, mod chl and wk/mod cb, msv, 1% to 2% qcs, <1% py
98.00	98.75	0.75	455644	Gabbro - mafic composition, mod chl and wk/mod cb, msv, 1% to 2% qcs, <1% py
98.75	99.40	0.65	455645	Gabbro - mafic composition, mod chl and wk/mod cb, strong ca-cb fractures, msv, 2% to 5% qcs, 2% to 3% scattered py cubes
99.40	100.15	0.75	455646	Gabbro - mafic composition, mod chl and wk/mod cb, strong ca-cb fractures, msv, 5% to 10% qcs, 2% to 4% scattered py cubes
100.15	101.00	0.85	455647	Gabbro - mafic composition, mod chl and wk/mod cb, strong ca-cb fractures, msv, 2% to 5% qcs, 2% to 3% scattered py cubes
101.00	101.95	0.95	455649	Fractured Gabbro - mafic composition, mod to strong chl and wk/mod cb, strong ca-cb fractures, msv, 15% qcs, up to 1% scattered py cubes
101.95	103.00	1.05	455650	CIC Breccia - felsic with wk/mod sil in CIC and mod chl in gabbro rafts, bx texture, 1% to 3% qcs/cs, <1% py
103.00	103.80	0.80	455651	CIC Breccia - felsic with wk/mod sil in CIC and mod chl in gabbro rafts, bx texture, 1% to 3% qcs/cs, <1% py
103.80	104.30	0.50	455652	CIC Breccia - felsic with wk/mod sil in CIC and mod chl in gabbro rafts, bx texture, 1% to 3% qcs/cs, <1% py
104.30	105.00	0.70	455653	CIC Breccia - felsic with wk/mod sil in CIC and mod chl in gabbro rafts, bx texture, 1% to 3% qcs/cs, <1% py
105.00	106.00	1.00	455654	CIC Breccia - felsic with wk/mod sil in CIC and mod chl in gabbro rafts, bx texture, 1% to 3% qcs/cs, <1% py
106.00	107.00	1.00	455655	CIC Breccia - felsic with wk/mod sil in CIC and mod chl in gabbro rafts, bx texture, 1% to 3% qcs/cs, <1% py
107.00	107.60	0.60	455656	CIC Breccia - felsic with wk/mod sil in CIC and mod chl in gabbro rafts, bx texture, 1% to 3% qcs/cs, <1% py
107.60	108.60	1.00	455657	CIC Breccia - felsic with wk/mod sil in CIC and mod chl in gabbro rafts, bx texture, 1% to 3% qcs/cs, <1% py
108.60	109.05	0.45	455658	CIC Breccia - felsic with wk/mod sil in CIC and mod chl in gabbro rafts, bx texture, 1% to 3% qcs/cs, <1% py
109.05	110.00	0.95	455659	Gabbro - mafic being mod chl and wk/mod cb, wk fol, fractured with 10% qcs/cs, <1% py
110.00	111.00	1.00	455661	Gabbro - mafic being mod chl and wk/mod cb, wk fol, 2% to 3% qcs/cs, <1% py
111.00	112.00	1.00	455662	Gabbro - mafic being mod chl and wk/mod cb, wk fol, 2% to 3% qcs/cs, <1% py
112.00	112.30	0.30	455663	Gabbro - mafic being mod chl and wk/mod cb, wk fol, 2% to 3% qcs/cs, <1% py
112.30	113.00	0.70	455664	CIC Breccia - felsic to intermediate with wk/mod sil CIC and chl gabbro rafts, 1% to 2% qcs/cs, <1% py
113.00	114.00	1.00	455665	CIC Breccia - felsic to intermediate with wk/mod sil CIC and chl gabbro rafts, 1% to 2% qcs/cs, <1% py
114.00	115.00	1.00	455666	CIC Breccia - felsic to intermediate with wk/mod sil CIC and chl gabbro rafts, 1% to 2% qcs/cs, <1% py

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115.00	116.00	1.00	455667	CIC Breccia - felsic to intermediate with wk/mod sil CIC and chl gabbro rafts, 1% to 2% qcs/cs, <1% py
116.00	116.50	0.50	455668	CIC Breccia - felsic to intermediate with wk/mod sil CIC and chl gabbro rafts, 1% to 2% qcs/cs, <1% py
116.50	117.15	0.65	455669	CIC Breccia - felsic to intermediate with wk/mod sil CIC and chl gabbro rafts, 1% to 2% qcs/cs, <1% py
117.15	117.45	0.30	455670	CIC Breccia - felsic to intermediate with wk/mod sil CIC and chl gabbro rafts, 1% to 2% qcs/cs, 2% to 5% disseminated py-aspy
117.45	118.50	1.05	455671	CIC Breccia - felsic to intermediate with wk/mod sil CIC and chl gabbro rafts, 5% qcs/cs, <1% py
118.50	119.50	1.00	455673	CIC Breccia - felsic to intermediate with wk/mod sil CIC and chl gabbro rafts, 5% qcs/cs, <1% py
119.50	120.30	0.80	455674	CIC - felsic-intermediate composition with wk/mod sil/chl, msv, vfg, 1% to 2% qcs and <1% py
120.30	121.30	1.00	455675	Gabbro - mafic with mod chl and wk/strong cb, sh, possible CIC sh dykes, <1% qcs, <0.5% py
121.30	122.00	0.70	455676	Gabbro - mafic with mod chl and wk/strong cb, sh, possible CIC sh dykes, <1% qcs, <0.5% py
122.00	122.30	0.30	455677	Gabbro - mafic with mod chl and wk/strong cb, sh, possible CIC sh dykes, <1% qcs, <0.5% py
122.30	123.10	0.80	455678	Ankerite-Siderite-Chlorite Shear - strong ank-sid-chl , strong sh laminated texture, <1% qs/qcs, fold nose with <1% cpy-py in qs at end of interval, overall <1% cpy-py
123.10	124.00	0.90	455679	Ankerite-Siderite-Chlorite Shear - strong ank-sid-chl , strong sh laminated texture, <1% qs/qcs, series of fold noses, <1% py-cpy
124.00	124.60	0.60	455680	Ankerite-Siderite-Chlorite Shear - strong ank-sid-chl , strong sh laminated texture, <1% qs/qcs, crenulated and buckled lam and series of fold noses, <1% py-cpy
124.60	125.20	0.60	455681	Ankerite-Siderite-Chlorite Shear - strong ank-sid-chl , strong sh laminated texture with numerous flexures, <1% qs/qcs,, <1% py-cpy
125.20	125.90	0.70	455682	Ankerite-Siderite-Chlorite Shear - strong ank-sid-chl , strong sh laminated texture, strongly crenulated and numerous flexures with fold nose and folding, <1% qs/qcs, <1% py-cpy and more frequent in sil lam in fold nose
125.90	126.30	0.40	455683	QTCSW/Ankerite-Siderite-Chlorite Shear -strong ank-sid-chl, strongly sh lam and folded, fractured with 30% qcs, 1% to 3% scattered vfg cpy-py-aspy mainly in qcs
126.30	126.70	0.40	455685	Ankerite-Siderite-Chlorite Shear - strong ank-sid-chl , strong sh laminated texture, strongly crenulated/buckled/folded and numerous flexures, <1% qs/qcs, <1% py-cpy
126.70	127.15	0.45	455686	Ankerite-Siderite-Chlorite Shear - strong ank-sid-chl , strong sh laminated texture, strongly crenulated/buckled/folded and numerous flexures, series of fold noses, <1% qs/qcs, <1% py-cpy
127.15	127.45	0.30	455687	Weak QTCSW/Ankerite-Siderite-Chlorite Shear - strong ank-sid-chl , strong sh laminated texture, strongly crenulated/buckled/folded, 15% qs/qcs, <1%-2% cpy>py>aspy mainly in qs/qcs
127.45	128.30	0.85	455688	Ankerite-Siderite-Chlorite Shear - strong sh laminated ank-sid-chl, increase in sil as lam/bnds, strongly sh, <1% qcs, increase in vfg disseminated py 1% to locally 3%
128.30	128.80	0.50	455689	Ankerite-Siderite-(Silicified)-Pyrite Shear - strong sh controlled ank-sid with mod chl with wk/locally mod sil, strongly sh, <1% qs/qcs, 2% to 5% vfg disseminated py-aspy-cpy
128.80	129.30	0.50	455690	Ankerite-Siderite-Silicified-Pyrite Shear - strong sh controlled ank-sid with strong sil, strongly sh, <1% qs/qcs, 10% to 15% vfg disseminated py-aspy-cpy
129.30	129.80	0.50	455691	Ankerite-Siderite-(Silicified)-Pyrite Shear - strong sh controlled ank-sid with mod chl and strong sil bnds, strongly sh, <1% qs/qcs, 2% to 5% vfg disseminated py-aspy-cpy
129.80	130.30	0.50	455692	Ankerite-Siderite-Silicified-Pyrite Shear - strong sh controlled ank-sid with strong sil bnds, strongly sh, <1% qs/qcs, 5% to 10% vfg disseminated py-aspy-cpy
130.30	131.30	1.00	455693	Ankerite-Siderite-Silicified-Pyrite Shear - strong sh controlled ank-sid with strong sil bnds, strongly sh, <1% qs/qcs, <1% to 5% vfg disseminated py-aspy-cpy
131.30	131.70	0.40	455694	Ankerite-Siderite-Silicified-Pyrite Shear - strong sh controlled ank-sidsil, pervasive strong/intense sil, strongly sh, 5% qs/qcs up to 4 cm wide,, <1% to 2% vfg disseminated py-aspy-cpy

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131.70	132.30	0.60	455695	Ankerite-Siderite-Silicified-(Chlorite) Shear - strong ank-sid with mod sil and relict chl, strongly sh, <1% qs, <1% py with the last 15 cm averaging 5% disseminated py in strong sil band
132.30	133.00	0.70	455697	Ankerite-Siderite-Silicified-(Chlorite) Shear - strong ank-sid with mod to strong sil and relict chl, strongly sh, <1% qs, <1% py
133.00	134.00	1.00	455698	Ankerite-Siderite-Silicified-(Chlorite) Shear - strong ank-sid with mod to strong sil and relict chl, strongly sh, <3% to 4% qs with qs pod with 2% to 5% py along its margins, overall < 1% py
134.00	135.00	1.00	455699	Ankerite-Siderite-Silicified-(Chlorite) Shear - strong ank-sid with mod to strong sil and relict chl, strongly sh, <1% qs, <1% py
135.00	135.60	0.60	455700	Ankerite-Siderite-Silicified-(Chlorite) Shear - strong ank-sid with mod to strong sil and relict chl, strongly sh, <1% qs, <1% py
135.60	136.30	0.70	455701	Ankerite-Siderite-Silicified Shear - strong ank-sid and strong to intense sil and relict chl, strongly sh, <1% qs, 10% to 20%disseminated py associated with strong sil
136.30	137.00	0.70	455702	Ankerite-Siderite-Silicified-(Chlorite) Shear - strong ank-sid with mod to strong sil and relict chl, strongly sh, relict porp with 5% to 10% mg to cg qe, <1% qs, <1% py
137.00	137.80	0.80	455703	Ankerite-Siderite-Silicified-(Chlorite) Shear - strong ank-sid with mod to strong sil and relict chl, stronger sil at end of interval, strongly sh, relict porp with 5% to 10% mg to cg qe, <1% qs, <1% py
137.80	138.60	0.80	455704	Ankerite-Siderite-Chlorite-Silicified Shear (CIC Breccia) - variable strong alteration with strong ank-sid-chl with local sil, wk ca-cb, strongly sh, 5% thin qcs/qs, <1% py
138.60	139.00	0.40	455705	Ankerite-Siderite-Silicified- Chlorite (CIC Breccia) - variable strong alteration with strong ank-sid-chl with increased strong sil in shear bnds, strongly sh, 5% thin qcs/qs, 2% to 5% vfg py-cpy-aspy along sh planes up to 0.5 cm wide
139.00	139.50	0.50	455706	Ankerite-Siderite-Silicified Shear - bleached gray color, strong to intense ank-sid-sil with relict chl, strong sil sh bnds, locally bx, 5% qs, 10% vfg disseminated py-(aspy)
139.50	139.85	0.35	455707	Ankerite-Siderite-Silicified Shear - bleached pinkish white color, strong to intense ank-sid-sil with relict porp with 5% to 10% blue qe, 6 cm qs accounting for 20%, <1%% vfg py
139.85	141.05	1.20	455708	Ankerite-Siderite-Chlorite-Silicified Shear (CIC Breccia) - variable strong alteration with strong ank-sid-chl with local sil, wk ca-cb, strongly sh, 2% to 4% thin qcs/qs, <1% py
141.05	141.70	0.65	455709	Ankerite-Siderite-Chlorite-Silicified Shear (CIC Breccia) - variable strong alteration with strong ank-sid-chl with local sil, wk ca-cb, strongly sh, <1% qcs/qs, <1% to locally 5% vfg disseminated py in the strong sil bands
141.70	142.25	0.55	455710	Quartz Stockwork - strongly altered sheared wallrock with strong chl-ca-cb with ankerite, strong sh, qs/qcs (<3 to 5 cm wide) comprising 30% of the interval, qcs/qs parallel to sub-parallel to strong shearing, 5% vfg disseminated aspy>py generally in altered wallrock.
142.25	142.70	0.45	455711	Sheared CIC Bx - variable sil-(ser) alt CIC and chl altered gabbro, ank-sid?, strongly sh, <1% qcs, <1% py-aspy at upper interval
142.70	143.70	1.00	455713	Sheared Gabbro - strong/intense chl with minor CIC,mod cb along sh planes/fract, strongly sh, 5% qcs, <1% py
143.70	144.20	0.50	455714	Sheared CIC Bx - variable sil-(ser) alt CIC and chl altered CIC and gabbro, ank-sid?, strongly sh, 5% qcs, <1% py
144.20	145.30	1.10	455715	Sheared CIC Bx - variable sil-(ser) alt CIC and chl altered CIC and gabbro, ank-sid?, strongly sh, 1% to 2% qcs, <1% py
145.30	145.60	0.30	455716	CIC/QP Dyke - felsic to intermediate with wk to mod sil-chl, 10% to 20% qe, porp, <1% qs/qcs and py
145.60	146.00	0.40	455717	Sheared CIC Bx - variable sil-(ser) alt CIC and chl altered CIC and gabbro, ank-sid?, strongly sh, 1% to 2% qcs, <1% py
146.00	146.75	0.75	455718	Sheared CIC Bx - predominantly strong sil with 5% to 10% sh gabbroic rafts, ank-sid?, strongly sh, 1% to 2% qcs, 5% vfg disseminated py-aspy assoicated with the more silicified section of the interval
146.75	147.40	0.65	455719	Sheared CIC Bx - predominantly strong sil with 15% to 20% sh gabbroic rafts, ank-sid?, strongly sh, 1% to 2% qcs, up to 1% widely scattered py-aspy associated with sil flooding
147.40	147.95	0.55	455720	Sheared CIC Bx - predominantly strong sil with 15% to 20% sh gabbroic rafts, ank-sid?, strongly sh, 1% to 2% qcs, up to 1% widely scattered py-aspy associated with sil flooding
147.95	149.00	1.05	455721	Gabbro - mafic composition wirh wk/mod chl and cb, wk sil?, msv, 1% to 2% thin qs, <1% py

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149.00	150.00	1.00	455722	Gabbro - mafic composition wirh wk/mod chl and cb, wk sil?, msv and fractured with 5% to 10% qs, , <1% py
150.00	150.70	0.70	455723	Gabbro with Minor CIC - mafic composition with mod sil, xcutting pinkish ank-sil-(kspar?) altered CIC (20%), 2% to 3% qs, up to 1% py with increase in py towards 150.7
150.70	151.00	0.30	455725	Gabbro - mafic composition with mod sil, msv, 1% to 2% qs, , <1% to locally patchy 5% py with increase py along thin glassy qs margins
151.00	151.60	0.60	455726	Gabbro (Minor CIC) - mafic composition wth mod sil, msv, 1% to 2% thin qs, <1% py
151.60	152.35	0.75	455727	Sheared CIC Bx - strong/intense pink sil-ank-(kspar?) CIC and mod sil gabbro rafts, strongly sh bnded, 1% to 2% qs/qcs, <1% py
152.35	153.35	1.00	455728	Sheared CIC Bx - strong/intense pink sil-ank-(kspar?) CIC and mod sil gabbro rafts, strongly sh bnded, 3% to 4% qs/qcs, 2% to 3% local patchy vfg py and aspy generally in margins or in qs
153.35	154.00	0.65	455729	Sheared CIC Bx - strong/intense pink sil-ank-(kspar?) CIC and wk sil with increased chl in gabbro rafts, strongly sh bnded, 3% to 4% qs/qcs, <1% py-aspy
154.00	154.30	0.30	455730	Chlorite-Silicified-Ankerite Shear - intermediate mixture of chl, qtz, ank, mod to strongly sh, <1% qs and py
154.30	154.95	0.65	455731	Silicified-Fuschite Shear - mod to strong sil-fus and strongly sh bnded, possible ank?, 8% qs xcutting sh, 3% to 5% vfg disseminated py-(aspy)
154.95	155.50	0.55	455732	Chlorite Shear - strong chl and wk to no ca-cb, strongly sh with 5% qcs/cs parallel to sh, <1% py-(aspy)
155.50	156.05	0.55	455733	Silicified-Chlorite Sheared CIC - mod sil and mod interstitial chl, relict qtz/qe giving porp texture, 1% qs/qcs, < 1% py
156.05	156.50	0.45	455734	Weak QTSW/Silicified-(Chlorite) Sheared & Fractured CIC - strong sil on margins of 15% qs…fractured and sheared, interstitial relict chl, up to 1% to 2% disseminated cpy in local qs with <1% py-aspy
156.50	157.10	0.60	455735	QTSW/Silicified-(Ankerite) Shear - mod to strong sil with ank?, strongly sheared and fractured with 20% qs/qcs, <1% vfg scattered py
157.10	157.60	0.50	455737	QTSW - mod chl-sil in mafic wr, sh and strongly fractured with 25% qs/qcs parallel to sh, <1% py-aspy
157.60	157.85	0.25	455738	Silciified-Fuschiyte Shear - strong pervasive sil-fus in sh bnded form, 20% to 30% qs, <1% to local 5% vfg disseminated py-(aspy)
157.85	158.60	0.75	455739	Ankerite-Siderite Shear - strong sh-controlled ank-sil-(sil?), strongly sh, <1% qs, <1% py
158.60	159.45	0.85	455740	Sheared Silicified CIC Breccia - strong/intense sil with possible ank? In CIC and mod sil in gabbro rafts, strong sh, 5% thin qs/qcs, widely scattered py-(aspy) <1%
159.45	160.25	0.80	455741	Silicified CIC - bleached strong sil-(ab?) and possible ank, sil flooding of matrix with spotty chl, <1% qs, up to 1% scattered py and locally up to 2% py
160.25	161.00	0.75	455742	Silicified Shear - interbanded strong/intense sil flooded CIC and mod sil gabbro rafts, banded/sh texture, <1% py-aspy with local aspy at upper part of interval
161.00	161.90	0.90	455743	Sheared Silicified CIC Bx - strong/intense sil CIC with strong chl sh at lc with 10% qs/qcs paralle to sh,, overall 5% to 10% qcs/qs, <1% py-(aspy)
161.90	162.40	0.50	455744	Silicified-Ankerite CIC - strong per sil-ank-(ab?) with relict chl, relict porp, <1% qs, 1% to 2% scattered py
162.40	162.90	0.50	455745	Silicified-Ankerite CIC - strong per sil-ank-(ab?) with relict chl, relict porp, <1% qs, 1% to 2% scattered py
162.90	163.50	0.60	455746	Silicified-Ankerite CIC - strong per sil-ank-(ab?) with relict chl, relict porp, <1% qs, 2% to 4% scattered py
163.50	164.15	0.65	455747	Silicified-Ankerite CIC - strong per sil-ank-(ab?) with relict chl, relict porp, <1% qs, 2% to 5% scattered py
164.15	165.00	0.85	455749	Chloritic-Carbonate Altered QP - mod to strong chl with mod cb altered matrix, relict 5% to 10% vfg to fg qe, relict porp, 1% to 2% qcs/cs, 1% top 2% vfg scattered py
165.00	165.95	0.95	455750	Chloritic-Carbonate Altered QP - mod to strong chl with mod cb altered matrix, relict 5% to 10% vfg to fg qe, relict porp, 1% to 2% qcs/cs, 1% top 2% vfg scattered py

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number **WAT17-09** Project: **WATERSHED EAST** Project Number: **259**

From (m)	To (m)	Length (m)	Sample #	Comments
165.95	166.70	0.75	455751	GTT/QP - felsic to intemediate composition with mod/strong hem, 20% mg blue qe, porp, 1% to 2% qs/qcs, <1% py
166.70	167.65	0.95	455752	Gabbro Raft - mafic composition with mod chl and mod/strong per cb, vfg/msv and 10% qcs/cs, <1% widely scattered py
167.65	168.05	0.40	455753	QTCSW/Fractured Gabbro - mafic in composition with mod chl and strong per cb, fractured with 20% qcs/cs, 3% to 5% vfg disseminated py with <1% cpy
168.05	169.00	0.95	455754	GTT Dykes xcut Gabbro - GTT dykes (30%) xcut vfg massive gabbro with mod chl and strong cb, 5% qcs/cs, scattered vfg py (1% to 2%) mainly in gabbro
169.00	170.00	1.00	455755	GTT Dykes xcut Gabbro - GTT dykes (23%) xcut vfg massive gabbro with mod chl and strong cb decreasing towards end of interval, 2% to 3% qcs/cs, scattered vfg py (1% to 3%) mainly in gabbro
170.00	170.70	0.70	455756	GTT with Minor Gabbro Rfts - felsic to intermediate in composition with wk to locally mod hem, feldsphyric with 5% to 10% qe, porp, 1% to 3% qs/qcs, <1% py
170.70	171.50	0.80	455757	Gabbro (minor GTT Dyke) - mafic incomposition with mod chl with mod pervasive cb, vfg, scattered qcs/cs (5%) with cg py cubes up to 1%
171.50	172.00	0.50	455758	Sheared and Fractured Gabbro (QTCSW) - mafic composition with mod chl and wk/mod cb, strong cb fract/bnds, sh, 20% qcs/cs bands, <1% py
172.00	173.00	1.00	455759	Feldsphyric Gabbro - mafic composition with 25% to 35% mg fd, porp texture, < 1% qcs/qs and py
179.85	180.35	0.50	455761	Gabbro Raft - mafic composition with mod chl-ep and mod per ca-cb, sub-porp texture, <1% qcs and py, wk mag
180.35	181.00	0.65	455762	CIC Dyke (QP) Xcut Gabbro - 10 cm wide CIC is strong with strong chl and wk cb…strong cb in fractures, 1% to 2% cs/qcs, wk fol, patchy <1% py and local 1% py
181.00	182.00	1.00	455763	Choritic GTT (QP) - mod to strong chl with wk cb, <1% qcs, patchy 1% to 2% scattered py
182.00	182.60	0.60	455764	Choritic GTT (QP) - mod to strong chl with wk cb, <1% qcs, <1% py
182.60	183.20	0.60	455765	CIC Bx - mod chl with mix of chl altered GTT and gabbro inclusions, 5% cs fractures, 1% to 3% vfg scattered py
183.20	183.65	0.45	455766	CIC Bx - 10 cm QP dyke with chl altered interstitial xcut gabbroic raft with mod chl/wk cb and vfg msv, 55 disseminated py in CIC and gabbro with local splash of cpy < 1%
183.65	184.65	1.00	455767	CIC Bx - 24 cm wide QFP xcut gabbro, <1% qs/qcs and py
192.00	192.55	0.55	455768	CIC Bx - felsic to intermediate in composition with 10% qe, gabbroic rafts/xenoliths up to 10 cm, <1% qcs, occasional to scattered py <1% with increase py up to 1% towards lower contact with shear
192.55	193.00	0.45	455769	Chlorite-Carbonate Shear - strong chl-cb and sh, <1% qcs and py
193.00	193.50	0.50	455770	Chlorite-Carbonate Shear - strong chl-cb and sh, 20% to 25% qcs parallel to sh, <1% py
193.50	194.30	0.80	455771	Chlorite-Carbonate Shear - strong chl-cb and sh, 5% qcs parallel to sh, <1% py
194.30	195.00	0.70	455773	Chloritic GTT/QP - strong pervasive chl with wk to locally mod cb, relict porp with 5% to 10% qe, <1% qcs and py
211.80	212.80	1.00	455774	GTT/QFP - felsic to intermediate in composition with 15% to 25% qe, porp texture, scattered thin sil-chl sh fractures up to 3-4 cm wide, <1% py-aspy in fractures
212.80	213.80	1.00	455775	GTT/QFP - felsic to intermediate in composition with 15% to 25% qe, porp texture, scattered thin sil-chl sh fractures up to 3-4 cm wide, up to 1% to 2% py-aspy in fractures
213.80	214.80	1.00	455776	GTT/QFP - felsic to intermediate in composition with 15% to 25% qe, porp texture, scattered thin sil-chl sh fractures up to 3-4 cm wide, <1% py-aspy in fractures
214.80	215.40	0.60	455777	Silicified GTT/QFP - strong sil as bands (75%) with unaltered felsic to intemediate, relict porp, 5% qs in 5 cm wide qs, <1% widely scattered py-(aspy)l
215.40	216.15	0.75	455778	Quartz Stockwork - strong to intense chl alteration with weak carbonate (calcite) with increased strong cb along weak sh/foliation planes, weakly foliated/sh, series of thin boudinaged qs pods/lenses up 12 cm wide ranging 25% to 30%, <1% scattered py-(cp

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number **WAT17-09** Project: **WATERSHED EAST** Project Number: **259**

From (m)	To (m)	Length (m)	Sample #	Comments
216.15	217.20	1.05	455779	GTT/QFP - felsic to intermediate in composition with 15% to 25% qe, porp texture, scattered thin sil-chl sh fractures up to 3-4 cm wide, <1% py-(aspy) with increase in py towards the bottom of the interval
217.20	218.20	1.00	455780	Gabbro mafic in composition with mod chl and strong per ca-cb, vfg and msv, <1% qcs and py
218.20	219.70	1.50	455781	Gabbro -mafic composition with mod to strong chl-cb, msv, vfg, <1% qcs and py
219.70	221.20	1.50	455782	Gabbro -mafic composition with mod to strong chl-cb, msv, vfg, <1% qcs and py
221.20	221.90	0.70	455783	Gabbro (local GTT/QP along core axis) - mafic composition with mod/strong chl and strong cb, wk fol with ca-cb, 2% to 5% py-aspy-arsenian pyxtls with <1% cpy
221.90	222.60	0.70	455785	Fractured GTT/QP - strong sil flooding of matrix with strong chl about 10% qs, gabbroic incl, 1% to 2% widely scattered py
222.60	223.50	0.90	455786	Gabbro Raft xcut by CIC (20%) - mafic composition with strong per cb and mod chl, vfg and msv, <1% qcs, 1% to 2% vfg disseminated py
223.50	224.50	1.00	455787	CIC Bx - felsic to intermediate in composition with mod sil, 20% to 30% chl-cb altered gabbro, <1% qcs, <1% pyto local 2% to 3% vfg py in gabbroic inclusions
224.50	225.50	1.00	455788	CIC Bx - felsic to intermediate in composition with mod sil, 40% to 45% chl-cb altered gabbro, <1% qcs, <1% py to local 2% to 3% vfg py in gabbroic inclusions
225.50	226.25	0.75	455789	CIC Bx - felsic to intermediate in composition with mod sil, 30% chl-cb altered gabbro, <1% qcs, up to 1% vfg scattered py mainly in gabbroic inclusions
226.25	226.85	0.60	455790	Gabbro Raft xcut by GTT (20%), mafic in composition with strong per ca-cb, xcut GTT dyke, < 1% qcs and py
226.85	227.85	1.00	455791	GTT/QFP - felsic to intermediate in composition with strong sil at lc, porp texture, 5% qs/qcs, <1% py
227.85	228.80	0.95	455792	Gabbro xcut by Minor GTT - mafic composition being mod to strong cb and wk-mod chl, xcut by vfg sil GTT, 3% to 5% qs, <1% widely scattered vfg py
228.80	230.00	1.20	455793	Silicified GTT/QFP - bleached dgray strong sil grading sections with unaltered porp felsic, <1% qs and py
230.00	231.00	1.00	455794	GTT/QFP - felsic to intermediate in composition with 30% strong per vfg sil sections, 2% qcs, <1% py
231.00	232.00	1.00	455795	GTT/QFP - felsic to intermediate in composition withstrong sil at lc, <1% qcs, <1% py
232.00	233.00	1.00	455797	Gabbro - mafic composition with mod per chl-cb, upper contact with CIC with cpy fract with overall <1%, vfg disseminated py-(aspy) 1% to 2%
233.00	234.00	1.00	455798	Gabbro - mafic composition with mod chl-cb, vfg & msv, scattered qcs 1% to 2%, vfg scattered py-(aspy) up to 1%
234.00	235.00	1.00	455799	Gabbro - mafic composition with mod chl-cb, vfg & msv, scattered qcs 1% to 2%, <1% py
235.00	236.20	1.20	455800	Gabbro - mafic composition with mod chl-cb, vfg & msv, scattered qcs 1% to 2%, <1% py
236.20	236.70	0.50	455801	Chloritic GTT/QP - mod chl-cb interstitial alteration, 10% to 20% qe, porp, <1% qcs, wk fol/sh, widely scattered py up to 1%
236.70	237.40	0.70	455802	Chloritic and Sheared Gabbro Raft in CIC/QP - strong/intense chl with wk-mod cb, sh/fol, 2% to 3% qcs parallel to sh, up to 1% py
237.40	237.85	0.45	455803	Porphyritic CIC/QP - felsic to intermediate in composition, porp texture with 20% to 25% qtz>fd, 5 cm qs at lower contact, <1% py
237.85	238.85	1.00	455804	Gabbro - mafic in composition with mod chl and strong cb, wk fol, <1% qcs, widely scattered py <1%
245.20	246.20	1.00	455805	Gabbro - mafic composition with mod per chl-cb, vfg and msv, 1% to 2% qcs/cs, <1% py
246.20	247.00	0.80	455806	Silicified GTT/QFP - strong sil sections (37%) associated with qs, otherwise unaltered porp, 1% to 2% qs, <1% py-(cpy) more noteable in the sil sections

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number **WAT17-09** Project: **WATERSHED EAST** Project Number: **259**

From (m)	To (m)	Length (m)	Sample #	Comments
247.00	247.75	0.75	455807	Silicified GTT/QFP -felsic to intermediate composition being porp with 10% strong sil sections, <1% qs, <1% py
247.75	249.00	1.25	455808	Chloritic QP - mod chl with cb altered interstitial about 5% to 10% qe, local 10 cm wide QFP dyke, 1% to 2% qcs/cs, widely scattered vfg py-(cpy) <1%
249.00	249.35	0.35	455809	GTT/QFP - felsic to intermediate in composition, porp, <1% qs/qcs and py
249.35	250.40	1.05	455810	Chloritic QP - mod chl with cb altered interstitial about 5% to 10% qe, local 10 cm wide QFP dyke, 1% to 2% qcs/cs, widely scattered vfg py-(cpy) <1%
250.40	251.20	0.80	455811	Silicified GTT/QFP - mod to strong grad sil sections, relict porp texture, 2% to 3% qs, <1% py
251.20	252.00	0.80	455813	Quartz Diorite - intermediate in composition being leucocratic, wk/local mod chl and wk cb, phaneritic texture, <1% qcs/qs and py
252.00	253.00	1.00	455814	Quartz Diorite - intermediate in composition being leucocratic, wk cb, phaneritic texture, <1% qcs/qs and py

DRILL HOLE REPORT

Hole Number: **WAT17-10** Project: **WATERSHED EAST** Project Number: **259**

Drilling		Casing		Core		Location		Other	
Azimuth:	29.3	**Length:**	3.5	**Dimension:**	NQ	**Claim No.:**	100408, 163531	**Company:**	IAMGOLD
Dip:	-53.7	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	308	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Stephen Roach
Started:	17-Nov-17	**Cemented:**	no	**Hole Type**	DDH	**Section:**	81+00E	**Surveyed:**	yes
Completed:	19-Nov-17	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	Larry Labelle
Logged:	27-Nov-17	**Making water:**	yes	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: North Shear

Comment: Down plunge extension of the North Shear extension grading on HW diabase with channel composites in NZ-07 grading 4.54 g/t Au /1.63 meters (including 10.56 g/t Au / 0.50 meters) & in a wider envelope of 2.60 g/t Au /3.58 meters; channel NZ-05 grades 1.49 g/t Au / 4.55 meters on FW diabase contact; intersect zone at 110-130 meters vertically below surface; coinciding with a moderate chargeability anomaly up to 7.78 mV/v

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	435878	**East:**	435878	**East:**	0
North:	5267901.69	**North:**	5267901.69	**North:**	0
Elev.:	399.42	**Elev.:**	399.42	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
0.00	29.30	-53.70	0	0	0		C	☑	
2.00	25.40	-55.00				56353	M	☑	
5.00	25.30	-55.00				56356	M	☑	
8.00	25.20	-55.00				56318	M	☑	
11.00	25.20	-55.00				56326	M	☑	
14.00	26.60	-55.00				56076	M	☑	
17.00	27.90	-54.90				54662	M	☑	
20.00	29.90	-55.00				56394	M	☑	
23.00	29.00	-54.90				55309	M	☑	
26.00	28.70	-55.10				55054	M	☑	
29.00	31.80	-54.70				54511	M	☑	
32.00	27.60	-54.80				55035	M	☑	
35.00	31.60	-54.80				54390	M	☑	
38.00	35.90	-54.70				54043	M	☑	
41.00	29.10	-54.40				54345	M	☑	

DRILL HOLE REPORT

Hole Number: **WAT17-10** Project: **WATERSHED EAST** Project Number: **259**

Drilling		Casing		Core		Location		Other	
Azimuth:	29.3	**Length:**	3.5	**Dimension:**	NQ	**Claim No.:**	100408, 163531	**Company:**	IAMGOLD
Dip:	-53.7	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	308	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Stephen Roach
Started:	17-Nov-17	**Cemented:**	no	**Hole Type**	DDH	**Section:**	81+00E	**Surveyed:**	yes
Completed:	19-Nov-17	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	Larry Labelle
Logged:	27-Nov-17	**Making water:**	yes	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: North Shear

Comment: Down plunge extension of the North Shear extension grading on HW diabase with channel composites in NZ-07 grading 4.54 g/t Au /1.63 meters (including 10.56 g/t Au / 0.50 meters) & in a wider envelope of 2.60 g/t Au /3.58 meters; channel NZ-05 grades 1.49 g/t Au / 4.55 meters on FW diabase contact; intersect zone at 110-130 meters vertically below surface; coinciding with a moderate chargeability anomaly up to 7.78 mV/v

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	435878	**East:**	435878	**East:**	0
North:	5267901.69	**North:**	5267901.69	**North:**	0
Elev.:	399.42	**Elev.:**	399.42	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
44.00	26.60	-54.30				55257	M	☑	
47.00	28.40	-54.40				55017	M	☑	
50.00	27.60	-54.30				54879	M	☑	
53.00	29.00	-54.30				56772	M	☑	
56.00	27.90	-54.30				55546	M	☑	
59.00	22.90	-54.30				56404	M	☑	
62.00	27.10	-54.10				56934	M	☑	
65.00	29.40	-54.20				57229	M	☑	
68.00	27.40	-54.20				56350	M	☑	
71.00	27.70	-54.20				54981	M	☑	
74.00	27.90	-54.00				54693	M	☑	
77.00	28.30	-54.00				54936	M	☑	
80.00	28.80	-53.80				54863	M	☑	
83.00	29.10	-53.70				54716	M	☑	
86.00	29.00	-53.80				54822	M	☑	
89.00	28.90	-53.60				55053	M	☑	

DRILL HOLE REPORT

Hole Number: **WAT17-10** Project: **WATERSHED EAST** Project Number: **259**

Drilling		Casing		Core		Location		Other	
Azimuth:	29.3	**Length:**	3.5	**Dimension:**	NQ	**Claim No.:**	100408, 163531	**Company:**	IAMGOLD
Dip:	-53.7	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	308	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Stephen Roach
Started:	17-Nov-17	**Cemented:**	no	**Hole Type**	DDH	**Section:**	81+00E	**Surveyed:**	yes
Completed:	19-Nov-17	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	Larry Labelle
Logged:	27-Nov-17	**Making water:**	yes	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: North Shear

Comment: Down plunge extension of the North Shear extension grading on HW diabase with channel composites in NZ-07 grading 4.54 g/t Au /1.63 meters (including 10.56 g/t Au / 0.50 meters) & in a wider envelope of 2.60 g/t Au /3.58 meters; channel NZ-05 grades 1.49 g/t Au / 4.55 meters on FW diabase contact; intersect zone at 110-130 meters vertically below surface; coinciding with a moderate chargeability anomaly up to 7.78 mV/v

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	435878	**East:**	435878	**East:**	0
North:	5267901.69	**North:**	5267901.69	**North:**	0
Elev.:	399.42	**Elev.:**	399.42	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
92.00	29.20	-53.60				54932	M	☑	
95.00	29.30	-53.70				54920	M	☑	
98.00	30.30	-53.70				55093	M	☑	
101.00	29.30	-53.60				54436	M	☑	
104.00	30.20	-53.40				55280	M	☑	
107.00	29.50	-53.40				54680	M	☑	
110.00	28.10	-53.30				54683	M	☑	
113.00	31.00	-53.40				55729	M	☑	Strong magnetics
116.00	27.60	-53.20				54369	M	☑	
119.00	27.50	-53.20				55611	M	☑	
122.00	27.60	-53.20				55416	M	☑	
125.00	27.80	-53.20				55367	M	☑	
128.00	28.60	-53.20				55793	M	☑	
131.00	28.20	-53.20				55705	M	☑	
134.00	30.40	-53.10				54711	M	☑	
137.00	28.30	-53.20				54872	M	☑	

DRILL HOLE REPORT

Hole Number: **WAT17-10** Project: **WATERSHED EAST** Project Number: **259**

Drilling		Casing		Core		Location		Other	
Azimuth:	29.3	**Length:**	3.5	**Dimension:**	NQ	**Claim No.:**	100408, 163531	**Company:**	IAMGOLD
Dip:	-53.7	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	308	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Stephen Roach
Started:	17-Nov-17	**Cemented:**	no	**Hole Type**	DDH	**Section:**	81+00E	**Surveyed:**	yes
Completed:	19-Nov-17	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	Larry Labelle
Logged:	27-Nov-17	**Making water:**	yes	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: North Shear

Comment: Down plunge extension of the North Shear extension grading on HW diabase with channel composites in NZ-07 grading 4.54 g/t Au /1.63 meters (including 10.56 g/t Au / 0.50 meters) & in a wider envelope of 2.60 g/t Au /3.58 meters; channel NZ-05 grades 1.49 g/t Au / 4.55 meters on FW diabase contact; intersect zone at 110-130 meters vertically below surface; coinciding with a moderate chargeability anomaly up to 7.78 mV/v

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	435878	**East:**	435878	**East:**	0
North:	5267901.69	**North:**	5267901.69	**North:**	0
Elev.:	399.42	**Elev.:**	399.42	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
140.00	27.80	-53.20				55223	M	☑	
143.00	28.10	-53.20				55141	M	☑	
146.00	27.90	-53.10				54900	M	☑	
149.00	28.10	-53.10				55222	M	☑	
152.00	28.80	-52.90				55262	M	☑	
155.00	28.40	-53.00				55276	M	☑	
158.00	28.60	-53.00				55336	M	☑	
161.00	28.30	-53.00				55329	M	☑	
164.00	29.30	-52.80				55391	M	☑	
167.00	30.20	-52.90				54967	M	☑	
170.00	30.60	-52.90				55354	M	☑	
173.00	30.20	-52.90				54638	M	☑	
176.00	28.50	-53.00				54907	M	☑	
179.00	32.20	-52.90				55216	M	☑	
182.00	30.40	-52.80				55210	M	☑	
185.00	26.80	-52.90				54850	M	☑	

DRILL HOLE REPORT

Hole Number: **WAT17-10** Project: **WATERSHED EAST** Project Number: **259**

Drilling		Casing		Core		Location		Other	
Azimuth:	29.3	**Length:**	3.5	**Dimension:**	NQ	**Claim No.:**	100408, 163531	**Company:**	IAMGOLD
Dip:	-53.7	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	308	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Stephen Roach
Started:	17-Nov-17	**Cemented:**	no	**Hole Type**	DDH	**Section:**	81+00E	**Surveyed:**	yes
Completed:	19-Nov-17	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	Larry Labelle
Logged:	27-Nov-17	**Making water:**	yes	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: North Shear

Comment: Down plunge extension of the North Shear extension grading on HW diabase with channel composites in NZ-07 grading 4.54 g/t Au /1.63 meters (including 10.56 g/t Au / 0.50 meters) & in a wider envelope of 2.60 g/t Au /3.58 meters; channel NZ-05 grades 1.49 g/t Au / 4.55 meters on FW diabase contact; intersect zone at 110-130 meters vertically below surface; coinciding with a moderate chargeability anomaly up to 7.78 mV/v

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	435878	**East:**	435878	**East:**	0
North:	5267901.69	**North:**	5267901.69	**North:**	0
Elev.:	399.42	**Elev.:**	399.42	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
188.00	29.90	-52.90				55755	M	☑	
191.00	29.90	-52.80				55358	M	☑	
194.00	30.00	-52.70				55271	M	☑	
197.00	31.00	-52.70				55331	M	☑	
200.00	28.90	-52.70				55141	M	☑	
203.00	28.60	-52.50				55116	M	☑	
206.00	28.70	-52.60				55061	M	☑	
209.00	29.00	-52.40				55108	M	☑	
212.00	28.60	-52.40				55146	M	☑	
215.00	29.40	-52.30				55163	M	☑	
218.00	29.00	-52.30				55126	M	☑	
221.00	29.60	-52.20				55135	M	☑	
224.00	29.90	-52.20				55095	M	☑	
227.00	29.80	-52.10				55145	M	☑	
230.00	29.90	-52.20				55082	M	☑	
233.00	30.60	-52.30				55087	M	☑	

DRILL HOLE REPORT

Hole Number: **WAT17-10** Project: **WATERSHED EAST** Project Number: **259**

Drilling		Casing		Core		Location		Other	
Azimuth:	29.3	**Length:**	3.5	**Dimension:**	NQ	**Claim No.:**	100408, 163531	**Company:**	IAMGOLD
Dip:	-53.7	**Pulled:**	no	**Diam Chang:**	no	**NTS:**	41-P/12	**Contractor:**	Laframboise
Length:	308	**Capped:**	yes	**Storage:**	Klondike Lodge	**Hole:**	SURFACE	**Spotted by:**	Stephen Roach
Started:	17-Nov-17	**Cemented:**	no	**Hole Type**	DDH	**Section:**	81+00E	**Surveyed:**	yes
Completed:	19-Nov-17	**Left in hole:**	no	**Logged by:**	Stephen Roach	**Zone:**	17	**Surveyed by:**	Larry Labelle
Logged:	27-Nov-17	**Making water:**	yes	**Relog by:**		**NAD:**	NAD83	**Multi shot su**	yes
Township:	CHESTER	**Plugged:**	no						

Target: North Shear

Comment: Down plunge extension of the North Shear extension grading on HW diabase with channel composites in NZ-07 grading 4.54 g/t Au /1.63 meters (including 10.56 g/t Au / 0.50 meters) & in a wider envelope of 2.60 g/t Au /3.58 meters; channel NZ-05 grades 1.49 g/t Au / 4.55 meters on FW diabase contact; intersect zone at 110-130 meters vertically below surface; coinciding with a moderate chargeability anomaly up to 7.78 mV/v

Coordinate - Gemcom		Coordinate - UTM		Coordinate - Local	
East:	435878	**East:**	435878	**East:**	0
North:	5267901.69	**North:**	5267901.69	**North:**	0
Elev.:	399.42	**Elev.:**	399.42	**Elev.:**	0

Deviation Tests ***Density Tests***

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
236.00	31.80	-52.30				55150	M	☑	
239.00	34.30	-52.20				55158	M	☑	
242.00	28.90	-52.10				55567	M	☑	
248.00	29.50	-52.00				55393	M	☑	
251.00	28.80	-51.90				55224	M	☑	
254.00	29.40	-52.00				55845	M	☑	
257.00	31.90	-51.90				55254	M	☑	
260.00	30.90	-52.10				54739	M	☑	
263.00	30.60	-52.00				54613	M	☑	
266.00	33.40	-52.10				52716	M	☑	
269.00	33.40	-52.00				55352	M	☑	
272.00	32.20	-51.80				54871	M	☑	
275.00	32.70	-51.70				55810	M	☑	
278.00	31.40	-51.90				54568	M	☑	
281.00	33.90	-51.90				55983	M	☑	
284.00	31.00	-51.80				55491	M	☑	

DRILL HOLE REPORT

Hole Number: **WAT17-10** Project: **WATERSHED EAST** Project Number: **259**

Drilling

Azimuth:	29.3
Dip:	-53.7
Length:	308
Started:	17-Nov-17
Completed:	19-Nov-17
Logged:	27-Nov-17
Township:	CHESTER

Casing

Length:	3.5
Pulled:	no
Capped:	yes
Cemented:	no
Left in hole:	no
Making water:	yes
Plugged:	no

Core

Dimension:	NQ
Diam Chang:	no
Storage:	Klondike Lodge
Hole Type	DDH
Logged by:	Stephen Roach
Relog by:	

Location

Claim No.:	100408, 163531
NTS:	41-P/12
Hole:	SURFACE
Section:	81+00E
Zone:	17
NAD:	NAD83

Other

Company:	IAMGOLD
Contractor:	Laframboise
Spotted by:	Stephen Roach
Surveyed:	yes
Surveyed by:	Larry Labelle
Multi shot su	yes

Target: North Shear

Comment: Down plunge extension of the North Shear extension grading on HW diabase with channel composites in NZ-07 grading 4.54 g/t Au /1.63 meters (including 10.56 g/t Au / 0.50 meters) & in a wider envelope of 2.60 g/t Au /3.58 meters; channel NZ-05 grades 1.49 g/t Au / 4.55 meters on FW diabase contact; intersect zone at 110-130 meters vertically below surface; coinciding with a moderate chargeability anomaly up to 7.78 mV/v

Coordinate - Gemcom

East:	435878
North:	5267901.69
Elev.:	399.42

Coordinate - UTM

East:	435878
North:	5267901.69
Elev.:	399.42

Coordinate - Local

East:	0
North:	0
Elev.:	0

Deviation Tests

Distance	*Azimuth*	*Dip*	*Easting*	*Northing*	*Elevation*	*Mag. Fie.*	*Type*	*Good*	*Comments*
287.00	30.50	-51.70				55342	M	☑	
305.00	31.70	-51.70				55085	M	☑	
308.00	31.60	-51.50				55419	M	☑	

Density Tests

LITHOLOGY REPORT
- Detailed -

Hole Number **WAT17-10** Project: **WATERSHED EAST** Project Number: **259**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
0.00	3.80	**Overburden** **OB** ***Overburden***	4	4	BR
		Overburden - numerous boulders (3.5m of Casing)			
3.80	10.45	**Fresh Rock** **7C** ***Gabbro (Minor CIC/QP)***	1	1	GR
		Gabbro (Minor CIC/QP) - green color, mafic in composition with weak to moderate chl and moderate to strong pervasive cb (calcite), vfg 50:50 amp=fd matrix giving an equigranular texture,up to 5% quartz-(carbonate) towards lower contact (amygdules??), widely scattered qs/qcs <1%.			
		4.7 to 5.3 - CIC/QP - light greenish gray color, felsic to intermediate composition with strong ca-cb, strongly sh 46 to 51 from C.A., <1% qcs and py.			
		Mineralization occasional to scattered py <1%, non-magnetic to weakly magnetic Contact - sharp sheared contact 29 from C.A.			
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***			
		3.80 - 10.45 CB MX 3 Carbonatization, Matrix, Moderate to Strong			
		3.80 - 10.45 CL MX 2 Chloritization, Matrix, Weak to Moderate			
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***			
		3.80 - 10.45 Py BLB 1 Pyrite, Blebs, <1%			
10.45	17.80	**Fresh Rock** **8L** ***Granodiorite-Tonalite-Trondjhemite (In-***	1	1	GREG
		Granodiorite-Tonalite-Trondjhemite (In-Situ) Magmatic Breccia - greenish gray, green, and gray colors, variable composition with….			
		GTT - accounts for approximately 54% of the interval, gray to greenish gray color, felsic to intermediate in			

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
455815	14.90	16.00	1.10	-	-	0.03	-	-
455816	16.00	17.00	1.00	-	-	0.01	-	-
455817	17.00	17.80	0.80	-	-	0.00	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		composition with assimilated gabbro, more to intermediate being vfg to fg with relict qtz and fd phenocrysts with wk-mod chl and vaiable wk to strong pervasive cb, locally silicified Gabbro - accounts for 46% of the interval, mafic composition with mod chl and variable weak to strong pervasive cb, represent stoped and assimilated rafts up to 50 cm wide, boundaries range from sharp to diffuse in nature. - pseudo-breccia texture with numerous -sub-rounded gabbroic blocks, increased foliation from approximately 15.0 to 17.8 with foliated gabbroic clasts ranging from 30 to 46 from C.A., scattered thin qs/qcs varying <1% to 2%-3%. Mineralization - occasional vfg py < 1%, moderately to strongly magnetic with gradual increase in magnetism from about 11.3 to 17.8 Contact - sharp contact 65 from C.A. ***Mineralization Maj. :*** ***Type/Style/%Mineral*** ***Comment*** 10.45 - 17.80 Py BLB 1 Pyrite, Blebs, <1%												
17.80	31.40	**Fresh Rock** **7C** ***Gabbro***	1	1	DGR	455818	17.80	18.80	1.00	-	-	0.00	-	-
		Gabbro - dark green to green color, mafic in composition with moderate chl and locally strongly chloritic, overall moderate to strong carbonate (calcite)….locally weak, vfg massive appearance with increase in foliation from approximately 26.0 to 31.4 ranging from 43 to 56 from C.A.<1% widely scattered qcs/qs with 5% to 10% qs/qcs over 1 meter sections				455819	21.00	22.00	1.00	-	-	0.00	-	-
						455820	22.00	22.90	0.90	-	-	0.00	-	-
		30.0 to 30.5 - GTT/QP - gray color, felsic to intermediate in composition with tightly packed 5% to 35% qe, strong ca-cb in matrix and fractures, numerous ca-cb microfractures, relict porp texture, scattered py < 1%				455821	22.90	23.40	0.50	-	-	0.00	-	-
						455822	23.40	24.00	0.60	-	-	0.00	-	-
		Mineralization - occasional to widely scattered vfg py (<1%) with local 1% to 2% vfg disseminated py from 23.3 to 24, variably magnetic from weak to locally strong Contact - sharp 0 to 10 from C.A. with GTT/QFP tongue-like dyke				455823	24.00	25.00	1.00	-	-	0.00	-	-
						455825	25.00	26.00	1.00	-	-	0.00	-	-
		Alteration Maj: ***Type/Style/Intensity*** ***Comment*** 17.80 - 31.40 CB MX 3 Carbonatization, Matrix, Moderate												

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		17.80 - 31.40 CL MX 3 Chloritization, Matrix, Moderate												
31.40	38.00	**Fresh Rock** **8E** ***Quartz Diorite-Diorite Intruding Gabbro***	1	1	GREG	455826	35.50	36.50	1.00	-	-	0.00	-	-
						455827	36.50	37.40	0.90	-	-	0.03	-	-
						455828	37.40	38.00	0.60	-	-	0.00	-	-

Quartz Diorite-Diorite Intruding Gabbro - greenish gray color, numerous tongues of quartz-diorite to diorite intruding into gabbro with….

Quartz Diorite - pistacho green to green color, intermediate composition with strong ep of 25% to 35% fg to mg (<0.3cm) albite fd phenocrysts with 20% bluish quartz interstitial, sub-porphyritic texture

Gabbro green color, mafic in composition with fd > amp being feldsphyric (20% to 30%), wk chl with mod to locally strong ep alteration of fd and possible amp, weak cb.

- sub-porphyritic texture, numerous irregular shaped tongues of quartz-diorite intruding into gabbro 0 to 60 from C.A., widely scattered qs/qcs up to 6 cm wide and <1%

Mineralization - occasional to widely scattered py <1%), significant increase in disseminated cpy (1% to 2%) along quartz diorite and gabbro contact with associated strong ep from 36.5 to 37.3…locally 3% disseminated cpy at 36.85, moderately to strongly magnetic

Contact - sharp and broken contact 60 from C.A.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
31.40 - 38.00	SAUSS AFG 3	Saussuritization, Alteration of feldspar grains, Moderate in Gabbro
31.40 - 38.00	EP AFG 3	Epidotization, Alteration of feldspar grains, Moderate in Gabbro

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
36.50 - 37.80	Py BLB 1	Pyrite, Blebs, <1%
36.50 - 37.80	Cpy FAC 1	Chalcopyrite, Fracture-controlled, 1% to 3%

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
38.00	45.60	**Fresh Rock** **7C** ***Gabbro***	1	1	GR	455829	44.60	45.60	1.00	-	-	0.00	-	-

Gabbro - green color, mafic in composition with weak to moderate chl and strong cb from 38.0 to 41.95, becoming weakly cb towards the lower contact, scattered fg to mg (<0.20 cm) albite phenocrysts (5%) from 40.6 to 41.0a in the upper part of the contact, overall, vfg and massive, scattered qcs/qs with local inreases up to 5%.

Mineralization - occasional vfg py <1%, weak to non-magnetic
Contact - sharp contact 56 from C.A.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
38.00 - 41.95	CB MX 4	Carbonatization, Matrix, Strong
38.00 - 41.95	CL MX 3	Chloritization, Matrix, Moderate
41.95 - 45.60	CB MX 3	Carbonatization, Matrix, Moderate
41.95 - 45.60	CL MX 3	Chloritization, Matrix, Moderate

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
38.00 - 45.60	Py BLB 1	Pyrite, Blebs, <1%

45.60	54.70	**Fresh Rock** **8L** ***Granodiorite-Tonalite-Trondjhemite (In-***	1	1	GR	455830	45.60	46.05	0.45	-	-	0.01	-	-
						455831	46.05	47.00	0.95	-	-	0.01	-	-
						455832	47.00	48.00	1.00	-	-	0.00	-	-
						455833	48.00	49.00	1.00	-	-	0.00	-	-

Granodiorite-Tonalite-Trondjhemite (In-Situ) Magmatic Breccia - green, grayish green, to greenish gray colors, mix of GTT/QP (45%), diorite-quartz diorite (20%), and gabbro rafts (35%) as per…

GTT/QP - grrenish gray to green color, felsic to intermediate in composition being wk/mod chl and cb, local silicified, vfg with relict porp texture, numerous inclusions of gabbro rafts up to 1.45 meters wide

Gabbro - green color, mafic in composition and form as raft-like intervals up to 1.45 meters wide, mod chl and variable wk to mod and locally strong ca-cb, vfg and massive and locally foliated

52.5 to 54.7 - Diorite to Quartz Diorite - green color, intermediate to (mafic) composition with strong ep alteration of feldspar…feldsphyric (30% to 40%) with vfg to mg ep altered fd giving a sub-porp to

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)

phaneritic texture, <1% to 2% qe diffuse gabbroic inclusions.

- scattered qcs/qs up to 7 cm wide accounting for 2% to 3% of the interval, locally foliated 45 from C.A.

Mineralization - occasional to widely scattered patchy py (<1%) mainly in fractures with or without calcite fracturing, more visible py near upper contact but still <1%, overall moderately to strongly magnetic with local area of weak magnetics…increasing magnetism with depth

Contact - sharp and broken

Alteration Maj:	***Type/Style/Intensity***	***Comment***
45.60 - 54.70	EP AFG 3	Epidotization, Alteration of feldspar grains, Moderate to Strong in Quartz Diorite
45.60 - 54.70	CB MX 3	Carbonatization, Matrix, Moderate to Locally Strong
45.60 - 54.70	CL MX 3	Chloritization, Matrix, Moderate

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
45.60 - 54.70	Py PA 1	Pyrite, Patchy, <1% to 1%

54.70	63.95	**Fresh Rock**	**14B**	***Diabase Dyke***		1	1	BLK						

Diabase Dyke - black to dark metallic blackish gray color, mafic in composition being vfg and aphanitic…massive appearance, <1% qcs/cs.

Mineralization - barren, strongly magnetic
Cpntact - sharp and irregular 15 from C.A.

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
54.70 - 63.95	Py BLB 0.5	Pyrite, Blebs,<0.5% to barren

Hole Number **WAT17-10** Project: **WATERSHED EAST** Project Number: **259**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
63.95	84.45	**Fresh Rock** **8F** ***Strongly Chloritic Quartz Porphyry (Min***	1	1	GR

Strongly Chloritic Quartz Porphyry - green to grayish green color, strongly altered felsic to intermediate composition with strong pervasive chl alteration from 69.1 to 84.45, occurs as both overprint and as interstitial alteration, general increase in patchy moderate to locally strong ca-cb alteration towards 84.45, gradational contacts between vfg and mg chloritic portions of the QP with massive chl overprint on the vfg sections and more interstitial>overprint on the coarser QP, coarser sections shows tightly packed 30% to 35% bluish quartz-eyes (<0.3 to 0.4 cm) in a strong chl-(ser) interstitial matrix.

- relict porphyritic texture…better illustrated in the coarser section, minor gabbroic (vfg, chl-cb) rafts/xenolith with diffuse gradational to locally sharp contacts from 77.2 to 77.95 and from 78.1 to 78.5, locally foliated 50 to 52 from C.A., scattered thin cs/qcs (<1-2 cm in width) ranging <1% to 5%...locally 5% to 10% with more frequent cs/qcs from 78.0 to 83.45.

Mineralization - occasional with localized vfg py-(cpy) <1%, slight increase in py from 69.8 to 71.85 averging 1% to 2% with localized 5% py-(cpy) from 70.65 to 70.8…patchy sulphide mineralization, localized <1% cpy, increased sulphides are at contact between strong/intense chl and interstitial chl alteration of the matrix, weakly to non-magnetic.
Contact - sharp contact 30 from C.A.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
63.95 - 84.45	CB MX 3	Carbonatization, Matrix, Moderate to Stronger towards 84.45
63.95 - 84.45	CL PV 4	Chloritization, Pervasive, Strong

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
69.80 - 71.85	Cpy BLB 0.5	Chalcopyrite, Blebs, <0.5%
69.80 - 71.85	Py DIS 1	Pyrite, Disseminated, 1% to 2% (locally up to 5%)

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
455834	68.10	69.10	1.00	-	-	0.00	-	-
455835	69.10	69.80	0.70	-	-	0.00	-	-
455837	69.80	70.80	1.00	-	-	0.10	-	-
455838	70.80	71.85	1.05	-	-	0.01	-	-
455839	71.85	72.85	1.00	-	-	0.00	-	-
455840	80.40	81.50	1.10	-	-	0.00	-	-
455841	81.50	82.50	1.00	-	-	0.00	-	-
455842	82.50	83.30	0.80	-	-	0.00	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
84.45	90.40	**Fresh Rock** **7C** ***Gabbro (Minor GTT/QP Dykes)***	1	1	GR

Gabbro (Minor GTT/QP Dykes) - green to greenish gray colors, mafic in composition with moderate chl and variable weak to moderate carbonate (calcite), vfg and massive, scattered <1% qcs/cs.

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)

86.85 to 87.35 - GTT/QP - felsic to intermediate in composition with mod chl and strong pervasive cb, vfg to fg, relict porp texture with relict 5% to 10% qtz/qe, sharp upper and lower contacts 49 and 51 from C.A., respectively

88.4 to 9.2 - felsic to intermediate in composition with mod chl interstitial with mod chl and wk ca-cb, 15% to 20%fg to mg (<0.30 cm) qe giving unit porphyritic texture, sharp upper and lower contacts 50 and 10 from C.A., respectively

- occasional to widely scatterdd qs/qcs < 1%, vfg massive appearance.

Mineralization - occasional vfg py with local and patchy py up to 1% but overall <1% py, weak to non-magnetic112.6
Contact - sharp and broken

Alteration Maj:	*Type/Style/Intensity*	*Comment*
84.45 - 90.40	CB MX 2	Carbonatization, Matrix, Weak to Moderate
84.45 - 90.40	CL MX 3	Chloritization, Matrix, Moderate

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
84.45 - 90.40	Py BLB 1	Pyrite, Blebs, <1% and locally up to 1%

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
90.40	112.60	**Fresh Rock** **8D** ***Granodiorite-Monzodiorite/Tonalite/Qua***	1	1	GREG									

Granodiorite-Monzodiorite/Tonalite/Quartz Porphyry - greenish gray, gray, and light green to green colors, felsic to intermediate in composition with moderate to locally strong chl within the interstitial matrix with variable weak to moderate ca-cb, interstitial alteration is about mg to cg (<0.5 cm) bluish quartz eyes (25% to 35%)….crowded/tightly packed.

- well developed porphyritic texture with vfg gabbro rafts? from 108.4 to 108.95 and from 109.25 to 109.8 with sharp variable contacts ranging from 30 to 70 from C.A., gabbro is mafic in composition with mod chl and wk/modcb, vfg, and massive, non-foliated for the most part with local foliations trending 40 to 50 from C.A, scattered to frequent qcs/cs 1% to 3% with local qs up to 13 cm wide with cb alteration margiins.

Mineralization - occasional to scattered vfg py up to 1%, weakly to moderately magnetic with strong local magnetics as from 93.6 to 100.0 (patchy)
Contact - sharp contact 70 from C.A

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		90.40 - 112.60 CB IS 2 Carbonatization, Interstitial, Weak to Moderate												
		90.40 - 112.60 CL IS 3 Chloritization, Interstitial, Moderate to Locally Strong												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		90.40 - 112.60 Py BLB 1 Pyrite, Blebs, up to 1%												
112.60	117.95	**Fresh Rock** **7C** ***Gabbro***	1	1	GR	455843	116.00	117.00	1.00	-	-	0.02	-	-
						455844	117.00	117.95	0.95	-	-	0.00	-	-
		Gabbro - green color,mafic in composition being moderate to strong chl alteration with moderate to strong pervasive carbonate (calcite), vfg massive to weakly to moderately foliated with upper contact ranging between 40 to 50 from C.A., scattered to frequent cs/qcs (<2cm wide) up to 5%.												
		Mineralization - occasional vfg py <0.5%<, weakly magnetic.												
		Contact - sharp contact 85 from C.A. with 1 cm wide calcite stringer												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		112.60 - 117.95 CB PV 4 Carbonatization, Pervasive, Strong												
		112.60 - 117.95 CL PV 3 Chloritization, Pervasive, Moderate to Strong												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		112.60 - 117.95 Py BLB 0.5 Pyrite, Blebs, <0.5%												
117.95	119.50	**Fresh Rock** **8D** ***Granodiorite-Monzodiorite/Tonalite/Qua***	1	1	GREG	455845	117.95	118.70	0.75	-	-	2.79	-	-
						455846	118.70	119.50	0.80	-	-	0.15	-	-
		Granodiorite-Monzodiorite/Tonalite/Quartz-Feldspar Porphyry - dark greenish gray color, felsic to intermediate in composition with moderate to strong chl-(ser) interstitial about tightly packed 20% to 25% bluish fg to mg (<0.2cm) quartz-eyes, gradational increase in carbonateand hematite dusting from 118.8to 119.5 with associated decrease in quartz-eyes and increase in feldspar (mottled texture).												

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		- porphyritic texture, non-foliated, occasional qcs/cs <1% Mineralization - scattered vfg to fg py cubes ranging from 1% to 2% with splash of cpy (<1%) at 119.1, weakly to non-magnetic Contact - gradational												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		117.95 - 119.50 CB GM 2 Carbonatization, Groundmass, Weak to Moderate to 119.5												
		117.95 - 119.50 HM GM 2 Hematization, Groundmass, Weak to Moderate towards 119.5												
		117.95 - 119.50 SR IS 2 Sericitization, Interstitial, Weak												
		117.95 - 119.50 CL IS 3 Chloritization, Interstitial, Moderate												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		117.95 - 119.50 Cpy CLTS 0.5 Chalcopyrite, Clots, <0.5%												
		117.95 - 119.50 Py DIS 1 Pyrite, Disseminated, 1% to 2%												
119.50	195.70	**Fresh Rock** **7Cm** ***Melanocratic Gabbro (Minor Tonalite Dy***	1	1	GR	455847	119.50	120.50	1.00	-	-	0.01	-	-
		Melanocratic Gabbro (Minor Tonalite Dykes) - green to dark green color, mafic composition with weak to locally moderate carbonate alteration with fg to mg (<0.20 to 0.30) strong ep altered fd in varying proportions <5% to 30% with gradation in xtl size internally (layered) with coarser sections towards the middle layers, <1% to locally 5% quartz eyes, possible increase in gradation of ank-(sid) with mod/strong carbonate (ca-cb) from 185.5 to 195.7 in the very fine grained section with local space/solution cleavage (not well developed).				455849	120.50	121.50	1.00	-	-	0.00	-	-
						455850	133.90	135.10	1.20	-	-	0.00	-	-
						455851	135.10	135.50	0.40	-	-	0.04	-	-
						455852	135.50	136.50	1.00	-	-	0.00	-	-
		- overall very fine grained outer margins to the upper and lower contacts with alternating finer and coarser grained sections from….				455853	136.50	137.55	1.05	-	-	0.00	-	-
						455854	137.55	139.00	1.45	-	-	0.00	-	-
		119.5 to 124.0 - very fine grained (<0.5 cm) outer contact margin 124.0 to 166.75 - medium grained to lesser finer grained sections (<0.30 cm) 166.75 to 175.0 - very fine grained (<0.05cm) section 175.0 to 185.5 - fine to medium gained (0.20 cm) to local very fine and coarser sections 185.5 to 195.7 - very fine grained(<0.05 cm) and altered? section				455855	139.00	139.50	0.50	-	-	0.00	-	-
						455856	139.50	140.50	1.00	-	-	0.00	-	-
						455857	140.50	141.10	0.60	-	-	0.00	-	-
						455858	141.10	142.00	0.90	-	-	0.00	-	-

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour

- locally foliated 30 to 50 from C.A., generally associated with stronger chl alteration and qcs/cs, varibale <1% to local 15% qcs/cs/qs with increased qcs/cs from 170.0 to 170.7 (10%) and from 171.1 to 172.3 (5% to 15%)

- scattered strongly ep altered tonalite dykes varying 2 to 27 cm wide with variable 30 to 80 from C.A. from 126.4 to 129.8 (20% dykes), 145.7 to 147.95 (13% dykes), and from 176.1 to 182.7 (10% dykes), ep alteration is strongly pervasive overprint with 15% to 20% vfg interstitial quartz.

187.35 to 188.05 - GTT/QP - grayish white to dull gray colors, felsic in composition with moderate per ca-cb, relict 10% to 15% mg (<0.3cm) qe…porphyritic texture, local gabbroic inclusions at lower contact, <1% qcs/qs and py, sharp irregular upper and lower contacts 45-80 and 30 from C.A., respectively.

Mineralization - overall <1% pyrite as widely scattered to locally disseminated with gradational increases 1% to 5%, particularly in areas of increased qcs/qs/cs fractures (1% to 2%), 0.5 cm wide msv py in calcite stringer with disseminated py in the margins…overall 5% py from 135.1 to 135.5, overall weakly to moderately magnetic with moderate to locally strong magnetic from approximately 175.0 to 195.7.

Contact - sharp contact 90 fromn C.A., gradationally vfg from 185.5 with increased ank-sid?? And pervasive ca-cb alteration

Alteration Maj:	Type/Style/Intensity	Comment
119.50 - 185.70	SAUSS BNDS 4	Saussuritization, Bands/Banded, Strong
119.50 - 185.70	EP BNDS 4	Epidotization, Bands/Banded, Strong
119.50 - 185.70	CB MX 2	Carbonatization, Matrix, Weak
185.70 - 195.70	AK MX 2	Ankerite?, Matrix, Weak?
185.70 - 195.70	CB PV 4	Carbonatization, Pervasive, Strong

Mineralization Maj. :	Type/Style/%Mineral	Comment
119.50 - 135.10	Py PA 1	Pyrite, Patchy, <1% to locally 2%
135.10 - 135.50	Py DIS 5	Pyrite, Disseminated, 5%
135.50 - 195.70	Py BLB 1	Pyrite, Blebs, <1% to locally 2%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
455859	169.00	170.00	1.00	-	-	0.00	-	-
455861	170.00	170.70	0.70	-	-	0.01	-	-
455862	170.70	171.10	0.40	-	-	0.00	-	-
455863	171.10	171.60	0.50	-	-	0.00	-	-
455864	171.60	172.30	0.70	-	-	0.00	-	-
455865	172.30	173.00	0.70	-	-	0.00	-	-
455866	193.70	194.70	1.00	-	-	0.00	-	-
455867	194.70	195.70	1.00	-	-	0.01	-	-

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
Minor Interval:					
187.35	188.05	Fresh Rock 8C *Tonalite/Trondjhemite/QP*		1	
		GTT/QP - grayish white to dull gray colors, felsic in composition with moderate per ca-cb, relict 10% to 15% mg (<0.3cm) qe…porphyritic texture, local gabbroic inclusions at lower contact, <1% qcs/qs and py, sharp irregular upper and lower contacts 45-80 and 30 from C.A., respectively			
195.70	202.15	**Fresh Rock 8L *Granodiorite-Tonalite-Trondjhemite (In-***	1	1	GREG
		Granodiorite-Tonalite-Trondjhemite (In-Situ) Magmatic Breccia - greenish gray to dark gray color, altered felsic to intermediate in composition with moderate chl-(ank-sid?) as sh-and diffuse banded controlled, gradational fg to mg (<0.20cm) 20% to 30% fd and 5% to 10% qtz-(qe) from 197.1 to 200.85, increase in sil associated with stronger sh from approximately 200.85 to 202.15 associated with altered tonalite, gradational increase in sh from 198.0 to 202.15 ranging 40 to 45 from C.A., occasional qcs/qs < 1%.			
		Mineralization - occasional vfg py-(aspy) with overll average of interval < 1%, increased pyrite with arsenopyrite up to 1%, and associated with increased sh and sil, weak to locally magnetic			
		Contact - sharp contact 40 from C.A.			

Alteration Maj:	*Type/Style/Intensity*	*Comment*
195.70 - 202.15	AK-SID SP 2	Ankerite-Siderite?, Along Shear Planes, Weak
195.70 - 202.15	CL SP 3	Chloritization, Along Shear Planes, Moderate

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
195.70 - 202.15	Aspy BLB 1	Arsenopyrite, Blebs, <1% and up to 1%
195.70 - 202.15	Py BLB 1	Pyrite, Blebs, <1%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
455868	195.70	196.75	1.05	-	-	0.01	-	-
455869	196.75	197.80	1.05	-	-	0.00	-	-
455870	197.80	198.80	1.00	-	-	0.00	-	-
455871	198.80	199.80	1.00	-	-	0.00	-	-
455873	199.80	200.80	1.00	-	-	0.02	-	-
455874	200.80	201.40	0.60	-	-	0.01	-	-
455875	201.40	202.15	0.75	-	-	0.02	-	-

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
202.15	209.50	**Fresh Rock** **SH** ***Ankerite-Siderite-(Silicified) Shear Zone***	1	1	LG

Ankerite-Siderite-(Silicified) Shear Zone - alternating light gray to brownish/beige white, and white…tan/beige hue as per the presence of ank-sid, altered felsic to intermediate composition with strong sh-controlled and laminated/banded ank-sid with silicified lam/bnds, more prolific sil-rich lam/bnds from 202.4 to 204.0 and graually increasing in depth with the frequent folded qs from 206.0 to 209.5

- strongly sheared/laminated ranging from 30 to 43 from C.A. (averages 35 from C.A.), occasional to scattered qs <1% to 5% with increased veining towards 209.5 with more frequent folded qs, particularly from 207.5 to 208.0 (15% folded qs), folded qs show localized dextral movement as per at 208.0.

- strongly shear laminated and banded ranging from 30 to 43 from C.A., laminations and bands up to 0.5 cm becoming finer laminated with depth, occasional to scattered qs/qcs with more frequent qs/qcs towards 209.5 30 from C.A.showing Z-sshape parasitic drag folds.

Mineralization - occasional to widely scattered vfg py (<1% to local 2% to 3%) with occasional aspy-cpy <0.5%, slight increase in py at upper contact area from 202.4 to 203.2 (1% to 2%) and from 207.5 to 208.0 (2% to 3%) with inreased sh-controlled sil and qs (15%), respectively, weakly to non-magnetic.

Contact - gradational increase in folded qs/qcs and slight increase in py

Alteration Maj:	***Type/Style/Intensity***	***Comment***
202.15 - 209.50	SI BNDS 3	Silicification, Bands/Banded, Moderate to Strong
202.15 - 209.50	AK-SID BNDS 4	Ankerite-Siderite, Bands/Banded, Strong

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
202.15 - 209.50	Aspy 0.5	Arsenopyrite, <0.5%
202.15 - 209.50	Py DIS 1	Pyrite, Disseminated, <1% to locally 1% to 2%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
455876	202.15	202.40	0.25	-	-	0.25	-	-
455877	202.40	203.20	0.80	-	-	0.03	-	-
455878	203.20	204.20	1.00	-	-	0.01	-	-
455879	204.20	205.20	1.00	-	-	0.01	-	-
455880	205.20	206.00	0.80	-	-	0.01	-	-
455881	206.00	207.00	1.00	-	-	0.10	-	-
455882	207.00	207.50	0.50	-	-	0.10	-	-
455883	207.50	208.00	0.50	-	-	0.14	-	-
455885	208.00	209.00	1.00	-	-	0.07	-	-
455886	209.00	209.50	0.50	-	-	0.02	-	-

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From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
209.50	214.30	**Fresh Rock** **QTS W** ***Weak Quartz Stockwork***	1	1	BE

Weak Quartz Stockwork - beige/tan color to tan grayish white colors, strong to intense shear controlled ank-sid with mod to strong sil associated with increased folded qs/qcs, strongly sheared and locally bx with shearing ranging from 29 to 36 from C.A. (average is 33 from C.A.),numerous folded qs/qcs ranging <1% to 30% averaging 10% to 15% with 10% to 30% qs/qcs from 209.5 to 211.0, folded qs are generally 25 to 35 from C.A. and are <1 to 2 cm in width, folded qs/qcs show dextral movement as tight parasitic drag folds, local 10 cm wide qs at 212.15 with sharp contacts 50 from C.A.

Mineralization - occasional to widely scattered vfg py ranging from <1% to 2% with occasional cpy and aspy, increased py associated with increased folded veining from 209.5 to 211.0 with 1% to 2% vfg scattered py, very-fine VG smeared on cpy at 210.2 (coarse cpy splashes in qs) and at 210.4 (vfg cpy in qs), non-magnetic

Contact - gradational decrease in qs from 213.5 to 214.0 to <1% folded qs/qcs

Alteration Maj:	***Type/Style/Intensity***	***Comment***
209.50 - 214.30	SI BNDS 4	Silicification, Bands/Banded, Strong along Folds as Bands
209.50 - 214.30	AK-SID SP 4	Ankerite-Siderite, Along Shear Planes, Strong to Intense

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
209.50 - 214.30	Cpy BLB 1	Chalcopyrite, Blebs, <1%
209.50 - 214.30	Py DIS 1	Pyrite, Disseminated, <1% to 2%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
455887	209.50	210.00	0.50	-	-	0.04	-	-
455888	210.00	210.25	0.25	-	-	0.10	-	-
455889	210.25	210.50	0.25	-	-	0.07	-	-
455890	210.50	211.00	0.50	-	-	0.07	-	-
455891	211.00	211.50	0.50	-	-	0.03	-	-
455892	211.50	212.00	0.50	-	-	0.04	-	-
455893	212.00	212.50	0.50	-	-	0.32	-	-
455894	212.50	213.00	0.50	-	-	0.02	-	-
455895	213.00	213.50	0.50	-	-	0.03	-	-
455897	213.50	214.30	0.80	-	-	0.05	-	-

Hole Number **WAT17-10** Project: **WATERSHED EAST** Project Number: **259**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
214.30	225.20	**Fresh Rock** **SH** ***Silicified-Pyrite Shear Zone***	1	1	BLG

Silicified-Pyrite Shear Zone - bleached gray, grayish white, and both dark gray and white colors, overall strongly to intensely silicified-(albitized?) alternation of matrix with variations of strong sh-controlled ank-sid-sil from 214.3 to 215.3 deacreasing gradationally to 215.8, increase in chloritic alteration of matrix from 217.5 to 218.0 with decreasing chl towards 221.3 with increasing sil, local chloritic zone from 223.7 to 224.2.

- strongly sheared texture ranging from 20 to 48 with overall average 39.5 from C.A., increasing core angles from about 218.8 to 225.2 (average 44 from C.A.) with the remaining upper part of the interval averaging 32 from C.A.., scattered qs/qcs ranging from <1% to 20%, with common 3% to 5%, local 20% qs/qcs from 219.0 to 219.7, qs/qcs up to 5.0 cm wide, local areas show deformed qs/qcs with veining both parallel to sub-parallel to the sh with oblique set to the sh

Mineralization - overall average 5% to 10% vfg disseminated py-aspy and <0.5% cpy,generally increased py-aspy with increased sil-(ab), local areas of weaker py-aspy from 217.0 to 219.0 (<1% to local patchy 5%), significant increased py (10% to 20%) between 220.2 to 222.2, non-magnetic

Contatc - gradational…increased quartz stringers/veining

Alteration Maj:	***Type/Style/Intensity***	***Comment***
214.30 - 225.20	AK-SID SP 4	Ankerite-Siderite, Along Shear Planes, Strong
214.30 - 225.20	AB PV 4	Albitization, Pervasive, Strong to Intense
214.30 - 225.20	SI PV 4	Silicification, Pervasive, Strong to Intense
Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
214.30 - 225.20	Cpy BLB 0.5	Chalcopyrite, Blebs,< 0.5%
214.30 - 225.20	Aspy BLB 1	Arsenopyrite, Blebs, <1%
214.30 - 225.20	Py DIS 5	Pyrite, Disseminated, 5% to 10%

225.20	227.75	**Fresh Rock** **QTS W** ***Quartz Stockwork***	1	1	LG

Quartz Stockwork - light bleached gray to gray colors, strong to intense sil-(ab) overprint with wk to mod chl and wk cb altered wallrock, strongly sheared 20 to 45 from C.A. with numerous qs/qcs parallel to sh….range from 5% to 30% with the veining in the QTSW averaging approximately 20% with quartz vein from 227.25 to 227.75 with numerous chl-(cb) fractures seams/styolites (altered wr inclusions).

Mineralization - 1% to 10% vfg disseminated py-(aspy-cpy) averaging 4% to 6%, increase in py (5% to

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
455898	214.30	214.90	0.60	-	-	0.15	-	-
455899	214.90	215.30	0.40	-	-	1.21	-	-
455900	215.30	215.80	0.50	-	-	0.98	-	-
455901	215.80	216.45	0.65	-	-	0.85	-	-
455902	216.45	217.00	0.55	-	-	0.43	-	-
455903	217.00	217.50	0.50	-	-	0.26	-	-
455904	217.50	218.00	0.50	-	-	0.21	-	-
455905	218.00	218.50	0.50	-	-	0.04	-	-
455906	218.50	219.00	0.50	-	-	0.15	-	-
455907	219.00	219.70	0.70	-	-	1.01	-	-
455908	219.70	220.20	0.50	-	-	1.54	-	-
455909	220.20	220.70	0.50	-	-	0.31	-	-
455910	220.70	221.20	0.50	-	-	0.44	-	-
455911	221.20	221.70	0.50	-	-	0.50	-	-
455913	221.70	222.20	0.50	-	-	0.43	-	-
455914	222.20	222.70	0.50	-	-	1.03	-	-
455915	222.70	223.20	0.50	-	-	1.60	-	-
455916	223.20	223.70	0.50	-	-	0.45	-	-
455917	223.70	224.20	0.50	-	-	0.32	-	-
455918	224.20	224.70	0.50	-	-	1.94	-	-
455919/455920	224.70	225.70	1.00	-	-	1.36	-	-
455921	225.70	226.20	0.50	-	-	0.87	-	-
455922	226.20	226.70	0.50	-	-	0.61	-	-
455923	226.70	227.25	0.55	-	-	0.58	-	-
455925	227.25	227.75	0.50	-	-	0.09	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		10%) from 225.2 to 225.7 and from 226.7 to 227.25, py occurs mainly in sil wallrock and along vn/wr margins, up to 1% to locally 2% py in veining with occasional aspy and cpy <0.5%, non-magnetic												
		Contact - sharp irregular contact 60 from C.A.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		225.20 - 227.75 CB MX 2 Carbonatization, Matrix, Weak												
		225.20 - 227.75 CL MX 3 Chloritization, Matrix, Weak to Moderate												
		225.20 - 227.75 AB PV 4 Albitization, Pervasive, Strong to Intense												
		225.20 - 227.75 SI PV 4 Silicification, Pervasive, Strong to Intense												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		225.20 - 227.75 Cpy 0.5 Chalcopyrite, <0.5%												
		225.20 - 227.75 Aspy 1 Arsenopyrite, <1%												
		225.20 - 227.75 Py DIS 4 Pyrite, Disseminated, 4% to 6% (locally 5% to 10%)												
227.75	230.30	**Fresh Rock** **8C** ***Silicified-(Albitized/Ankeritic) Tonalite/T***	1	1	PG	455926	227.75	228.15	0.40	-	-	0.16	-	-
		Silicified-(Albitized/Ankeritic) Tonalite/Trondjhemite - pinkish gray to pinkish white color and local light gray, intense to strong pervasive sil-(albite altered/ank???) flooding of matrix, relict diffuse ghost mg to cg (up to 0.5 cm) sub-rounded qe (5%) giving a relict porphyritic texture, frequent to locally numerous very fine hairline fractures generally filled in with quartz, overall <1% to 5% qs with…				455927	228.15	228.65	0.50	-	-	0.11	-	-
						455928	228.65	229.15	0.50	-	-	0.34	-	-
						455929	229.15	229.65	0.50	-	-	0.13	-	-
						455930	229.65	230.30	0.65	-	-	0.22	-	-
		229.4 to 229.5 - Quartz Vein - milky white quartz composition with local altered wr inclusions with up to 1% py, sharp upper and lower contacts 52 and 80 from C.A., respectively												
		Mineralization - widely scattered vfg py ranging from 1% to 5% with increased sulphide near upper contact (2% to 5%) and at the lower contact (2% to 3%), py occurs as disseminated grains particularly found in the hairline fractures, non-magnetic.												
		Contact - sharp contact 45 from C.A.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												

From (m)	To (m)		Lithology		Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		227.75 - 230.30	AK SP 3	Ankerite, Along Shear Planes, Moderate												
		227.75 - 230.30	SI PV 5	Silicification, Pervasive, Intense												
		227.75 - 230.30	KSPAR PV 5	Potassic Feldspar, Pervasive, Intense												
		Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***												
		227.75 - 230.30	Py PA 1	Pyrite, Patchy, <1% to locally 5%												
230.30	234.85	**Fresh Rock**	**7C**	***Silicified Gabbro (Minor Silicified Tonali***	1	1	GREG	455931	230.30	230.80	0.50	-	-	0.16	-	-
								455932	230.80	231.65	0.85	-	-	0.01	-	-
								455933	231.65	232.50	0.85	-	-	0.07	-	-
								455934	232.50	233.05	0.55	-	-	0.00	-	-
								455935	233.05	234.00	0.95	-	-	0.01	-	-
								455937	234.00	234.85	0.85	-	-	0.04	-	-

Silicified Gabbro (Minor Silicified Tonalite Dykes) - greenish gray, pinkish white/bleached white and bleached green colors, intensely altered gabbro? with strong to intense sil with vfg granular quartz with relict amp-chl-fd, local 10 cm wide quartz-(weak fuschite) band at 232.9, scattered thin intensely sil-(fd) altered tonalite dykes accounting for 12% of the interval…range from 1.5 to 18 cm wide at varying core angles from 40 to 90 from C.A……no dykes from 232.5 to 234.85.

- weakly to moderately sheared 32 to 40 from C.A. with increased shearing towards 234.85, sheared brecciated aopearnace from 232.5 to 234.85, scattered qs/qcs 1% to 3%

Mineralization - occasional to widely scattered py <1%...locally up to 1%, weakly to non-magnetic
Contact - sharp contact 30 from C.A.

Alteration Maj:	***Type/Style/Intensity***	***Comment***
230.30 - 234.85	FU BNDS 2	Fuchsite, Bands/Banded, Weak
230.30 - 234.85	AB PV 4	Albitization, Pervasive, Strong to Intense?
230.30 - 234.85	SI PV 4	Silicification, Pervasive, Strong to Intense

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
230.30 - 234.85	Py BLB 1	Pyrite, Blebs, <1% to locally 1%

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
234.85	242.50	**Fresh Rock** **14B** ***Diabase Dyke***	1	1	BLK	455938	234.85	236.00	1.15	-	-	0.00	-	-
						455939	236.00	237.00	1.00	-	-	0.00	-	-
						455940	241.50	242.00	0.50	-	-	0.00	-	-
						455941	242.00	242.50	0.50	-	-	0.01	-	-

Diabase Dyke - black to dark metallic dark gray color, mafic in composition with a vfg (aphanitic) ferromagnesian-rich matrix…..occasional mg to cg (up to 0.5cm) ep-altered calcic plagioclase xenocryst (<0.5%), weak to no carbonate (calcite), <1% qs/qcs

Mineralization - barren and strongly magnetic
Contact - sharp contact at 42 from C.A., well developed chill zones at upper and lower contacts

Alteration Maj:	***Type/Style/Intensity***	***Comment***
234.85 - 242.50	CB MX 1	Carbonatization, Matrix, Very weak
234.85 - 242.50	SAUSS AFG 3	Saussuritization, Alteration of feldspar grains, Moderate
234.85 - 242.50	EP AFG 3	Epidotization, Alteration of feldspar grains, Moderate

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
234.85 - 242.50	Py BLB 0.5	Pyrite, Blebs,<0.5% to barren

242.50	244.60	**Fresh Rock** **SH** ***Silicified-Pyrite-(Ankerite) Shear***	1	1	LG	455942	242.50	242.90	0.40	-	-	0.23	-	-
						455943	242.90	243.40	0.50	-	-	0.31	-	-
						455944	243.40	244.05	0.65	-	-	0.00	-	-
						455945	244.05	244.60	0.55	-	-	0.01	-	-

Silicified-Pyrite-(Ankerite) Shear - light to bleached gray and green colors, intense to strong pervasive bleached white sil-(ab?) alteration of the matrix with possible ankerite-siderite……alteration occurs as pervasive flooding of the matrix, relict 5% to 10% mg to cg (0.3 to 0.4 cm in size) diffuse, crowded ghost feldspar/quartz phenocrysts from 243.0 to 243.4 giving a relict porphyritic texture.

- moderately sheared/foliated 50 from C.A., <1% qs with local 50% qs/qv from 243.4 to 244.05 with strong chl and mod cb wallrock as well as sil wallrock …..qs is irregular oriented with upper and lower contatcs 50 from C.A.

Mineralization - vfg disseminated 5% py in the intensely sil section from 242.5 to 243.4 with <1% py in qs/qv fracture interval and scattered 2% to 3% in the mod sil shear towards the lower contact, non-magnetic

Contact - sharp contact 52 from C.A.

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		242.50 - 244.60 AK-SID MX 2 Ankerite-Siderite?, Matrix, Weak												
		242.50 - 244.60 AB PV 5 Albitization, Pervasive, Intense												
		242.50 - 244.60 SI PV 5 Silicification, Pervasive, Intense												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		242.50 - 243.40 Py DIS 5 Pyrite, Disseminated, 5%												
		243.40 - 244.60 Py BLB 1 Pyrite, Blebs, <1% to locally 2% to 3% towards the lower contact												
244.60	245.45	**Fresh Rock** **QV** ***Quartz-Feldspar Vein***	1	1	WH	455946	244.60	245.45	0.85	-	-	0.00	-	-
		Quartz-Feldspar Vein - white and green color, quartz-feldspar composition with sil wallrock inclusion up to 15 cm in size, quartz flooding about feldspar indicating a younger quartz event, local tour along the margins, vfg and weakly fractured.												
		Mineralization - <1% py and non-magnetic Contact - sharp contact 52 from C.A. with strong chl margin with qs to qfv…margin is irregular and up to 8 cm wide												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment***												
		244.60 - 245.45 SI PV 5 Silicification, Pervasive, Intense												
		Mineralization Maj. : ***Type/Style/%Mineral*** ***Comment***												
		244.60 - 245.45 Py BLB 1 Pyrite, Blebs, <1%												
245.45	247.45	**Fresh Rock** **8D** ***Chloritic Granodiorite-Monzodiorite/Ton***	1	1	GREG	455947	245.45	246.35	0.90	-	-	0.00	-	-
		Chloritic Granodiorite-Monzodiorite/Tonalite/QP - greenish gray, gray, and light green colors, altered felsic to intermediate in composition with gradational increased chl alteration with cb from about 246.35…mod				455949	246.35	247.45	1.10	-	-	0.00	-	-

Hole Number **WAT17-10** Project: **WATERSHED EAST** Project Number: **259**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		sil from 245.45 to 245.65 and from 246.8 to 246.9, relict 5% fg to mg (<0.3cm) bluish and rounded quartz-eyes. - relict porphyritic texture, weak foliated/sh 50 to 55 from C.A., scattered qcs/qs up to 1% Mineralization - occasional py <1% and non-magnetic Contact - sharp contact 44 from C.A.												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment*** 245.45 - 247.45 SI BNDS 3 Silicification, Bands/Banded, Moderate 245.45 - 247.45 CB MX 2 Carbonatization, Matrix, Weak 245.45 - 247.45 CL MX 2 Chloritization, Matrix, Weak to Moderate ***Mineralization Maj. :*** ***Type/Style/%Mineral*** ***Comment*** 245.45 - 247.45 Py BLB 1 Pyrite, Blebs, <1%												
247.45	249.20	**Fresh Rock** **14B** ***Diabase Dyke***	1	1	BLK	455950	247.45	249.20	1.75	-	-	0.00	-	-
		Diabase Dyke - black to dark metallic dark gray color, mafic in composition with a vfg (aphanitic) ferromagnesian-rich matrix with moderate pervasive carbonate (calcite) in the matrix, scattered thin calcite stringers with local chlorite up to 0.5 cm wide and account for up to 1% Mineralization - barren and strongly magnetic Contact - sharp broken lowercontact												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment*** 247.45 - 249.20 CB MX 3 Carbonatization, Matrix, Moderate ***Mineralization Maj. :*** ***Type/Style/%Mineral*** ***Comment*** 247.45 - 249.20 Py BLB 0.5 Pyrite, Blebs, <0.5% to barren												

Hole Number **WAT17-10** Project: **WATERSHED EAST** Project Number: **259**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
249.20	251.00	**Fresh Rock** **8D** ***Chloritic & Carbonate Altered Granodio***	1	1	GREG	455951	249.20	249.90	0.70	-	-	0.01	-	-
						455952	249.90	251.00	1.10	-	-	0.01	-	-

Chloritic & Carbonate Altered Granodiorite-Monzodiorite/Tonalite/QP - greenish gray, grayish white, and green color, altered felsic to intermediate in composition with mod to (strong) chl-(cb) altered matrix from 249.2 to 249.9 and moderate carbonate-fuschite-(chlorite) from 249.9 to 251.0, scattered mg to cg (<0.6 cm) bluish qe in the upper chloritic section averaging 5%.

- porphyritic texture from 249.2 to 249.9 and strongly sheared section 30 from C.A. towards the lower contact, 1% to 2% qcs/qs with qcs parallel to shears

Mineralization - <1% to local 2% pyrite with up to 1% py from 249.2 to 249.9, occurs as scattered cubic grains
Contact - sharp contact

Alteration Maj:	***Type/Style/Intensity***	***Comment***
249.20 - 249.90	CB MX 2	Carbonatization, Matrix, Weak
249.20 - 249.90	CL MX 3	Chloritization, Matrix, Moderate to Strong
249.90 - 251.00	FU MX 3	Fuchsite, Matrix, Moderate
249.90 - 251.00	CL MX 2	Chloritization, Matrix, Weak
249.90 - 251.00	CB MX 3	Carbonatization, Matrix, Moderate

Mineralization Maj. :	***Type/Style/%Mineral***	***Comment***
249.20 - 251.00	Py DIS 1	Pyrite, Disseminated, <1% to locally 2%

251.00	264.20	**Fresh Rock** **7C** ***Gabbro (Minor Tonalite Dykes)***	1	1	DGR	455953	251.00	252.00	1.00	-	-	0.00	-	-
						455954	257.50	258.30	0.80	-	-	0.00	-	-
						455955	262.20	263.20	1.00	-	-	0.01	-	-
						455956	263.20	264.20	1.00	-	-	0.01	-	-

Gabbro (Minor Tonalite Dykes) - dark green to green in color, mafic in composition being moderately to strongly chloritic with increasing calcite carbonate (moderate) from 257.0 to 264.2, vfg and msv to weakly foliated typically 42 to 50 from C.A. with local 25 from C.A. at 260.8, scattered qcs/qs <1% with increased qcs/cs from 261.0 to 264.2 to 55 with locally 10% qcs/cs….up to 3 cm wide.

Mineralization - occasional to locally scattered vfg to fg py cubes < 1%, varies from non-magnetic to

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
		gradual increased moderate to strong magnetics from 261.0 to 264.2. Contact - gradational increase in qcs/cs -												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment*** 251.00 - 264.20 CB MX 2 Carbonatization, Matrix, Weak to Gradual Moderate Towards 264.2 251.00 - 264.20 CL MX 3 Chloritization, Matrix, Moderate to Strong ***Mineralization Maj. :*** ***Type/Style/%Mineral*** ***Comment*** 251.00 - 264.20 Py BLB 1 Pyrite, Blebs, <1%												
264.20	266.80	**Fresh Rock** **QTCSW** ***Weak Quartz-(Carbonate) Stockwork***	1	1	GR	455957	264.20	265.20	1.00	-	-	0.00	-	-
						455958	265.20	266.25	1.05	-	-	0.00	-	-
						455959	266.25	266.80	0.55	-	-	0.14	-	-
		Weak Quartz-(Carbonate) Stockwork - green and white colors, mafic composition with moderate chlorite and moderate carbonate (calcite) in the matrix and strong cb along fractures, numerous (10% to 20%) irregular oriented diffuse qcs/cs trending 15 to 50 from C.A……up to 1 cm wide. Mineralization - occasional vfg py (<1%) with local increase in py (5%) from 266.25 to 266.6 as disseminated cubes, moderately magnetic with gradual weak to non-magnetic from 266.0 to 266.8. Contact - gradational decrease in qcs/cs												
		Alteration Maj: ***Type/Style/Intensity*** ***Comment*** 264.20 - 266.80 CB MX 3 Carbonatization, Matrix, Moderate to Locally Strong along Fractures 264.20 - 266.80 CL MX 3 Chloritization, Matrix, Moderate to Strong ***Mineralization Maj. :*** ***Type/Style/%Mineral*** ***Comment*** 264.20 - 266.25 Py BLB 1 Pyrite, Blebs, <1% 266.25 - 266.80 Py DIS 5 Pyrite, Disseminated, 5%												

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
266.80	287.70	**Fresh Rock** **7Cm** ***Melanocratic Gabbro***	1	1	GREBL

Melanocratic Gabbro - greenish black to dark green color, mafic (Mg-rich to ultramafic) in composition with moderate chlorite and weak to locally moderate carbonate (calcite), strong cb in fractures, 10% to 20% vfg to fg (<0.15 cm) phenocrysts with <1% to locally 5% quartz, scattered cs/qcs (up to 5 cm) with local 205 to 30% cs/qcs fracturing from 278.0 to 278.6….overall 5% cs/qcs

Mineralization - occasional vfg py (<0.5%), moderately to locally strongly magnetic with decrease in magnetite in highly fractured zones
Contact - sharp contact 53 from C.A.

Alteration Maj:	*Type/Style/Intensity*	*Comment*
266.80 - 287.70	CB MX 2	Carbonatization, Matrix, Weak to Moderate
266.80 - 287.70	CL MX 3	Chloritization, Matrix, Moderate

Mineralization Maj. :	*Type/Style/%Mineral*	*Comment*
266.80 - 287.70	Py BLB 0.5	Pyrite, Blebs, <0.5%

Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)
455961	266.80	267.80	1.00	-	-	0.00	-	-
455962	267.80	268.80	1.00	-	-	0.00	-	-
455963	277.50	278.00	0.50	-	-	0.00	-	-
455964	278.00	278.60	0.60	-	-	0.01	-	-
455965	278.60	279.60	1.00	-	-	0.00	-	-
455966	279.60	280.60	1.00	-	-	0.00	-	-
455967	280.60	281.10	0.50	-	-	0.00	-	-
455968	285.25	285.85	0.60	-	-	0.00	-	-

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour
287.70	299.80	**Fresh Rock** **14B** ***Diabase Dyke***	1	1	BLK

Diabase Dyke - black to dark metallic gray color, mafic in composition with a vfg ferromagnesian matrix….gradually coarsening towards middle of the dyke from 291.0 to 296.0 with finer grained towards the margins, 20% to 30% vfg to fg (<0.10 cm) calcic plagioclase showing moderate ep alteration in the coarser section with well developed ophitic texture, occasional ep/sauss altered plagioclase xenocrysts <1%) up to 0.7 cm in size.

- scattered qcs/cs with epidote in the upper part of the interval with overall <1%

Mineralization - barren and strongly magnetic
Contact - sharp contact 29 from C.A with finer grained sections and chill margins on the upper and lower

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)

contacts

Alteration Maj:	Type/Style/Intensity	Comment
287.70 - 299.80	SAUSS AFG 3	Saussuritization, Alteration of feldspar grains, Moderate
287.70 - 299.80	EP AFG 3	Epidotization, Alteration of feldspar grains, Moderate

Mineralization Maj. :	Type/Style/%Mineral	Comment
287.70 - 299.80	Py BLB 0.5	Pyrite, Blebs, <0.5%

299.80 308.00 **Fresh Rock** **8E** ***Quartz Diorite-Diorite/Gabbro.*** 1 1 GR

Quartz Diorite-Diorite/Gabbro - green color, intermediate to (mafic) in composition with a vfg mod chl and wk cb altered matrix about fg to cg (<0.3 cm) 5% to 15% quartz phenocrysts giving a porphyritic texture, scattered qs/qcs 2% to 4%

302.95 to 303.2 - Granodiorite/Tonalite/QP - greenish gray color, felsic to intyermediate in composition with 15% to 20% mg quartz-eyes in qtz-fd-ep altered matrix, sub-porp texture, < 1% qs, sharp upper and lower contact 80 and 45 from C.A., respectively

Mineralization - occasional < 1% py, moderately magnetic from 299.8 to 302.95 with weak magnetism to 308.0

Alteration Maj:	Type/Style/Intensity	Comment
299.80 - 308.00	CB MX 2	Carbonatization, Matrix, Weak
299.80 - 308.00	CL MX 3	Chloritization, Matrix, Moderate

Mineralization Maj. :	Type/Style/%Mineral	Comment
299.80 - 308.00	Py BLB 1	Pyrite, Blebs, <1%

LITHOLOGY REPORT
- Detailed -

Hole Number **WAT17-10** Project: **WATERSHED EAST** Project Number: **259**

From (m)	To (m)	Lithology	Weathering	Oxidation	Colour	Sample #	From	To	Length	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number **WAT17-10** Project: **WATERSHED EAST** Project Number: **259**

From (m)	To (m)	Length (m)	Sample #	Comments
14.90	16.00	1.10	455815	Gabbro xcut bt GTT/QP - mafic composition with strong cb/ and wk to mod chl, vfg massive to wk fol, xcut by vfg GTT (0.40m wide), 1% to 2% qcs/cs, < 1% py
16.00	17.00	1.00	455816	GTT Breccia - felsic to intermediate in composition with wk-(mod) sil, local strong cb, fg, numerous gabbro rafts, 2% to 3% qcs/cs and local py <1% associated with qcs
17.00	17.80	0.80	455817	GTT Breccia - felsic to intermediate in composition with moderate to strong pervasive, numerous gabbro rafts up to 20 cm, 5% to 7% qcs/qs with up to 1% patchy py-(cpy)…overall <1% sulphide
17.80	18.80	1.00	455818	Gabbro - mafic in composition, strong pervasive ca-cb, vfg and massive, <1% qcs and py
21.00	22.00	1.00	455819	Gabbro - mafic in composition with strong pervasive ca-cb, vfg and massive, lone qcs/qs up to 5cm, 1% to 2% vfg disseminated py
22.00	22.90	0.90	455820	Gabbro - mafic in composition with strong pervasive ca-cb, vfg and massive, 5% qcs/qs up to 7cm, 1% to 2% vfg disseminated py
22.90	23.40	0.50	455821	Gabbro - mafic in composition with strong pervasive ca-cb, vfg and massive, 1% to 2%5% qcs/qs up to 1 to 2cm, 1% to 2% vfg disseminated py
23.40	24.00	0.60	455822	Gabbro and Chloritic QP - gabbro accounts for 80% xcut by chl-cb altered QP (relict porp texture), 1% to 2% qcs/cs, 2% to 4% vfg disseminated py
24.00	25.00	1.00	455823	Fractured Gabbro - mafic in composition with strong per cb, vfg and mod fractured with 10% thin qcs/cs, <1% py-(cpy)
25.00	26.00	1.00	455825	Gabbro - mafic composition with mod chl and mod/strong cb, vfg and wk fol, <1% qcs/qs, <1% py
35.50	36.50	1.00	455826	Quartz Diorite - intermediate to (mafic) composition with strong ep, fd-rich, <1% qs, <1% py
36.50	37.40	0.90	455827	GTT intruding Quartz Diorite - tongue of GTT/QP intruding quartz diorite, strong overprint of ep, 1% to 3% qs, overall <1% to 2% disseminated cpy>py following contact with localized 3% cpy
37.40	38.00	0.60	455828	Quartz Diorite - intermediate to (mafic) composition with strong ep, fd-rich, 5% to 10% qs, <1% py-cpy
44.60	45.60	1.00	455829	Gabbro - mafic in composition with moderate to strong per cb, vfg to fg and msv, 1% to 2% qcs/cs, <1% py
45.60	46.05	0.45	455830	Silciified GTT Dyke - mod sil in vfg matrix, wk cb, <1% qcs/qs, numerous chl-(ser) microfractures, 1% to 3% py as fracture filling…patchy
46.05	47.00	0.95	455831	Fractured & Sheared Gabbro Raft - altered mafic with strong per chl and variable wk to strong cb, locally sh and fractured 10% qcs/cs parallel to sh, < 1% py
47.00	48.00	1.00	455832	GTT Breccia - numerous chl-cb altered mafic gabbroic clasts/bands xcut by vfg felsic GTT, 2% to locally 5% cs/qcs, occasional to localized py in qcs/cs fract with overall <1% py
48.00	49.00	1.00	455833	GTT Breccia - numerous chl-cb altered mafic gabbroic clasts/bands xcut by vfg felsic GTT, 2% to 3% cs/qcs, occasional <1% py
68.10	69.10	1.00	455834	GTT/QP - mod chl-cb alteration, vfg and msv..relict porp, 2% to 3% qcs/qs, occasional py <1%
69.10	69.80	0.70	455835	Chloritic GTT/QP - strong intense chl alteration with no to wk ca-cb, relict qe..porp, <1% qcs and py
69.80	70.80	1.00	455837	Chloritic GTT/QP - strong intense chl alteration with no to wk ca-cb, relict qe..porp, <1% qcs, increase in py to lower part of interval with py ranging <1% to locally 5% disseminations
70.80	71.85	1.05	455838	Chloritic GTT/QP - both sharp contact between strong/intense chl alteration overprint and QP with strong interstitial chl alteration, increase to strong cb towards 71.85, irregular contact with chl alt., scattered qs/qcs 1% to 2%, 1% to 2% scattered patchy py with cpy
71.85	72.85	1.00	455839	Chloritic GTT/QP - strong intense chl alteration with mod/strong per ca-cb, vfg and relict qe..porp, 2% to 3% qcs/cs, occasional py <1%
80.40	81.50	1.10	455840	Fractured GTT/QP - mod to strong chl with mod cb, vfg and fractured with 5% thin cs, <1% py
81.50	82.50	1.00	455841	Fractured GTT/QP - mod to strong chl with mod cb, vfg and fractured with 5% to 10% thin cs, <1% py
82.50	83.30	0.80	455842	Fractured GTT/QP - mod to strong chl with mod cb, vfg and fractured with 5% thin cs, <1% py

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number **WAT17-10** Project: **WATERSHED EAST** Project Number: **259**

From (m)	To (m)	Length (m)	Sample #	Comments
116.00	117.00	1.00	455843	Gabbro - mafic in composition with strong chl and wk cb…strong in fract, 2% to 4% cs/qcs, <1% py
117.00	117.95	0.95	455844	Gabbro - mafic in composition with moderate chl and wk to moderate per cb…strong in fract, 2% to 3% cs/qcs, <1% py
117.95	118.70	0.75	455845	Quartz Porphyry - felsic composition with wk-mod sil, 205-25% qe in chl-(cb) interstitial matrix, local hem, porp, <1% qcs, 1% to 2% scattered patchy py
118.70	119.50	0.80	455846	Quartz-Felspar Porphyry - felsic composition with wk-mod cb-hem dusting, porp texture, <1% qcs, 1% to 2% scattered patchy py with <1% local cpy at 119.1
119.50	120.50	1.00	455847	Gabbro - mafic in composition with mod chl/cb…strong ca-cb fractures, vfg and numerous ca-cb fractures 5% to 10% cs, widely scatterered py < 1%
120.50	121.50	1.00	455849	Gabbro - mafic in composition with mod chl/cb…strong ca-cb fractures, vfg and ca-cb fractures <1% to 5% cs, widely scatterered py < 1%
133.90	135.10	1.20	455850	Gabbro - mafic in composition with mod chl-ep and wk cb, vfg to fg with 15% to 20% ep fd, scattered 2% to 3% qs/qcs, <1% widely scattered py
135.10	135.50	0.40	455851	Gabbro - mafic in composition with mod chl-ep and wk cb, fg 15% to 20% ep fd, scattered 5% qs/qcs, 0.5 cm wide msv py in cs with 1% scattered py in wr…overall 5% py
135.50	136.50	1.00	455852	Gabbro - mafic in composition with mod chl-ep and fg 30% to 35% ep fd, <1% qs/qcs, <1% widely scattered py
136.50	137.55	1.05	455853	Gabbro - mafic in composition with strong chl from 137.0 to 137.55 (increased fol), wk cb, fg 30% to 35% ep fd, <1% to 5% qcs/cs with increased fractures at top of interval, <1% widely scattered py
137.55	139.00	1.45	455854	Gabbro - mafic in composition with mod chl-ep, wk cb, fg 30% to 35% ep fd, <1% qcs/cs, <1% widely scattered py
139.00	139.50	0.50	455855	Gabbro - mafic in composition with mod chl and strong chl about 5% qcs/qs margins, 1% to 2% mg-cg pyrite cubes associated with qcs/qs fractures
139.50	140.50	1.00	455856	Gabbro - mafic incomposition with mod chl-ep and wk cb…strong cb in fract, 1% to 2% thin cs/qcs, widely scattered py < 1%
140.50	141.10	0.60	455857	Gabbro - mafic in composition with mod chl and cb….strong cb in fractures, 6 cm wide cs/qcs over 0.2m parallel to C.A., 2% to 3% scattered py cubes
141.10	142.00	0.90	455858	Gabbro - mafic in composition with mod chl-ep and wk cb, 20% fg to mg fd…wk-mod ep alt, <1% qcs/cs and py
169.00	170.00	1.00	455859	Gabbro - mafic in composition with mod per chl and cb with ep, 5% to 10% fd, 1% to 3% cs/qcs, <1% py
170.00	170.70	0.70	455861	Fractured Gabbro - mafic in composition with mod-(strong) chl and wk-mod cb…strong ca in fract, 10% cs.qcs, overall <1% py with up to 1% py in lower cs/qcs fractures
170.70	171.10	0.40	455862	Gabbro - mafic in composition with mod per chl and cb with ep, 5% to 10% fd, 1% to 2% cs/qcs, <1% py
171.10	171.60	0.50	455863	Fractured Gabbro - mafic in composition with mod chl and wk cb…strong ca in fractures, 10% to 15% cs/qcs, widely scattered py up to 1%
171.60	172.30	0.70	455864	Fractured Gabbro - mafic in composition with mod cb and wk/mod cb…strong ca in fract, 5% to 10% cs/qcs, <1% widely scattered py
172.30	173.00	0.70	455865	Gabbro - mafic in composition with mod chl and wk cb, <2% to 3% cs/qcs, <1% py
193.70	194.70	1.00	455866	Gabbro - mafic in composition with wk/mod chl and wk cb, vfg and msv, minor CIC dykes?, scattered qcs/qs 2% to 4%, < 1% py
194.70	195.70	1.00	455867	Gabbro - mafic in composition with wk/mod chl and wk cb, vfg and msv, minor CIC dykes?, scattered qcs/qs 1% to 3%, < 1% py
195.70	196.75	1.05	455868	CIC Breccia - mod to strong sil GTT and mod chl and cb of gabbro clasts, wk sh, <1% qcs/qs, widely scattered py-(aspy?) <1%
196.75	197.80	1.05	455869	CIC Breccia - local mod to strong sil GTT grading into porp QFP, wk/mod chl-cb, wk sh, <1% qcs/qs, widely scattered py-(aspy?) <1%
197.80	198.80	1.00	455870	GTT/QFP - intermediate composition with mod chl and wk cb,porp with qtz and fd phenocrysts, <1% qs/qcs and py

SAMPLE DESCRIPTION REPORT

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Hole Number **WAT17-10** Project: **WATERSHED EAST** Project Number: **259**

From (m)	To (m)	Length (m)	Sample #	Comments
198.80	199.80	1.00	455871	GTT/QFP - intermediate composition with mod chl and wk cb,porp with qtz and fd phenocrysts, <1% qs/qcs and py
199.80	200.80	1.00	455873	GTT/QFP - intermediate composition with local sil & mod chl and wk cb,porp with qtz and fd phenocrysts, 2% to 3% qs/qcs and <1% py
200.80	201.40	0.60	455874	CIC Breccia - patchy mod sil and mod ch, mod sh bx texture, <1% qs/qcs, occasional to local py-(aspy) < 1%l
201.40	202.15	0.75	455875	CIC Breccia - patchy mod sil and mod ch, mod sh bx texture, <1% qs/qcs, occasional to local py-(aspy) < 1%l
202.15	202.40	0.25	455876	Ankerite-Siderite Shear - strong per ank-sid and sh, vfg, 1% to 2% qcs/qs, <1% py
202.40	203.20	0.80	455877	Ankerite-Siderite-Silicified Shear - strong sh-controlled ank-sid-sil lam/bands, strongly sh, 2% to 3% qs/qcs, 1% to 2% disseminated py at top of interval decreasing with depth
203.20	204.20	1.00	455878	Ankerite-Siderite-(Silicified) Shear - strong sh-controlled ank-sid with sil lam/bands, strongly sh, <1% qs/qcs, <1% occasional py
204.20	205.20	1.00	455879	Ankerite-Siderite - strong sh-controlled ank-sid with local sil lam/bands, strongly sh, <1% qs/qcs, <1% occasional py
205.20	206.00	0.80	455880	Ankerite-Siderite Shear - strong sh-controlled ank-sid with sil lam/bands, strongly sh, 1% qs/qcs, <1% widely scattered vfg py
206.00	207.00	1.00	455881	Ankerite-Siderite Shear - strong sh-controlled ank-sid with sil, strongly sh and crenulated flexures, 1% to 2% folded qcs/qs, <1% py
207.00	207.50	0.50	455882	Ankerite-Siderite Shear - strong sh-controlled ank-sid with sil, strongly sh and bx, <5% folded & boud qcs/qs, <1% vfg py
207.50	208.00	0.50	455883	Fractured Ankerite-Siderite-Silicified Shear - strong sh controlled ank-sid with strong sil about 15% qs fractures, qs id boud parallel to sh, 2% to 5% vfg disseminated py with aspy <1%
208.00	209.00	1.00	455885	Ankerite-Siderite Shear - strong sh-controlled ank-sid with sil, strongly sh, 2% fo to 3% folded qcs/qs, up to 1% vfg patchy py
209.00	209.50	0.50	455886	Ankerite-Siderite Shear - strong sh-controlled ank-sid with sil, strongly sh, 2% fo to 3% folded qcs/qs, up to 1% vfg patchy py
209.50	210.00	0.50	455887	Fractured Ankerite-Siderite-Silicified Shear - strong sh controlled ank-sid with strong sil in matrix with 10% to 15% qs fractures, folded qs, 1% to 2% vfg disseminated py with aspy <1%
210.00	210.25	0.25	455888	Fractured Ankerite-Siderite-Silicified Shear - strong sh controlled ank-sid with strong sil in matrix with 20% to 25% folded qs fractures, strongly sh, up to 1% py & VG at 210.2 smeared on coarse splashes of cpy <1% in thin qs,
210.25	210.50	0.25	455889	Fractured Ankerite-Siderite-Silicified Shear - strong sh controlled ank-sid with strong sil in matrix with 10% to 20% folded qs fractures, strongly sh, up to 1% to 2% py & VG at 210.4 smeared on vfg cpy <1% in qs
210.50	211.00	0.50	455890	Fractured Ankerite-Siderite-Silicified Shear - strong sh controlled ank-sid with strong sil in matrix with 20% to 30% folded qs fractures, strongly sh, up to widely scattered 1%
211.00	211.50	0.50	455891	Ankerite-Siderite-Silicified Shear - strong sh controlled ank-sid with strong sil in matrix, <5% folded qs fractures, strongly sh, <1% vfg py
211.50	212.00	0.50	455892	Fractured Ankerite-Siderite-Silicified Shear - strong sh controlled ank-sid with strong sil in matrix with 10% to 15% folded qs fractures, strongly sh, <1% vfg widely scattered py
212.00	212.50	0.50	455893	Fractured Ankerite-Siderite-Silicified Shear & QV- strong sh controlled anksid with mod-strong sil, xcut by milky white qv, 10% to 15% folded qs, up to 1%...locally to 2% vfg py-(spy)
212.50	213.00	0.50	455894	Ankerite-Siderite-Silicified Shear - strong sh controlled ank-sid with strong sil in matrix, <5% folded qs fractures, strongly sh, <1% vfg py
213.00	213.50	0.50	455895	Fractured Ankerite-Siderite-Silicified Shear - strong sh controlled ank-sid with strong sil in matrix with 10% to 12% folded qs fractures, strongly sh, <1% vfg widely scattered py
213.50	214.30	0.80	455897	Ankerite-Siderite-Silicified Shear - strong sh controlled ank-sid with strong sil in matrix, 1% folded qs fractures, strongly sh, <1% vfg py
214.30	214.90	0.60	455898	Ankerite-Siderite-Silicified-Pyrite Shear - strong sh-controlled ank-sid and sil, strongly sh, <5% qcs, 5% to 10% vfg disseminated py-aspy.

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Hole Number **WAT17-10** Project: **WATERSHED EAST** Project Number: **259**

From (m)	To (m)	Length (m)	Sample #	Comments
214.90	215.30	0.40	455899	Ankerite-Siderite-Silicified-Pyrite Shear - strong sh-controlled ank-sid and sil, strongly sh, 5% qcs, 5% to 10% vfg disseminated py-aspy.
215.30	215.80	0.50	455900	Quartz Breccia - strong/intense sil-(ab?) and strongly sh and bx, <5% qs/qcs, 5% to 7% vfg patchy py-aspy
215.80	216.45	0.65	455901	Quartz Breccia - ng/intense sil-(ab?) and strongly sh and bx, <1% qs/qcs, 5% to 10% vfg disseminated py-aspy
216.45	217.00	0.55	455902	Silciified-Pyrite Shear - strong to intense sil-(ank-sid?), strongly sh, 5 cm xcut qs, 5% to 10% vfg disseminated py
217.00	217.50	0.50	455903	Chlorite-Silicified Shear - mod to strong chl with strongly sil bands, strongly sh and 5% qs parallel to sh, <1% to 5% py-aspy mainly in sil bands
217.50	218.00	0.50	455904	Chlorite-Silicified Shear - mod to strong chl with strongly sil bands, strongly sh and 2% to 5% qs parallel to sh, 5% patchy py-aspy in both chl and sil
218.00	218.50	0.50	455905	Silicified-Chlorite Shear - mod to strong sil with wk chl, strongly sh and <5% qs, <1% to 2% py-aspy
218.50	219.00	0.50	455906	Silicified-Chlorite Shear - mod to strong sil with wk chl, strongly sh, 5% to 7% irregular qs, <1% to 5% vfg disseminated py-aspy increasing towards 219.0
219.00	219.70	0.70	455907	Silicified-Chlorite Shear - mod to strong sil with wk chl, strongly sh, 20% qs, 5% vfg disseminated py-aspy
219.70	220.20	0.50	455908	Silicified-Chlorite Shear - mod to strong sil with wk chl, strongly sh, 5% qs, 5%to 10% vfg disseminated py-aspy
220.20	220.70	0.50	455909	Silicified-Chlorite Shear - mod to strong sil with wk chl, strongly sh, 5% qs, 10% to 15% vfg disseminated py-aspy
220.70	221.20	0.50	455910	Silicified-Pyrite Shear - bleached gy-wt to white color, strong/intense sil-(ab?), strongly sh, 2% to 3% qs, 10% vfg disseminatd py-aspy
221.20	221.70	0.50	455911	Silicified-Pyrite Shear - bleached gy-wt to white color, strong/intense sil-(ab?), strongly sh, <1% qs, 15% to 20% vfg disseminated py-aspy
221.70	222.20	0.50	455913	Silicified-Pyrite Shear - bleached gy-wt to white color, strong/intense sil-(ab?), strongly sh, <1% qs, 10% to 15% vfg disseminated py-aspy
222.20	222.70	0.50	455914	Silicified-Pyrite Shear - bleached gy-wt to white color, strong/intense sil-(ab?), strongly sh, 1% to 3% deformed qs, 5% to 10% vfg disseminated py-aspy associated with microfractures
222.70	223.20	0.50	455915	Silicified-Pyrite Shear - bleached gy-wt to white color, strong/intense sil-(ab?), strongly sh, 1% to 3% deformed qs, 5% to 7% vfg disseminated py-aspy associated with microfractures
223.20	223.70	0.50	455916	Silicified-Pyrite Shear - bleached gy-wt to white color, strong/intense sil-(ab?), strongly sh, 2%% to 3% qs, 5% vfg disseminated py-aspy
223.70	224.20	0.50	455917	Silicified-Chlorite Shear - banded mod chl bnds and strong sil-(ab) bndsm strongly sh and 1% to 2% qs, 2% to 3% vfg scattered py-aspy
224.20	224.70	0.50	455918	Silicified-Pyrite Shear - bleached gy-wt to white color, strong/intense sil-(ab?), strongly sh, 2% to 3% qs, 5% to 10% vfg disseminated py-aspy with local po (<1%) fracture at 224.7
224.70	225.70	1.00	455919/45592	Silicified-Pyrite Shear - bleached gy-wt to white color, strong/intense sil-(ab?) with possible ank, strongly sh, 5% qs with increase in qs in last 0.5m to 5% to 10%, 5% to 10% vfg disseminated py-aspy
225.70	226.20	0.50	455921	QTSW (Fractured Sil-(Chl) Shear) - strong/intensely sil-ab sh bnds with wk-mod chl bnds, strongly sheared, 20% qs/qcs, 1% to 3% disseminated py-(aspy)
226.20	226.70	0.50	455922	QTSW (Fractured Sil-(Chl) Shear) - strong/intensely sil-ab sh bnds with wk-mod chl bnds, strongly sheared and fractured, 25% to 30% qs/qcs, 3% to 5% disseminated py-(aspy)
226.70	227.25	0.55	455923	QTSW (Fractured Sil-Pyrite Shear) - strong/intensely sil-ab sh bnds with wk-mod chl bnds, strongly sheared and fractured, 20% to 25% qs/qcs, 5% to 10% dsseminated py-(aspy)
227.25	227.75	0.50	455925	Quartz Vein - quartz composition with numerous chl(cb) growth seams/styolitic fractures, 10% alt wr, sh, <1% to local 2%-3% py in sections of vn with numerous chl-(cb) seams
227.75	228.15	0.40	455926	Silicified Tonalite - strong bleached gray sil-(ab & ank?), relict porp, local alt gabbro incl, 1% to 2% qs, 2% to 5% py generally in alt incl and wr/incl margins
228.15	228.65	0.50	455927	Silicified Tonalite - pinkish white intense sil-ab & ank??, relict diffuse qtz phenocrysts and porp, frequent hairline fract, <1% qs, 1% to local 2% vfg scattered py

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Hole Number **WAT17-10** Project: **WATERSHED EAST** Project Number: **259**

From (m)	To (m)	Length (m)	Sample #	Comments
228.65	229.15	0.50	455928	Silicified Tonalite - pinkish white intense sil-ab & ank??, relict diffuse qtz phenocrysts and porp, frequent hairline fract, <1% qs, 1% to local 2% vfg scattered py
229.15	229.65	0.50	455929	Silicified Tonalite - pinkish white intense sil-ab & ank??, relict diffuse qtz phenocrysts and porp, xcutting 14 cm wide qv and alt gabbro incl, frequent hairline fractr, <1% qs, 1% to local 2% vfg scattered py
229.65	230.30	0.65	455930	Silicified Tonalite - pinkish white intense sil-ab & ank??, relict diffuse qtz phenocrysts and porp, frequent hairline fract, <1% qs, 2% to 3% fg scattered py associated to fractures
230.30	230.80	0.50	455931	Silicified Gabbro xcut by Sil Tonalite - mod to strong sil gabbro xcut by strong sil-(fd) altered tonalite (20%), space clvg in alt gabbro and vfg, <1% qs and py
230.80	231.65	0.85	455932	Silicified Gabbro xcut by Sil Tonalite - mod to strong sil gabbro xcut by strong sil-(fd) altered tonalite (50%), numerous dykes, space clvg in alt gabbro and vfg, <1% qs and py
231.65	232.50	0.85	455933	Silicified Gabbro xcut by Sil Tonalite - mod to strong sil gabbro xcut by strong sil-(fd) altered tonalite (20%), space clvg in alt gabbro and vfg, <1% qs and up to 1% widely scattered py
232.50	233.05	0.55	455934	Silicified and Sheared Gabbro - strong sil in matrix, local 10 cm wide qtz bnd with fus, wk-mod sh and bx, <1% qs/qcs and py
233.05	234.00	0.95	455935	Silicified and Sheared Gabbro - strong sil in matrix, wk-mod sh and bx, <1% qs/qcs and py
234.00	234.85	0.85	455937	Silicified and Sheared Gabbro - strong sil in matrix, wk-mod sh and bx, <1% qs/qcs and py
234.85	236.00	1.15	455938	Diabase - mafic composition, occasional ep altered cg plagioclase in a vfg matrix, massive, <1% qcs, <1% py and strongly magnetic
236.00	237.00	1.00	455939	Diabase - mafic composition, occasional ep altered cg plagioclase in a vfg matrix, massive, <1% qcs, <1% py and strongly magnetic
241.50	242.00	0.50	455940	Diabase - mafic composition, occasional ep altered cg plagioclase in a vfg matrix, massive, <1% qcs, <1% py and strongly magnetic
242.00	242.50	0.50	455941	Diabase - mafic composition, occasional ep altered cg plagioclase in a vfg matrix, massive, <1% qcs, <1% py and strongly magnetic
242.50	242.90	0.40	455942	Silicified-Pyrite-(Ankerite) Shear - intense per sil-(ab-ank?) flooding of matrix, frequent microfractures, 5% to 7% qs, 5% vfg disseminated py
242.90	243.40	0.50	455943	Silicified-Pyrite-(Ankerite) Shear - intense per sil-(ab-ank?) flooding of matrix, relict porp texture, frequent microfractures, 3% to 5% qs, 5% vfg disseminated py
243.40	244.05	0.65	455944	QTSW/QV - green and milky white with 50% qs/qv being qtz composition with weak cb, irregular oriented, strong chl and mod cb of wr as inclusions, local tour, <1% py
244.05	244.60	0.55	455945	Silicified-(Ankerite) Shear - strong per sil-(ab-ank?), mod sh, <1% qs, 2% to 3% scattered py
244.60	245.45	0.85	455946	Quartz-Feldspar Vein - qtz-fd composition, wk fract, sil wr incl., <1% py
245.45	246.35	0.90	455947	Chloritic GTT - mod sil and grad increase in wk chl-(cb, porp, <1% qs and py
246.35	247.45	1.10	455949	Chloritic GTT - altered felsic to intermediate composition with mod chl with wk cb, porp, <1% qs and py
247.45	249.20	1.75	455950	Diabase - mafic composition, vfg and msv, scattered cs up to 1%, <1% py and strongly magnetic
249.20	249.90	0.70	455951	Choritic GTT/QP - mod chl with wk cb, porp texture, <1% qs/qcs, patchy <1% to 2% py with overall average 1% scattered py
249.90	251.00	1.10	455952	Sheared& Carbonate/Fuschite Altered QP - mod cb with fus in bnds, strongly sh, 2% to 3% qcs, <1% py
251.00	252.00	1.00	455953	Gabbro - mafic in composition with strong chl and wk cb, vfg and wk fol, 1% to 2% qs/qcs, <1% py
257.50	258.30	0.80	455954	Gabbro - mafic composition with mod chl-cb, vfg and msv, <1% qs/qcs…no qcs/cs, scattered py < 1% and wk/mod mag
262.20	263.20	1.00	455955	Gabbro - mafic in composition with mod chl and mod to strong ca-cb, fractured with 5% to 7% cs/qcs, < 1% py

SAMPLE DESCRIPTION REPORT

- Assay -

Hole Number **WAT17-10** Project: **WATERSHED EAST** Project Number: **259**

From (m)	To (m)	Length (m)	Sample #	Comments
263.20	264.20	1.00	455956	Gabbro - mafic in composition with mod chl and mod to strong ca-cb, fractured with 5% cs/qcs, < 1% py
264.20	265.20	1.00	455957	Weak QTCSW - mafic in composition with strong ca-cb and wk-mod chl, fractured with 10% to 15% cs/qcs, < 1% py
265.20	266.25	1.05	455958	Weak QTCSW - mafic in composition with strong ca-cb and wk-mod chl, fractured with 15% to 20% cs/qcs, < 1% py
266.25	266.80	0.55	455959	Weak QTCSW - mafic in composition with strong ca-cb and wk-mod chl, fractured with 15% cs/qcs, < 1% py with local 5% disseminated py from 266.25 to 266.6
266.80	267.80	1.00	455961	Gabbro - mafic in composition with mod chl and mod to strong ca-cb, fractured with 10% cs/qcs, < 1% py
267.80	268.80	1.00	455962	Gabbro - mafic in composition with mod chl and mod to strong ca-cb, fractured with 5% cs/qcs, < 1% py
277.50	278.00	0.50	455963	Gabbro - mafic composition with mod chl with wk cb, 2% to 3% qcs/cs, <1% py
278.00	278.60	0.60	455964	QTCSW - mafic composition with strong cb 30% to 35% qcs/cs, <1% py
278.60	279.60	1.00	455965	Gabbro - mafic composition with mod chl with wk cb, 1% to 2% qcs/cs, <1% py
279.60	280.60	1.00	455966	Gabbro - mafic composition with mod to strong chl with wk cb, 10% qcs/cs parallel to C.A., <1% py
280.60	281.10	0.50	455967	Gabbro - mafic composition with wk to mod with strong ca-cb fractures, 2% to 3% cs/qcs, <1% py
285.25	285.85	0.60	455968	Gabbro - mafic composition with mod chl being amp, no cb and cs/qcs, <1% py & non-magnetic

APPENDIX 2

Quality Analysis ... *Innovative Technologies*

Date Submitted: 28-Nov-16
Invoice No.: A16-12700-Au
Invoice Date: 06-Dec-16
Your Reference: TME East - 240

Trelawney Mining and Exploration
3 Mesomikenda Lake Road
PO Box 100
Gogama ON P0M 1W0
Canada

ATTN: Alan Smith

CERTIFICATE OF ANALYSIS

330 Rock samples were submitted for analysis.

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

REPORT **A16-12700-Au**

Notes:

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

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
1752 Riverside Drive, Timmins, Ontario, Canada, P4R 1N1
TELEPHONE +705 264-0123 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Timmins@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au
Unit Symbol	ppm
Lower Limit	0.005
Method Code	FA-AA
283001	0.006
283002	0.005
283003	< 0.005
283004	< 0.005
283005	< 0.005
283006	< 0.005
283007	< 0.005
283008	< 0.005
283009	< 0.005
283010	< 0.005
283011	< 0.005
283012	0.622
283013	< 0.005
283014	< 0.005
283015	< 0.005
283016	< 0.005
283017	< 0.005
283018	< 0.005
283019	< 0.005
283020	< 0.005
283021	< 0.005
283022	< 0.005
283023	< 0.005
283024	< 0.005
283025	< 0.005
283026	< 0.005
283027	< 0.005
283028	< 0.005
283029	< 0.005
283030	0.008
283031	0.013
283032	< 0.005
283033	< 0.005
283034	< 0.005
283035	< 0.005
283036	1.967
283037	< 0.005
283038	< 0.005
283039	< 0.005
283040	< 0.005
283041	< 0.005
283042	< 0.005

Analyte Symbol	Au
Unit Symbol	ppm
Lower Limit	0.005
Method Code	FA-AA
283043	< 0.005
283044	< 0.005
283045	< 0.005
283046	< 0.005
283047	< 0.005
283048	< 0.005
283049	< 0.005
283050	0.005
283051	< 0.005
283052	< 0.005
283053	< 0.005
283054	0.005
283055	< 0.005
283056	0.012
283057	< 0.005
283058	< 0.005
283059	< 0.005
283060	0.233
283061	< 0.005
283062	< 0.005
283063	< 0.005
283064	0.005
283065	0.007
283066	< 0.005
283067	0.006
283068	< 0.005
283069	0.005
283070	0.006
283071	< 0.005
283072	< 0.005
283073	0.008
283074	0.005
283075	0.011
283076	0.052
283077	0.009
283078	< 0.005
283079	0.005
283080	0.020
283081	0.011
283082	0.007
283083	< 0.005
283084	1.544

Analyte Symbol	Au
Unit Symbol	ppm
Lower Limit	0.005
Method Code	FA-AA
283085	0.005
283086	< 0.005
283087	< 0.005
283088	< 0.005
283089	< 0.005
283090	< 0.005
283091	< 0.005
283092	< 0.005
283093	< 0.005
283094	< 0.005
283095	0.005
283096	< 0.005
283097	< 0.005
283098	0.006
283099	< 0.005
283100	< 0.005
283101	< 0.005
283102	< 0.005
283103	< 0.005
283104	0.008
283105	< 0.005
283106	< 0.005
283107	< 0.005
283108	< 0.005
283109	< 0.005
283110	< 0.005
283111	< 0.005
283112	0.620
283113	< 0.005
283114	< 0.005
283115	< 0.005
283116	< 0.005
283117	< 0.005
283118	< 0.005
283119	< 0.005
283120	< 0.005
283121	< 0.005
283122	< 0.005
283123	< 0.005
283124	< 0.005
283125	< 0.005
283126	< 0.005

Analyte Symbol	Au
Unit Symbol	ppm
Lower Limit	0.005
Method Code	FA-AA
283127	< 0.005
283128	< 0.005
283129	< 0.005
283130	< 0.005
283131	< 0.005
283132	< 0.005
283133	< 0.005
283134	< 0.005
283135	< 0.005
283136	2.258
283137	< 0.005
283138	< 0.005
283139	0.006
283140	< 0.005
283141	< 0.005
283142	0.009
283143	< 0.005
283144	0.006
283145	< 0.005
283146	0.005
283147	0.009
283148	< 0.005
283149	0.006
283150	0.009
283151	0.005
283152	< 0.005
283153	< 0.005
283154	< 0.005
283155	< 0.005
283156	< 0.005
283157	< 0.005
283158	0.010
283159	0.005
283160	0.270
283161	0.013
283162	0.014
283163	0.009
283164	< 0.005
283165	< 0.005
283166	0.025
283167	0.017
283168	< 0.005

Analyte Symbol	Au
Unit Symbol	ppm
Lower Limit	0.005
Method Code	FA-AA
283169	< 0.005
283170	0.010
283171	0.007
283172	< 0.005
283173	< 0.005
283174	0.005
283175	< 0.005
283176	< 0.005
283177	< 0.005
283178	< 0.005
283179	0.006
283180	< 0.005
283181	< 0.005
283182	0.007
283183	< 0.005
283184	1.731
283185	< 0.005
283186	< 0.005
283187	< 0.005
283188	< 0.005
283189	< 0.005
283190	< 0.005
283191	< 0.005
283192	< 0.005
283193	< 0.005
283194	< 0.005
283195	< 0.005
283196	< 0.005
283197	< 0.005
283198	< 0.005
283199	< 0.005
283200	< 0.005
283201	< 0.005
283202	< 0.005
283203	0.005
283204	< 0.005
283205	< 0.005
283206	< 0.005
283207	< 0.005
283208	0.570
283209	< 0.005
283210	< 0.005

Analyte Symbol	Au
Unit Symbol	ppm
Lower Limit	0.005
Method Code	FA-AA
283211	0.006
283212	0.011
283213	< 0.005
283214	< 0.005
283215	< 0.005
283216	< 0.005
283217	< 0.005
283218	< 0.005
283219	0.009
283220	< 0.005
283221	0.006
283222	0.009
283223	< 0.005
283224	0.039
283225	0.007
283226	0.018
283227	0.029
283228	0.009
283229	0.007
283230	0.019
283231	0.006
283232	2.202
283233	0.005
283234	0.006
283235	< 0.005
283236	0.005
283237	0.007
283238	< 0.005
283239	0.007
283240	0.007
283241	0.007
283242	0.006
283243	< 0.005
283244	< 0.005
283245	< 0.005
283246	< 0.005
283247	< 0.005
283248	< 0.005
283249	< 0.005
283250	< 0.005
283251	< 0.005
283252	< 0.005

Analyte Symbol	Au
Unit Symbol	ppm
Lower Limit	0.005
Method Code	FA-AA
283253	0.005
283254	< 0.005
283255	0.006
283256	0.218
283257	0.005
283258	< 0.005
283259	0.008
283260	0.006
283261	< 0.005
283262	< 0.005
283263	0.012
283264	0.007
283265	< 0.005
283266	< 0.005
283267	< 0.005
283268	< 0.005
283269	< 0.005
283270	< 0.005
283271	< 0.005
283272	0.007
283273	0.009
283274	< 0.005
283275	< 0.005
283276	< 0.005
283277	0.006
283278	0.050
283279	< 0.005
283280	1.712
283281	0.009
283282	0.007
283283	0.007
283284	< 0.005
283285	< 0.005
283286	0.007
283287	0.025
283288	0.016
283289	0.008
283290	0.028
283291	0.016
283292	< 0.005
283293	0.009
283294	< 0.005

Analyte Symbol	Au
Unit Symbol	ppm
Lower Limit	0.005
Method Code	FA-AA
283295	0.007
283296	0.006
283297	0.025
283298	0.013
283299	< 0.005
283300	0.011
283301	< 0.005
283302	0.006
283303	0.017
283304	0.563
283305	< 0.005
283306	< 0.005
283307	< 0.005
283308	0.005
283309	< 0.005
283310	0.007
283311	< 0.005
283312	0.007
283313	0.010
283314	< 0.005
283315	< 0.005
283316	< 0.005
283317	0.015
283318	0.011
283319	< 0.005
283320	< 0.005
283321	0.009
283322	< 0.005
283323	< 0.005
283324	< 0.005
283325	0.005
283326	0.024
283327	0.006
283328	2.144
283329	< 0.005
283330	< 0.005

Analyte Symbol	Au
Unit Symbol	ppm
Lower Limit	0.005
Method Code	FA-AA
OREAS203 Meas	0.869
OREAS203 Cert	0.871
OREAS203 Meas	0.910
OREAS203 Cert	0.871
OREAS203 Meas	0.895
OREAS203 Cert	0.871
OREAS203 Meas	0.918
OREAS203 Cert	0.871
OREAS203 Meas	0.917
OREAS203 Cert	0.871
OREAS203 Meas	0.917
OREAS203 Cert	0.871
OREAS203 Meas	0.886
OREAS203 Cert	0.871
OREAS203 Meas	0.924
OREAS203 Cert	0.871
OREAS 251 Meas	0.497
OREAS 251 Cert	0.50
OREAS 251 Meas	0.511
OREAS 251 Cert	0.50
OREAS 251 Meas	0.533
OREAS 251 Cert	0.50
OREAS 251 Meas	0.500
OREAS 251 Cert	0.50
OREAS 251 Meas	0.487
OREAS 251 Cert	0.50
OREAS 251 Meas	0.533
OREAS 251 Cert	0.50
OREAS 251 Meas	0.491
OREAS 251 Cert	0.50
OREAS 251 Meas	0.534
OREAS 251 Cert	0.50
OREAS 251 Meas	0.503
OREAS 251 Cert	0.50
283010 Orig	< 0.005
283010 Dup	< 0.005
283020 Orig	< 0.005
283020 Dup	< 0.005
283030 Orig	0.011
283030 Dup	0.005
283045 Orig	< 0.005
283045 Dup	< 0.005

Analyte Symbol	Au
Unit Symbol	ppm
Lower Limit	0.005
Method Code	FA-AA
283050 Split Orig PREP DUP	0.005
283050 Split PREP DUP	0.005
283055 Orig	< 0.005
283055 Dup	0.006
283065 Orig	0.008
283065 Dup	0.006
283079 Orig	0.005
283079 Dup	0.005
283089 Orig	< 0.005
283089 Dup	< 0.005
283099 Orig	< 0.005
283099 Dup	< 0.005
283100 Split Orig PREP DUP	< 0.005
283100 Split PREP DUP	< 0.005
283113 Orig	< 0.005
283113 Dup	< 0.005
283123 Orig	< 0.005
283123 Dup	< 0.005
283133 Orig	< 0.005
283133 Dup	< 0.005
283148 Orig	< 0.005
283148 Dup	< 0.005
283150 Split Orig PREP DUP	0.009
283150 Split PREP DUP	0.008
283158 Orig	0.011
283158 Dup	0.009
283168 Orig	< 0.005
283168 Dup	< 0.005
283182 Orig	0.007
283182 Dup	0.007
283192 Orig	< 0.005
283192 Dup	< 0.005
283200 Split Orig PREP DUP	< 0.005
283200 Split PREP DUP	< 0.005
283202 Orig	< 0.005
283202 Dup	< 0.005

Analyte Symbol	Au
Unit Symbol	ppm
Lower Limit	0.005
Method Code	FA-AA
283216 Orig	< 0.005
283216 Dup	< 0.005
283226 Orig	0.019
283226 Dup	0.017
283236 Orig	0.005
283236 Dup	0.005
283250 Split Orig PREP DUP	< 0.005
283250 Split PREP DUP	< 0.005
283251 Orig	< 0.005
283251 Dup	< 0.005
283261 Orig	< 0.005
283261 Dup	< 0.005
283271 Orig	< 0.005
283271 Dup	< 0.005
283285 Orig	< 0.005
283285 Dup	< 0.005
283295 Orig	0.007
283295 Dup	0.007
283300 Split Orig PREP DUP	0.011
283300 Split PREP DUP	0.016
283305 Orig	< 0.005
283305 Dup	< 0.005
283319 Orig	0.005
283319 Dup	< 0.005
283329 Orig	< 0.005
283329 Dup	< 0.005
Method Blank	< 0.005
Method Blank	< 0.005
Method Blank	< 0.005
Method Blank	< 0.005
Method Blank	< 0.005
Method Blank	< 0.005
Method Blank	< 0.005
Method Blank	< 0.005
Method Blank	< 0.005
Method Blank	< 0.005
Method Blank	< 0.005
Method Blank	< 0.005
Method Blank	< 0.005
Method Blank	< 0.005

Analyte Symbol	Au
Unit Symbol	ppm
Lower Limit	0.005
Method Code	FA-AA
Method Blank	< 0.005
Method Blank	< 0.005
Method Blank	< 0.005
Method Blank	< 0.005
Method Blank	< 0.005
Method Blank	< 0.005
Method Blank	< 0.005

Quality Analysis ... *Innovative Technologies*

Date Submitted: 28-Nov-16
Invoice No.: A16-12700-TD
Invoice Date: 12-Jan-17
Your Reference: TME East - 240

Trelawney Mining and Exploration
3 Mesomikenda Lake Road
PO Box 100
Gogama ON P0M 1W0
Canada

ATTN: Alan Smith

CERTIFICATE OF ANALYSIS

330 Rock samples were submitted for analysis.

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

REPORT **A16-12700-TD**

Notes:

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

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
1752 Riverside Drive, Timmins, Ontario, Canada, P4R 1N1
TELEPHONE +705 264-0123 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Timmins@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Date Submitted: 28-Nov-16
Invoice No.: A16-12700-TD
Invoice Date: 12-Jan-17
Your Reference: TME East - 240

Trelawney Mining and Exploration
3 Mesomikenda Lake Road
PO Box 100
Gogama ON P0M 1W0
Canada

ATTN: Alan Smith

CERTIFICATE OF ANALYSIS

330 Rock samples were submitted for analysis.

The following analytical package(s) were requested: Code UT-6 Total Digestion ICP & ICP/MS

REPORT **A16-12700-TD**

 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:

Emmanuel Eseme , Ph.D.
Quality Control

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

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
283069	11.8	1.44	2.57	6.15	0.99	5.57	< 0.1	130	17.9	869	5.48	2.1	110	23.0	1.8	1.2	0.6	0.20	0.20	19.0	1.30	0.19	< 0.1
283070	12.8	1.60	2.81	5.10	0.88	6.25	< 0.1	129	31.9	984	5.64	2.2	70	29.8	1.5	1.4	0.6	0.07	1.59	28.6	1.70	0.30	< 0.1
283071	5.4	> 3.00	1.03	6.87	1.13	2.47	< 0.1	85	24.1	428	3.26	3.6	50	18.8	1.7	2.3	0.6	< 0.05	0.19	14.1	1.00	0.35	< 0.1
283072	21.4	2.71	1.62	8.67	1.37	4.26	< 0.1	121	17.9	928	5.65	3.6	40	12.4	3.7	2.9	1.4	< 0.05	1.34	19.4	1.60	0.09	< 0.1
283073	12.9	1.54	3.03	5.72	0.12	5.75	< 0.1	165	138	1030	7.41	1.1	30	68.5	2.4	1.1	0.9	< 0.05	0.13	29.7	0.90	0.20	< 0.1
283074	15.1	0.71	3.73	4.96	0.64	5.28	< 0.1	224	180	1180	8.13	1.3	30	86.6	2.2	0.9	0.8	< 0.05	1.50	39.1	0.70	0.24	< 0.1
283075	13.4	0.53	3.56	3.65	1.24	5.37	< 0.1	268	227	980	8.23	1.8	< 10	117	2.6	2.0	0.9	< 0.05	4.36	41.4	0.50	0.43	< 0.1
283076	15.2	0.81	3.40	5.11	0.49	5.95	< 0.1	312	211	1030	9.57	1.3	40	86.9	2.3	0.8	0.8	0.55	1.04	69.2	0.70	1.57	0.7
283077	9.5	1.02	1.74	4.68	0.58	4.86	< 0.1	165	53.9	683	8.17	1.6	40	41.3	2.5	1.3	0.9	0.28	0.13	36.2	1.00	1.88	0.3
283078	8.7	2.61	1.49	7.37	0.77	4.76	< 0.1	90	26.1	520	6.17	1.5	60	27.1	2.5	2.4	0.9	0.10	0.14	21.0	1.20	0.55	< 0.1
283079	9.9	2.26	1.92	6.51	0.77	4.11	< 0.1	132	40.8	487	5.49	1.6	30	29.9	2.0	2.4	0.7	0.07	0.18	25.3	1.00	0.77	< 0.1
283080	17.1	1.46	3.56	6.04	0.34	6.67	< 0.1	222	79.2	910	9.08	0.5	10	75.2	2.5	1.9	0.9	0.18	0.75	108	1.10	1.73	0.1
283081	19.3	0.86	3.74	5.78	1.34	5.17	< 0.1	280	99.5	857	9.90	0.7	10	72.1	2.5	1.8	0.9	0.19	3.49	68.6	0.90	1.49	0.2
283082	17.5	0.38	3.58	6.21	0.77	6.49	< 0.1	274	105	1080	10.7	0.3	< 10	70.6	2.2	1.5	0.8	0.15	1.87	49.4	0.90	1.25	< 0.1
283083	14.9	0.63	3.22	5.79	0.35	5.54	< 0.1	181	96.1	1060	9.25	0.5	10	53.3	2.5	1.2	0.9	0.10	0.89	38.2	0.90	0.80	< 0.1
283084	23.1	1.92	1.70	6.41	2.88	2.73	< 0.1	162	85.6	569	7.24	2.0	10	33.7	1.6	1.7	0.6	2.56	4.83	20.1	0.80	5.88	8.9
283085	14.6	1.05	3.25	6.41	0.40	6.09	< 0.1	177	89.3	1160	9.39	0.4	80	59.2	2.6	1.5	0.9	0.32	1.03	42.4	0.90	0.57	< 0.1
283086	14.4	1.07	3.43	6.95	0.73	5.57	< 0.1	236	108	1150	9.11	0.5	30	66.2	2.2	1.3	0.8	0.17	1.96	40.7	0.80	0.56	< 0.1
283087	15.4	0.39	3.73	6.38	0.83	6.16	< 0.1	291	103	1290	9.57	0.5	50	69.3	2.2	1.0	0.8	0.13	2.22	48.7	0.80	0.57	< 0.1
283089	13.3	1.30	3.19	6.47	0.15	5.18	< 0.1	214	62.6	1010	7.14	1.8	< 10	44.8	2.2	1.2	0.8	0.05	0.12	37.3	0.90	0.46	< 0.1
283090	8.0	2.19	1.74	6.56	1.38	0.33	< 0.1	27	7.0	205	1.79	4.7	20	6.3	2.4	1.5	0.8	< 0.05	0.31	4.7	0.80	0.04	< 0.1
283091	8.0	1.34	1.68	6.10	1.40	0.23	< 0.1	24	7.5	180	1.58	4.6	< 10	5.1	2.3	1.2	0.8	< 0.05	0.42	4.6	0.70	0.03	< 0.1
283092	8.4	1.09	1.83	5.39	1.79	0.23	< 0.1	31	12.5	197	2.13	4.0	< 10	7.5	2.1	1.2	0.8	< 0.05	0.38	6.1	0.60	0.12	< 0.1
283093	8.2	1.13	1.95	5.45	1.47	0.37	< 0.1	33	14.4	249	3.11	3.4	60	11.1	2.3	1.3	0.8	0.22	0.33	8.2	0.70	0.35	< 0.1
283094	8.5	1.17	1.95	5.82	1.81	0.63	< 0.1	50	23.6	258	3.23	5.1	60	11.4	2.2	1.7	0.8	< 0.05	0.36	10.7	0.70	0.31	< 0.1
283095	8.2	0.99	1.86	5.76	1.79	0.76	< 0.1	40	20.3	272	3.01	3.5	< 10	12.2	2.3	1.4	0.8	0.05	0.42	12.2	0.60	0.25	< 0.1
283096	21.2	2.78	1.69	9.33	1.95	4.72	0.1	91	21.8	942	5.81	2.9	< 10	13.0	3.8	2.9	1.4	< 0.05	1.38	20.3	1.70	0.06	< 0.1
283097	7.3	0.77	1.64	5.12	1.43	0.44	< 0.1	21	10.4	238	2.54	3.4	< 10	10.4	2.0	1.3	0.7	< 0.05	0.37	8.7	0.50	0.21	< 0.1
283098	16.8	0.90	4.08	6.72	1.29	3.63	< 0.1	128	66.7	772	6.97	3.6	< 10	40.7	2.4	1.2	0.9	< 0.05	0.68	38.5	1.60	0.62	< 0.1
283099	17.1	1.65	4.19	7.71	1.30	0.75	< 0.1	90	67.7	546	4.70	2.5	< 10	44.6	2.1	1.3	0.8	< 0.05	0.48	20.8	0.90	0.08	< 0.1
283100	18.3	1.74	4.61	7.36	0.76	1.14	< 0.1	69	69.3	625	5.01	1.8	< 10	48.5	2.2	1.0	0.8	< 0.05	0.31	22.0	0.90	0.06	< 0.1
283101	11.9	> 3.00	2.97	7.94	0.31	2.67	< 0.1	165	71.2	669	4.76	3.4	< 10	50.7	2.5	0.9	0.9	< 0.05	0.18	27.0	1.10	0.23	< 0.1
283102	13.4	2.85	3.28	8.07	0.40	1.93	< 0.1	115	67.5	787	4.47	2.6	20	48.8	2.5	0.9	0.9	< 0.05	0.20	21.0	1.10	0.12	< 0.1
283103	15.7	2.36	3.96	7.81	0.44	1.93	< 0.1	128	65.1	938	5.05	2.5	< 10	51.7	2.4	0.9	0.9	< 0.05	0.19	26.1	1.00	0.12	< 0.1
283104	49.6	2.05	4.17	7.84	0.73	1.49	< 0.1	100	68.2	890	5.49	1.7	< 10	50.5	2.4	1.2	0.9	< 0.05	0.49	25.8	0.90	0.20	< 0.1
283105	17.7	2.07	4.09	7.30	0.71	1.32	< 0.1	87	72.0	740	5.02	2.0	< 10	49.1	2.0	1.3	0.7	< 0.05	0.56	21.2	0.90	0.17	< 0.1
283106	18.8	1.64	4.66	7.53	0.82	0.82	< 0.1	107	75.6	726	5.13	2.2	< 10	47.3	2.2	1.4	0.8	< 0.05	0.40	22.5	0.80	0.08	< 0.1
283107	18.2	1.33	4.55	6.64	0.63	3.64	< 0.1	134	163	862	5.26	2.3	40	70.2	1.9	1.5	0.7	0.13	0.61	27.6	1.20	0.22	< 0.1
283138	10.2	0.09	5.11	7.46	0.25	5.49	< 0.1	241	159	1070	9.20	0.5	< 10	96.7	2.2	0.7	0.8	0.17	0.56	48.0	1.00	0.92	0.3
283139	9.5	0.71	4.22	7.67	0.81	5.03	< 0.1	236	163	934	9.95	0.6	< 10	104	2.5	1.1	0.9	0.24	2.16	47.3	1.20	1.00	1.1
283140	8.0	0.15	4.22	7.61	0.26	7.52	0.1	217	152	1350	9.15	0.4	< 10	97.6	2.4	0.9	0.9	0.13	0.52	43.8	1.10	1.04	< 0.1
283141	5.8	0.77	4.10	7.42	0.90	6.55	0.2	237	164	1230	9.73	0.6	< 10	100	2.6	1.7	0.9	0.13	2.61	51.5	1.20	0.96	< 0.1

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
283142	6.0	2.06	2.80	7.15	1.21	4.05	< 0.1	210	123	718	7.09	1.0	< 10	65.9	1.9	2.3	0.7	0.21	3.30	43.4	0.70	0.79	0.6
283143	5.8	0.31	3.96	7.38	0.35	7.61	< 0.1	235	197	1280	9.26	0.5	< 10	92.5	2.1	0.9	0.8	0.12	0.74	45.2	0.90	0.95	< 0.1
283144	9.2	0.43	4.50	7.38	0.10	5.20	< 0.1	282	182	1070	8.37	1.5	40	78.8	2.6	0.6	1.0	0.31	0.12	41.0	1.30	0.72	0.3
283145	18.1	1.74	5.90	7.87	0.21	1.05	< 0.1	105	74.8	806	5.42	2.7	70	44.5	2.0	2.1	0.7	< 0.05	0.13	21.9	0.50	0.10	< 0.1
283146	5.4	> 3.00	1.15	7.46	1.10	1.46	< 0.1	37	14.1	236	1.49	2.8	10	9.7	1.1	2.5	0.4	< 0.05	0.23	5.6	1.00	0.08	< 0.1
283147	14.0	0.45	4.77	7.37	0.59	4.51	< 0.1	166	124	1070	7.91	0.6	< 10	80.2	2.0	0.6	0.7	0.13	1.32	35.0	0.90	0.66	< 0.1
283148	21.9	2.86	1.78	9.59	1.94	4.85	< 0.1	99	20.1	953	5.82	2.5	< 10	13.3	4.0	3.0	1.5	< 0.05	1.36	20.2	1.80	0.05	< 0.1
283149	9.9	0.74	4.01	7.56	1.25	5.40	0.1	281	157	1100	9.06	0.6	< 10	91.3	2.3	0.9	0.8	0.24	3.62	48.1	0.90	1.01	0.1
283150	9.2	1.16	3.79	7.66	0.83	5.17	0.2	267	146	1160	8.32	0.9	< 10	88.3	2.2	1.0	0.8	0.28	2.18	38.6	0.90	0.88	0.1
283151	5.6	1.24	4.01	7.80	0.34	6.77	< 0.1	275	147	1490	8.94	0.8	< 10	90.9	2.4	0.9	0.9	0.19	0.54	40.2	0.90	0.70	< 0.1
283152	5.8	1.36	4.18	7.73	0.31	7.00	0.2	190	140	1520	8.85	0.6	70	107	2.4	0.7	0.9	0.30	0.35	43.0	0.90	0.58	< 0.1
283153	16.9	1.32	6.68	7.70	0.06	0.89	< 0.1	218	122	923	7.15	3.4	< 10	60.9	2.1	0.9	0.7	< 0.05	0.12	32.0	0.70	0.07	< 0.1
283154	5.7	0.17	4.08	7.12	0.26	6.86	0.1	217	149	1110	9.29	0.5	< 10	67.6	2.5	0.4	0.9	0.16	0.64	40.5	1.10	0.59	< 0.1
283155	4.6	0.41	3.96	7.06	0.24	7.18	0.1	191	156	1230	9.22	0.3	10	74.9	2.5	0.5	0.9	0.12	0.52	43.6	0.90	0.59	< 0.1
283156	2.7	1.88	1.09	5.59	0.25	6.02	0.1	100	30.0	645	2.72	1.3	< 10	16.0	1.3	1.0	0.5	0.08	0.08	8.8	0.90	0.32	< 0.1
283157	2.6	> 3.00	0.69	6.37	0.31	0.99	< 0.1	18	11.3	154	1.12	4.7	< 10	3.2	1.4	2.3	0.5	< 0.05	0.09	3.0	0.70	0.08	< 0.1
283158	1.5	> 3.00	0.29	5.80	0.22	0.74	< 0.1	12	8.2	111	0.94	3.4	< 10	3.0	1.5	3.0	0.5	0.15	0.08	4.2	0.50	0.08	< 0.1
283159	2.8	> 3.00	0.70	6.56	0.31	1.45	< 0.1	37	26.9	196	1.90	3.3	< 10	7.5	1.1	2.0	0.4	0.09	0.12	11.0	0.80	0.22	< 0.1
283160	32.2	2.00	1.57	7.78	3.53	2.64	< 0.1	142	108	618	4.66	2.9	40	44.0	2.3	3.1	0.9	1.01	11.8	16.1	1.20	1.90	1.5
283161	10.3	0.95	4.52	7.10	0.18	3.19	0.4	259	123	956	10.3	0.8	30	94.4	2.2	0.7	0.7	1.01	0.43	53.1	0.70	0.90	0.4
283162	7.2	0.44	4.38	7.12	0.19	5.19	0.2	249	125	1100	9.91	0.6	20	64.6	2.7	0.4	1.0	0.65	0.51	40.3	1.00	0.63	< 0.1
283163	8.6	0.47	4.99	7.19	0.09	4.50	< 0.1	261	155	1040	9.18	0.8	20	66.2	2.3	0.4	0.8	0.37	0.25	47.8	1.30	0.54	< 0.1
283209	12.5	0.47	5.15	7.39	0.11	5.77	< 0.1	155	151	1320	11.9	0.4	< 10	66.2	3.2	0.5	1.1	0.16	0.13	49.3	0.90	0.47	< 0.1
283210	8.9	0.60	3.70	6.49	0.15	7.02	0.1	187	91.4	1120	9.74	0.1	< 10	65.0	2.2	0.7	0.8	0.11	0.12	47.3	0.90	0.71	< 0.1
283211	13.2	0.56	5.15	6.88	0.10	4.80	< 0.1	260	108	1110	10.4	0.4	< 10	66.4	2.3	0.7	0.8	0.18	0.21	51.8	0.90	0.51	< 0.1
283212	19.9	0.70	6.39	7.32	0.06	3.69	< 0.1	254	96.5	1090	8.93	1.1	< 10	64.2	2.5	0.9	0.9	0.22	0.18	43.2	1.10	0.17	< 0.1
283213	23.2	0.74	6.93	7.56	0.13	0.85	< 0.1	167	125	879	8.14	2.7	60	44.4	2.2	0.9	0.7	0.14	0.14	30.1	0.70	0.08	< 0.1
283214	5.6	> 3.00	1.14	6.55	0.72	1.13	< 0.1	38	20.1	266	2.65	3.5	< 10	7.2	1.5	2.6	0.6	0.08	0.20	11.7	1.10	0.13	< 0.1
283215	4.5	> 3.00	0.40	7.35	1.07	1.54	< 0.1	27	22.4	192	1.82	2.7	< 10	5.1	1.0	3.8	0.4	0.07	0.28	7.1	1.00	0.13	< 0.1
283216	3.7	> 3.00	0.39	7.27	0.91	1.31	< 0.1	24	15.2	156	1.81	2.9	< 10	5.0	1.5	3.7	0.5	0.41	0.23	7.6	0.90	0.21	< 0.1
283217	2.4	> 3.00	0.38	6.47	0.41	1.09	< 0.1	21	17.9	248	3.05	2.7	< 10	5.7	1.3	2.9	0.4	0.24	0.11	13.7	0.80	0.41	< 0.1
283218	18.2	0.63	6.85	7.12	0.04	1.03	< 0.1	114	70.6	860	8.01	1.8	< 10	44.0	1.9	0.5	0.7	0.28	0.15	30.5	0.80	0.22	< 0.1
283219	10.9	0.63	4.85	6.91	0.04	4.33	0.2	250	94.4	935	9.82	0.5	30	63.9	2.7	0.6	0.9	0.56	0.11	47.7	1.40	1.31	< 0.1
283220	21.3	2.82	1.66	9.12	1.93	4.41	< 0.1	114	22.8	930	5.85	3.0	< 10	12.6	3.5	3.0	1.3	0.09	1.29	19.2	1.70	0.06	< 0.1
283221	14.5	0.88	5.80	7.45	0.07	3.43	< 0.1	280	110	1040	9.36	1.1	< 10	65.1	2.6	0.8	0.9	0.21	0.19	33.0	1.40	0.40	< 0.1
283222	7.4	0.77	3.99	5.85	0.10	2.45	0.2	242	87.8	786	8.85	0.6	< 10	42.5	2.6	0.7	0.9	0.37	0.36	49.3	0.90	1.08	< 0.1
283223	1.5	> 3.00	0.36	6.09	0.24	1.12	< 0.1	25	15.3	202	1.76	2.6	< 10	5.3	1.0	1.4	0.3	0.12	0.06	4.4	0.40	0.25	< 0.1
283224	4.8	0.21	3.16	7.09	0.20	5.75	0.9	256	88.7	875	10.0	0.8	< 10	40.6	3.0	0.6	1.0	1.48	0.60	42.8	1.00	2.32	< 0.1
283225	4.8	0.32	2.78	6.13	0.36	6.54	0.3	256	93.8	1020	8.10	0.9	< 10	38.3	2.2	0.5	0.8	0.71	1.06	30.6	0.90	1.68	< 0.1
283226	7.2	0.10	3.85	6.99	0.48	5.43	0.6	156	95.9	1120	10.1	0.2	40	56.2	2.6	0.5	0.9	1.40	1.54	26.2	1.20	1.16	< 0.1
283227	10.7	0.09	4.84	7.54	0.44	3.78	1.8	258	156	1200	12.0	0.3	10	55.3	1.8	0.4	0.7	2.80	1.50	29.5	1.10	1.27	0.2
283228	11.8	0.49	4.23	6.92	0.99	5.86	0.2	186	87.6	1260	9.37	0.2	10	59.2	2.4	0.6	0.8	0.92	2.92	30.6	0.90	0.78	< 0.1

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
283229	13.6	0.50	4.18	6.68	1.39	6.46	0.2	278	104	1240	9.23	0.3	10	59.1	2.2	0.6	0.8	0.49	4.05	45.7	0.90	1.02	< 0.1
283230	3.7	2.11	1.29	4.61	0.22	1.02	1.0	79	39.1	336	9.17	1.9	< 10	129	1.1	1.8	0.4	1.08	0.55	75.1	0.50	1.74	1.8
283231	9.5	0.79	3.98	7.33	0.97	7.04	0.2	338	118	1340	10.1	0.5	< 10	70.2	2.2	0.6	0.8	0.48	2.79	45.3	0.80	0.92	< 0.1
283232	9.1	1.63	3.50	6.06	0.70	5.21	0.2	169	172	4060	11.7	2.8	< 10	128	2.2	1.0	0.9	0.30	4.15	37.3	1.60	0.16	0.7
283233	5.8	1.14	3.39	7.24	0.27	6.62	0.1	209	85.3	1320	9.02	0.6	< 10	56.5	2.2	0.6	0.8	0.18	0.59	39.3	0.80	0.46	< 0.1
283234	6.0	1.34	3.40	6.75	0.26	5.87	0.1	177	120	1310	8.45	0.6	< 10	61.1	2.1	0.6	0.7	0.13	0.39	45.7	0.80	0.39	< 0.1
283235	1.4	> 3.00	0.30	6.35	0.25	2.01	< 0.1	38	26.8	276	1.87	3.8	50	7.5	1.2	1.3	0.4	0.19	0.13	3.8	0.60	0.46	< 0.1
283236	4.2	0.92	3.62	6.61	0.12	6.99	0.2	289	230	1430	9.60	1.0	20	73.0	2.4	0.3	0.9	0.15	0.14	44.8	0.80	1.05	< 0.1
283237	5.8	0.69	3.21	6.59	0.33	6.23	0.2	176	146	1260	9.58	0.6	30	55.7	2.6	0.5	0.9	0.12	1.10	41.6	1.00	0.60	< 0.1
283238	2.8	> 3.00	0.64	6.49	0.18	1.46	< 0.1	45	17.8	318	2.55	3.2	30	6.5	0.8	1.1	0.3	< 0.05	0.06	3.9	0.70	0.22	< 0.1
283239	11.3	1.73	3.81	7.65	0.27	4.30	0.1	268	71.6	1200	8.92	1.5	< 10	57.2	2.2	0.6	0.8	0.06	0.78	35.5	1.00	0.51	< 0.1
283240	2.5	> 3.00	0.71	6.17	0.14	3.02	< 0.1	54	24.5	425	2.24	2.3	< 10	8.9	1.3	0.8	0.5	0.05	0.16	4.8	0.50	0.15	< 0.1
283241	7.0	1.17	3.41	6.99	0.50	6.93	0.2	307	86.0	1370	9.45	0.7	< 10	54.1	2.5	0.5	0.9	0.11	1.55	45.1	0.90	0.58	< 0.1
283242	8.1	0.88	3.37	7.02	0.62	6.74	0.1	351	89.6	1310	9.53	0.6	< 10	53.4	2.5	0.6	0.9	0.13	1.92	41.9	0.90	0.83	< 0.1
283243	11.5	1.07	3.46	6.99	1.11	7.12	< 0.1	336	98.9	1300	9.85	0.4	< 10	62.2	2.2	0.6	0.8	0.18	3.33	46.3	0.90	0.83	< 0.1
283244	22.7	2.87	1.85	9.84	2.07	4.75	0.1	100	30.9	1000	6.37	2.5	20	14.9	3.9	2.8	1.5	0.14	1.36	20.9	1.80	0.19	< 0.1
283245	15.6	1.79	4.30	6.99	0.48	3.64	< 0.1	226	70.2	1030	8.72	0.8	10	40.8	3.7	1.1	1.3	0.15	1.78	32.9	1.00	0.72	< 0.1
283246	11.0	2.16	3.08	6.48	0.37	4.09	< 0.1	281	73.8	882	7.53	1.2	< 10	32.6	2.5	1.5	0.9	0.13	1.06	33.0	0.90	1.08	< 0.1
283247	13.7	1.36	4.49	6.52	0.35	4.49	0.1	311	139	1220	8.98	1.0	< 10	43.5	2.6	0.8	0.9	0.12	1.14	31.3	0.90	0.41	< 0.1
283248	10.4	1.39	4.24	6.78	0.06	4.33	< 0.1	204	90.4	1190	9.76	0.9	10	46.2	2.6	0.6	0.9	0.09	0.12	40.6	0.70	0.32	< 0.1
283249	3.7	> 3.00	0.79	7.11	0.31	1.06	< 0.1	27	13.9	292	2.45	4.4	< 10	5.9	2.5	1.1	0.9	< 0.05	0.07	5.5	1.10	0.17	< 0.1
283250	4.0	> 3.00	0.52	6.94	0.77	1.17	< 0.1	26	15.1	283	2.43	4.2	< 10	5.9	2.4	1.2	0.9	< 0.05	0.20	4.6	1.00	0.22	< 0.1
283251	3.7	> 3.00	0.94	6.92	0.25	1.65	< 0.1	57	35.1	394	3.53	4.7	< 10	9.3	2.8	1.2	1.0	< 0.05	0.08	10.2	1.30	0.39	< 0.1
283252	11.4	1.34	4.22	7.04	0.04	5.34	0.1	327	106	1330	10.6	0.6	20	59.6	2.2	0.6	0.8	0.44	0.14	46.4	0.80	1.19	< 0.1
283253	9.6	1.27	3.68	6.85	0.02	7.11	0.2	268	81.7	1330	9.04	0.5	< 10	68.3	2.0	0.6	0.7	0.26	0.11	46.0	0.80	1.10	< 0.1
283254	9.8	1.73	3.75	6.76	0.02	6.40	< 0.1	245	81.0	1250	8.98	0.6	< 10	49.2	2.0	0.6	0.7	0.14	0.11	48.1	1.00	1.58	< 0.1
283255	9.3	1.55	3.58	6.56	0.02	6.92	0.1	278	89.0	1200	8.77	0.6	< 10	55.8	2.2	0.6	0.8	0.34	0.10	44.6	0.90	1.27	< 0.1
283256	32.6	2.04	1.53	7.38	3.24	2.65	0.2	123	88.0	548	4.43	2.7	< 10	39.1	2.3	3.3	0.9	0.61	11.3	15.5	1.20	1.71	1.0
283257	9.5	0.66	3.82	6.41	0.02	7.94	0.1	288	81.6	1480	9.26	0.4	20	53.0	1.9	0.4	0.7	0.39	0.11	43.4	0.80	0.84	< 0.1
283258	9.6	0.76	3.98	7.02	0.02	7.64	0.1	263	105	1590	10.0	0.4	20	61.2	2.5	0.4	0.9	0.24	0.07	46.7	0.90	0.55	< 0.1
283259	6.6	1.04	2.64	6.33	0.01	8.93	< 0.1	220	63.1	1370	6.90	0.9	10	39.9	1.9	0.7	0.7	0.16	0.05	31.8	0.90	0.61	< 0.1
283260	15.8	0.81	5.69	7.12	0.01	2.62	< 0.1	278	95.4	1440	10.2	1.4	< 10	56.9	2.7	0.4	1.0	0.12	0.07	50.5	0.90	0.68	< 0.1
283261	12.8	1.07	2.51	6.76	2.02	0.26	< 0.1	24	10.1	414	2.38	5.0	< 10	4.6	2.9	1.2	1.0	< 0.05	0.37	5.9	0.70	0.03	< 0.1
283262	11.9	0.24	2.28	7.65	2.08	0.14	1.4	25	9.1	451	2.53	6.0	< 10	4.5	2.9	1.1	1.0	< 0.05	0.48	5.8	0.60	0.04	< 0.1
283263	6.8	0.76	1.46	6.22	1.68	0.18	9.9	22	6.6	322	2.19	4.4	< 10	3.7	2.5	1.1	0.9	0.05	0.41	8.0	0.60	0.35	1.5
283264	8.7	0.19	2.08	6.41	1.87	0.12	0.7	23	8.5	443	3.30	5.0	< 10	3.5	2.5	0.8	0.9	< 0.05	0.46	9.0	0.50	0.38	1.2
283265	9.6	0.22	2.06	6.89	2.16	0.13	< 0.1	26	7.0	404	2.53	5.3	< 10	3.0	2.7	0.9	1.0	0.08	0.51	4.1	0.60	0.08	< 0.1
283266	10.9	0.17	1.94	6.74	2.17	0.10	0.9	18	6.0	354	2.34	4.1	50	4.5	2.7	0.9	1.0	< 0.05	0.56	5.8	0.60	0.22	< 0.1
283267	13.6	0.15	2.61	6.82	2.53	1.00	0.2	30	15.1	554	2.71	5.4	< 10	5.2	3.0	1.0	1.1	< 0.05	0.50	6.6	0.80	0.06	< 0.1
283268	20.8	> 3.00	1.78	9.07	2.14	4.77	< 0.1	160	23.4	983	6.10	3.3	< 10	15.0	3.6	2.7	1.4	< 0.05	1.28	21.1	1.60	0.04	< 0.1
283269	7.0	2.05	1.67	7.88	2.13	2.13	< 0.1	60	21.1	636	3.21	4.2	< 10	13.2	1.7	1.1	0.6	< 0.05	0.43	10.5	1.10	0.07	< 0.1
283270	5.1	2.37	1.36	7.74	2.02	2.26	< 0.1	56	17.3	595	3.08	3.3	< 10	14.3	1.2	1.2	0.4	< 0.05	0.44	10.5	0.80	0.10	< 0.1

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
283271	12.7	0.24	2.74	7.08	2.20	0.22	2.5	31	12.3	602	3.34	6.1	< 10	4.5	4.1	1.1	1.6	< 0.05	0.48	7.4	1.00	0.03	< 0.1
283272	9.9	0.11	2.52	6.32	1.71	0.80	0.4	47	14.9	802	3.60	4.5	< 10	14.2	2.3	0.9	0.8	< 0.05	0.42	10.9	0.70	1.18	< 0.1
283273	12.8	0.93	4.22	7.63	1.16	3.75	0.6	213	64.9	1980	7.96	1.6	70	104	2.0	0.8	0.7	0.80	0.26	34.9	0.60	0.43	2.6
283274	7.3	2.40	2.18	7.51	1.35	2.15	0.3	56	13.8	1030	3.73	5.4	20	18.6	2.7	1.4	1.0	0.15	0.27	14.7	1.10	0.07	< 0.1
283275	10.6	1.04	3.83	7.42	1.11	4.89	0.1	189	45.5	2220	8.27	1.4	< 10	107	2.1	0.8	0.8	0.16	0.31	47.6	0.60	0.30	0.3
283276	9.4	1.44	3.02	7.38	1.40	2.01	0.1	115	28.7	1280	5.67	3.7	< 10	49.5	2.3	1.0	0.8	< 0.05	0.34	23.9	0.90	0.12	< 0.1
283277	7.1	0.58	2.26	5.31	1.28	3.94	0.7	102	29.5	1420	4.51	2.2	< 10	50.1	2.4	0.7	0.8	0.11	0.31	18.8	0.60	0.06	< 0.1
283278	4.0	0.02	1.40	1.54	0.03	2.41	< 0.1	27	18.4	807	4.24	0.1	< 10	71.6	0.4	< 0.1	0.1	0.68	0.05	94.8	0.10	0.17	1.4
283279	1.8	0.04	0.51	0.79	0.18	2.81	< 0.1	21	20.0	712	1.46	0.1	< 10	6.9	0.5	0.1	0.2	0.26	0.08	2.7	0.20	0.04	< 0.1
283280	22.2	1.94	1.74	6.81	3.43	2.67	< 0.1	160	82.2	567	7.46	2.1	< 10	26.8	1.6	1.5	0.6	2.78	5.15	15.4	0.90	5.44	8.6
283281	11.3	0.25	3.71	8.12	2.37	4.55	0.9	217	57.3	1890	12.3	1.7	< 10	305	2.6	1.0	1.0	2.78	0.50	78.3	0.80	0.53	6.3
283282	15.7	0.37	5.02	9.99	2.59	3.87	0.4	272	87.9	2020	10.3	1.8	40	145	2.5	1.1	0.9	0.41	0.48	61.3	0.50	0.21	1.6
283283	15.4	0.57	4.88	8.96	2.09	3.35	0.3	218	79.1	1790	9.27	1.7	30	113	2.5	1.0	0.9	0.25	0.46	52.3	0.50	0.21	0.1
283284	11.9	0.39	3.24	7.03	1.88	0.81	0.3	74	39.2	892	5.23	4.0	< 10	26.3	2.2	1.1	0.8	< 0.05	0.37	15.0	0.80	0.06	< 0.1
283285	8.8	0.26	1.91	6.03	1.98	0.10	< 0.1	23	9.3	454	2.99	1.5	< 10	8.4	2.0	1.0	0.7	< 0.05	0.37	6.3	0.60	0.04	< 0.1
283286	10.1	0.14	2.03	6.91	2.09	0.09	7.8	21	8.5	380	2.62	5.3	40	5.7	2.4	1.0	0.9	0.37	0.52	7.4	0.60	0.14	0.4
283287	9.4	0.14	2.04	7.09	2.21	0.06	7.8	22	8.2	412	2.73	5.7	10	3.6	1.9	1.1	0.7	1.30	0.47	9.0	0.60	0.25	1.2
283288	9.5	0.12	2.20	7.17	2.17	0.05	3.0	24	9.4	425	2.79	5.8	20	4.3	2.1	1.1	0.8	0.78	0.52	8.5	0.60	0.16	0.5
283289	8.7	0.12	1.99	6.80	2.18	0.05	4.9	23	7.9	407	2.58	5.7	< 10	4.7	1.8	1.0	0.7	0.50	0.52	6.9	0.60	0.12	0.6
283290	9.5	0.13	2.26	7.40	2.28	0.10	5.1	26	9.2	452	2.99	6.1	< 10	5.3	2.0	1.1	0.7	1.22	0.52	10.8	0.70	0.28	1.3
283291	8.8	0.11	1.86	6.49	2.38	0.09	0.9	20	8.6	367	2.59	4.8	< 10	4.6	1.7	0.9	0.6	0.90	0.49	7.7	0.50	0.37	0.5
283292	21.8	2.93	1.79	9.46	2.10	4.74	< 0.1	126	26.0	979	6.10	3.7	< 10	14.9	3.7	2.8	1.4	0.19	1.44	22.4	1.70	0.06	< 0.1
283293	9.5	0.10	1.94	6.10	1.79	0.06	4.5	20	6.7	374	2.34	4.6	< 10	4.3	1.5	0.9	0.6	0.23	0.46	7.0	0.50	0.22	0.6
283294	9.1	0.12	1.72	6.64	2.33	0.08	< 0.1	21	9.9	331	2.33	5.1	< 10	3.5	1.4	0.9	0.5	0.22	0.54	6.2	0.60	0.19	< 0.1
283295	9.1	0.12	1.85	6.25	1.79	0.05	< 0.1	19	7.1	394	2.63	5.1	50	4.4	1.5	0.9	0.5	0.06	0.48	8.6	0.50	0.17	< 0.1
283296	10.4	0.12	2.18	6.84	2.01	0.08	0.2	23	9.5	440	2.65	5.8	20	5.1	1.6	1.1	0.6	< 0.05	0.72	4.8	0.70	0.57	< 0.1
283297	9.9	0.16	2.17	7.69	2.72	0.05	3.0	27	9.2	434	3.03	6.2	< 10	4.7	1.6	1.2	0.6	1.60	0.68	10.6	0.70	2.91	5.8
283298	10.1	0.11	2.34	7.32	2.82	0.05	0.7	25	9.9	498	2.83	5.9	< 10	4.1	1.5	1.1	0.6	0.55	0.66	6.3	0.50	0.26	0.3
283299	8.9	0.11	2.21	6.69	2.67	0.08	0.2	23	13.1	532	2.74	5.3	< 10	4.0	1.3	0.9	0.5	0.11	0.53	4.6	0.60	0.04	< 0.1
283300	9.5	0.75	2.05	7.01	2.46	0.21	0.6	15	8.1	487	2.51	4.3	< 10	2.7	1.4	1.2	0.5	0.29	0.50	5.0	0.40	0.05	< 0.1
283301	8.2	0.10	1.93	6.58	1.94	0.06	1.1	21	10.6	463	2.44	4.9	< 10	3.6	1.4	1.1	0.5	< 0.05	0.48	4.8	0.50	0.05	< 0.1
283302	15.6	0.08	3.47	6.44	1.63	0.13	1.8	26	7.4	783	3.41	6.0	70	4.4	2.2	1.0	0.8	0.25	0.38	7.5	0.60	0.28	< 0.1
283303	11.7	0.10	2.74	6.59	2.09	0.08	14.2	20	6.6	609	3.03	5.6	30	3.2	1.7	1.1	0.6	0.30	0.48	9.2	0.60	0.17	1.8
283304	14.4	0.57	1.09	3.45	3.09	3.60	< 0.1	139	39.5	3850	23.2	2.8	< 10	65.0	1.8	0.7	0.6	1.04	0.57	> 500	1.70	9.02	0.5
283305	12.2	0.12	2.69	6.94	2.16	0.16	< 0.1	23	7.4	649	2.91	5.6	< 10	4.3	1.6	1.1	0.6	0.17	0.48	6.5	0.70	0.18	< 0.1
283306	12.4	0.10	2.73	6.78	2.07	0.13	< 0.1	24	7.6	629	2.94	5.9	< 10	5.7	1.5	1.0	0.6	< 0.05	0.45	7.1	0.70	0.12	< 0.1
283307	12.8	0.11	2.55	7.01	2.37	0.12	< 0.1	21	11.9	550	2.65	5.9	< 10	4.9	1.5	1.1	0.6	< 0.05	0.43	6.9	0.60	0.19	< 0.1
283308	13.9	0.10	2.77	6.69	2.84	0.11	< 0.1	22	74.5	595	2.91	5.8	< 10	6.9	1.5	1.0	0.6	< 0.05	0.47	8.7	0.60	0.39	< 0.1
283309	13.9	0.10	2.85	6.63	2.76	0.13	0.1	27	22.9	618	2.82	5.3	< 10	26.3	1.4	1.1	0.5	< 0.05	0.45	10.3	0.60	0.24	< 0.1
283310	12.4	0.09	2.65	6.19	2.48	0.07	0.2	23	8.0	560	3.98	4.5	< 10	12.7	1.6	1.0	0.6	0.11	0.66	28.6	0.80	0.93	1.9
283311	11.5	0.09	2.74	6.51	2.20	0.05	0.3	22	15.9	560	2.80	5.2	50	11.5	1.5	1.0	0.6	0.39	0.54	6.2	0.80	0.54	0.6
283312	11.3	0.07	3.14	5.63	1.65	0.03	2.2	16	8.8	616	3.57	4.3	20	12.6	1.3	0.7	0.5	0.48	0.28	10.2	0.60	0.70	5.7

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
283313	9.5	0.07	2.77	5.70	1.69	0.03	24.4	26	13.0	587	3.98	4.4	70	14.0	1.4	0.8	0.6	0.91	0.30	20.5	0.70	0.38	12.1
283314	9.2	0.08	2.47	5.89	1.82	0.03	1.2	15	9.1	518	2.74	4.7	< 10	10.2	1.4	0.9	0.6	0.19	0.36	7.2	0.60	0.04	0.2
283315	10.4	0.09	2.67	6.37	2.05	0.05	< 0.1	30	14.2	550	3.13	4.8	< 10	11.7	1.3	1.0	0.5	< 0.05	0.37	11.2	0.70	0.08	1.2
283316	20.4	2.84	1.80	9.53	2.03	4.77	< 0.1	81	21.3	985	6.44	2.6	< 10	22.0	3.8	2.9	1.5	< 0.05	1.32	22.8	1.80	0.06	< 0.1
283317	12.1	0.09	3.25	6.85	2.05	0.04	0.2	27	22.4	642	3.46	5.5	< 10	7.9	1.3	1.0	0.5	0.44	0.40	10.5	0.70	0.17	1.4
283318	9.7	0.10	2.41	6.52	1.93	0.04	0.4	22	12.3	511	2.90	5.4	< 10	4.5	1.3	0.9	0.5	0.72	0.44	12.8	0.70	0.30	3.6
283319	9.8	0.10	2.43	6.59	2.34	0.05	< 0.1	22	7.9	522	2.82	5.6	< 10	3.9	1.5	1.0	0.6	0.25	0.37	9.0	0.70	0.15	1.0
283320	10.5	0.11	2.43	6.76	2.02	0.06	0.1	22	5.8	587	2.46	5.9	10	4.4	1.5	1.1	0.6	0.12	0.43	6.7	0.60	0.21	< 0.1
283321	8.5	0.10	2.18	6.18	1.89	0.05	0.2	20	6.1	505	2.22	5.4	< 10	4.0	1.3	0.9	0.5	0.32	0.41	5.8	0.60	0.50	0.9
283322	9.2	0.11	2.16	6.63	2.17	0.04	0.2	24	7.9	466	2.06	5.5	10	3.6	1.4	1.0	0.5	< 0.05	0.37	4.5	0.50	0.17	< 0.1
283323	10.5	0.10	2.23	6.30	2.22	0.05	< 0.1	24	6.9	460	2.01	5.4	< 10	3.2	1.3	1.0	0.5	< 0.05	0.40	4.8	0.50	0.32	< 0.1
283324	11.8	0.09	2.66	6.50	2.11	0.05	< 0.1	20	11.4	553	2.31	5.7	< 10	3.3	1.4	1.0	0.5	< 0.05	0.34	4.8	0.50	0.10	< 0.1
283325	16.5	0.07	4.29	6.47	1.81	0.04	0.2	22	17.0	809	3.10	5.6	< 10	3.8	1.4	0.8	0.5	0.15	0.31	7.6	0.60	0.43	< 0.1
283326	14.6	0.07	3.93	6.24	1.84	0.05	0.5	19	12.4	756	3.29	5.2	30	4.1	1.3	0.9	0.5	0.67	0.34	8.5	0.60	1.31	2.5
283327	15.5	0.07	3.79	6.14	1.78	0.05	< 0.1	19	11.6	732	3.20	4.9	40	4.0	1.4	0.7	0.5	0.28	0.29	6.8	0.60	0.23	< 0.1
283328	8.3	1.53	3.20	5.69	0.68	4.81	0.2	101	160	3800	10.6	2.0	< 10	119	2.0	1.0	0.8	0.25	3.82	35.8	1.40	0.12	0.5
283329	16.0	0.07	3.44	5.99	1.81	0.04	< 0.1	21	11.7	680	2.97	5.1	< 10	4.3	1.4	0.8	0.5	< 0.05	0.32	6.3	0.60	0.08	< 0.1
283330	10.6	0.08	2.43	6.47	1.90	0.04	< 0.1	21	13.5	521	2.60	5.4	< 10	3.4	1.3	0.9	0.5	< 0.05	0.43	6.2	0.40	0.34	< 0.1

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
283069	51.1	14.7	8.1	22.7	19.4	158	76	4.9	1.87	< 0.1	5	0.2	0.5	298	30.3	60.8	7.6	27.7	4.4	4.1	0.6	3.0	20.7
283070	57.4	11.4	1.8	41.4	16.6	344	88	4.7	1.26	< 0.1	4	0.2	0.3	188	48.9	95.9	12.6	46.0	5.7	4.7	0.6	2.9	83.7
283071	19.7	13.7	3.5	23.6	18.6	257	132	3.3	0.77	< 0.1	13	< 0.1	0.1	453	31.1	61.9	7.4	25.9	3.9	3.9	0.5	3.1	34.1
283072	104	18.9	0.6	76.1	38.3	557	143	8.5	0.85	< 0.1	2	0.1	0.2	634	32.3	68.9	9.4	37.7	7.4	7.9	1.2	6.7	32.7
283073	66.0	15.1	0.5	3.8	24.4	226	30	0.3	0.33	< 0.1	4	< 0.1	0.1	39	10.2	23.1	3.1	12.5	3.0	3.8	0.6	3.9	99.5
283074	87.7	13.2	0.7	32.4	21.7	149	35	1.4	0.77	0.1	9	< 0.1	< 0.1	90	11.4	25.2	3.2	12.5	2.9	3.5	0.6	3.6	44.7
283075	56.6	10.4	1.8	71.9	25.8	112	45	3.3	2.24	< 0.1	10	0.1	< 0.1	102	12.7	28.9	3.9	15.2	3.5	4.3	0.7	4.3	112
283076	59.6	15.1	5.3	22.5	22.4	114	37	4.6	3.11	0.2	28	0.2	1.0	63	10.5	22.5	2.9	11.2	2.5	3.1	0.5	3.4	583
283077	29.8	17.6	5.4	9.2	26.1	172	51	5.8	34.9	0.2	35	0.2	0.5	153	15.7	34.3	4.4	18.5	3.9	4.7	0.7	4.4	156
283078	23.1	18.3	2.0	16.1	26.5	237	51	0.4	1.18	0.1	18	< 0.1	0.2	240	19.4	40.0	5.3	20.8	4.2	4.8	0.7	4.4	66.6
283079	27.3	17.3	1.3	16.2	21.3	183	55	2.6	8.41	0.1	38	< 0.1	0.2	229	17.9	36.2	4.5	16.9	3.2	3.6	0.6	3.4	71.6
283080	52.9	17.8	3.4	14.4	25.2	116	13	0.4	0.76	0.2	48	< 0.1	0.1	50	4.3	11.4	1.8	8.4	2.4	3.6	0.6	4.0	386
283081	56.7	17.3	0.8	62.0	25.2	101	20	0.4	0.47	0.2	39	< 0.1	0.1	148	7.8	17.7	2.5	10.5	2.7	3.7	0.7	4.0	270
283082	59.8	17.4	< 0.1	35.7	22.3	170	9	0.4	0.37	0.1	28	< 0.1	< 0.1	82	7.0	15.3	2.1	8.9	2.5	3.2	0.6	3.6	163
283083	66.7	16.3	0.3	16.5	26.0	156	14	0.4	0.35	0.1	20	< 0.1	< 0.1	37	11.5	24.5	3.1	12.4	3.0	3.8	0.6	4.1	121
283084	104	11.7	10.1	79.6	17.0	398	73	8.9	446	0.8	11	1.3	0.4	646	20.1	37.0	4.4	15.9	2.9	3.0	0.5	2.7	9910
283085	72.2	17.0	0.9	18.4	26.8	170	11	0.5	1.93	0.1	20	0.1	0.8	40	8.0	17.9	2.5	10.2	2.6	3.5	0.6	4.1	154
283086	73.8	17.6	1.1	33.6	21.6	211	15	0.6	1.20	0.1	18	< 0.1	0.4	67	6.2	13.9	2.0	8.2	2.3	2.9	0.5	3.4	126
283087	80.0	16.8	0.8	39.5	22.3	189	17	0.7	1.23	0.1	9	< 0.1	0.2	68	4.5	10.7	1.6	7.5	2.0	3.1	0.5	3.5	171
283089	63.4	15.6	< 0.1	4.2	22.8	162	62	2.6	1.06	< 0.1	5	< 0.1	0.1	40	15.1	28.6	3.5	13.2	2.8	3.4	0.6	3.5	103
283090	19.9	10.1	< 0.1	30.4	25.7	44.6	157	7.1	12.4	< 0.1	6	< 0.1	< 0.1	456	32.6	60.5	6.9	23.6	4.0	4.0	0.6	3.8	5.7
283091	33.7	11.0	0.8	35.8	25.1	21.7	151	4.7	3.00	< 0.1	6	< 0.1	< 0.1	546	33.2	60.0	7.0	23.4	4.0	4.2	0.6	3.7	7.5
283092	20.6	10.7	< 0.1	39.7	23.0	20.6	139	6.8	2.18	< 0.1	26	0.1	< 0.1	495	30.1	55.3	6.4	21.5	3.6	3.7	0.6	3.5	25.7
283093	26.0	11.4	2.4	34.8	25.1	34.5	122	6.4	3.61	< 0.1	4	0.2	0.8	387	28.1	51.2	5.9	20.0	3.5	3.8	0.6	3.6	96.7
283094	26.6	11.3	3.9	39.8	23.9	38.2	179	10.5	3.71	< 0.1	5	0.2	0.5	455	29.0	53.4	6.0	20.9	3.6	3.7	0.6	3.6	97.6
283095	30.3	11.2	1.4	41.3	24.6	27.8	123	6.3	3.52	< 0.1	12	0.3	0.3	464	27.1	49.6	5.7	19.5	3.3	3.5	0.6	3.6	136
283096	110	19.6	< 0.1	88.4	39.7	560	109	3.2	0.65	< 0.1	1	< 0.1	0.2	722	35.2	73.9	10.0	39.8	7.8	7.9	1.2	6.9	28.3
283097	24.5	9.3	0.3	36.1	21.6	21.9	108	6.7	3.07	< 0.1	39	0.2	0.2	455	25.8	47.3	5.3	18.0	2.8	3.2	0.5	3.2	50.0
283098	69.3	15.0	1.3	34.8	26.3	55.4	133	6.8	4.90	< 0.1	32	0.3	0.2	256	31.9	60.5	7.6	28.6	5.2	5.1	0.8	4.1	159
283099	72.0	14.8	< 0.1	31.9	22.3	38.7	98	0.7	0.24	< 0.1	< 1	0.1	< 0.1	459	18.6	36.2	4.3	16.4	3.2	3.7	0.6	3.5	8.1
283100	76.8	15.5	< 0.1	18.5	23.2	43.2	64	0.8	0.86	< 0.1	2	< 0.1	< 0.1	272	16.9	32.9	4.0	14.8	3.0	3.5	0.6	3.6	14.9
283101	55.2	18.4	0.1	8.0	26.2	161	124	6.0	1.08	< 0.1	3	0.2	0.4	113	21.6	41.1	5.0	18.3	3.5	4.3	0.7	4.2	114
283102	68.2	17.2	< 0.1	9.4	25.3	131	95	2.3	0.81	< 0.1	1	< 0.1	0.2	152	21.9	41.4	5.0	18.5	3.6	4.2	0.7	4.1	59.0
283103	77.5	17.0	< 0.1	11.3	24.9	109	88	2.4	0.70	< 0.1	3	< 0.1	0.1	178	20.6	39.3	4.8	17.5	3.2	4.2	0.7	3.9	56.1
283104	77.9	16.9	< 0.1	20.1	25.0	103	60	1.2	0.34	< 0.1	3	< 0.1	0.1	270	19.6	37.6	4.5	16.9	3.3	4.0	0.7	3.9	64.5
283105	66.8	16.4	0.7	20.1	20.5	90.0	70	1.2	0.18	< 0.1	4	< 0.1	< 0.1	205	16.5	31.8	3.8	14.0	2.8	3.2	0.5	3.2	46.9
283106	78.6	15.1	< 0.1	20.3	23.4	61.3	79	1.1	0.13	< 0.1	< 1	< 0.1	< 0.1	311	16.2	32.0	3.8	14.2	3.0	3.5	0.6	3.6	18.6
283107	75.5	15.0	1.1	20.3	20.3	114	97	1.5	1.15	< 0.1	3	< 0.1	0.5	138	22.7	44.1	5.6	21.3	4.1	4.3	0.6	3.4	57.8
283138	137	17.5	0.7	11.2	21.6	128	12	1.1	0.61	0.1	9	< 0.1	0.2	16	4.8	11.1	1.7	7.6	2.2	3.1	0.5	3.4	237
283139	117	19.3	0.4	38.7	24.6	125	17	1.5	0.39	0.1	20	< 0.1	0.2	35	7.2	15.2	2.1	9.1	2.5	3.3	0.6	4.0	482
283140	125	17.8	0.2	10.1	24.6	155	11	1.2	0.20	0.2	7	< 0.1	0.1	16	5.5	13.3	2.0	9.3	2.5	3.5	0.6	4.0	155
283141	118	17.5	< 0.1	45.3	25.8	136	15	0.7	0.16	0.1	23	< 0.1	< 0.1	37	6.6	15.4	2.3	10.1	2.8	3.7	0.6	4.2	421

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
283142	78.0	16.0	1.1	53.8	19.4	106	29	2.7	1.42	< 0.1	24	< 0.1	< 0.1	64	6.7	14.6	1.8	7.1	1.7	2.6	0.5	2.9	481
283143	103	17.5	< 0.1	15.0	20.9	155	14	0.7	0.10	0.1	8	< 0.1	< 0.1	18	3.9	9.4	1.5	6.9	2.0	2.9	0.5	3.3	171
283144	108	18.6	0.7	2.6	26.7	122	50	5.1	6.79	0.1	9	0.3	0.8	7	9.7	20.8	2.9	11.7	3.0	3.9	0.7	4.2	222
283145	130	18.2	< 0.1	4.4	20.3	53.5	111	0.4	0.43	< 0.1	< 1	< 0.1	0.3	36	14.0	28.2	3.4	12.6	2.6	3.0	0.5	3.0	1.9
283146	29.6	13.5	< 0.1	26.7	13.7	117	96	8.5	0.85	< 0.1	3	< 0.1	0.2	184	55.3	98.1	10.7	33.0	4.2	3.6	0.5	2.2	48.0
283147	114	17.2	2.1	27.6	19.9	89.1	20	0.9	0.34	0.1	7	< 0.1	0.1	29	11.4	23.4	2.9	10.8	2.4	2.8	0.5	3.2	202
283148	107	18.0	< 0.1	87.6	41.0	561	96	1.4	0.20	0.1	1	< 0.1	< 0.1	665	36.5	76.9	10.7	41.9	8.4	8.3	1.3	7.3	25.9
283149	106	17.5	2.4	64.9	21.8	117	19	2.4	0.43	0.1	24	< 0.1	0.1	56	5.2	12.4	1.8	8.1	2.2	3.0	0.5	3.4	329
283150	108	16.8	4.3	39.0	21.5	109	26	3.1	0.61	0.1	41	0.3	0.2	47	6.0	13.7	2.0	8.3	2.3	2.8	0.5	3.4	285
283151	123	17.5	0.6	12.0	23.5	124	26	2.2	0.42	0.2	17	< 0.1	< 0.1	24	5.4	13.1	1.9	8.7	2.5	3.3	0.6	3.7	172
283152	139	18.2	< 0.1	9.4	23.8	115	17	0.7	0.90	0.1	9	< 0.1	0.7	22	5.2	12.5	1.9	8.8	2.4	3.5	0.6	3.8	126
283153	164	19.2	12.2	1.3	21.5	22.7	133	6.5	2.32	< 0.1	3	0.1	0.3	8	12.9	26.1	3.2	12.1	2.6	3.1	0.5	3.3	7.8
283154	112	18.6	2.0	10.8	24.8	128	15	0.6	0.37	0.1	3	< 0.1	0.2	15	5.5	13.0	1.9	9.0	2.5	3.4	0.6	3.9	181
283155	104	17.4	0.5	9.4	24.2	136	9	0.3	0.16	0.1	3	< 0.1	< 0.1	15	5.2	12.2	1.8	8.7	2.4	3.3	0.6	3.8	146
283156	31.2	11.6	0.8	5.0	14.0	115	38	4.0	0.83	< 0.1	3	0.1	< 0.1	27	38.4	70.1	7.9	25.8	3.4	3.4	0.4	2.3	40.4
283157	16.5	9.9	< 0.1	6.6	15.2	86.4	127	7.2	1.08	< 0.1	5	< 0.1	< 0.1	62	26.9	51.1	5.6	17.8	2.5	2.5	0.3	2.1	12.6
283158	11.0	9.5	0.7	4.4	16.8	70.0	76	11.0	1.77	< 0.1	15	< 0.1	< 0.1	36	27.3	58.2	6.2	20.4	3.0	2.9	0.4	2.4	162
283159	15.7	10.1	< 0.1	6.4	12.9	90.6	86	7.4	2.30	< 0.1	10	< 0.1	< 0.1	64	38.3	68.8	7.5	23.7	3.0	2.8	0.4	2.0	55.2
283160	85.0	9.7	21.4	150	23.9	328	96	18.2	107	0.2	6	0.9	0.9	994	37.6	68.5	8.1	29.2	4.9	5.2	0.7	4.1	2500
283161	97.8	23.0	2.4	7.5	20.6	78.1	25	5.3	2.69	< 0.1	14	< 0.1	0.4	17	8.5	16.8	2.2	8.6	1.9	2.6	0.5	3.0	540
283162	92.8	19.8	0.2	8.9	26.3	117	17	1.3	0.82	< 0.1	5	< 0.1	0.2	11	6.1	13.7	2.1	9.5	2.6	3.8	0.6	4.1	403
283163	101	19.7	0.7	4.0	22.4	97.4	28	1.1	0.57	0.1	5	< 0.1	0.2	5	6.5	14.1	1.9	8.7	2.3	3.5	0.6	3.6	229
283209	122	24.5	< 0.1	2.3	29.9	98.1	8	0.7	0.30	0.1	7	< 0.1	< 0.1	33	6.4	14.3	2.0	8.9	2.4	3.7	0.6	4.4	171
283210	86.9	16.9	< 0.1	3.2	21.1	149	4	0.2	0.07	0.1	7	< 0.1	< 0.1	37	3.9	9.5	1.5	7.2	2.2	3.1	0.5	3.4	253
283211	108	18.6	< 0.1	2.5	22.5	81.0	14	0.5	0.22	< 0.1	15	< 0.1	< 0.1	25	4.9	11.0	1.6	7.5	2.2	3.1	0.5	3.6	378
283212	121	19.2	0.1	1.8	24.4	57.2	39	1.8	0.60	< 0.1	3	< 0.1	< 0.1	14	7.5	15.9	2.2	9.5	2.4	3.4	0.6	3.7	345
283213	119	18.7	< 0.1	3.2	21.4	44.6	104	1.7	1.38	< 0.1	1	< 0.1	0.8	44	15.8	31.1	3.8	14.4	2.8	3.4	0.5	3.1	17.4
283214	20.1	9.8	< 0.1	15.1	16.8	109	112	7.2	1.41	< 0.1	26	< 0.1	0.3	324	41.9	74.9	8.3	27.4	3.9	3.4	0.4	2.5	131
283215	8.6	10.9	0.7	22.1	11.3	142	86	7.3	0.60	< 0.1	24	< 0.1	0.2	377	36.3	66.8	7.0	23.0	3.1	2.7	0.3	1.8	101
283216	7.6	11.4	< 0.1	18.5	16.1	150	87	8.6	1.15	< 0.1	26	< 0.1	0.1	303	34.6	65.8	7.0	22.6	3.0	3.0	0.4	2.3	179
283217	9.9	10.2	1.0	8.2	14.1	155	68	7.5	1.02	< 0.1	15	0.2	0.1	122	35.4	65.3	7.1	22.1	2.7	2.6	0.4	2.0	131
283218	104	18.8	13.4	1.5	19.0	28.8	68	0.8	2.21	< 0.1	2	< 0.1	0.2	9	13.1	25.2	3.0	11.4	2.2	2.8	0.4	2.9	105
283219	85.1	19.5	3.0	1.5	25.3	104	17	0.9	0.89	0.1	19	< 0.1	0.5	8	6.6	14.5	2.2	9.5	2.7	3.7	0.6	4.1	461
283220	109	16.5	0.6	83.5	36.3	571	115	2.9	0.73	0.1	2	< 0.1	0.2	665	34.6	72.5	9.8	39.8	7.6	7.5	1.1	6.4	24.0
283221	99.4	20.2	1.7	2.8	25.1	76.5	38	3.9	1.10	< 0.1	8	< 0.1	0.2	10	8.1	17.3	2.4	10.3	2.6	3.7	0.6	4.0	249
283222	74.4	17.4	1.6	4.2	25.0	74.7	19	0.9	1.51	< 0.1	35	< 0.1	< 0.1	13	6.3	13.6	1.8	7.6	2.0	2.9	0.5	3.7	526
283223	8.6	9.8	< 0.1	4.5	10.7	89.9	68	5.0	0.64	< 0.1	6	0.1	< 0.1	86	32.0	59.4	6.3	20.3	2.8	2.3	0.3	1.6	47.2
283224	73.7	23.4	< 0.1	8.5	27.9	245	23	0.9	0.16	0.3	14	< 0.1	< 0.1	28	5.9	13.4	2.0	8.9	2.6	3.8	0.7	4.4	1760
283225	56.0	17.1	< 0.1	16.3	21.4	186	30	1.9	0.43	0.2	8	0.1	0.3	35	5.3	11.8	1.7	7.7	2.2	3.1	0.5	3.4	418
283226	84.2	19.2	< 0.1	22.4	24.4	176	4	0.2	0.73	0.3	6	< 0.1	0.8	42	4.6	11.3	1.8	8.4	2.5	3.4	0.6	3.9	894
283227	113	19.9	0.7	21.2	17.9	132	32	0.9	1.10	0.3	13	< 0.1	0.5	40	3.2	7.6	1.2	5.7	1.8	2.4	0.4	2.8	3040
283228	78.2	17.0	0.5	45.2	22.5	127	7	0.6	0.45	0.2	16	< 0.1	0.2	84	5.4	12.7	1.9	8.4	2.3	3.1	0.5	3.7	410

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
283229	72.4	15.6	0.8	63.3	20.9	129	9	1.2	0.48	0.1	10	< 0.1	0.2	124	4.7	11.1	1.7	7.7	2.2	2.9	0.5	3.4	285
283230	33.0	9.4	6.9	8.8	11.5	75.6	40	6.4	7.03	< 0.1	16	0.2	0.4	41	16.8	35.0	4.0	13.1	2.2	1.9	0.3	1.7	1560
283231	76.8	17.7	1.3	43.0	20.6	159	14	2.8	0.89	0.1	11	0.3	0.2	80	3.6	8.9	1.3	6.7	2.0	2.9	0.5	3.3	168
283232	139	10.2	1240	18.2	23.1	316	121	10.7	3.33	< 0.1	2	1.1	0.1	530	27.1	41.6	6.3	25.1	4.8	5.6	0.7	4.2	146
283233	83.4	17.9	6.3	9.5	21.9	183	17	0.6	0.19	< 0.1	3	0.1	< 0.1	35	19.1	40.4	5.0	17.5	3.1	3.7	0.6	3.5	95.8
283234	95.9	16.5	3.2	7.2	20.2	129	15	0.3	0.13	< 0.1	2	< 0.1	< 0.1	40	9.0	19.1	2.5	9.8	2.2	3.0	0.5	3.2	109
283235	13.1	11.4	1.2	4.8	12.6	131	90	4.8	1.92	< 0.1	2	0.3	0.9	58	37.7	73.6	8.3	26.6	3.6	2.6	0.4	1.9	11.3
283236	112	17.7	0.6	1.8	22.7	134	24	1.4	0.70	< 0.1	< 1	< 0.1	0.5	12	4.3	10.6	1.6	7.8	2.3	3.1	0.6	3.6	82.7
283237	95.8	18.0	< 0.1	14.1	24.6	183	14	0.2	0.17	0.1	1	< 0.1	0.2	31	7.2	15.7	2.3	9.7	2.6	3.6	0.6	4.0	101
283238	19.8	11.7	< 0.1	3.3	9.6	119	94	5.3	0.53	< 0.1	2	0.2	0.1	67	40.2	72.6	7.8	24.6	2.8	2.6	0.3	1.6	2.9
283239	107	20.5	0.2	10.6	21.9	109	46	1.7	0.21	< 0.1	8	< 0.1	0.1	44	30.5	57.0	6.5	22.7	3.6	4.0	0.6	3.6	112
283240	20.6	11.9	< 0.1	3.1	13.7	104	54	6.6	0.79	< 0.1	3	0.2	< 0.1	37	21.3	41.2	4.6	13.9	2.2	2.1	0.3	2.0	10.9
283241	90.4	17.3	0.7	19.4	23.4	174	19	2.7	0.46	0.1	7	0.2	< 0.1	67	5.6	13.1	1.9	9.0	2.4	3.3	0.6	3.8	158
283242	81.6	17.2	0.7	25.2	23.1	185	18	2.8	0.47	< 0.1	5	0.2	< 0.1	85	5.1	12.2	1.8	8.4	2.3	3.4	0.6	3.8	124
283243	71.1	16.2	1.9	46.5	20.7	164	14	1.5	0.32	0.1	8	< 0.1	< 0.1	139	4.4	10.4	1.5	7.3	2.0	2.9	0.5	3.4	203
283244	107	15.0	< 0.1	88.0	39.5	568	96	1.0	1.06	< 0.1	1	< 0.1	0.8	725	35.9	76.4	10.6	43.1	8.7	8.2	1.2	7.1	30.5
283245	76.1	18.0	0.7	18.6	35.7	76.5	20	0.6	0.41	< 0.1	33	< 0.1	0.3	71	8.3	18.1	2.6	11.2	3.3	4.5	0.8	5.5	66.7
283246	54.6	16.9	1.4	13.2	23.7	111	32	3.0	0.54	< 0.1	32	< 0.1	0.2	78	7.9	17.1	2.3	9.7	2.5	3.5	0.6	3.7	168
283247	92.0	18.0	< 0.1	14.2	25.5	49.0	31	3.5	0.70	< 0.1	15	< 0.1	0.1	50	7.3	16.5	2.3	10.5	2.9	3.6	0.6	4.0	116
283248	94.9	19.1	< 0.1	1.3	24.6	42.0	25	0.3	2.93	< 0.1	6	< 0.1	< 0.1	20	6.9	15.1	2.1	9.0	2.5	3.2	0.6	3.9	142
283249	20.6	14.6	< 0.1	5.6	26.6	62.0	145	10.1	5.06	< 0.1	8	0.2	< 0.1	163	40.9	81.5	9.6	33.0	5.6	4.9	0.7	4.3	45.9
283250	16.0	11.2	< 0.1	13.8	24.5	73.2	146	9.8	3.40	< 0.1	5	0.1	< 0.1	430	42.1	81.5	9.7	33.7	5.2	4.8	0.7	4.1	31.1
283251	23.5	15.2	< 0.1	4.8	28.5	131	165	9.8	2.54	< 0.1	9	0.2	< 0.1	140	37.6	76.2	9.3	34.2	5.8	5.7	0.8	4.8	88.3
283252	111	18.3	1.5	1.2	20.5	162	19	2.2	3.55	0.1	29	0.1	0.8	5	3.6	8.8	1.4	6.4	2.0	2.8	0.5	3.3	251
283253	105	16.8	< 0.1	0.9	18.8	218	16	0.9	0.49	0.1	8	< 0.1	0.3	5	4.5	10.5	1.6	7.3	2.0	2.6	0.5	3.1	207
283254	106	16.8	< 0.1	0.6	19.1	204	19	0.5	0.18	< 0.1	15	< 0.1	< 0.1	5	11.1	24.1	3.3	13.8	3.0	3.3	0.5	3.2	74.1
283255	103	16.8	12.6	0.5	20.7	190	17	0.4	1.49	0.1	12	< 0.1	0.2	6	3.7	9.4	1.4	7.0	2.1	2.9	0.5	3.4	295
283256	81.3	4.2	21.0	140	23.8	308	86	10.9	80.2	0.2	5	0.7	0.1	980	35.5	65.5	7.9	28.1	4.3	4.5	0.7	4.0	2430
283257	123	17.1	2.3	0.6	18.0	185	11	1.3	1.25	< 0.1	4	0.1	0.7	5	3.4	8.4	1.3	6.1	1.8	2.4	0.4	2.9	224
283258	155	18.8	1.7	0.4	23.3	183	10	1.3	0.84	0.1	3	0.1	0.4	3	4.7	11.6	1.7	8.3	2.4	3.2	0.6	3.8	104
283259	114	18.7	1.6	0.2	19.3	236	32	2.8	0.73	< 0.1	6	0.2	0.2	4	12.6	25.0	3.0	11.8	2.3	2.9	0.5	3.1	87.8
283260	240	22.5	1.3	0.2	27.1	46.5	48	3.1	4.77	< 0.1	7	< 0.1	0.2	2	9.1	18.7	2.5	10.6	2.8	3.4	0.6	4.2	93.4
283261	97.9	8.3	< 0.1	35.3	30.3	41.2	169	1.2	5.04	< 0.1	1	< 0.1	< 0.1	572	35.1	66.7	7.6	27.0	4.7	4.8	0.8	4.7	0.8
283262	390	12.1	< 0.1	37.0	29.5	18.2	207	8.1	1.28	< 0.1	3	0.1	< 0.1	469	34.6	64.7	7.3	25.8	4.0	4.9	0.8	4.5	5.4
283263	1870	10.3	0.2	34.2	25.7	31.8	149	6.7	1.62	0.1	3	0.1	< 0.1	334	30.2	55.3	6.4	21.9	3.5	4.3	0.6	3.9	266
283264	225	10.8	0.3	37.0	26.0	14.1	173	7.8	3.18	< 0.1	4	0.2	< 0.1	371	30.0	56.3	6.4	22.1	4.1	3.8	0.6	3.9	222
283265	138	10.7	< 0.1	41.6	27.2	19.3	166	6.5	1.94	< 0.1	3	< 0.1	< 0.1	438	32.8	60.8	7.1	24.4	4.1	4.4	0.8	4.3	37.8
283266	285	10.4	< 0.1	38.5	27.6	14.5	132	1.8	1.26	< 0.1	3	< 0.1	0.4	491	32.3	60.8	7.0	24.5	4.2	4.8	0.7	4.3	158
283267	220	10.4	< 0.1	43.3	32.5	18.5	175	7.1	1.51	< 0.1	3	< 0.1	0.2	449	34.3	65.1	7.4	25.9	4.5	4.8	0.8	4.9	14.8
283268	106	15.9	< 0.1	76.6	35.9	547	119	12.0	0.87	< 0.1	3	< 0.1	0.1	674	30.5	67.5	9.1	37.3	7.5	7.4	1.1	6.6	24.4
283269	142	14.4	2.4	37.6	17.9	57.8	148	8.3	1.03	< 0.1	3	0.1	< 0.1	298	44.5	82.6	9.1	30.0	4.1	3.8	0.5	3.0	47.7
283270	119	14.3	< 0.1	36.2	12.5	73.8	118	4.7	0.55	< 0.1	3	< 0.1	< 0.1	276	39.1	73.0	7.9	25.8	3.2	3.0	0.4	2.1	73.8

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
283271	670	12.5	< 0.1	38.5	47.6	17.8	204	7.8	0.89	< 0.1	3	< 0.1	< 0.1	395	38.9	73.3	8.4	28.9	4.8	5.8	1.0	6.9	19.9
283272	283	12.1	0.6	33.7	22.6	16.1	144	6.1	0.96	< 0.1	3	0.1	0.5	291	26.3	50.1	5.6	20.0	3.8	3.8	0.6	3.7	133
283273	542	16.6	3.5	21.1	19.8	40.8	50	3.6	1.14	< 0.1	4	0.2	0.8	153	8.2	17.9	2.4	9.8	2.4	2.9	0.5	3.2	407
283274	282	14.6	< 0.1	24.5	27.7	62.2	176	10.8	1.69	< 0.1	3	< 0.1	0.3	167	37.4	71.1	8.1	28.2	4.7	5.1	0.8	4.6	72.3
283275	370	15.6	< 0.1	20.2	20.5	49.9	46	1.2	0.34	< 0.1	2	< 0.1	0.2	136	7.0	15.8	2.3	9.5	2.4	3.2	0.5	3.3	249
283276	288	14.5	< 0.1	24.6	23.0	48.3	117	5.0	0.88	< 0.1	3	< 0.1	0.2	164	22.3	44.4	5.1	18.7	3.5	4.0	0.6	3.8	86.5
283277	421	10.1	0.1	23.5	25.2	41.5	64	3.1	0.87	< 0.1	2	0.1	0.2	148	12.1	23.7	2.7	10.4	2.3	2.7	0.5	3.3	294
283278	117	3.8	0.3	0.5	3.8	11.9	3	0.2	0.72	< 0.1	< 1	0.1	0.2	4	1.8	3.4	0.4	1.6	0.4	0.5	0.1	0.4	2660
283279	49.4	1.8	1.0	3.3	4.8	18.2	5	0.4	0.94	< 0.1	1	0.2	< 0.1	24	5.0	9.0	1.1	4.4	1.0	1.1	0.2	0.9	17.5
283280	98.6	8.7	9.6	85.7	16.6	393	65	8.8	481	0.8	12	1.2	0.4	570	20.5	38.2	4.7	16.8	2.9	3.3	0.5	2.8	7800
283281	874	16.1	1.9	44.1	27.0	39.6	54	5.3	7.21	0.1	4	< 0.1	0.3	293	13.4	27.9	3.7	15.2	3.3	4.2	0.7	4.4	316
283282	567	19.1	0.5	46.8	25.8	37.5	65	3.4	1.76	< 0.1	5	< 0.1	0.9	363	8.7	18.0	2.4	9.4	2.2	3.1	0.6	3.9	391
283283	486	18.1	< 0.1	35.2	25.5	37.4	56	1.4	0.77	< 0.1	3	< 0.1	0.3	282	9.1	18.9	2.5	9.8	2.3	3.2	0.6	3.9	307
283284	394	12.8	10.7	35.3	22.6	21.2	136	6.3	2.57	< 0.1	3	< 0.1	0.1	320	19.5	37.1	4.6	16.1	3.0	3.7	0.6	3.5	43.0
283285	151	9.9	1.8	34.4	20.8	14.8	60	4.5	1.65	< 0.1	2	< 0.1	< 0.1	339	26.6	49.6	5.7	20.1	3.8	3.8	0.6	3.4	5.3
283286	2140	11.8	1.5	36.8	24.1	16.9	169	5.5	1.99	0.1	3	0.2	0.9	413	34.0	65.1	7.4	25.2	4.6	4.6	0.7	4.0	199
283287	2110	12.2	1.1	38.3	19.4	14.5	188	6.4	1.61	0.1	3	0.1	0.4	419	35.3	67.4	7.8	25.7	4.9	4.2	0.6	3.4	567
283288	1030	12.6	< 0.1	37.3	20.9	14.4	200	6.2	1.50	< 0.1	4	0.1	0.2	425	34.7	67.3	7.7	26.0	4.7	4.8	0.6	3.8	379
283289	1580	11.6	< 0.1	38.3	18.2	14.2	192	6.3	1.57	< 0.1	4	< 0.1	0.2	429	35.0	67.8	7.6	25.8	4.3	4.6	0.6	3.3	145
283290	1550	12.7	0.6	40.9	20.9	16.3	216	7.6	2.29	< 0.1	4	0.1	< 0.1	458	39.3	72.7	8.4	28.1	4.6	4.6	0.7	3.7	599
283291	424	10.6	0.6	42.2	18.7	15.5	163	6.4	1.24	< 0.1	3	< 0.1	< 0.1	372	31.8	60.5	7.0	23.3	3.9	3.9	0.5	3.1	351
283292	105	15.8	1.1	90.9	38.5	612	148	10.3	0.65	< 0.1	2	< 0.1	< 0.1	683	35.5	78.5	10.6	41.1	8.1	8.3	1.2	6.9	24.8
283293	1440	10.9	1.6	38.1	15.7	10.8	161	6.8	0.76	0.2	3	< 0.1	< 0.1	305	29.4	57.2	6.6	21.8	3.6	3.4	0.5	2.8	221
283294	128	11.5	< 0.1	44.3	14.7	14.1	169	6.1	1.69	< 0.1	3	0.1	< 0.1	353	32.3	62.4	7.1	23.7	4.0	4.0	0.5	2.8	102
283295	154	11.0	1.1	34.6	14.9	12.5	151	5.2	1.48	< 0.1	3	0.1	0.4	345	24.4	47.6	5.5	18.2	3.0	3.0	0.4	2.7	97.3
283296	170	11.4	< 0.1	38.7	17.0	12.6	175	4.7	1.68	< 0.1	4	< 0.1	0.2	396	38.4	73.2	8.2	28.9	4.6	4.8	0.6	3.1	71.5
283297	891	13.3	< 0.1	50.9	16.6	16.3	190	5.3	2.62	< 0.1	4	< 0.1	0.3	473	40.8	77.3	8.8	29.5	4.9	4.8	0.6	3.1	430
283298	286	12.5	0.1	52.8	15.7	12.4	184	6.3	1.95	< 0.1	4	0.1	0.1	447	30.4	59.3	6.7	22.4	3.6	3.6	0.5	2.8	182
283299	204	11.6	< 0.1	46.0	16.3	11.9	165	6.2	1.56	< 0.1	7	< 0.1	< 0.1	371	34.8	65.7	7.7	25.2	4.5	4.2	0.5	2.7	54.7
283300	232	10.4	< 0.1	44.2	13.2	19.6	118	5.5	1.44	< 0.1	7	0.1	< 0.1	386	16.6	32.0	3.7	12.2	2.3	2.3	0.5	2.6	359
283301	387	10.9	< 0.1	40.1	14.7	9.8	151	6.4	1.39	< 0.1	5	< 0.1	< 0.1	358	26.6	51.2	6.0	19.8	3.0	3.3	0.4	2.5	48.6
283302	714	13.2	< 0.1	32.6	22.4	9.9	192	8.6	2.10	< 0.1	4	0.1	1.0	275	31.7	62.8	6.9	23.4	4.2	4.1	0.6	3.8	109
283303	3270	11.9	< 0.1	41.3	17.7	12.5	179	7.2	1.47	0.3	4	0.1	0.4	345	32.4	62.8	7.2	24.5	4.2	4.3	0.6	3.1	349
283304	27.4	13.0	313	66.1	17.5	81.5	102	1.4	171	0.2	9	4.8	0.5	180	59.9	85.8	8.3	24.5	3.2	3.6	0.5	2.9	7680
283305	215	13.4	1.3	38.6	16.7	14.7	181	8.1	4.75	< 0.1	4	0.1	0.2	365	35.9	69.5	8.1	26.6	4.5	4.5	0.6	3.1	33.4
283306	178	12.9	< 0.1	35.8	14.2	11.7	216	6.5	2.07	< 0.1	5	0.1	0.1	326	31.8	62.0	7.0	23.8	4.0	3.8	0.5	2.7	48.7
283307	153	13.9	2.6	43.1	16.0	15.1	196	6.0	2.54	< 0.1	4	0.2	< 0.1	323	34.3	65.4	7.6	25.5	4.4	4.2	0.5	2.8	48.0
283308	170	13.6	< 0.1	49.5	14.7	12.8	171	6.0	1.89	< 0.1	3	0.3	0.1	304	35.8	69.7	8.0	26.6	4.0	3.8	0.5	2.9	40.5
283309	172	12.9	< 0.1	47.9	14.7	14.3	169	6.7	1.92	< 0.1	3	0.1	0.3	333	32.7	62.6	7.1	23.8	3.9	3.9	0.6	2.7	77.9
283310	193	12.2	3.7	44.8	16.9	12.1	146	6.9	2.93	< 0.1	3	0.1	0.1	290	36.2	67.5	8.0	26.5	4.2	4.8	0.6	3.4	161
283311	191	12.2	0.2	40.9	15.4	12.0	158	7.4	2.21	< 0.1	3	0.1	0.8	302	35.9	71.5	8.4	27.1	4.8	4.7	0.6	3.1	70.5
283312	579	11.5	1.3	29.5	13.2	8.3	134	6.3	1.95	< 0.1	3	0.1	0.4	218	30.6	59.8	6.9	22.9	4.5	3.6	0.5	2.6	264

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
283313	5400	11.0	2.4	31.5	16.5	7.5	131	7.2	2.10	0.5	3	0.2	0.3	239	34.0	66.5	7.6	25.9	4.6	4.7	0.6	2.9	443
283314	389	11.2	< 0.1	33.9	15.4	9.9	141	7.6	1.91	< 0.1	2	< 0.1	0.1	269	32.9	64.5	7.3	24.5	4.2	4.2	0.6	2.9	13.7
283315	157	11.6	< 0.1	37.0	12.9	10.9	157	7.1	1.46	< 0.1	3	0.1	< 0.1	302	31.1	59.9	7.1	22.9	4.3	3.9	0.5	2.7	75.0
283316	106	15.4	< 0.1	85.0	39.4	597	86	1.3	0.31	0.1	3	< 0.1	< 0.1	707	34.7	78.2	10.5	42.1	8.3	8.4	1.3	7.1	148
283317	178	13.0	< 0.1	36.2	12.9	11.2	173	7.0	1.48	0.1	3	0.1	< 0.1	301	29.2	58.6	6.9	22.8	4.0	4.0	0.5	2.6	685
283318	152	12.0	0.5	35.3	13.7	12.1	174	6.5	1.39	0.1	3	< 0.1	< 0.1	326	29.4	60.0	6.7	23.1	4.4	3.8	0.5	2.8	777
283319	105	12.3	< 0.1	41.7	14.7	13.2	182	7.7	2.24	< 0.1	3	0.1	< 0.1	330	32.0	62.4	7.5	24.4	4.5	4.1	0.6	3.0	201
283320	97.0	13.6	11.5	37.1	14.2	14.2	182	7.3	2.92	< 0.1	3	< 0.1	0.3	284	33.0	62.3	7.6	25.7	4.3	4.2	0.6	3.1	312
283321	93.6	12.3	1.4	38.1	12.4	11.6	172	7.6	1.70	0.1	3	0.1	0.2	248	29.6	56.0	7.0	22.4	3.9	3.5	0.5	2.6	825
283322	77.6	12.9	11.8	37.1	12.4	14.5	183	5.0	2.37	< 0.1	2	< 0.1	0.2	312	30.9	58.4	6.5	23.3	4.1	3.6	0.5	2.6	220
283323	74.6	12.3	2.7	39.9	13.1	11.7	168	6.2	1.47	< 0.1	2	< 0.1	< 0.1	291	33.2	61.3	7.1	24.3	4.1	3.5	0.5	2.5	195
283324	80.7	11.9	1.8	36.5	13.7	12.0	174	7.3	1.39	< 0.1	3	< 0.1	< 0.1	292	29.3	55.2	7.0	22.8	3.6	4.0	0.5	2.7	118
283325	131	13.5	0.6	33.2	14.5	9.2	178	7.9	2.41	< 0.1	3	0.1	0.8	224	33.3	62.0	7.2	24.9	4.2	3.7	0.6	3.0	447
283326	156	13.3	0.8	32.6	14.0	8.2	169	6.0	3.44	0.1	3	0.2	0.5	233	31.4	58.3	6.8	23.6	4.4	3.6	0.5	2.8	1760
283327	112	12.8	< 0.1	31.0	13.3	7.8	152	5.7	1.98	< 0.1	2	< 0.1	0.2	217	26.2	49.8	5.6	20.3	3.9	3.1	0.5	2.6	394
283328	117	9.5	1090	17.1	21.8	297	73	2.2	2.01	< 0.1	2	1.0	0.1	467	25.2	37.4	5.6	23.0	4.8	4.6	0.7	4.1	126
283329	91.2	12.8	6.9	32.8	13.2	9.0	164	7.2	1.32	< 0.1	2	< 0.1	< 0.1	232	27.0	51.0	6.0	20.9	3.5	3.0	0.4	2.5	20.6
283330	58.0	10.9	1.4	39.5	12.3	12.2	166	7.3	1.29	< 0.1	2	< 0.1	< 0.1	414	30.0	57.5	6.6	22.8	3.8	3.3	0.5	2.4	14.8

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
283069	< 0.1	0.3	1.8	0.3	0.3	3.0	< 0.001	0.14	3.8	17	4.6	1.1	0.304	0.105	0.11
283070	< 0.1	0.2	1.5	0.2	0.1	0.7	< 0.001	0.39	5.2	15	4.5	1.1	0.340	0.133	0.17
283071	< 0.1	0.2	1.6	0.2	0.2	1.0	< 0.001	0.13	5.6	13	4.6	1.5	0.324	0.053	0.28
283072	< 0.1	0.5	3.4	0.5	0.4	0.4	0.001	0.47	14.9	20	3.5	1.5	0.547	0.134	0.17
283073	< 0.1	0.4	2.5	0.4	< 0.1	0.5	0.001	0.05	3.5	34	2.1	0.6	0.314	0.027	0.14
283074	0.1	0.3	2.2	0.3	< 0.1	0.8	0.001	0.36	3.3	39	1.9	0.5	0.421	0.030	0.16
283075	< 0.1	0.4	2.6	0.4	0.3	0.5	0.002	0.91	3.6	46	3.3	1.0	0.377	0.024	0.32
283076	0.1	0.3	2.4	0.3	0.4	22.3	0.002	0.26	3.7	39	1.8	0.7	0.718	0.042	1.50
283077	0.1	0.4	2.3	0.3	0.4	8.8	0.021	0.08	4.5	23	1.7	0.8	0.777	0.109	1.58
283078	< 0.1	0.4	2.3	0.3	< 0.1	0.8	0.001	0.11	4.2	18	3.1	0.9	0.378	0.091	0.28
283079	0.3	0.3	2.0	0.3	0.1	3.8	0.008	0.12	3.6	20	3.1	0.9	0.494	0.062	0.52
283080	0.2	0.4	2.6	0.4	< 0.1	0.9	0.002	0.19	3.6	40	0.4	0.5	0.357	0.032	1.48
283081	0.1	0.4	2.5	0.3	< 0.1	1.9	0.002	0.83	3.5	41	0.8	0.6	0.389	0.033	1.53
283082	0.2	0.3	2.2	0.3	< 0.1	0.7	0.001	0.47	3.8	41	0.7	0.3	0.406	0.028	0.77
283083	0.2	0.4	2.5	0.3	< 0.1	0.8	0.001	0.22	4.8	36	2.9	0.8	0.285	0.027	0.36
283084	< 0.1	0.2	1.6	0.2	0.6	2.8	0.008	0.51	30.3	15	7.8	2.4	0.382	0.089	1.29
283085	0.2	0.4	2.7	0.4	< 0.1	0.6	0.001	0.26	5.6	38	1.1	0.5	0.324	0.033	0.48
283086	0.1	0.3	2.1	0.3	< 0.1	0.3	0.001	0.51	7.4	34	0.7	0.4	0.413	0.027	0.73
283087	0.1	0.3	2.3	0.3	< 0.1	0.3	0.001	0.58	6.9	39	0.6	0.2	0.573	0.031	0.96
283089	< 0.1	0.3	2.3	0.3	0.2	1.1	0.001	0.06	8.8	28	2.4	0.6	0.488	0.026	0.52
283090	< 0.1	0.4	2.7	0.4	0.6	1.6	0.002	0.24	3.1	6	6.8	1.7	0.175	0.014	< 0.01
283091	< 0.1	0.4	2.5	0.4	0.1	1.0	< 0.001	0.30	2.5	5	6.4	1.3	0.176	0.013	0.01
283092	< 0.1	0.3	2.3	0.3	0.7	1.8	< 0.001	0.34	2.5	6	5.8	2.1	0.189	0.017	0.37
283093	< 0.1	0.3	2.3	0.3	0.5	1.3	0.001	0.31	3.3	6	5.4	1.3	0.186	0.018	1.11
283094	< 0.1	0.3	2.3	0.3	0.9	1.7	0.001	0.31	3.6	5	5.7	1.1	0.388	0.018	1.03
283095	< 0.1	0.4	2.3	0.3	0.6	2.2	0.001	0.34	16.7	8	5.2	1.1	0.188	0.019	1.00
283096	< 0.1	0.5	3.5	0.5	0.1	0.3	< 0.001	0.48	15.3	20	4.2	1.5	0.325	0.147	0.13
283097	< 0.1	0.3	2.1	0.3	0.8	2.2	0.001	0.31	2.6	4	5.1	1.1	0.136	0.016	0.76
283098	< 0.1	0.4	2.4	0.3	0.6	2.3	0.001	0.34	5.2	17	5.0	1.2	0.391	0.091	2.23
283099	< 0.1	0.3	2.2	0.3	< 0.1	0.2	< 0.001	0.28	2.3	20	3.4	0.6	0.185	0.035	0.07
283100	0.3	0.4	2.3	0.3	0.4	1.1	0.001	0.16	2.0	20	2.8	0.7	0.382	0.038	0.06
283101	< 0.1	0.4	2.6	0.4	0.5	10.6	< 0.001	0.10	7.2	21	3.5	0.8	0.491	0.044	0.67
283102	< 0.1	0.4	2.5	0.4	0.1	0.8	0.003	0.11	5.2	20	3.4	1.8	0.276	0.042	0.16
283103	0.1	0.4	2.5	0.3	< 0.1	0.4	< 0.001	0.12	4.6	20	3.4	0.8	0.351	0.037	0.29
283104	< 0.1	0.4	2.5	0.3	< 0.1	0.3	< 0.001	0.22	4.9	20	3.5	1.0	0.216	0.038	0.23
283105	< 0.1	0.3	2.1	0.3	< 0.1	0.3	< 0.001	0.31	5.4	20	3.1	0.7	0.215	0.039	0.21
283106	< 0.1	0.3	2.4	0.3	< 0.1	< 0.1	< 0.001	0.18	2.3	19	3.2	0.8	0.228	0.039	0.10
283107	< 0.1	0.3	1.9	0.3	< 0.1	0.3	< 0.001	0.24	6.2	19	3.8	1.5	0.361	0.096	0.23
283138	0.1	0.3	2.2	0.3	< 0.1	1.3	0.001	0.17	8.1	43	0.5	0.1	0.461	0.031	0.92
283139	0.1	0.4	2.4	0.3	< 0.1	119	0.001	0.56	8.2	40	0.6	0.4	0.447	0.034	1.94
283140	0.2	0.4	2.4	0.3	< 0.1	5.2	0.001	0.15	11.4	42	0.4	0.1	0.438	0.035	0.62
283141	0.1	0.4	2.5	0.3	< 0.1	5.4	0.001	0.68	10.0	42	0.6	0.2	0.393	0.031	1.24

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
283142	0.3	0.3	2.0	0.3	0.2	42.9	0.001	0.86	9.7	27	2.4	1.4	0.468	0.031	1.67
283143	0.1	0.3	2.2	0.3	< 0.1	2.8	0.001	0.24	12.1	40	0.6	0.1	0.444	0.032	0.70
283144	0.1	0.4	2.7	0.4	0.4	4.1	0.003	0.06	9.7	37	1.3	0.3	0.705	0.041	0.79
283145	< 0.1	0.3	2.1	0.3	< 0.1	0.4	0.001	0.06	3.8	20	2.6	0.6	0.254	0.038	< 0.01
283146	< 0.1	0.2	1.1	0.2	0.7	1.0	< 0.001	0.29	12.2	5	15.1	1.9	0.205	0.012	0.02
283147	0.2	0.3	2.0	0.3	< 0.1	0.7	0.001	0.43	10.0	36	3.2	0.5	0.357	0.030	0.64
283148	< 0.1	0.6	3.6	0.5	< 0.1	0.3	0.001	0.48	14.8	21	3.9	1.5	0.347	0.151	0.14
283149	0.7	0.3	2.3	0.3	0.2	24.5	0.001	1.07	10.9	40	0.6	0.3	0.604	0.035	1.63
283150	0.4	0.3	2.3	0.3	0.3	44.9	< 0.001	0.71	10.0	37	1.1	0.4	0.623	0.034	1.31
283151	0.4	0.4	2.4	0.3	0.1	5.2	< 0.001	0.23	11.1	39	0.5	0.2	0.592	0.034	0.89
283152	0.2	0.4	2.5	0.3	< 0.1	0.9	< 0.001	0.20	11.7	41	1.4	0.2	0.407	0.034	0.54
283153	< 0.1	0.3	2.2	0.3	0.5	2.4	0.001	< 0.05	2.4	26	2.8	0.6	0.569	0.042	< 0.01
283154	0.1	0.4	2.6	0.4	< 0.1	0.2	0.001	0.22	13.4	46	0.5	0.2	0.353	0.037	0.59
283155	0.1	0.4	2.6	0.4	< 0.1	0.1	< 0.001	0.17	14.7	46	0.9	0.2	0.279	0.034	0.50
283156	< 0.1	0.2	1.4	0.2	0.4	0.5	< 0.001	0.07	17.0	12	8.3	1.7	0.209	0.023	0.08
283157	< 0.1	0.2	1.9	0.3	1.1	1.8	< 0.001	0.07	13.8	2	15.1	4.4	0.0688	0.004	0.06
283158	< 0.1	0.3	1.9	0.3	1.2	2.8	0.001	0.05	14.4	1	15.4	4.5	0.0643	0.005	0.20
283159	< 0.1	0.2	1.3	0.2	0.9	2.7	0.001	0.06	14.7	5	18.2	3.4	0.121	0.010	0.80
283160	0.2	0.3	2.3	0.3	1.4	4.2	0.003	1.01	27.4	15	20.3	5.6	0.499	0.098	0.36
283161	0.4	0.3	2.5	0.3	0.3	1.4	0.001	0.16	10.3	35	1.5	1.1	0.553	0.031	3.08
283162	0.1	0.4	2.7	0.4	< 0.1	0.2	0.001	0.18	11.4	45	0.6	0.3	0.483	0.038	1.26
283163	< 0.1	0.3	2.4	0.3	< 0.1	0.4	0.001	0.08	7.5	44	0.8	0.3	0.510	0.038	0.74
283209	< 0.1	0.5	3.4	0.4	< 0.1	< 0.1	0.001	< 0.05	5.1	38	0.7	0.4	0.291	0.035	0.58
283210	< 0.1	0.3	2.2	0.3	< 0.1	< 0.1	0.001	< 0.05	7.3	40	0.3	0.1	0.278	0.031	0.98
283211	0.1	0.4	2.4	0.3	< 0.1	< 0.1	0.001	< 0.05	3.8	43	0.5	0.2	0.376	0.030	1.03
283212	0.2	0.4	2.6	0.4	0.1	0.2	0.001	< 0.05	2.3	40	0.9	0.3	0.502	0.034	0.10
283213	0.1	0.3	2.5	0.4	0.1	0.3	0.001	< 0.05	2.1	23	2.5	0.5	0.391	0.036	< 0.01
283214	< 0.1	0.2	1.7	0.2	1.0	3.5	< 0.001	0.13	7.0	5	13.7	2.6	0.177	0.023	0.22
283215	< 0.1	0.2	1.1	0.2	0.7	3.1	< 0.001	0.18	6.8	5	6.6	1.3	0.196	0.025	0.21
283216	< 0.1	0.2	1.7	0.2	1.2	4.6	< 0.001	0.15	8.6	5	9.2	3.2	0.158	0.023	0.40
283217	< 0.1	0.2	1.5	0.2	1.2	1.9	< 0.001	0.08	10.5	3	10.8	3.0	0.129	0.015	1.08
283218	0.1	0.3	2.2	0.3	< 0.1	0.2	0.001	< 0.05	2.2	20	2.5	0.9	0.241	0.032	0.12
283219	< 0.1	0.4	2.6	0.4	< 0.1	0.2	0.001	< 0.05	5.0	44	0.5	0.2	0.454	0.039	1.68
283220	< 0.1	0.5	3.3	0.4	< 0.1	0.1	0.001	0.47	14.5	19	4.1	1.5	0.429	0.133	0.16
283221	0.2	0.4	2.7	0.3	0.3	0.4	< 0.001	< 0.05	3.2	39	1.1	0.3	0.634	0.045	0.33
283222	0.2	0.4	2.8	0.4	< 0.1	0.6	0.004	0.07	4.2	35	0.8	0.6	0.488	0.029	1.12
283223	< 0.1	0.2	1.2	0.2	0.9	0.4	< 0.001	< 0.05	7.4	3	12.0	2.3	0.102	0.009	0.09
283224	0.2	0.4	3.1	0.4	< 0.1	0.1	0.001	0.13	9.1	45	1.0	0.9	0.539	0.034	1.26
283225	0.3	0.3	2.3	0.3	0.2	1.0	< 0.001	0.25	6.2	36	0.9	0.5	0.522	0.027	0.34
283226	0.1	0.4	2.6	0.4	< 0.1	< 0.1	0.001	0.40	6.3	47	0.4	0.3	0.190	0.035	0.34
283227	0.7	0.3	2.0	0.3	< 0.1	0.8	0.001	0.37	5.1	42	0.3	0.3	0.431	0.022	0.82
283228	0.4	0.4	2.4	0.3	< 0.1	0.1	0.001	0.69	5.5	44	0.4	0.2	0.311	0.029	0.39

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
283229	0.5	0.3	2.3	0.3	< 0.1	0.4	0.001	0.94	6.1	44	0.3	0.2	0.531	0.027	0.75
283230	< 0.1	0.2	1.3	0.2	1.3	6.8	0.005	0.29	7.7	11	11.4	3.4	0.179	0.010	7.28
283231	0.4	0.3	2.3	0.3	0.2	11.1	0.001	0.64	8.4	43	0.5	0.2	0.661	0.030	1.29
283232	< 0.1	0.3	1.9	0.3	0.3	0.9	0.001	0.10	8.5	17	4.9	1.5	0.730	0.189	1.70
283233	0.1	0.3	2.3	0.3	< 0.1	< 0.1	0.001	0.13	11.9	39	5.9	0.7	0.328	0.029	0.36
283234	0.1	0.3	2.3	0.3	< 0.1	< 0.1	0.001	0.10	9.3	37	3.5	1.0	0.252	0.025	0.29
283235	< 0.1	0.2	1.4	0.2	0.9	0.3	< 0.001	0.08	12.6	5	19.2	3.6	0.0938	0.009	0.01
283236	0.3	0.4	2.5	0.4	< 0.1	0.1	< 0.001	< 0.05	9.8	42	1.3	0.1	0.493	0.032	0.10
283237	0.1	0.4	2.7	0.4	< 0.1	< 0.1	0.001	0.22	9.2	39	1.2	0.4	0.192	0.033	0.16
283238	< 0.1	0.1	0.9	0.1	0.7	< 0.1	< 0.001	< 0.05	9.9	5	14.1	2.2	0.151	0.014	< 0.01
283239	0.1	0.3	2.3	0.3	< 0.1	< 0.1	0.001	0.15	6.9	40	6.0	1.2	0.503	0.027	0.51
283240	0.3	0.2	1.5	0.2	1.3	0.7	< 0.001	< 0.05	8.1	8	9.9	3.1	0.142	0.010	0.02
283241	0.5	0.4	2.6	0.3	0.2	1.6	0.001	0.27	8.8	42	1.0	2.1	0.629	0.031	0.83
283242	0.6	0.4	2.5	0.4	0.2	2.1	0.001	0.34	9.1	41	0.6	0.2	0.687	0.031	0.76
283243	0.4	0.3	2.2	0.3	< 0.1	0.6	0.001	0.66	7.3	41	0.6	0.2	0.591	0.027	1.91
283244	< 0.1	0.6	3.6	0.5	< 0.1	< 0.1	0.001	0.51	14.6	20	4.2	1.7	0.334	0.152	0.15
283245	< 0.1	0.6	3.7	0.5	< 0.1	0.2	0.001	0.26	4.6	43	1.0	0.6	0.478	0.036	2.03
283246	< 0.1	0.4	2.6	0.4	0.2	2.7	0.001	0.19	5.6	35	2.7	0.9	0.638	0.034	2.28
283247	< 0.1	0.4	2.6	0.4	0.3	1.7	0.001	0.20	3.1	41	1.1	0.4	0.678	0.040	0.88
283248	< 0.1	0.4	2.7	0.4	< 0.1	< 0.1	0.004	< 0.05	3.4	40	1.5	0.4	0.364	0.035	0.68
283249	< 0.1	0.4	2.6	0.4	1.0	0.7	0.001	0.05	8.4	7	8.4	2.2	0.214	0.031	0.20
283250	< 0.1	0.4	2.4	0.4	0.9	1.8	< 0.001	0.09	6.5	7	8.4	2.1	0.209	0.032	0.16
283251	< 0.1	0.4	2.8	0.4	0.9	4.2	0.001	< 0.05	7.0	12	6.4	1.7	0.331	0.042	0.62
283252	0.5	0.3	2.1	0.3	0.1	5.2	0.002	< 0.05	7.7	42	0.4	0.3	0.603	0.028	2.62
283253	0.2	0.3	2.1	0.3	< 0.1	1.4	0.001	< 0.05	10.0	38	0.7	0.2	0.429	0.025	1.47
283254	< 0.1	0.3	2.0	0.3	< 0.1	0.2	< 0.001	< 0.05	9.3	40	1.3	0.4	0.412	0.058	2.51
283255	0.1	0.3	2.3	0.3	< 0.1	0.2	0.001	< 0.05	9.3	41	0.4	0.3	0.408	0.025	2.45
283256	0.4	0.3	2.3	0.3	0.9	2.9	0.003	0.94	25.4	15	16.4	4.9	0.480	0.099	0.38
283257	0.5	0.3	2.0	0.3	< 0.1	0.8	0.001	< 0.05	9.4	40	0.4	0.1	0.555	0.027	0.73
283258	0.3	0.4	2.5	0.4	< 0.1	0.1	0.001	< 0.05	10.2	44	0.5	0.1	0.487	0.033	0.28
283259	0.3	0.3	2.0	0.3	0.1	0.2	< 0.001	< 0.05	11.6	29	3.3	0.5	0.426	0.029	0.37
283260	0.2	0.4	2.9	0.4	0.2	0.3	0.002	< 0.05	3.8	41	1.8	0.5	0.605	0.042	0.44
283261	< 0.1	0.5	3.1	0.4	< 0.1	1.3	0.001	0.22	4.4	7	6.9	1.4	0.187	0.017	< 0.01
283262	< 0.1	0.5	3.1	0.4	0.7	0.4	< 0.001	0.32	5.0	6	7.0	1.6	0.186	0.018	0.02
283263	< 0.1	0.4	2.6	0.3	0.6	0.3	< 0.001	0.25	12.1	6	5.7	1.4	0.150	0.018	0.34
283264	< 0.1	0.4	2.7	0.4	0.7	0.3	0.001	0.30	9.9	6	6.1	1.5	0.165	0.016	0.84
283265	< 0.1	0.4	2.8	0.4	0.4	0.6	< 0.001	0.31	5.4	7	6.4	1.6	0.166	0.017	0.04
283266	< 0.1	0.5	3.0	0.4	0.2	< 0.1	< 0.001	0.33	4.9	6	6.5	1.5	0.103	0.018	0.03
283267	< 0.1	0.4	3.0	0.4	0.7	0.8	< 0.001	0.31	4.3	6	6.8	1.4	0.187	0.022	< 0.01
283268	< 0.1	0.5	3.3	0.5	0.6	0.1	0.001	0.49	14.9	19	3.9	1.3	0.763	0.163	0.14
283269	< 0.1	0.2	1.7	0.2	0.6	0.3	< 0.001	0.25	5.8	10	7.7	1.1	0.313	0.049	0.18
283270	< 0.1	0.2	1.2	0.2	0.2	< 0.1	< 0.001	0.26	5.7	9	6.0	0.9	0.280	0.051	0.30

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
283271	< 0.1	0.6	3.6	0.5	0.7	0.2	< 0.001	0.30	4.3	7	7.2	1.5	0.226	0.017	0.04
283272	< 0.1	0.4	2.4	0.4	0.6	0.1	< 0.001	0.25	5.4	8	5.3	1.2	0.205	0.017	0.12
283273	< 0.1	0.3	2.1	0.3	0.2	0.3	0.001	0.20	6.6	31	1.5	0.4	0.591	0.032	1.17
283274	< 0.1	0.4	2.9	0.4	0.8	< 0.1	< 0.001	0.17	6.2	10	8.1	1.4	0.246	0.017	0.24
283275	< 0.1	0.3	2.2	0.3	< 0.1	< 0.1	0.001	0.15	5.0	31	0.9	0.3	0.446	0.031	1.00
283276	< 0.1	0.3	2.4	0.3	0.4	0.1	< 0.001	0.17	4.6	17	4.4	0.9	0.332	0.025	0.33
283277	< 0.1	0.4	2.6	0.4	0.3	< 0.1	< 0.001	0.16	8.7	17	2.8	0.6	0.283	0.022	0.35
283278	< 0.1	0.1	0.5	0.1	< 0.1	< 0.1	0.001	< 0.05	7.3	3	0.2	< 0.1	0.0240	0.005	1.19
283279	< 0.1	0.1	0.8	0.1	< 0.1	< 0.1	0.001	< 0.05	6.4	4	0.2	0.1	0.0478	0.006	0.02
283280	< 0.1	0.2	1.6	0.2	0.7	2.7	0.008	0.50	27.4	17	8.4	2.4	0.398	0.095	1.35
283281	0.1	0.4	2.6	0.3	0.4	0.8	< 0.001	0.33	9.8	34	1.5	0.5	0.472	0.042	3.27
283282	0.2	0.4	2.3	0.3	0.2	1.2	< 0.001	0.34	5.9	39	1.1	0.5	0.523	0.041	1.16
283283	< 0.1	0.3	2.3	0.3	< 0.1	< 0.1	< 0.001	0.30	6.6	37	1.0	0.5	0.422	0.035	1.02
283284	< 0.1	0.4	2.6	0.3	0.5	0.5	0.001	0.24	4.1	14	4.5	1.1	0.257	0.023	0.10
283285	< 0.1	0.3	2.2	0.3	0.2	0.4	< 0.001	0.26	4.3	6	5.2	1.2	0.161	0.018	< 0.01
283286	< 0.1	0.4	2.5	0.4	0.4	0.6	< 0.001	0.36	6.1	6	6.9	1.6	0.151	0.018	0.17
283287	< 0.1	0.3	2.2	0.3	0.6	0.4	< 0.001	0.37	6.6	6	7.3	1.5	0.158	0.019	0.31
283288	< 0.1	0.3	2.4	0.3	0.6	0.6	< 0.001	0.39	6.6	6	7.4	1.5	0.163	0.019	0.18
283289	< 0.1	0.3	2.0	0.3	0.6	1.6	< 0.001	0.35	6.0	6	7.0	1.5	0.159	0.019	0.17
283290	< 0.1	0.3	2.3	0.3	0.8	0.6	< 0.001	0.39	8.4	7	7.6	2.6	0.185	0.022	0.35
283291	< 0.1	0.3	2.1	0.3	0.6	0.8	< 0.001	0.33	8.9	6	6.4	1.3	0.156	0.019	0.33
283292	< 0.1	0.5	3.4	0.5	0.6	0.1	< 0.001	0.50	13.8	20	4.4	1.4	0.597	0.154	0.13
283293	< 0.1	0.2	1.8	0.3	0.6	0.3	< 0.001	0.31	9.2	6	5.8	1.3	0.161	0.018	0.21
283294	< 0.1	0.2	1.7	0.2	0.6	0.6	< 0.001	0.38	10.6	6	6.4	1.4	0.150	0.018	0.18
283295	< 0.1	0.2	1.8	0.3	0.4	0.6	< 0.001	0.36	8.0	5	6.3	2.6	0.149	0.018	0.18
283296	< 0.1	0.2	2.0	0.3	0.4	0.4	< 0.001	0.42	15.6	6	7.1	1.4	0.171	0.018	0.05
283297	< 0.1	0.2	1.9	0.3	0.5	0.8	< 0.001	0.48	97.5	7	7.8	1.6	0.160	0.022	0.50
283298	< 0.1	0.2	1.9	0.3	0.6	1.9	< 0.001	0.40	14.9	6	7.4	1.5	0.182	0.021	0.09
283299	< 0.1	0.2	1.6	0.2	0.6	1.5	< 0.001	0.37	9.1	6	6.5	1.4	0.155	0.017	0.04
283300	< 0.1	0.2	1.5	0.2	1.1	1.5	< 0.001	0.38	12.5	4	14.6	18.0	0.0954	0.011	0.05
283301	< 0.1	0.2	1.7	0.2	0.6	0.8	< 0.001	0.35	5.0	6	6.5	1.3	0.157	0.016	0.03
283302	< 0.1	0.3	2.5	0.4	0.9	0.4	< 0.001	0.34	5.8	6	7.1	1.5	0.236	0.017	0.08
283303	< 0.1	0.3	2.0	0.3	0.8	0.6	< 0.001	0.39	6.7	6	6.5	1.4	0.182	0.018	0.29
283304	< 0.1	0.2	1.9	0.3	< 0.1	21.0	0.084	0.30	8.0	11	1.5	39.9	0.239	0.078	2.39
283305	< 0.1	0.2	2.0	0.3	0.9	2.4	0.001	0.42	7.8	6	7.5	1.5	0.174	0.018	0.02
283306	< 0.1	0.2	1.9	0.3	0.7	1.0	< 0.001	0.43	5.1	7	6.8	1.5	0.173	0.020	0.06
283307	< 0.1	0.3	2.0	0.3	0.6	1.1	0.001	0.46	6.1	7	7.0	1.5	0.157	0.020	0.32
283308	< 0.1	0.3	1.9	0.3	0.6	0.8	< 0.001	0.44	7.0	6	6.9	1.4	0.157	0.018	0.44
283309	< 0.1	0.3	1.9	0.3	0.6	0.3	0.001	0.41	6.3	7	6.8	1.4	0.170	0.019	0.20
283310	< 0.1	0.2	1.7	0.2	0.6	1.1	0.002	0.40	13.9	6	6.5	2.0	0.152	0.017	1.61
283311	< 0.1	0.3	1.8	0.3	0.7	0.4	0.001	0.40	18.3	6	7.2	1.6	0.157	0.015	0.13
283312	< 0.1	0.2	1.5	0.3	0.6	0.1	0.001	0.30	28.7	5	6.3	1.4	0.120	0.011	0.46

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
283313	< 0.1	0.2	1.6	0.3	0.7	0.1	0.001	0.31	6.1	6	6.9	1.5	0.124	0.012	1.38
283314	< 0.1	0.2	1.7	0.3	0.7	< 0.1	0.001	0.34	4.0	5	6.9	1.5	0.127	0.012	0.06
283315	< 0.1	0.2	1.6	0.3	0.6	< 0.1	0.001	0.37	4.2	8	6.1	1.3	0.185	0.018	0.18
283316	< 0.1	0.5	3.6	0.5	< 0.1	< 0.1	0.001	0.46	13.6	20	4.3	1.6	0.300	0.150	0.25
283317	< 0.1	0.2	1.6	0.2	0.6	0.3	< 0.001	0.38	6.2	7	6.7	1.4	0.190	0.019	0.14
283318	< 0.1	0.2	1.7	0.3	0.6	0.1	0.001	0.43	8.0	6	6.5	1.4	0.166	0.019	0.26
283319	< 0.1	0.2	1.8	0.3	0.7	0.3	< 0.001	0.44	5.8	6	6.7	1.4	0.175	0.020	0.14
283320	< 0.1	0.2	1.8	0.3	0.7	0.3	0.001	0.42	5.1	7	6.8	1.5	0.182	0.020	0.04
283321	< 0.1	0.2	1.5	0.2	0.9	0.2	< 0.001	0.36	5.5	5	6.6	2.1	0.160	0.018	0.10
283322	< 0.1	0.2	1.6	0.3	0.3	0.2	< 0.001	0.41	4.6	6	6.6	1.4	0.175	0.019	0.03
283323	< 0.1	0.2	1.6	0.2	0.4	< 0.1	< 0.001	0.39	5.1	6	6.5	1.4	0.168	0.017	0.02
283324	< 0.1	0.2	1.7	0.3	0.4	< 0.1	< 0.001	0.37	4.8	6	6.6	2.0	0.178	0.019	0.02
283325	< 0.1	0.3	1.7	0.3	0.9	0.5	< 0.001	0.31	4.6	6	6.7	1.4	0.173	0.014	0.05
283326	< 0.1	0.2	1.6	0.2	0.6	< 0.1	< 0.001	0.28	10.5	5	6.3	1.4	0.144	0.016	0.22
283327	< 0.1	0.2	1.7	0.2	0.6	< 0.1	< 0.001	0.26	6.7	6	6.1	1.3	0.146	0.018	0.05
283328	< 0.1	0.3	1.7	0.2	< 0.1	< 0.1	0.001	0.11	7.0	17	4.5	1.3	0.528	0.179	1.61
283329	< 0.1	0.2	1.6	0.3	0.7	< 0.1	< 0.001	0.27	4.7	6	6.0	1.3	0.172	0.018	0.02
283330	< 0.1	0.2	1.6	0.3	0.8	0.3	< 0.001	0.36	3.2	6	6.4	1.4	0.179	0.019	< 0.01

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
GXR-1 Meas	8.1	0.05	0.24	2.40	0.05	0.92	2.8	77	11.5	928	24.6	0.5	2810	38.1		1.0		37.7	2.39	7.8	0.60	1270	11.9
GXR-1 Cert	8.20	0.0520	0.217	3.52	0.050	0.960	3.30	80.0	12.0	852	23.6	0.960	3900	41.0		1.22		31.0	3.00	8.20	0.690	1380	16.6
GXR-1 Meas	7.8	0.05	0.23	2.23	0.05	0.86	2.6	84	12.2	898	24.4	0.6	640	36.8		0.9		37.4	2.77	7.9	0.60	1320	11.8
GXR-1 Cert	8.20	0.0520	0.217	3.52	0.050	0.960	3.30	80.0	12.0	852	23.6	0.960	3900	41.0		1.22		31.0	3.00	8.20	0.690	1380	16.6
DH-1a Meas																							
DH-1a Cert																							
DH-1a Meas																							
DH-1a Cert																							
GXR-4 Meas	10.5	0.49	1.57	6.10	3.39	0.96	0.4	80	40.3	163	3.14	1.2	< 10	36.7		2.1		3.25	2.38	13.8	1.30	19.1	3.5
GXR-4 Cert	11.1	0.564	1.66	7.20	4.01	1.01	0.860	87.0	64.0	155	3.09	6.30	110	42.0		1.90		4.00	2.80	14.6	1.63	19.0	5.60
GXR-4 Meas	11.3	0.51	1.75	6.76	4.00	0.98	0.3	95	52.2	173	3.21	1.2	< 10	40.5		2.1		3.49	2.74	15.4	1.30	20.1	4.2
GXR-4 Cert	11.1	0.564	1.66	7.20	4.01	1.01	0.860	87.0	64.0	155	3.09	6.30	110	42.0		1.90		4.00	2.80	14.6	1.63	19.0	5.60
SDC-1 Meas	33.6	1.45	0.82	7.66	2.17	0.92		50	51.0	903	4.91	1.2	30	32.7	3.1	3.0	1.2		3.95	17.1	1.40		
SDC-1 Cert	34.00	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70		
SDC-1 Meas	34.5	1.47	1.01	7.88	2.17	0.94		35	36.9	815	4.68	0.7	< 10	32.2	3.1	3.0	1.2		4.11	16.2	1.40		
SDC-1 Cert	34.00	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70		
GXR-6 Meas	37.0	0.10	0.67	> 10.0	1.47	0.19	0.1	167	58.5	1070	5.30	2.9	90	22.0		1.1		0.17	3.90	12.6	0.60	0.19	< 0.1
GXR-6 Cert	32.0	0.104	0.609	17.7	1.87	0.180	1.00	186	96.0	1010	5.58	4.30	68.0	27.0		1.40		1.30	4.20	13.8	0.760	0.290	0.940
GXR-6 Meas	39.7	0.11	0.65	> 10.0	2.09	0.22	< 0.1	168	63.8	1020	5.52	2.4	< 10	24.5		1.2		0.13	4.18	14.0	0.60	0.21	< 0.1
GXR-6 Cert	32.0	0.104	0.609	17.7	1.87	0.180	1.00	186	96.0	1010	5.58	4.30	68.0	27.0		1.40		1.30	4.20	13.8	0.760	0.290	0.940
DNC-1a Meas	4.4							142	253					248						53.2	0.50		
DNC-1a Cert	5.2							148	270					247						57	0.59		
DNC-1a Meas	4.5							158	143					195						42.1	0.50		
DNC-1a Cert	5.2							148	270					247						57	0.59		
SBC-1 Meas	153						0.3	196	76.6			3.1		80.0	3.1	3.1	1.1		7.40	20.7	1.80	0.76	
SBC-1 Cert	163.0						0.40	220.0	109			3.7		82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70	
SBC-1 Meas	160						0.3	231	112			3.5		84.4	3.2	3.3	1.2		8.38	22.8	1.70	0.74	
SBC-1 Cert	163.0						0.40	220.0	109			3.7		82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70	
OREAS 45d (4-Acid) Meas	20.9	0.10	0.26	8.14	0.48	0.18		89	501	572	14.2	1.4		226	1.3	0.8	0.5		3.78	28.4	0.60	0.38	
OREAS 45d (4-Acid) Cert	21.5	0.101	0.245	8.150	0.412	0.185		235.0	549	490.000	14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31	
OREAS 45d (4-Acid) Meas	21.3	0.09	0.26	7.64	0.47	0.18		111	550	525	14.6	1.9		235	1.2	0.7	0.5		4.02	30.6	0.60	0.39	
OREAS 45d (4-Acid) Cert	21.5	0.101	0.245	8.150	0.412	0.185		235.0	549	490.000	14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31	
SdAR-M2 (U.S.G.S.) Meas	17.1						5.5	22	44.3			2.9	920	46.8	2.4	6.8	0.9		1.57	12.7	1.30	1.09	
SdAR-M2 (U.S.G.S.) Cert	17.9						5.1	25.2	49.6			7.29	1440.00	48.8	3.58	6.6	1.21		1.82	12.4	1.44	1.05	
SdAR-M2 (U.S.G.S.) Meas	18.5						5.6	27	49.5			3.4	100	49.7	2.6	7.1	0.9		1.72	13.8	1.20	1.13	
SdAR-M2 (U.S.G.S.) Cert	17.9						5.1	25.2	49.6			7.29	1440.00	48.8	3.58	6.6	1.21		1.82	12.4	1.44	1.05	

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
283069 Orig	11.8	1.42	2.57	6.10	0.99	5.51	< 0.1	129	17.6	861	5.47	2.1	150	22.7	1.7	1.1	0.6	0.27	0.21	18.9	1.30	0.20	< 0.1
283069 Dup	11.8	1.47	2.57	6.21	0.99	5.63	< 0.1	131	18.2	877	5.50	2.1	80	23.4	1.8	1.2	0.7	0.13	0.20	19.1	1.30	0.17	< 0.1
283098 Orig	16.7	0.89	4.04	6.66	1.37	3.64	< 0.1	127	69.6	791	6.95	3.7	< 10	40.8	2.4	1.2	0.9	< 0.05	0.67	38.5	1.60	0.61	< 0.1
283098 Dup	16.9	0.91	4.12	6.78	1.21	3.62	< 0.1	128	63.7	753	6.98	3.4	< 10	40.6	2.4	1.2	0.9	< 0.05	0.68	38.5	1.60	0.63	< 0.1
283100 Split Orig PREP DUP	18.3	1.74	4.61	7.36	0.76	1.14	< 0.1	69	69.3	625	5.01	1.8	< 10	48.5	2.2	1.0	0.8	< 0.05	0.31	22.0	0.90	0.06	< 0.1
283100 Split PREP DUP	18.5	1.80	4.58	7.23	0.74	1.18	< 0.1	69	69.7	640	5.02	1.7	40	47.3	2.2	1.1	0.8	0.19	0.35	22.0	0.90	0.09	< 0.1
283107 Orig	18.1	1.33	4.57	6.65	0.62	3.62	< 0.1	143	165	875	5.27	2.5	50	71.4	1.9	1.6	0.7	0.20	0.61	27.7	1.20	0.23	< 0.1
283107 Dup	18.2	1.32	4.53	6.62	0.63	3.67	< 0.1	124	160	849	5.25	2.2	30	68.9	1.9	1.5	0.7	0.05	0.61	27.5	1.20	0.21	< 0.1
283139 Orig	9.3	0.69	4.14	7.50	0.80	5.00	< 0.1	218	160	922	9.89	0.5	< 10	104	2.4	1.1	0.9	0.22	2.12	47.3	1.20	1.00	1.1
283139 Dup	9.6	0.73	4.30	7.84	0.82	5.07	< 0.1	253	165	946	10.0	0.6	< 10	105	2.5	1.1	0.9	0.25	2.20	47.4	1.20	1.00	1.1
283150 Split Orig PREP DUP	9.2	1.16	3.79	7.66	0.83	5.17	0.2	267	146	1160	8.32	0.9	< 10	88.3	2.2	1.0	0.8	0.28	2.18	38.6	0.90	0.88	0.1
283150 Split PREP DUP	9.4	1.17	3.87	7.73	0.85	5.29	0.1	276	148	1170	8.51	0.9	< 10	89.1	2.2	1.1	0.8	0.28	2.14	40.3	0.90	0.93	0.2
283219 Orig	10.8	0.63	4.80	6.74	0.04	4.34	0.2	242	93.8	910	9.74	0.5	40	62.4	2.6	0.7	0.9	0.60	0.12	47.0	1.40	1.31	< 0.1
283219 Dup	11.0	0.64	4.89	7.08	0.04	4.32	0.3	258	95.0	960	9.90	0.5	30	65.4	2.7	0.6	0.9	0.52	0.10	48.4	1.40	1.31	< 0.1
283224 Orig	4.7	0.20	3.10	6.84	0.19	5.57	0.9	219	79.3	848	9.77	0.7	< 10	39.9	2.9	0.7	1.0	1.19	0.60	41.7	1.00	2.28	< 0.1
283224 Dup	4.9	0.21	3.23	7.33	0.21	5.93	1.0	292	98.0	902	10.3	0.9	< 10	41.3	3.0	0.6	1.1	1.78	0.59	43.8	1.00	2.35	0.2
283250 Split Orig PREP DUP	4.0	> 3.00	0.52	6.94	0.77	1.17	< 0.1	26	15.1	283	2.43	4.2	< 10	5.9	2.4	1.2	0.9	< 0.05	0.20	4.6	1.00	0.22	< 0.1
283250 Split PREP DUP	4.0	> 3.00	0.54	7.05	0.76	1.19	< 0.1	20	17.5	337	2.45	3.9	< 10	5.6	2.3	1.3	0.8	< 0.05	0.20	4.8	1.00	0.20	< 0.1
283254 Orig	10.0	1.75	3.81	6.90	0.02	6.55	0.1	254	79.0	1260	9.14	0.6	< 10	49.0	2.0	0.7	0.7	0.17	0.10	48.6	1.00	1.60	< 0.1
283254 Dup	9.6	1.72	3.69	6.62	0.02	6.25	< 0.1	236	83.0	1230	8.82	0.6	< 10	49.3	2.0	0.6	0.7	0.12	0.11	47.6	1.00	1.56	< 0.1
283265 Orig	9.6	0.21	2.07	6.94	2.00	0.14	< 0.1	26	6.5	395	2.53	5.3	< 10	3.3	2.7	1.0	1.0	0.08	0.48	4.1	0.60	0.07	< 0.1
283265 Dup	9.5	0.22	2.05	6.83	2.32	0.13	< 0.1	25	7.5	412	2.54	5.2	50	2.7	2.7	0.9	1.0	0.08	0.54	4.2	0.60	0.08	< 0.1
283267 Orig	13.5	0.14	2.57	6.69	2.33	0.99	0.1	29	19.8	553	2.72	5.4	< 10	5.4	3.0	1.0	1.1	< 0.05	0.50	6.5	0.80	0.06	< 0.1
283267 Dup	13.8	0.15	2.64	6.96	2.72	1.02	0.2	30	10.5	555	2.70	5.4	< 10	5.0	2.9	1.0	1.1	< 0.05	0.50	6.6	0.80	0.06	< 0.1
283294 Orig	9.1	0.12	1.70	6.47	2.18	0.07	< 0.1	20	10.3	321	2.27	4.9	< 10	3.8	1.4	0.9	0.5	0.24	0.53	6.4	0.60	0.18	< 0.1
283294 Dup	9.1	0.12	1.73	6.80	2.47	0.08	< 0.1	21	9.4	340	2.39	5.2	40	3.3	1.4	1.0	0.5	0.19	0.56	5.9	0.60	0.20	< 0.1
283300 Split Orig PREP DUP	9.5	0.75	2.05	7.01	2.46	0.21	0.6	15	8.1	487	2.51	4.3	< 10	2.7	1.4	1.2	0.5	0.29	0.50	5.0	0.40	0.05	< 0.1
283300 Split PREP DUP	9.4	0.73	2.05	7.04	2.23	0.22	0.6	15	6.1	489	2.45	4.3	< 10	2.7	1.4	1.1	0.5	0.22	0.45	4.9	0.40	0.04	< 0.1
283319 Orig	9.8	0.10	2.46	6.67	2.37	0.05	< 0.1	21	8.3	520	2.85	5.5	< 10	3.7	1.4	1.0	0.5	0.22	0.38	8.9	0.70	0.15	1.0
283319 Dup	9.7	0.10	2.41	6.51	2.30	0.05	< 0.1	22	7.6	524	2.78	5.7	40	4.1	1.5	1.0	0.6	0.28	0.35	9.1	0.70	0.14	1.1
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 0.5	< 0.01	< 0.01	0.02	< 0.01	< 0.01	< 0.1	< 1	4.0	10	0.02	0.1	30	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	0.03	< 0.1
Method Blank																							

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Method Blank	< 0.5	< 0.01	< 0.01	0.03	< 0.01	0.01	< 0.1	2	6.6	8	0.01	< 0.1	30	< 0.5	< 0.1	< 0.1	< 0.1	0.09	< 0.05	< 0.1	< 0.05	0.04	< 0.1
Method Blank																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
GXR-1 Meas	745	0.5	447	2.5	28.2	307	18	0.7	17.2	1.0	27	28.5	8.0	710	8.3	15.0		8.4	2.4	3.8	0.7	4.5	1240
GXR-1 Cert	760	13.8	427	14.0	32.0	275	38.0	0.800	18.0	0.770	54.0	122	13.0	750	7.50	17.0		18.0	2.70	4.20	0.830	4.30	1110
GXR-1 Meas	739	0.9	429	2.3	28.7	286	20	0.8	17.0	0.9	26	35.2	8.0	729	8.2	14.9		8.6	2.6	3.8	0.7	4.3	1200
GXR-1 Cert	760	13.8	427	14.0	32.0	275	38.0	0.800	18.0	0.770	54.0	122	13.0	750	7.50	17.0		18.0	2.70	4.20	0.830	4.30	1110
DH-1a Meas																							
DH-1a Cert																							
DH-1a Meas																							
DH-1a Cert																							
GXR-4 Meas	61.6	13.5	104	109	12.5	207	38	8.6	308	0.2	7	4.9	0.9	247	61.2	107		38.7	5.8	4.1	0.5	2.4	5760
GXR-4 Cert	73.0	20.0	98.0	160	14.0	221	186	10.0	310	0.270	5.60	4.80	0.970	1640	64.5	102		45.0	6.60	5.25	0.360	2.60	6520
GXR-4 Meas	69.2	14.1	109	115	13.5	209	39	8.2	321	0.3	7	5.0	1.0	322	63.6	107		41.3	6.0	4.1	0.5	2.6	6160
GXR-4 Cert	73.0	20.0	98.0	160	14.0	221	186	10.0	310	0.270	5.60	4.80	0.970	1640	64.5	102		45.0	6.60	5.25	0.360	2.60	6520
SDC-1 Meas	93.1	12.3	< 0.1	81.5		165	44	3.8			< 1	< 0.1		613	42.0	84.9		38.5	6.5	6.8	1.0	5.5	30.7
SDC-1 Cert	103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70	30.000
SDC-1 Meas	95.8	13.6	< 0.1	71.9		166	22	1.4			< 1	< 0.1		603	42.7	83.7		37.4	6.7	6.6	0.9	5.4	31.0
SDC-1 Cert	103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70	30.000
GXR-6 Meas	113	10.4	309	58.3	11.1	37.9	99	4.5	2.16	< 0.1	1	2.5	0.4	1390	13.4	33.3		12.0	2.0	2.2	0.3	2.0	64.8
GXR-6 Cert	118	35.0	330	90.0	14.0	35.0	110	7.50	2.40	0.260	1.70	3.60	0.0180	1300	13.9	36.0		13.0	2.67	2.97	0.415	2.80	66.0
GXR-6 Meas	122	13.2	307	68.9	12.0	42.7	88	2.6	1.69	< 0.1	1	0.7	0.2	1540	13.4	33.4		12.2	2.1	2.0	0.3	2.0	73.6
GXR-6 Cert	118	35.0	330	90.0	14.0	35.0	110	7.50	2.40	0.260	1.70	3.60	0.0180	1300	13.9	36.0		13.0	2.67	2.97	0.415	2.80	66.0
DNC-1a Meas	58.4	12.6		2.9	15.6	137	41	2.3				0.7		97	3.9			4.7					100
DNC-1a Cert	70	15		5	18.0	144	38.0	3				0.96		118	3.6			5.20					100
DNC-1a Meas	60.6	12.0		3.0	15.8	140	41	2.6				1.0		100	3.9			4.6					81.8
DNC-1a Cert	70	15		5	18.0	144	38.0	3				0.96		118	3.6			5.20					100
SBC-1 Meas	178	15.5	25.5	110	29.1	170	111	11.0	4.97		3	1.2		728	52.0	102	12.6	45.0	7.4	7.0	1.0	5.7	31.8
SBC-1 Cert	186.0	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10	31.0000
SBC-1 Meas	196	16.4	27.4	120	31.5	177	128	15.1	3.14		5	1.2		801	54.4	106	12.8	47.5	8.1	7.5	1.0	5.9	37.8
SBC-1 Cert	186.0	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10	31.0000
OREAS 45d (4-Acid) Meas	42.2	19.8	7.3	36.2	11.1	30.9	49	1.2	0.89	< 0.1	< 1	< 0.1		182	18.4	37.6	4.0	14.1	2.6	2.5	0.3	2.2	399
OREAS 45d (4-Acid) Cert	45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26	371
OREAS 45d (4-Acid) Meas	44.9	19.9	8.7	35.7	11.1	28.7	62	1.5	1.19	< 0.1	< 1	< 0.1		185	17.9	35.8	4.0	13.9	2.5	2.4	0.3	2.1	408
OREAS 45d (4-Acid) Cert	45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26	371
SdAR-M2 (U.S.G.S.) Meas	737	3.4		76.4	23.2	129	98	15.5	11.9					917	46.5	94.0	10.7	36.3	5.5	5.1	0.7	4.3	248
SdAR-M2 (U.S.G.S.) Cert	760	17.6		149	32.7	144	259	26.2	13.3					990	46.6	98.8	11.0	39.4	7.18	6.28	0.97	5.88	236.00 00
SdAR-M2 (U.S.G.S.) Meas	775	5.4		74.0	24.5	143	118	15.5	13.0					983	48.8	95.2	10.9	37.9	5.7	4.9	0.7	4.4	274

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
SdAR-M2 (U.S.G.S.) Cert	760	17.6		149	32.7	144	259	26.2	13.3					990	46.6	98.8	11.0	39.4	7.18	6.28	0.97	5.88	236.0000
283069 Orig	50.7	14.7	12.8	22.6	19.2	156	75	4.8	2.45	< 0.1	5	0.2	0.6	294	30.0	60.5	7.4	27.5	4.2	4.2	0.5	3.0	21.6
283069 Dup	51.4	14.7	3.4	22.7	19.5	160	78	5.1	1.29	< 0.1	5	0.2	0.3	302	30.6	61.2	7.7	28.0	4.6	4.1	0.6	3.1	19.7
283098 Orig	69.7	14.4	1.6	35.0	25.7	55.3	140	7.2	5.00	< 0.1	32	0.1	0.2	319	31.9	60.3	7.6	28.4	5.2	5.2	0.7	4.1	160
283098 Dup	68.9	15.5	0.9	34.7	26.9	55.6	126	6.3	4.80	< 0.1	32	0.5	0.1	193	31.9	60.8	7.7	28.9	5.3	5.1	0.8	4.2	158
283100 Split Orig PREP DUP	76.8	15.5	< 0.1	18.5	23.2	43.2	64	0.8	0.86	< 0.1	2	< 0.1	< 0.1	272	16.9	32.9	4.0	14.8	3.0	3.5	0.6	3.6	14.9
283100 Split PREP DUP	75.3	15.5	< 0.1	18.3	23.6	44.6	64	0.6	0.96	< 0.1	< 1	< 0.1	0.8	272	16.9	32.9	4.1	15.1	2.9	3.6	0.6	3.6	13.8
283107 Orig	76.1	15.0	1.5	20.3	20.4	116	100	1.5	1.61	< 0.1	3	< 0.1	0.7	139	22.7	44.3	5.5	21.4	4.2	4.2	0.6	3.4	59.2
283107 Dup	74.9	15.0	0.7	20.2	20.2	112	95	1.5	0.70	< 0.1	3	< 0.1	0.3	137	22.6	44.0	5.6	21.3	4.1	4.3	0.6	3.4	56.4
283139 Orig	116	19.1	0.3	38.5	24.2	123	15	1.4	0.40	0.1	19	< 0.1	0.2	34	6.8	14.8	2.1	9.0	2.4	3.3	0.6	3.9	471
283139 Dup	117	19.4	0.4	38.9	25.0	126	19	1.6	0.38	0.1	20	< 0.1	0.2	36	7.6	15.6	2.1	9.2	2.5	3.4	0.6	4.0	492
283150 Split Orig PREP DUP	108	16.8	4.3	39.0	21.5	109	26	3.1	0.61	0.1	41	0.3	0.2	47	6.0	13.7	2.0	8.3	2.3	2.8	0.5	3.4	285
283150 Split PREP DUP	112	17.2	2.9	40.0	21.6	113	26	3.0	0.47	0.1	42	0.2	< 0.1	47	6.0	13.7	1.9	8.4	2.4	3.0	0.5	3.4	299
283219 Orig	84.9	19.2	3.1	1.4	25.1	103	17	0.7	0.98	0.1	18	< 0.1	0.7	8	6.5	14.3	2.1	9.4	2.7	3.7	0.6	4.0	454
283219 Dup	85.3	19.8	3.0	1.5	25.6	104	17	1.0	0.80	0.1	20	< 0.1	0.3	8	6.6	14.6	2.2	9.6	2.6	3.7	0.6	4.1	468
283224 Orig	73.3	22.7	0.2	8.2	27.2	239	22	0.9	0.14	0.3	14	< 0.1	< 0.1	28	5.8	12.9	1.9	8.6	2.5	3.7	0.7	4.3	1720
283224 Dup	74.1	24.2	< 0.1	8.9	28.6	250	25	1.0	0.17	0.3	15	< 0.1	< 0.1	28	6.1	13.8	2.0	9.1	2.7	3.8	0.7	4.5	1790
283250 Split Orig PREP DUP	16.0	11.2	< 0.1	13.8	24.5	73.2	146	9.8	3.40	< 0.1	5	0.1	< 0.1	430	42.1	81.5	9.7	33.7	5.2	4.8	0.7	4.1	31.1
283250 Split PREP DUP	16.1	11.5	< 0.1	13.6	23.9	72.8	118	3.2	1.57	< 0.1	5	< 0.1	< 0.1	431	41.1	80.8	9.3	32.4	5.2	5.1	0.7	4.0	31.1
283254 Orig	106	17.0	< 0.1	0.6	19.4	203	19	0.5	0.22	< 0.1	16	< 0.1	0.2	5	11.3	24.5	3.5	14.0	3.0	3.4	0.5	3.2	73.4
283254 Dup	106	16.5	< 0.1	0.5	18.8	205	19	0.5	0.14	< 0.1	14	< 0.1	< 0.1	4	10.9	23.7	3.2	13.5	3.0	3.2	0.5	3.2	74.7
283265 Orig	139	10.7	< 0.1	40.3	27.2	17.9	169	6.4	1.65	< 0.1	3	< 0.1	< 0.1	427	32.2	60.2	6.9	23.8	4.1	4.2	0.7	4.2	37.6
283265 Dup	137	10.6	0.4	42.9	27.1	20.6	164	6.6	2.24	< 0.1	4	0.1	0.9	449	33.4	61.5	7.2	25.0	4.2	4.6	0.8	4.3	37.9
283267 Orig	219	9.9	< 0.1	40.3	33.0	18.4	178	6.9	1.54	< 0.1	3	< 0.1	0.2	457	34.3	65.3	7.5	25.8	4.2	4.8	0.8	4.9	14.2
283267 Dup	220	11.0	< 0.1	46.3	32.1	18.5	173	7.3	1.49	< 0.1	3	< 0.1	0.2	441	34.3	65.0	7.3	26.0	4.8	4.7	0.8	4.8	15.3
283294 Orig	124	11.6	0.3	44.7	15.0	13.4	170	6.7	1.48	< 0.1	3	0.1	< 0.1	340	32.3	62.1	7.0	23.9	3.9	4.0	0.5	2.8	104
283294 Dup	132	11.4	< 0.1	43.9	14.4	14.9	168	5.6	1.91	< 0.1	3	0.2	0.7	367	32.3	62.6	7.1	23.6	4.0	4.0	0.5	2.8	100
283300 Split Orig PREP DUP	232	10.4	< 0.1	44.2	13.2	19.6	118	5.5	1.44	< 0.1	7	0.1	< 0.1	386	16.6	32.0	3.7	12.2	2.3	2.3	0.5	2.6	359
283300 Split PREP DUP	243	10.3	< 0.1	39.9	13.7	20.0	119	6.0	1.79	< 0.1	7	< 0.1	< 0.1	375	16.3	31.6	3.6	12.2	2.3	2.7	0.4	2.7	361
283319 Orig	106	12.4	< 0.1	42.3	14.4	12.1	177	7.8	1.71	< 0.1	3	0.1	< 0.1	328	31.4	62.8	7.3	23.8	4.7	4.2	0.6	2.9	198
283319 Dup	105	12.3	< 0.1	41.0	15.1	14.3	187	7.6	2.78	< 0.1	3	0.1	0.9	333	32.6	62.0	7.7	25.1	4.2	4.1	0.6	3.0	204
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Method Blank	0.5	< 0.1	0.1	< 0.2	< 0.1	< 0.2	2	0.1	0.07	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Method Blank																							
Method Blank	< 0.2	0.3	< 0.1	0.2	< 0.1	0.3	< 1	0.1	0.17	< 0.1	< 1	< 0.1	< 0.1	< 1	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.6
Method Blank																							

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas		0.3	2.2	0.3	< 0.1	108		0.41	734	2	2.8	32.4	0.0274	0.058	0.24
GXR-1 Cert		0.430	1.90	0.280	0.175	164		0.390	730	1.58	2.44	34.9	0.036	0.0650	0.257
GXR-1 Meas		0.3	2.2	0.3	< 0.1	136		0.74	732	2	2.7	33.1	0.0275	0.059	0.25
GXR-1 Cert		0.430	1.90	0.280	0.175	164		0.390	730	1.58	2.44	34.9	0.036	0.0650	0.257
DH-1a Meas											> 500	1980			
DH-1a Cert											910	2629			
DH-1a Meas											> 500	2070			
DH-1a Cert											910	2629			
GXR-4 Meas		0.2	1.0	0.1	0.6	31.6		3.09	49.5	8	18.6	5.4	0.290	0.130	1.78
GXR-4 Cert		0.210	1.60	0.170	0.790	30.8		3.20	52.0	7.70	22.5	6.20	0.29	0.120	1.77
GXR-4 Meas		0.2	1.0	0.1	0.6	34.2		3.14	54.1	8	19.1	5.7	0.285	0.132	1.81
GXR-4 Cert		0.210	1.60	0.170	0.790	30.8		3.20	52.0	7.70	22.5	6.20	0.29	0.120	1.77
SDC-1 Meas		0.4	3.0		0.2	< 0.1		0.66	24.5	17	15.1	2.7	0.0972	0.053	
SDC-1 Cert		0.65	4.00		1.20	0.80		0.70	25.00	17.00	12.00	3.10	0.606	0.0690	
SDC-1 Meas		0.4	3.1		< 0.1	< 0.1		0.63	25.1		13.2	3.7			
SDC-1 Cert		0.65	4.00		1.20	0.80		0.70	25.00		12.00	3.10			
GXR-6 Meas			1.5	0.2	0.3	1.0		2.01	98.9	26	5.3	1.4		0.036	0.02
GXR-6 Cert			2.40	0.330	0.485	1.90		2.20	101	27.6	5.30	1.54		0.0350	0.0160
GXR-6 Meas			1.6	0.2	0.1	0.1		2.12	107	25	5.3	1.4		0.036	0.02
GXR-6 Cert			2.40	0.330	0.485	1.90		2.20	101	27.6	5.30	1.54		0.0350	0.0160
DNC-1a Meas			1.8						5.9	31			0.278		
DNC-1a Cert			2.0						6.3	31			0.29		
DNC-1a Meas			1.9						6.6	32			0.291		
DNC-1a Cert			2.0						6.3	31			0.29		
SBC-1 Meas		0.4	3.2	0.4	0.7	1.4		0.90	35.6	21	15.7	5.3	0.487		
SBC-1 Cert		0.56	3.64	0.54	1.10	1.60		0.89	35.0	20.0	15.8	5.76	0.51		
SBC-1 Meas		0.5	3.3	0.5	1.2	1.7		0.92	38.6	21	15.9	5.6	0.529		
SBC-1 Cert		0.56	3.64	0.54	1.10	1.60		0.89	35.0	20.0	15.8	5.76	0.51		
OREAS 45d (4-Acid) Meas			1.4	0.2	0.1	0.6		0.26	21.7	55	15.1	2.7	0.169	0.033	0.04
OREAS 45d (4-Acid) Cert			1.33	0.18	1.02	1.62		0.27	21.8	49.30	14.5	2.63	0.773	0.042	0.049
OREAS 45d (4-Acid) Meas			1.4	0.2	0.1	0.6		0.26	23.1		14.9	2.8			
OREAS 45d (4-Acid) Cert			1.33	0.18	1.02	1.62		0.27	21.8		14.5	2.63			
SdAR-M2 (U.S.G.S.) Meas		0.4	2.6	0.4	0.8	2.0			757	5	13.4	2.4			
SdAR-M2 (U.S.G.S.) Cert		0.54	3.63	0.54	1.8	2.8			808	4.1	14.2	2.53			
SdAR-M2 (U.S.G.S.) Meas		0.4	2.7	0.4	0.9	1.0			773	5	13.9	2.5			
SdAR-M2 (U.S.G.S.) Cert		0.54	3.63	0.54	1.8	2.8			808	4.1	14.2	2.53			

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
283069 Orig	< 0.1	0.3	1.8	0.3	0.3	3.0	< 0.001	0.15	3.4	17	4.5	1.1	0.305	0.105	0.11
283069 Dup	< 0.1	0.3	1.8	0.3	0.3	2.9	< 0.001	0.13	4.3	17	4.6	1.1	0.303	0.105	0.10
283098 Orig	< 0.1	0.4	2.4	0.3	0.6	2.7	0.001	0.34	5.5	17	5.1	1.2	0.390	0.092	2.24
283098 Dup	< 0.1	0.4	2.4	0.3	0.6	2.0	0.001	0.35	4.9	17	4.9	1.2	0.391	0.091	2.22
283100 Split Orig PREP DUP	0.3	0.4	2.3	0.3	0.4	1.1	0.001	0.16	2.0	20	2.8	0.7	0.382	0.038	0.06
283100 Split PREP DUP	< 0.1	0.4	2.3	0.3	< 0.1	0.7	0.001	0.19	2.2	20	2.9	0.7	0.149	0.036	0.06
283107 Orig	< 0.1	0.3	1.9	0.3	< 0.1	0.4	< 0.001	0.24	6.2	19	3.8	1.5	0.400	0.097	0.24
283107 Dup	< 0.1	0.3	1.9	0.3	< 0.1	0.1	< 0.001	0.24	6.2	19	3.7	1.5	0.323	0.095	0.23
283139 Orig	0.1	0.4	2.4	0.3	< 0.1	115	0.001	0.54	8.1	40	0.6	0.4	0.422	0.034	1.95
283139 Dup	0.1	0.4	2.4	0.3	< 0.1	124	0.001	0.58	8.3	40	0.6	0.4	0.471	0.033	1.94
283150 Split Orig PREP DUP	0.4	0.3	2.3	0.3	0.3	44.9	< 0.001	0.71	10.0	37	1.1	0.4	0.623	0.034	1.31
283150 Split PREP DUP	0.4	0.3	2.3	0.3	0.3	48.7	< 0.001	0.70	10.4	37	1.2	0.4	0.601	0.033	1.31
283219 Orig	< 0.1	0.4	2.6	0.4	< 0.1	0.2	0.001	< 0.05	4.8	43	0.5	0.2	0.391	0.038	1.65
283219 Dup	0.1	0.4	2.6	0.4	< 0.1	0.1	0.001	< 0.05	5.2	44	0.5	0.2	0.518	0.040	1.70
283224 Orig	0.2	0.4	3.0	0.4	< 0.1	0.1	0.001	0.13	8.8	44	1.2	0.8	0.446	0.033	1.24
283224 Dup	0.1	0.5	3.2	0.5	< 0.1	0.1	0.001	0.14	9.4	46	0.8	0.9	0.632	0.035	1.29
283250 Split Orig PREP DUP	< 0.1	0.4	2.4	0.4	0.9	1.8	< 0.001	0.09	6.5	7	8.4	2.1	0.209	0.032	0.16
283250 Split PREP DUP	< 0.1	0.3	2.4	0.4	0.3	0.4	< 0.001	0.10	7.2	7	8.0	2.1	0.148	0.030	0.16
283254 Orig	< 0.1	0.3	2.0	0.3	< 0.1	0.2	< 0.001	< 0.05	9.4	40	1.3	0.4	0.409	0.058	2.49
283254 Dup	< 0.1	0.3	1.9	0.2	< 0.1	0.2	< 0.001	< 0.05	9.2	40	1.3	0.4	0.415	0.059	2.52
283265 Orig	< 0.1	0.4	2.8	0.4	0.2	0.5	< 0.001	0.30	5.3	7	6.2	1.6	0.167	0.016	0.04
283265 Dup	< 0.1	0.4	2.9	0.4	0.7	0.7	< 0.001	0.33	5.4	7	6.6	1.6	0.164	0.019	0.04
283267 Orig	< 0.1	0.4	3.0	0.4	0.7	0.7	< 0.001	0.30	4.3	6	6.7	1.4	0.186	0.022	0.01
283267 Dup	< 0.1	0.4	2.9	0.4	0.7	0.8	< 0.001	0.31	4.3	6	6.8	1.4	0.188	0.022	< 0.01
283294 Orig	< 0.1	0.2	1.7	0.2	0.6	0.6	< 0.001	0.36	10.9	6	6.3	1.4	0.154	0.017	0.19
283294 Dup	< 0.1	0.2	1.7	0.2	0.6	0.6	< 0.001	0.40	10.3	6	6.6	1.4	0.147	0.018	0.17
283300 Split Orig PREP DUP	< 0.1	0.2	1.5	0.2	1.1	1.5	< 0.001	0.38	12.5	4	14.6	18.0	0.0954	0.011	0.05
283300 Split PREP DUP	< 0.1	0.2	1.5	0.3	1.0	1.2	0.001	0.35	12.1	4	14.8	17.9	0.0991	0.011	0.06
283319 Orig	< 0.1	0.2	1.8	0.3	0.6	0.2	< 0.001	0.43	5.7	6	6.7	1.4	0.172	0.019	0.14
283319 Dup	< 0.1	0.2	1.8	0.3	0.8	0.4	< 0.001	0.45	5.9	6	6.7	1.4	0.177	0.020	0.14
Method Blank										< 1			0.0124	< 0.001	< 0.01
Method Blank										< 1			0.0117	< 0.001	< 0.01
Method Blank										< 1			0.0008	< 0.001	< 0.01
Method Blank										< 1			0.0006	< 0.001	< 0.01
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	0.1	< 0.1	0.0208	< 0.001	< 0.01
Method Blank										< 1			0.0010	< 0.001	< 0.01

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	0.1	< 0.1	0.0010	< 0.001	< 0.01
Method Blank										< 1			0.0006	< 0.001	< 0.01

AGAT Laboratories

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
http://www.agatlabs.com

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION
CHESTER #1, MINE SITE, P.O. BOX 100
GOGAMA, ON P0M1W0
(705) 269-0010

ATTENTION TO: Alan Smith, Stephen Roach

PROJECT: TME East-240

AGAT WORK ORDER: 17T261288

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Sep 27, 2017

PAGES (INCLUDING COVER): 6

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.

AGAT Laboratories
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Certificate of Analysis

AGAT WORK ORDER: 17T261288

PROJECT: TME East-240

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: Alan Smith, Stephen Roach

(202-551) Fire Assay - Trace Au, AAS finish (50g Charge)

DATE SAMPLED: Sep 17, 2017 | DATE RECEIVED: Sep 18, 2017 | DATE REPORTED: Sep 27, 2017 | SAMPLE TYPE: Other

Analyte:	Au
Unit:	ppm
Sample ID (AGAT ID) RDL:	0.002
283094 (8727396)	0.004
283095 (8727397)	0.004
283096 (8727398)	0.003
283097 (8727399)	0.003
283098 (8727400)	0.005
283147 (8727401)	0.056
283148 (8727402)	<0.002
283149 (8727403)	0.006
283150 (8727404)	<0.002
283156 (8727405)	<0.002
283157 (8727406)	0.003
283158 (8727407)	<0.002
283159 (8727408)	<0.002
283200 (8727409)	<0.002
283201 (8727410)	<0.002
283202 (8727411)	<0.002
283203 (8727412)	<0.002
283219 (8727413)	0.003
283220 (8727414)	0.003
283221 (8727415)	<0.002
283222 (8727416)	0.003
283223 (8727417)	0.020
283224 (8727418)	0.032
283225 (8727419)	0.006
283226 (8727420)	0.047
283227 (8727421)	0.033
283245 (8727422)	<0.002
283246 (8727423)	0.033
283247 (8727424)	<0.002
283248 (8727425)	<0.002
283252 (8727426)	<0.002
283253 (8727427)	0.003

Certified By: Sherin Moussa

AGAT Laboratories

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FAX (905)501-0589
http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 17T261288

PROJECT: TME East-240

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: Alan Smith, Stephen Roach

(202-551) Fire Assay - Trace Au, AAS finish (50g Charge)

DATE SAMPLED: Sep 17, 2017 | DATE RECEIVED: Sep 18, 2017 | DATE REPORTED: Sep 27, 2017 | SAMPLE TYPE: Other

Analyte:	Au
Unit:	ppm
Sample ID (AGAT ID) RDL:	0.002
283254 (8727428)	<0.002
283255 (8727429)	<0.002
283282 (8727430)	<0.002
283283 (8727431)	<0.002
283284 (8727432)	<0.002
283285 (8727433)	<0.002
283295 (8727434)	<0.002
283296 (8727435)	<0.002
283297 (8727437)	0.013
283298 (8727438)	<0.002
283299 (8727439)	<0.002
283300 (8727440)	<0.002

Comments: RDL - Reported Detection Limit

Certified By: Sherin Moussa

AGAT Laboratories

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FAX (905)501-0589
http://www.agatlabs.com

Quality Assurance - Replicate

AGAT WORK ORDER: 17T261288

PROJECT: TME East-240

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: Alan Smith, Stephen Roach

(202-551) Fire Assay - Trace Au, AAS finish (50g Charge)

	REPLICATE #1				REPLICATE #2				REPLICATE #3							
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Au	8727396	0.0041	0.0045	9.3%	8727414	0.003	< 0.002		8727433	< 0.002	< 0.002	0.0%				

AGAT Laboratories

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FAX (905)501-0589
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Quality Assurance - Certified Reference materials

AGAT WORK ORDER: 17T261288

PROJECT: TME East-240

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: Alan Smith, Stephen Roach

(202-551) Fire Assay - Trace Au, AAS finish (50g Charge)

	CRM #1 (ref.GSP4C)				CRM #2 (ref.1P5K)				CRM #3 (ref.GS6D)							
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits				
Au	0.362	0.325	90%	90% - 110%	1.44	1.30	90%	90% - 110%	6.09	6.41	105%	90% - 110%				

AGAT Laboratories

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Method Summary

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

AGAT WORK ORDER: 17T261288

PROJECT: TME East-240

ATTENTION TO: Alan Smith, Stephen Roach

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Au	MIN-200-12004	BUGBEE, E: A Textbook of Fire Assaying	AA

Certificate of Analysis

Work Order : SU1600061A

[Report File No.: 0000006351]

To: **Alan Smith** Date: Feb 12, 2016

TRELAWNEY MINING AND EXPLORATION INC
3 MESOMIKENDA LAKE ROAD BOX 100
GOGAMA ON P0M 1W0

P.O. No.	:	Mining & Exploration - GE_FAA515 'A'
Project No.	:	CKE_PROJECT_234
No. Of Samples	:	194
Date Submitted	:	Jan 29, 2016
Report Comprises	:	Pages 1 to 7 (Inclusive of Cover Sheet)

Distribution of unused material:
To Be Determined:

Certified By :
Debbie Waldon
Project Coordinator

SGS Minerals Services (Lakefield) is accredited by Standards Council of Canada (SCC) and conforms to the requirements of ISO/IEC 17025 for specific tests as indicated on the scope of accreditation to be found at http://www.scc.ca/en/programs/lab/mineral.shtml

Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	--	= No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted

Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

Final : SU1600061A Order: Mining & Exploration - GE_FAA515 'A'

Report File No.: 0000006351

Element	@Au	@AuR
Method	GE_FAA515	GE_FAA515
Det.Lim.	0.005	0.005
Units	ppm	ppm
344609	<0.005	N.A.
344610	<0.005	N.A.
344611	0.055	N.A.
344612	1.086	N.A.
344613	<0.005	N.A.
344614	<0.005	N.A.
344615	<0.005	N.A.
344616	<0.005	N.A.
344617	<0.005	N.A.
344618	<0.005	N.A.
344619	<0.005	N.A.
344620	<0.005	N.A.
344621	<0.005	N.A.
344622	<0.005	N.A.
344623	<0.005	N.A.
344624	<0.005	N.A.
344625	<0.005	N.A.
344626	<0.005	N.A.
344627	<0.005	N.A.
344628	<0.005	N.A.
344629	<0.005	N.A.
344630	0.007	N.A.
344631	0.008	N.A.
344632	0.043	N.A.
344633	<0.005	N.A.
344634	<0.005	N.A.
344635	0.287	N.A.
344636	2.328	2.358
344637	<0.005	N.A.
344638	0.043	N.A.
344639	0.028	N.A.
344640	0.021	N.A.
344641	<0.005	N.A.
344642	<0.005	N.A.
*Dup 344642	<0.005	N.A.
344643	0.011	N.A.
344644	0.009	N.A.
344645	<0.005	N.A.
344646	0.008	N.A.
344647	0.050	N.A.

Final : SU1600061A Order: Mining & Exploration - GE_FAA515 'A'

Report File No.: 0000006351

Element	@Au	@AuR
Method	GE_FAA515	GE_FAA515
Det.Lim.	0.005	0.005
Units	ppm	ppm
344648	<0.005	N.A.
344649	0.023	N.A.
344650	0.007	N.A.
344651	0.011	N.A.
344652	0.007	N.A.
344653	0.007	N.A.
344654	0.191	N.A.
344655	0.016	N.A.
344656	0.012	N.A.
344657	0.007	N.A.
344658	0.006	N.A.
344659	<0.005	N.A.
344660	0.244	N.A.
344661	0.032	N.A.
344662	0.076	N.A.
344663	0.006	N.A.
344664	<0.005	N.A.
344665	<0.005	N.A.
344666	<0.005	N.A.
344667	<0.005	N.A.
344668	<0.005	N.A.
344669	0.006	N.A.
344670	0.007	0.007
344671	<0.005	N.A.
344672	<0.005	N.A.
344673	0.008	N.A.
344674	0.011	N.A.
344675	0.011	N.A.
344676	0.008	N.A.
344677	0.018	N.A.
*Dup 344677	0.039	N.A.
344678	<0.005	N.A.
344679	<0.005	N.A.
344680	<0.005	N.A.
344681	<0.005	N.A.
344682	<0.005	N.A.
344683	0.007	N.A.
344684	1.533	N.A.
344685	<0.005	N.A.
344686	0.008	N.A.

Final : SU1600061A Order: Mining & Exploration - GE_FAA515 'A'

Report File No.: 0000006351

Element	@Au	@AuR
Method	GE_FAA515	GE_FAA515
Det.Lim.	0.005	0.005
Units	ppm	ppm
344687	0.031	N.A.
344688	0.019	N.A.
344689	0.030	N.A.
344690	1.799	N.A.
344691	<0.005	N.A.
344692	0.007	N.A.
344693	0.776	N.A.
344694	0.008	N.A.
344695	0.027	N.A.
344696	<0.005	N.A.
344697	0.013	N.A.
344698	0.013	N.A.
344699	0.015	0.009
344700	0.406	N.A.
344701	<0.005	N.A.
344702	<0.005	N.A.
344703	0.009	N.A.
344704	0.015	N.A.
344705	<0.005	N.A.
344706	<0.005	N.A.
344707	0.031	N.A.
344708	1.093	N.A.
344709	0.011	N.A.
344710	0.023	N.A.
344711	0.018	N.A.
344712	0.009	N.A.
*Dup 344712	0.008	N.A.
344713	<0.005	N.A.
344714	0.011	N.A.
344715	0.010	N.A.
344716	0.009	N.A.
344717	0.007	N.A.
344718	0.010	N.A.
344719	0.007	N.A.
344720	<0.005	N.A.
344721	0.008	N.A.
344722	0.014	N.A.
344723	0.016	N.A.
344724	<0.005	N.A.
344725	<0.005	N.A.

Final : SU1600061A Order: Mining & Exploration - GE_FAA515 'A'

Report File No.: 0000006351

Element	@Au	@AuR
Method	GE_FAA515	GE_FAA515
Det.Lim.	0.005	0.005
Units	ppm	ppm
344726	0.009	N.A.
344727	0.011	N.A.
344728	0.037	N.A.
344729	0.053	N.A.
344730	<0.005	N.A.
344731	<0.005	N.A.
344732	2.264	N.A.
344733	0.007	N.A.
344734	0.006	N.A.
344735	<0.005	N.A.
344736	<0.005	N.A.
344737	<0.005	N.A.
344738	0.025	N.A.
344739	<0.005	N.A.
344740	0.042	N.A.
344741	0.012	N.A.
344742	0.007	N.A.
344743	<0.005	N.A.
344744	<0.005	N.A.
344745	0.006	N.A.
344746	0.009	N.A.
344747	0.231	N.A.
*Dup 344748	<0.005	N.A.
344748	0.006	N.A.
344749	<0.005	N.A.
344750	0.073	N.A.
344751	0.006	<0.005
344752	<0.005	N.A.
344753	<0.005	N.A.
344754	0.046	N.A.
344755	<0.005	N.A.
344756	0.236	N.A.
344757	<0.005	N.A.
344758	0.006	N.A.
344759	0.094	N.A.
344760	0.084	N.A.
344761	0.070	N.A.
344762	0.008	N.A.
344763	0.006	N.A.
344764	<0.005	N.A.

Final : SU1600061A Order: Mining & Exploration - GE_FAA515 'A'

Report File No.: 0000006351

Element	@Au	@AuR
Method	GE_FAA515	GE_FAA515
Det.Lim.	0.005	0.005
Units	ppm	ppm
344765	<0.005	N.A.
344766	0.006	N.A.
344767	0.011	N.A.
344768	<0.005	N.A.
344769	0.009	N.A.
344770	<0.005	N.A.
344771	0.076	N.A.
344772	0.220	0.207
344773	0.149	N.A.
344774	0.045	N.A.
344775	0.016	N.A.
344776	<0.005	N.A.
344777	0.021	N.A.
344778	<0.005	N.A.
344779	<0.005	N.A.
344780	1.587	N.A.
344781	<0.005	N.A.
344782	0.015	N.A.
*Dup 344781	0.006	N.A.
344783	0.017	N.A.
344784	<0.005	N.A.
344785	<0.005	N.A.
344786	<0.005	N.A.
344787	0.009	N.A.
344788	<0.005	N.A.
344789	<0.005	N.A.
344790	<0.005	<0.005
344791	0.014	N.A.
344792	<0.005	N.A.
344793	0.017	N.A.
344794	<0.005	N.A.
344795	0.024	N.A.
344796	1.131	N.A.
344797	0.118	N.A.
344798	<0.005	N.A.
344799	<0.005	N.A.
344800	<0.005	N.A.
344801	0.016	N.A.
344802	<0.005	N.A.
*Std OXD108	0.429	N.A.

Final : SU1600061A Order: Mining & Exploration - GE_FAA515 'A'

Report File No.: 0000006351

Element	@Au	@AuR
Method	GE_FAA515	GE_FAA515
Det.Lim.	0.005	0.005
Units	ppm	ppm
*Std OREAS-206	2.167	N.A.
*Std OXD108	0.414	N.A.
*Std OREAS-206	2.115	N.A.
*Std OREAS-203	0.915	N.A.
*Std OXD108	0.441	N.A.
*Std OREAS-203	0.922	N.A.
*Blk BLANK	<0.005	N.A.
*Blk BLANK	<0.005	N.A.
*Blk BLANK	<0.005	N.A.

Certificate of Analysis

Provisional : Work Order : SU1600061B

[Report File No.: 0000006495]

To: **Alan Smith**
TRELAWNEY MINING AND EXPLORATION INC
3 MESOMIKENDA LAKE ROAD BOX 100
GOGAMA ON P0M 1W0

Date: Mar 11, 2016

P.O. No.	:	Mining & Exploration - GO_ICM40B 'B'
Project No.	:	CKE_PROJECT_234
No. Of Samples	:	194
Date Submitted	:	Jan 29, 2016
Report Comprises	:	Pages 1 to 43 (Inclusive of Cover Sheet)

Distribution of unused material:
To Be Determined:

Comments:

Preliminary Reporrt for review by client

Certified By : _____
Debbie Waldon
Project Coordinator

SGS Minerals Services (Lakefield) is accredited by Standards Council of Canada (SCC) and conforms to the requirements of ISO/IEC 17025 for specific tests as indicated on the scope of accreditation to be found at http://www.scc.ca/en/programs/lab/mineral.shtml

Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	--	= No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted

Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

Provisional : SU1600061B Order: Mining & Exploration - GO_ICM40B 'B'

Report File No.: 0000006495

Element	@Ag	@Al	@Ba	@Ca	@Cr	@Cu	@Fe	@K
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.02	0.01	1	0.01	1	0.5	0.01	0.01
Units	ppm	%	ppm	%	ppm	ppm	%	%
344609	0.07	6.31	397	1.10	18	212	3.34	1.06
344610	<0.02	6.22	502	0.97	28	65.2	3.48	1.44
344611	2.73	6.50	465	0.62	33	6646	5.09	1.29
344612	0.20	7.34	365	4.88	194	82.1	8.73	0.78
344613	0.07	6.64	460	1.11	26	15.2	3.85	1.34
344614	0.10	6.15	401	1.16	30	280	3.45	1.13
344615	0.03	6.52	398	1.33	27	18.4	3.61	1.19
344616	0.02	6.85	431	1.58	23	31.9	3.77	1.35
344617	0.03	5.51	498	2.21	30	103	4.06	1.51
344618	<0.02	7.38	400	2.11	24	29.1	3.48	1.27
344619	0.08	2.40	2	9.30	921	254	6.81	<0.01
344620	0.07	2.61	3	9.18	874	169	6.96	<0.01
344621	0.07	2.49	1	8.49	766	92.8	8.07	<0.01
344622	0.09	4.38	585	5.37	249	144	5.79	1.43
344623	0.06	4.47	745	5.04	23	19.4	4.54	2.01
344624	0.03	9.91	659	4.32	20	29.0	5.72	1.93
344625	0.03	2.11	89	9.52	161	78.7	6.55	0.20
344626	0.07	2.79	5	7.47	899	125	8.40	<0.01
344627	0.11	3.22	19	7.73	648	312	9.05	0.02
344628	0.11	2.99	74	8.53	652	222	8.74	0.12
344629	0.18	2.59	223	10.9	392	198	8.41	0.36
344630	0.61	5.98	651	3.09	272	831	7.56	1.64
344631	5.46	6.20	1042	0.91	60	5788	6.38	2.85
344632	0.08	6.63	317	0.93	18	55.9	2.83	1.15
344633	0.06	7.34	210	0.49	32	34.6	3.55	1.04
344634	0.06	6.93	345	0.79	26	60.5	3.71	1.95
344635	0.94	4.82	206	4.04	65	1522	10.3	1.57
344636	0.28	6.54	476	4.57	139	123	10.7	0.65
344637	0.07	6.30	250	0.55	21	20.9	2.30	1.47
344638	1.07	6.38	242	0.85	24	377	2.66	1.63
344639	0.25	5.98	285	1.93	16	267	2.96	1.98
344640	0.74	1.50	83	13.7	7	388	6.10	0.61
344641	0.22	6.33	288	2.23	23	125	3.45	2.28
344642	0.04	6.38	176	1.26	19	66.8	2.86	1.78
*Dup 344642	0.04	6.40	173	1.26	18	61.7	2.76	1.78
344643	0.72	6.13	172	1.34	12	913	1.95	2.08
344644	0.63	6.31	190	0.85	20	605	2.06	2.13
344645	0.23	6.07	125	1.05	17	176	1.58	1.34
344646	0.28	5.71	124	0.85	15	470	1.82	1.50
344647	1.35	6.23	192	1.24	21	1281	2.25	2.19

Provisional : SU1600061B Order: Mining & Exploration - GO_ICM40B 'B'

Report File No.: 0000006495

Element	@Ag	@Al	@Ba	@Ca	@Cr	@Cu	@Fe	@K
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.02	0.01	1	0.01	1	0.5	0.01	0.01
Units	ppm	%	ppm	%	ppm	ppm	%	%
344648	0.06	9.95	640	4.29	21	23.6	5.98	1.95
344649	1.07	6.26	197	1.06	10	995	1.69	2.23
344650	0.62	5.78	220	2.27	21	332	2.65	2.19
344651	0.35	5.52	365	1.38	16	376	2.20	2.67
344652	0.19	6.00	484	1.09	26	219	2.65	2.81
344653	0.13	6.09	609	1.22	12	213	2.14	2.30
344654	0.32	3.77	116	6.44	499	174	7.30	0.21
344655	1.44	3.08	4	8.53	725	754	9.08	0.01
344656	0.24	6.19	172	1.58	29	506	3.97	0.44
344657	0.06	6.59	550	0.94	21	163	3.59	1.56
344658	<0.02	6.65	665	0.90	15	141	3.09	1.29
344659	0.09	7.64	163	4.49	7	47.1	6.30	0.46
344660	0.73	7.93	965	2.59	55	2608	4.48	3.24
344661	0.35	6.72	744	0.50	24	396	3.91	1.58
344662	0.70	6.02	644	0.32	18	626	3.87	2.42
344663	0.06	6.63	259	0.69	21	54.9	3.35	1.21
344664	0.03	6.49	238	1.00	12	73.3	3.46	1.30
344665	<0.02	5.90	151	0.86	15	12.1	2.19	0.92
344666	<0.02	6.50	244	1.36	15	23.9	3.67	1.55
344667	<0.02	6.46	322	1.25	19	26.3	3.26	2.01
344668	0.04	6.60	258	1.27	11	36.6	3.28	1.74
344669	0.14	6.69	246	1.14	15	119	3.14	2.02
344670	0.13	5.71	293	1.63	7	80.0	1.97	2.77
344671	0.10	6.27	92	5.82	40	82.7	9.16	0.33
344672	<0.02	9.93	721	4.36	14	18.7	5.87	2.06
344673	0.08	6.75	677	1.38	14	518	3.76	1.25
344674	0.10	6.77	469	1.09	19	515	4.15	1.18
344675	0.07	6.52	378	1.18	14	410	3.53	1.19
344676	0.16	6.57	262	1.25	23	272	3.59	0.99
344677	0.19	6.51	255	1.08	14	251	3.89	0.95
*Dup 344677	0.21	6.39	264	1.07	19	291	3.91	0.96
344678	0.09	6.44	266	1.12	17	84.9	3.58	0.88
344679	0.07	6.35	280	1.11	13	197	3.57	0.87
344680	0.05	6.60	297	1.11	19	51.7	3.60	0.91
344681	0.03	6.35	283	1.19	17	10.7	3.32	0.83
344682	<0.02	6.43	338	1.46	23	28.9	3.76	1.77
344683	0.10	6.52	248	1.18	19	71.0	3.88	1.26
344684	3.28	7.05	561	2.79	44	>10000	7.67	2.90
344685	0.03	6.56	272	1.17	25	39.7	3.51	1.19
344686	<0.02	6.62	293	1.15	20	120	3.46	1.32

Element	@Ag	@Al	@Ba	@Ca	@Cr	@Cu	@Fe	@K
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.02	0.01	1	0.01	1	0.5	0.01	0.01
Units	ppm	%	ppm	%	ppm	ppm	%	%
344687	0.35	6.72	218	1.13	27	389	3.26	1.13
344688	0.34	6.72	189	0.81	23	306	3.28	1.06
344689	0.43	6.87	417	0.49	26	453	4.57	2.30
344690	0.33	4.10	314	4.79	16	233	8.16	2.07
344691	0.11	6.13	579	0.53	17	114	2.51	3.00
344692	0.18	6.11	534	0.62	16	167	3.02	2.74
344693	13.8	5.25	385	0.08	18	7634	4.26	2.14
344694	0.17	6.26	485	0.55	10	122	2.24	2.85
344695	0.37	5.24	436	1.17	15	235	2.86	2.92
344696	0.10	9.78	648	4.43	21	20.9	5.82	1.91
344697	0.23	6.15	523	1.00	13	106	2.31	2.91
344698	0.37	6.18	408	2.28	10	213	3.93	2.62
344699	0.13	6.78	349	2.05	24	108	3.94	2.78
344700	0.18	6.75	268	0.45	24	137	4.40	2.03
344701	0.24	6.16	170	1.43	100	91.2	5.18	1.29
344702	0.53	6.69	459	0.83	21	145	2.79	3.19
344703	0.53	7.24	209	2.63	15	569	6.57	3.45
344704	0.54	5.66	312	6.33	21	112	4.39	2.65
344705	0.09	8.40	218	1.13	8	44.6	7.34	2.14
344706	0.06	7.61	238	2.00	6	35.9	6.36	2.52
344707	0.32	7.43	244	3.39	8	253	5.44	2.82
344708	0.16	7.14	361	4.97	185	78.9	8.73	0.74
344709	0.18	6.40	235	1.18	5	126	2.96	2.61
344710	0.38	6.44	212	1.36	23	375	4.17	2.37
344711	0.40	6.63	216	1.11	9	345	4.22	2.27
344712	0.21	7.10	218	1.27	10	164	5.16	2.07
*Dup 344712	0.21	7.12	212	1.28	10	187	5.18	2.19
344713	0.06	8.11	205	1.61	6	13.8	7.89	1.95
344714	2.74	6.59	165	1.03	17	150	3.56	1.32
344715	0.30	7.44	200	0.82	22	220	3.67	1.34
344716	0.10	7.07	281	0.98	11	78.9	7.78	2.54
344717	0.12	7.43	196	1.22	31	124	4.61	1.25
344718	0.09	6.98	214	0.62	23	74.6	3.72	1.10
344719	0.09	6.75	255	0.65	21	56.1	3.62	1.00
344720	0.03	10.8	758	4.78	26	21.6	6.32	2.20
344721	0.03	7.03	262	1.01	27	95.0	3.60	0.90
344722	0.04	6.15	259	0.70	28	39.6	3.37	0.89
344723	<0.02	6.16	252	0.84	31	34.4	3.29	0.90
344724	0.07	6.41	315	5.12	306	137	8.24	0.72
344725	0.17	6.46	323	4.54	264	137	7.36	0.67

Provisional : SU1600061B Order: Mining & Exploration - GO_ICM40B 'B'

Report File No.: 0000006495

Element	@Ag	@Al	@Ba	@Ca	@Cr	@Cu	@Fe	@K
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.02	0.01	1	0.01	1	0.5	0.01	0.01
Units	ppm	%	ppm	%	ppm	ppm	%	%
344726	0.14	6.49	335	0.74	26	121	1.58	1.20
344727	0.15	6.21	413	1.02	24	134	1.68	1.95
344728	0.49	5.81	437	1.10	21	402	1.89	2.54
344729	0.31	5.21	452	0.19	36	284	3.45	2.37
344730	0.04	5.58	403	0.75	17	56.1	3.04	2.81
344731	<0.02	6.30	371	1.49	15	35.3	3.72	2.57
344732	0.22	6.16	483	5.00	148	116	10.3	0.60
344733	0.09	7.45	434	0.88	14	172	8.27	2.87
344734	0.06	5.99	275	0.45	30	90.8	5.12	1.86
344735	0.04	6.27	318	0.57	25	27.7	3.66	2.04
344736	0.03	6.03	220	0.96	38	22.7	3.36	1.37
344737	0.07	6.35	504	1.50	23	52.6	3.96	3.45
344738	0.21	3.94	234	7.95	19	172	5.74	1.89
344739	0.14	5.73	320	2.49	23	42.8	4.44	2.84
344740	0.93	3.45	195	9.49	14	392	5.95	1.74
344741	0.34	6.52	348	0.39	26	415	5.52	2.65
344742	0.21	6.05	350	0.51	36	225	5.16	2.76
344743	0.09	6.02	280	1.21	18	71.0	4.45	2.45
344744	0.02	9.41	664	4.10	19	19.5	5.97	2.04
344745	0.04	6.80	143	0.76	25	53.4	4.17	1.18
344746	0.04	6.28	178	0.86	24	47.7	4.61	1.15
344747	0.20	7.50	349	0.74	14	285	9.17	2.58
*Dup 344748	0.06	6.17	242	0.88	28	50.3	4.15	1.60
344748	0.10	5.84	236	0.87	36	47.9	3.90	1.62
344749	0.04	6.61	240	0.87	24	29.5	3.53	1.38
344750	0.08	6.63	268	1.03	22	69.8	3.54	1.50
344751	0.04	6.70	356	0.87	25	49.2	3.44	1.77
344752	0.02	6.70	265	0.96	26	35.7	3.58	1.12
344753	<0.02	6.93	258	0.83	22	15.4	4.18	0.84
344754	0.06	7.11	322	0.97	25	221	4.27	1.06
344755	<0.02	6.29	250	1.27	31	15.7	3.36	0.79
344756	0.65	8.21	972	2.59	79	2688	4.43	3.26
344757	0.05	6.17	256	1.06	15	13.4	3.37	0.61
344758	0.04	7.07	129	1.55	35	47.0	3.74	0.30
344759	1.30	7.24	198	6.17	213	678	8.22	0.54
344760	14.3	7.26	407	2.73	158	>10000	9.30	1.32
344761	0.32	6.59	627	0.29	19	438	4.61	2.05
344762	0.09	6.16	245	0.48	21	94.3	3.51	0.98
344763	0.08	5.19	144	5.87	17	14.0	4.85	0.69
344764	0.04	6.00	272	1.22	15	24.2	2.97	1.21

Provisional : SU1600061B Order: Mining & Exploration - GO_ICM40B 'B'

Report File No.: 0000006495

Element	@Ag	@Al	@Ba	@Ca	@Cr	@Cu	@Fe	@K
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.02	0.01	1	0.01	1	0.5	0.01	0.01
Units	ppm	%	ppm	%	ppm	ppm	%	%
344765	0.04	6.53	385	0.97	20	53.4	3.26	1.38
344766	0.08	6.57	533	1.43	23	63.4	3.33	1.35
344767	0.23	7.58	49	7.67	197	138	7.41	0.19
344768	0.04	9.81	633	4.08	23	22.2	5.86	1.91
344769	0.18	7.54	81	6.93	154	148	7.20	0.43
344770	0.28	8.22	30	7.31	210	148	8.23	0.18
344771	1.74	6.87	283	7.99	179	940	7.93	0.59
344772	4.12	2.90	380	7.57	9	1714	3.88	1.22
344773	22.6	5.97	419	1.37	17	7767	5.16	2.03
344774	1.24	7.98	440	1.44	25	564	3.39	3.18
344775	0.76	6.65	219	1.09	17	326	3.47	1.58
344776	0.20	7.00	186	5.69	31	176	11.0	0.72
344777	0.08	6.82	157	1.09	6	31.5	3.14	1.27
344778	0.11	6.62	324	1.56	20	47.5	2.14	2.05
344779	0.04	7.31	379	1.43	11	23.9	2.19	2.51
344780	3.48	7.93	614	3.02	55	>10000	8.26	3.19
344781	0.08	6.64	401	4.02	116	4.0	4.26	2.51
344782	0.05	7.14	340	3.46	11	74.8	4.23	2.21
*Dup 344781	0.05	6.68	414	4.19	122	5.7	4.41	2.60
344783	0.08	6.60	349	2.66	21	40.0	2.78	2.22
344784	<0.02	7.02	296	1.57	17	7.9	2.11	2.02
344785	<0.02	6.00	254	1.79	10	4.5	1.89	1.87
344786	0.05	6.53	427	1.74	47	30.3	3.38	2.69
344787	0.04	7.19	358	1.58	14	69.3	2.94	2.11
344788	0.02	8.17	144	1.94	27	7.1	4.06	0.40
344789	0.04	8.30	333	2.08	13	17.4	3.27	2.06
344790	0.05	7.72	271	2.94	15	41.9	4.11	1.33
344791	0.07	7.51	235	1.97	23	17.4	3.37	1.18
344792	<0.02	9.14	588	3.98	25	18.9	5.52	1.71
344793	0.10	7.93	228	2.73	24	119	3.84	1.30
344794	0.10	8.12	253	2.28	29	50.7	3.42	1.84
344795	0.08	7.36	350	1.33	13	34.8	3.59	2.22
344796	0.28	6.91	283	7.23	18	798	6.39	1.95
344797	0.39	7.27	364	0.94	17	117	4.13	2.16
344798	0.10	7.01	115	2.03	20	5.9	2.24	0.73
344799	0.03	8.39	25	3.67	36	31.1	5.55	0.10
344800	<0.02	8.12	65	2.58	26	2.3	2.98	0.37
344801	0.05	8.84	142	3.16	23	20.3	4.21	0.77
344802	<0.02	7.78	53	2.63	16	1.1	2.94	0.28
*Rep 344648	0.04	10.0	656	4.24	19	22.2	6.21	2.01

Provisional : SU1600061B Order: Mining & Exploration - GO_ICM40B 'B'

Report File No.: 0000006495

Element	@Ag	@Al	@Ba	@Ca	@Cr	@Cu	@Fe	@K
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.02	0.01	1	0.01	1	0.5	0.01	0.01
Units	ppm	%	ppm	%	ppm	ppm	%	%
*Rep 344689	0.37	7.00	430	0.51	27	467	4.64	2.36
*Rep 344730	0.05	5.73	395	0.75	16	56.2	3.03	2.81
*Rep 344771	1.96	6.79	277	7.73	152	890	7.40	0.56
*Rep 344802	<0.02	8.01	55	2.70	24	1.4	2.99	0.29
*Std OREAS-901	0.40	7.15	226	0.10	48	1357	3.98	3.75
*Std OREAS-903	0.40	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-905	0.51	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-925	3.28	7.14	386	0.41	78	6020	6.58	2.40
*Std OREAS-901	0.43	7.02	228	0.09	45	1419	3.95	3.75
*Std OREAS-903	0.43	5.47	179	0.54	75	5984	3.76	3.12
*Std OREAS-905	0.52	7.86	2759	0.59	16	1588	4.24	2.98
*Std OREAS-925	2.77	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-901	0.39	6.44	210	0.08	65	1276	3.68	3.46
*Std OREAS-903	0.38	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Blk BLANK	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Blk BLANK	<0.02	<0.01	<1	<0.01	1	<0.5	<0.01	<0.01
*Blk BLANK	0.07	<0.01	<1	<0.01	<1	<0.5	<0.01	<0.01
*Blk BLANK	0.03	<0.01	<1	<0.01	1	<0.5	<0.01	<0.01
*Blk BLANK	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Blk BLANK	0.04	<0.01	<1	<0.01	<1	1.1	<0.01	<0.01

Provisional : SU1600061B Order: Mining & Exploration - GO_ICM40B 'B'

Report File No.: 0000006495

Element	@Li	@Mg	@Mn	@Na	@Ni	@P	@S	@Sr
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	1	0.01	2	0.01	0.5	0.005	0.01	0.5
Units	ppm	%	ppm	%	ppm	%	%	ppm
344609	7	0.30	203	3.28	12.0	0.019	0.05	71.5
344610	9	0.39	255	2.88	7.7	0.019	0.07	44.5
344611	9	0.36	192	2.70	18.6	0.049	1.56	38.4
344612	8	3.80	2245	1.89	136	0.187	0.91	344
344613	8	0.39	286	2.84	6.3	0.023	0.02	64.3
344614	6	0.32	265	2.75	3.6	0.022	0.04	76.0
344615	8	0.33	227	2.87	4.6	0.020	0.01	58.9
344616	10	0.31	264	2.86	7.3	0.021	0.01	54.7
344617	11	0.40	390	1.60	4.0	0.022	0.04	35.2
344618	7	0.31	314	3.32	8.2	0.023	0.01	57.4
344619	4	7.51	1455	0.01	930	0.036	0.11	134
344620	4	7.25	1370	<0.01	849	0.040	0.09	128
344621	4	7.33	1643	0.01	819	0.039	0.07	126
344622	12	4.00	947	0.07	254	0.022	0.23	86.6
344623	12	2.98	772	0.06	53.7	0.014	0.20	74.1
344624	20	1.71	924	2.69	17.1	0.178	0.16	552
344625	11	5.95	1488	0.05	198	0.012	0.11	214
344626	18	7.54	1567	<0.01	872	0.046	0.03	217
344627	21	6.67	1578	0.08	595	0.052	0.18	251
344628	19	6.44	1672	0.09	660	0.046	0.22	264
344629	16	6.14	2213	0.03	306	0.038	0.04	230
344630	22	2.83	639	0.20	241	0.045	0.21	71.5
344631	18	0.83	321	0.16	24.0	0.055	1.73	32.1
344632	9	0.43	178	2.78	5.7	0.017	0.11	59.8
344633	11	0.54	131	2.87	4.0	0.020	0.21	66.8
344634	16	0.51	218	2.35	7.9	0.023	0.06	69.4
344635	29	0.93	496	0.32	30.9	0.022	>5.00	34.2
344636	9	3.25	3635	1.50	120	0.223	1.83	290
344637	9	0.31	146	2.66	6.7	0.010	0.04	52.9
344638	13	0.71	183	1.83	2.7	0.011	0.17	36.7
344639	13	1.13	327	0.97	4.8	0.012	0.31	31.6
344640	7	6.50	2252	0.03	24.3	<0.005	0.26	74.8
344641	14	1.25	384	0.60	15.6	0.026	0.36	28.2
344642	11	0.89	241	1.59	7.5	0.017	0.23	35.7
*Dup 344642	11	0.87	224	1.60	4.4	0.017	0.22	35.2
344643	10	0.58	226	1.30	4.5	0.010	0.37	28.1
344644	10	0.59	197	1.23	8.4	0.009	0.28	27.5
344645	6	0.48	226	2.49	2.3	0.010	0.20	39.7
344646	7	0.50	198	2.42	3.7	0.008	0.31	38.7
344647	10	0.76	234	1.16	10.9	0.012	0.30	35.8

Element	@Li	@Mg	@Mn	@Na	@Ni	@P	@S	@Sr
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	1	0.01	2	0.01	0.5	0.005	0.01	0.5
Units	ppm	%	ppm	%	ppm	%	%	ppm
344648	21	1.69	946	2.74	17.9	0.174	0.14	574
344649	9	0.59	196	1.22	5.4	0.010	0.29	39.4
344650	10	1.22	482	0.86	15.3	0.008	0.23	51.1
344651	11	0.86	317	0.08	10.2	0.009	0.52	30.9
344652	14	0.82	250	0.15	15.2	0.007	0.77	31.9
344653	12	0.89	262	0.90	10.2	0.008	0.19	56.6
344654	16	5.11	1196	0.59	956	0.043	0.87	249
344655	17	6.87	1561	0.02	774	0.051	1.57	390
344656	12	1.46	334	2.89	38.5	0.021	0.33	176
344657	9	0.52	229	2.34	7.9	0.022	0.11	174
344658	13	0.48	182	2.73	6.5	0.021	0.11	213
344659	15	2.60	1114	4.06	10.1	0.241	0.34	536
344660	31	1.46	533	1.90	42.5	0.113	0.39	332
344661	12	0.46	169	2.21	6.8	0.023	0.88	143
344662	16	0.34	141	0.65	22.9	0.022	1.30	51.9
344663	8	0.37	213	2.65	4.8	0.022	0.07	110
344664	11	0.46	246	2.39	3.6	0.021	0.11	78.5
344665	8	0.26	193	2.85	4.3	0.009	0.02	76.1
344666	13	0.49	299	2.05	3.0	0.019	0.08	68.8
344667	13	0.54	295	1.54	6.7	0.019	0.08	53.6
344668	9	0.54	305	2.05	4.7	0.020	0.10	63.7
344669	8	0.62	314	1.52	9.2	0.021	0.17	57.0
344670	10	0.60	320	0.09	6.2	0.008	0.22	28.8
344671	33	2.35	1441	1.15	36.8	0.040	0.10	163
344672	21	1.66	919	2.73	13.0	0.164	0.16	576
344673	13	0.63	348	2.31	7.3	0.024	0.18	50.5
344674	15	0.43	234	2.44	5.0	0.024	0.27	51.1
344675	12	0.41	239	2.45	7.1	0.023	0.15	53.1
344676	10	0.37	364	2.96	3.9	0.022	0.22	64.9
344677	10	0.36	317	2.88	3.4	0.021	0.27	57.7
*Dup 344677	11	0.39	332	2.83	5.4	0.022	0.26	57.1
344678	10	0.33	325	3.10	5.5	0.020	0.14	60.4
344679	9	0.32	311	3.00	4.0	0.020	0.18	59.0
344680	10	0.36	327	3.02	6.0	0.020	0.18	59.9
344681	9	0.33	306	3.04	4.0	0.020	0.03	67.0
344682	14	0.58	371	1.84	6.6	0.020	0.04	52.6
344683	11	0.43	283	2.48	4.7	0.021	0.11	56.2
344684	20	1.86	546	1.94	22.4	0.143	1.49	479
344685	9	0.33	276	2.70	6.3	0.021	0.04	67.3
344686	9	0.37	299	2.63	3.2	0.021	0.05	65.9

Element	@Li	@Mg	@Mn	@Na	@Ni	@P	@S	@Sr
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	1	0.01	2	0.01	0.5	0.005	0.01	0.5
Units	ppm	%	ppm	%	ppm	%	%	ppm
344687	9	0.37	258	2.86	8.3	0.021	0.15	67.3
344688	11	0.44	165	2.92	4.4	0.021	0.32	64.6
344689	17	0.68	178	1.10	9.6	0.026	0.84	31.7
344690	16	2.24	926	0.07	20.5	0.022	2.03	61.5
344691	18	0.50	126	0.12	3.3	0.008	0.50	20.5
344692	15	0.57	155	0.32	2.6	0.007	0.91	24.5
344693	13	0.42	79	0.58	3.7	0.040	1.75	19.5
344694	14	0.69	130	0.21	1.5	0.009	0.12	22.9
344695	14	0.85	225	0.10	3.0	0.008	1.08	29.2
344696	21	1.67	905	2.68	13.7	0.168	0.16	579
344697	15	0.79	203	0.15	7.1	0.010	0.32	25.5
344698	17	1.16	327	0.36	17.9	0.028	0.79	33.1
344699	18	1.80	413	0.07	8.3	0.020	0.06	35.4
344700	16	1.27	154	0.94	4.9	0.017	0.29	27.0
344701	16	1.55	318	1.41	112	0.023	0.41	40.7
344702	21	0.50	139	0.08	10.5	0.020	0.57	20.8
344703	21	0.89	425	0.21	18.4	0.081	3.05	41.1
344704	19	3.06	1485	0.07	19.3	0.040	0.26	60.2
344705	29	2.08	260	0.72	19.9	0.068	0.08	25.9
344706	25	2.02	403	0.42	17.0	0.062	0.13	34.7
344707	23	2.07	598	0.08	21.3	0.051	0.20	41.6
344708	9	3.61	2180	1.85	132	0.176	0.90	351
344709	21	1.06	194	0.14	5.8	0.017	0.04	21.9
344710	22	1.38	326	0.54	33.3	0.023	0.22	28.0
344711	19	1.08	320	0.91	7.9	0.028	0.21	30.3
344712	17	1.16	407	1.44	11.7	0.038	0.13	39.7
*Dup 344712	17	1.19	414	1.50	13.4	0.037	0.15	40.8
344713	27	2.00	596	1.18	19.9	0.068	0.06	39.3
344714	12	0.95	356	2.49	5.7	0.021	0.06	62.7
344715	12	0.90	366	3.01	7.8	0.023	0.08	70.0
344716	58	2.68	504	0.80	13.7	0.048	0.06	42.6
344717	21	1.36	356	2.85	9.8	0.027	0.10	93.3
344718	18	0.98	321	2.85	4.9	0.024	0.08	93.4
344719	12	0.70	327	3.07	6.4	0.022	0.10	116
344720	23	1.83	988	3.07	15.1	0.185	0.17	634
344721	7	0.40	345	3.68	8.2	0.024	0.19	139
344722	8	0.50	335	2.96	4.1	0.022	0.18	111
344723	12	0.72	347	2.95	5.2	0.022	0.09	117
344724	15	4.20	1227	2.15	238	0.084	0.15	354
344725	14	3.46	1066	2.23	209	0.078	0.17	337

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Element	@Li	@Mg	@Mn	@Na	@Ni	@P	@S	@Sr
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	1	0.01	2	0.01	0.5	0.005	0.01	0.5
Units	ppm	%	ppm	%	ppm	%	%	ppm
344726	6	0.15	171	3.04	3.4	0.007	0.12	57.5
344727	5	0.12	138	1.87	3.0	<0.005	0.40	35.6
344728	7	0.17	150	0.86	1.6	<0.005	0.48	23.9
344729	8	0.26	139	1.25	4.2	<0.005	1.27	26.6
344730	13	0.51	273	1.02	3.3	0.013	0.16	28.8
344731	16	0.71	451	1.24	7.3	0.027	0.13	33.3
344732	9	3.15	3428	1.61	111	0.206	1.65	292
344733	31	1.30	507	1.14	13.7	0.074	0.63	36.6
344734	19	0.72	306	1.99	4.8	0.022	0.26	45.3
344735	15	0.59	272	2.20	4.1	0.019	0.15	53.6
344736	10	0.53	287	2.79	5.7	0.018	0.12	54.4
344737	19	1.24	492	0.30	4.0	0.018	0.03	31.0
344738	15	3.44	1095	0.06	5.3	0.011	0.27	50.3
344739	18	1.88	653	0.18	3.9	0.017	0.11	25.0
344740	8	4.45	1496	0.05	12.6	0.013	0.54	56.2
344741	15	0.86	280	0.71	44.3	0.024	1.67	19.6
344742	14	0.87	281	0.63	14.6	0.018	1.01	18.8
344743	15	0.99	392	1.26	5.6	0.018	0.65	34.9
344744	21	1.64	890	2.88	13.1	0.128	0.13	588
344745	12	0.79	339	2.71	5.4	0.025	0.34	45.8
344746	12	0.84	395	2.75	8.2	0.024	0.21	50.1
344747	34	1.37	566	1.57	13.5	0.064	0.98	32.4
*Dup 344748	12	0.85	365	2.53	6.5	0.021	0.15	57.9
344748	12	0.83	361	2.45	7.9	0.019	0.16	58.2
344749	11	0.68	314	2.99	6.3	0.022	0.05	64.4
344750	10	0.73	316	2.44	4.0	0.022	0.04	56.5
344751	8	0.54	355	2.39	10.8	0.023	0.05	50.6
344752	7	0.45	313	3.09	5.5	0.024	0.05	76.0
344753	11	0.51	257	3.20	5.6	0.024	0.07	63.4
344754	9	0.45	269	3.22	5.4	0.024	0.29	58.4
344755	6	0.33	255	3.00	5.1	0.021	0.02	59.4
344756	32	1.50	535	1.93	45.2	0.111	0.39	337
344757	6	0.37	247	3.11	3.3	0.020	0.03	66.0
344758	10	0.80	348	3.92	13.0	0.025	0.12	73.0
344759	39	3.67	1144	0.85	106	0.022	0.14	54.3
344760	31	2.90	778	0.66	90.0	0.068	1.87	31.8
344761	15	0.68	168	1.28	5.5	0.022	0.95	21.0
344762	9	0.59	210	2.59	5.8	0.019	0.28	18.3
344763	9	1.75	1804	2.62	1.2	0.015	0.05	67.9
344764	13	0.63	270	2.18	5.6	0.020	0.07	19.9

Element	@Li	@Mg	@Mn	@Na	@Ni	@P	@S	@Sr
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	1	0.01	2	0.01	0.5	0.005	0.01	0.5
Units	ppm	%	ppm	%	ppm	%	%	ppm
344765	13	0.64	259	2.24	4.0	0.021	0.14	20.4
344766	12	0.72	285	2.05	6.6	0.021	0.12	30.4
344767	35	3.87	1284	1.62	110	0.023	0.05	50.8
344768	21	1.59	912	2.55	16.7	0.168	0.14	546
344769	36	3.84	1326	1.34	111	0.022	0.06	62.0
344770	30	5.03	1366	1.43	135	0.023	0.10	103
344771	33	4.74	1275	0.74	103	0.024	0.14	47.4
344772	10	3.15	1285	0.16	7.2	0.009	0.21	51.9
344773	14	1.29	405	0.38	7.6	0.050	1.04	23.9
344774	15	1.13	360	0.48	7.4	0.023	0.08	28.1
344775	13	0.83	287	1.84	4.8	0.022	0.10	34.1
344776	16	2.82	1538	1.52	48.0	0.110	0.21	123
344777	10	0.63	285	2.53	3.4	0.018	0.05	43.5
344778	10	0.75	488	1.56	6.2	0.029	0.16	94.6
344779	14	0.87	404	1.23	6.8	0.033	0.14	87.9
344780	21	1.99	595	2.23	23.3	0.160	1.59	524
344781	23	2.20	854	0.25	38.3	0.074	0.19	94.3
344782	31	0.89	440	0.68	6.8	0.042	0.56	66.4
*Dup 344781	24	2.29	886	0.27	40.3	0.076	0.19	98.6
344783	15	0.84	489	0.78	10.8	0.037	0.43	67.0
344784	11	0.76	389	1.90	6.7	0.030	0.13	85.5
344785	11	0.64	331	1.20	4.3	0.027	0.10	61.3
344786	22	1.33	451	0.46	23.3	0.040	0.15	64.6
344787	19	0.73	283	1.05	16.6	0.039	0.17	68.5
344788	22	0.77	365	3.88	24.4	0.044	<0.01	118
344789	21	0.91	378	1.64	17.3	0.048	0.04	77.6
344790	18	0.72	492	2.23	19.4	0.042	0.08	66.5
344791	16	0.56	348	2.59	15.9	0.044	0.06	62.7
344792	20	1.49	853	2.56	15.7	0.140	0.14	546
344793	24	0.99	483	2.22	26.3	0.065	0.24	75.1
344794	25	1.27	453	1.75	28.8	0.047	0.14	84.9
344795	28	1.55	393	0.29	22.5	0.047	0.13	53.6
344796	32	2.04	1251	0.16	47.1	0.025	1.69	60.9
344797	27	1.31	311	0.29	22.4	0.043	0.39	48.7
344798	15	0.71	355	3.17	21.9	0.040	0.02	76.6
344799	27	1.46	624	3.95	43.6	0.050	0.03	113
344800	18	0.90	351	3.59	25.0	0.043	<0.01	151
344801	23	1.18	443	3.63	30.1	0.052	0.47	121
344802	18	0.92	343	3.39	23.1	0.042	0.01	149
*Rep 344648	21	1.70	976	2.74	18.5	0.180	0.16	555

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Element	@Li	@Mg	@Mn	@Na	@Ni	@P	@S	@Sr
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	1	0.01	2	0.01	0.5	0.005	0.01	0.5
Units	ppm	%	ppm	%	ppm	%	%	ppm
*Rep 344689	18	0.70	182	1.12	9.2	0.027	0.84	32.7
*Rep 344730	13	0.51	271	1.01	4.4	0.012	0.17	28.8
*Rep 344771	32	4.46	1203	0.69	99.4	0.021	0.14	44.2
*Rep 344802	19	0.97	358	3.50	23.4	0.044	0.01	153
*Std OREAS-901	15	0.61	285	0.03	42.0	0.070	0.04	30.7
*Std OREAS-903	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-905	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-925	29	1.74	930	0.24	35.0	0.084	1.02	35.3
*Std OREAS-901	16	0.59	284	0.04	40.5	0.067	0.04	32.0
*Std OREAS-903	15	0.65	618	0.02	51.1	0.121	0.46	69.1
*Std OREAS-905	19	0.28	379	2.23	9.1	0.034	0.07	157
*Std OREAS-925	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-901	15	0.54	260	0.03	37.5	0.064	0.03	28.1
*Std OREAS-903	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Blk BLANK	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Blk BLANK	<1	<0.01	<2	<0.01	<0.5	<0.005	<0.01	<0.5
*Blk BLANK	<1	<0.01	<2	<0.01	<0.5	<0.005	<0.01	<0.5
*Blk BLANK	<1	<0.01	<2	<0.01	<0.5	<0.005	<0.01	<0.5
*Blk BLANK	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Blk BLANK	<1	<0.01	<2	<0.01	<0.5	<0.005	<0.01	<0.5

Element	@Ti	@V	@Zn	@Zr	@As	@Be	@Bi	@Cd
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.01	2	1	0.5	1	0.1	0.04	0.02
Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344609	0.17	11	14	137	3	1.4	0.07	0.03
344610	0.17	11	16	140	<1	1.4	0.08	0.04
344611	0.13	12	23	124	2	1.2	1.88	0.05
344612	0.93	155	108	128	653	0.9	0.08	0.10
344613	0.20	14	20	135	2	1.7	0.08	0.03
344614	0.18	12	16	113	<1	1.6	0.07	0.03
344615	0.18	12	19	133	1	1.5	0.06	0.05
344616	0.19	15	14	146	2	1.6	0.05	0.03
344617	0.14	11	13	117	<1	1.6	0.10	0.05
344618	0.20	15	12	146	1	1.7	0.04	0.03
344619	0.66	150	49	48.4	19	0.3	0.08	0.12
344620	0.56	152	49	61.4	53	0.2	0.05	0.12
344621	0.54	148	46	59.7	61	0.3	<0.04	0.11
344622	0.27	73	40	114	15	0.9	0.16	0.09
344623	0.12	22	27	103	5	1.2	0.16	0.09
344624	0.73	142	100	92.3	1	2.7	<0.04	0.11
344625	0.08	72	41	44.6	5	0.5	0.14	0.16
344626	0.05	154	73	63.8	1	0.4	<0.04	0.11
344627	0.29	207	76	70.9	10	0.8	0.26	0.13
344628	0.55	192	87	67.2	25	0.9	0.16	0.13
344629	0.55	167	73	60.4	20	0.8	0.07	0.31
344630	0.60	113	115	136	20	1.6	0.22	0.33
344631	0.38	49	197	133	16	2.2	1.13	1.04
344632	0.15	13	27	147	4	1.4	0.08	0.09
344633	0.15	13	14	152	4	1.3	0.14	0.02
344634	0.17	16	16	138	2	1.6	0.05	<0.02
344635	0.18	42	31	97.0	8	1.7	1.02	0.03
344636	0.81	148	121	108	1352	0.9	0.11	0.14
344637	0.09	5	13	209	3	1.1	<0.04	0.05
344638	0.11	<2	30	205	2	1.3	0.10	0.08
344639	0.13	<2	32	169	2	1.4	0.28	0.11
344640	0.02	<2	46	41.9	57	0.5	0.34	0.17
344641	0.18	2	26	190	3	1.3	0.28	0.05
344642	0.15	3	24	196	3	1.4	0.11	0.03
*Dup 344642	0.15	<2	22	192	3	1.5	0.11	0.03
344643	0.09	3	21	232	4	1.4	0.36	0.08
344644	0.10	4	14	247	3	1.4	0.24	0.04
344645	0.08	3	10	187	5	1.2	0.10	0.05
344646	0.08	3	15	224	4	1.3	0.19	0.03
344647	0.09	3	20	217	3	1.5	0.31	0.08

Provisional : SU1600061B Order: Mining & Exploration - GO_ICM40B 'B'

Report File No.: 0000006495

Element	@Ti	@V	@Zn	@Zr	@As	@Be	@Bi	@Cd
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.01	2	1	0.5	1	0.1	0.04	0.02
Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344648	0.75	135	98	89.9	1	2.7	<0.04	0.06
344649	0.07	2	14	212	9	1.4	0.29	0.08
344650	0.08	6	38	203	2	1.1	0.12	0.18
344651	0.08	5	25	199	10	1.4	0.91	0.10
344652	0.08	4	21	204	10	1.4	0.72	0.03
344653	0.09	3	22	208	4	1.7	0.22	0.05
344654	0.28	132	122	99.9	46	0.6	4.29	0.15
344655	0.19	168	279	85.9	62	0.7	4.57	0.88
344656	0.14	16	43	133	6	1.1	0.34	0.06
344657	0.19	13	22	159	5	1.5	0.18	0.02
344658	0.18	14	23	145	5	1.8	0.12	0.02
344659	0.45	196	75	152	8	1.6	0.32	0.08
344660	0.50	126	84	66.0	19	2.9	1.50	0.09
344661	0.21	14	37	151	10	1.6	1.04	0.09
344662	0.18	13	28	130	7	1.6	4.82	0.12
344663	0.20	14	24	162	<1	1.1	0.05	0.04
344664	0.14	14	24	153	1	1.1	0.09	0.03
344665	0.05	5	10	198	1	1.2	<0.04	0.03
344666	0.14	12	24	144	1	1.3	0.07	0.02
344667	0.16	13	24	161	2	1.5	0.06	0.04
344668	0.19	13	27	158	6	1.3	0.06	0.05
344669	0.19	14	33	158	4	1.5	0.08	0.09
344670	0.10	4	17	148	10	1.4	0.14	0.04
344671	0.64	277	130	16.8	9	0.4	0.30	0.09
344672	0.70	136	99	99.3	<1	2.5	<0.04	0.08
344673	0.16	15	38	144	4	1.5	0.13	0.03
344674	0.16	13	40	142	4	1.5	0.30	0.05
344675	0.17	13	31	142	2	1.3	0.13	0.04
344676	0.17	11	33	142	<1	1.6	0.38	0.09
344677	0.16	13	36	156	1	1.6	0.37	0.09
*Dup 344677	0.17	13	38	139	2	1.6	0.39	0.11
344678	0.15	13	31	144	<1	1.4	0.17	0.08
344679	0.14	13	32	149	<1	1.4	0.13	0.07
344680	0.15	14	32	145	1	1.3	0.22	0.09
344681	0.16	13	25	139	1	1.4	0.05	0.05
344682	0.17	13	27	145	1	1.8	0.05	0.04
344683	0.16	14	30	145	1	1.4	0.09	0.04
344684	0.35	171	99	44.1	7	1.1	4.77	0.12
344685	0.17	13	21	146	4	1.4	0.07	0.02
344686	0.17	13	25	139	2	1.5	0.06	0.03

Element	@Ti	@V	@Zn	@Zr	@As	@Be	@Bi	@Cd
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.01	2	1	0.5	1	0.1	0.04	0.02
Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344687	0.18	13	29	157	2	1.4	0.17	0.05
344688	0.15	13	98	145	2	1.1	0.16	0.32
344689	0.19	15	50	150	1	1.3	0.32	0.09
344690	0.22	45	42	92.7	3	1.2	17.8	0.12
344691	0.10	4	19	165	<1	1.6	0.38	<0.02
344692	0.09	3	20	169	3	1.2	1.00	0.05
344693	0.08	4	31	151	3	1.2	2.38	0.17
344694	0.11	3	31	167	<1	1.3	0.39	0.09
344695	0.08	3	28	164	14	1.3	1.36	0.11
344696	0.72	140	99	94.4	<1	2.2	<0.04	0.12
344697	0.14	17	40	167	2	1.4	0.15	0.07
344698	0.23	29	164	161	3	1.4	0.38	0.51
344699	0.16	12	64	155	<1	1.3	0.18	0.08
344700	0.14	10	75	172	1	1.2	2.38	<0.02
344701	0.22	32	69	140	2	1.0	0.59	0.05
344702	0.16	21	84	151	<1	1.7	0.60	0.39
344703	0.56	84	15	157	16	1.7	3.71	0.05
344704	0.26	59	153	112	4	1.3	1.65	0.64
344705	0.53	123	94	163	6	1.4	0.12	0.07
344706	0.50	119	75	162	2	1.3	0.09	0.05
344707	0.44	93	53	143	4	1.5	0.41	0.07
344708	0.94	153	109	124	652	1.0	0.07	0.10
344709	0.14	20	30	163	<1	1.8	0.07	0.02
344710	0.22	38	60	162	4	1.6	0.67	0.10
344711	0.24	43	44	165	2	1.6	0.12	0.10
344712	0.36	68	50	149	1	1.4	0.07	0.08
*Dup 344712	0.36	66	51	152	2	1.4	0.09	0.09
344713	0.59	116	76	159	1	1.5	0.07	0.04
344714	0.21	15	36	143	1	1.4	0.10	0.06
344715	0.22	13	35	172	1	1.5	0.17	0.05
344716	0.45	83	81	165	2	1.5	0.70	0.05
344717	0.25	20	44	173	2	1.3	0.48	0.07
344718	0.24	14	37	141	1	1.4	0.26	0.03
344719	0.22	14	34	149	1	1.5	0.29	0.07
344720	0.79	150	109	111	<1	2.4	<0.04	0.09
344721	0.22	14	22	147	2	1.4	0.12	0.04
344722	0.21	12	25	116	2	1.5	0.19	0.12
344723	0.20	13	32	135	1	1.4	0.24	0.09
344724	0.81	229	94	139	<1	0.9	0.07	0.10
344725	0.73	194	106	128	<1	1.1	0.08	0.13

Element	@Ti	@V	@Zn	@Zr	@As	@Be	@Bi	@Cd
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.01	2	1	0.5	1	0.1	0.04	0.02
Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344726	0.09	3	17	172	<1	1.2	0.09	0.10
344727	0.07	<2	6	144	<1	1.9	0.37	<0.02
344728	0.07	<2	11	150	<1	2.1	1.09	0.04
344729	0.06	<2	11	148	1	1.5	0.93	0.02
344730	0.14	18	25	164	<1	1.3	0.10	0.03
344731	0.23	49	35	166	<1	1.5	0.08	0.05
344732	0.64	161	129	112	1294	0.8	0.10	0.17
344733	0.49	116	80	167	<1	1.3	0.14	0.05
344734	0.20	19	32	137	<1	1.5	0.17	0.02
344735	0.19	12	24	149	<1	1.3	0.16	<0.02
344736	0.19	12	26	136	2	1.4	0.09	0.03
344737	0.21	12	56	144	1	1.6	0.07	0.06
344738	0.12	7	68	85.4	2	0.8	0.34	0.16
344739	0.18	10	55	124	1	1.0	0.09	0.09
344740	0.12	8	42	69.1	7	0.8	0.79	0.15
344741	0.19	14	76	140	4	1.4	1.33	0.32
344742	0.19	10	43	135	2	1.3	0.28	0.05
344743	0.19	11	44	140	3	1.3	0.29	0.09
344744	0.65	126	95	96.7	<1	2.3	<0.04	0.08
344745	0.22	15	39	139	3	1.6	0.23	0.04
344746	0.20	16	55	128	2	1.0	0.29	0.04
344747	0.52	108	94	154	2	1.4	0.58	0.06
*Dup 344748	0.20	13	44	127	3	1.2	0.37	0.04
344748	0.21	14	44	128	3	1.1	0.34	0.05
344749	0.20	13	39	131	2	1.3	0.07	0.03
344750	0.22	14	33	140	2	1.3	0.11	0.05
344751	0.21	14	42	138	4	1.4	0.09	0.04
344752	0.22	14	27	129	2	1.1	0.08	0.03
344753	0.20	14	31	142	2	1.2	0.10	0.02
344754	0.22	14	31	136	1	1.4	0.92	0.02
344755	0.19	14	22	123	3	1.2	0.06	0.02
344756	0.52	124	85	70.5	20	2.7	1.53	0.11
344757	0.20	13	21	130	<1	1.2	0.07	0.03
344758	0.22	26	29	141	<1	1.0	0.10	0.02
344759	0.31	198	102	39.0	31	0.7	3.47	0.20
344760	0.30	165	170	68.6	49	0.6	2.75	1.17
344761	0.18	12	29	167	<1	1.0	1.64	0.05
344762	0.17	12	34	157	1	0.9	0.14	0.07
344763	0.13	8	37	112	1	0.7	0.10	0.14
344764	0.18	12	26	154	<1	0.9	0.06	0.04

Element	@Ti	@V	@Zn	@Zr	@As	@Be	@Bi	@Cd
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.01	2	1	0.5	1	0.1	0.04	0.02
Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344765	0.19	11	24	159	1	0.9	0.07	0.02
344766	0.18	13	28	149	1	1.3	0.06	0.03
344767	0.40	224	88	23.4	17	0.4	0.08	0.12
344768	0.69	132	91	88.1	<1	2.2	0.05	0.09
344769	0.41	228	79	18.1	4	0.3	0.12	0.08
344770	0.43	228	88	15.7	10	0.2	0.25	0.09
344771	0.30	228	257	22.6	5	0.5	5.86	0.65
344772	0.05	13	193	80.2	55	0.7	15.3	0.67
344773	0.16	12	126	143	24	0.9	0.78	1.19
344774	0.21	14	44	191	3	1.1	0.61	0.16
344775	0.18	22	49	149	<1	1.2	0.20	0.22
344776	1.06	410	117	138	<1	0.6	0.06	0.15
344777	0.16	16	38	159	<1	1.4	0.09	0.10
344778	0.16	19	38	120	3	1.0	0.15	0.20
344779	0.14	21	45	137	3	1.1	0.31	0.15
344780	0.38	189	106	49.5	7	0.9	4.81	0.11
344781	0.11	79	92	145	3	1.2	0.43	0.23
344782	0.19	19	26	199	4	1.2	0.95	<0.02
*Dup 344781	0.11	80	93	151	4	1.4	0.44	0.24
344783	0.17	25	40	191	6	1.1	0.54	0.05
344784	0.15	20	29	133	4	1.1	0.21	0.11
344785	0.07	16	27	108	4	1.0	0.14	0.08
344786	0.09	49	55	196	4	1.3	0.33	0.12
344787	0.12	41	41	195	5	0.9	2.34	0.06
344788	0.25	49	61	213	1	0.9	0.10	0.04
344789	0.18	53	50	214	3	0.9	1.97	0.05
344790	0.25	48	80	203	3	0.8	1.51	0.14
344791	0.25	44	75	203	1	0.8	1.74	0.18
344792	0.61	132	86	90.5	<1	2.4	0.04	0.08
344793	0.16	66	78	192	15	1.1	1.03	0.11
344794	0.08	54	61	202	59	1.1	0.35	0.08
344795	0.08	47	66	188	23	1.2	1.70	0.05
344796	0.06	67	92	179	6	0.7	43.2	0.24
344797	0.08	52	109	167	<1	1.0	0.58	0.28
344798	0.08	37	43	177	8	0.9	0.13	0.10
344799	0.22	75	75	223	14	1.0	0.65	0.07
344800	0.25	43	40	200	5	1.0	0.44	0.11
344801	0.22	47	47	222	28	1.1	0.36	0.10
344802	0.17	37	34	181	1	1.2	0.40	0.08
*Rep 344648	0.76	142	100	101	<1	2.8	0.04	0.10

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Element	@Ti	@V	@Zn	@Zr	@As	@Be	@Bi	@Cd
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.01	2	1	0.5	1	0.1	0.04	0.02
Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
*Rep 344689	0.20	16	52	156	<1	1.5	0.34	0.10
*Rep 344730	0.14	19	24	163	<1	1.5	0.11	0.04
*Rep 344771	0.28	222	243	22.0	7	0.5	5.38	0.75
*Rep 344802	0.17	38	32	190	1	0.9	0.43	0.10
*Std OREAS-901	0.19	80	24	167	N.A.	N.A.	N.A.	N.A.
*Std OREAS-903	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-905	N.A.	N.A.	N.A.	N.A.	35	2.7	5.75	0.39
*Std OREAS-925	0.38	83	408	97.2	N.A.	N.A.	N.A.	N.A.
*Std OREAS-901	0.22	83	24	170	72	6.6	4.66	0.06
*Std OREAS-903	0.16	68	23	136	52	4.3	8.83	0.18
*Std OREAS-905	0.14	9	146	257	N.A.	N.A.	N.A.	N.A.
*Std OREAS-925	N.A.	N.A.	N.A.	N.A.	11	2.2	34.5	0.55
*Std OREAS-901	0.21	77	22	162	74	5.4	4.73	0.06
*Std OREAS-903	N.A.	N.A.	N.A.	N.A.	51	4.1	8.99	0.17
*Blk BLANK	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Blk BLANK	<0.01	<2	1	<0.5	<1	<0.1	<0.04	<0.02
*Blk BLANK	<0.01	<2	1	<0.5	N.A.	N.A.	N.A.	N.A.
*Blk BLANK	<0.01	<2	1	<0.5	<1	<0.1	<0.04	<0.02
*Blk BLANK	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Blk BLANK	<0.01	<2	2	<0.5	<1	<0.1	<0.04	<0.02

Element	@Ce	@Co	@Cs	@Ga	@Hf	@In	@La	@Lu
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.1	1	0.1	0.02	0.02	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344609	75.2	6.2	<1	16.3	4.72	0.03	35.7	0.21
344610	74.5	8.2	<1	16.8	4.69	0.04	35.7	0.23
344611	76.3	36.8	<1	18.2	5.54	0.47	36.0	0.22
344612	38.0	34.9	2	17.0	3.39	0.06	20.1	0.25
344613	64.5	7.0	<1	17.2	4.65	0.04	29.1	0.23
344614	52.2	5.8	<1	15.5	4.24	0.06	24.3	0.22
344615	67.4	6.0	<1	16.7	4.96	0.05	31.5	0.29
344616	77.0	6.8	<1	18.0	5.02	0.04	37.4	0.31
344617	132	7.1	<1	15.6	3.88	0.06	69.7	0.24
344618	67.6	6.5	<1	18.7	5.46	0.05	31.4	0.30
344619	22.3	63.5	<1	7.4	1.47	0.05	9.1	0.09
344620	29.3	72.3	<1	7.8	1.73	0.05	14.2	0.11
344621	24.8	66.0	<1	7.3	1.77	0.04	10.8	0.11
344622	39.5	29.9	<1	11.1	3.69	0.05	17.6	0.24
344623	43.2	10.4	<1	11.9	3.66	0.03	19.7	0.24
344624	72.2	19.2	1	23.8	2.64	0.09	29.4	0.54
344625	21.5	26.7	<1	5.5	1.44	0.04	10.0	0.12
344626	28.2	76.0	<1	8.5	1.77	0.05	12.9	0.11
344627	31.5	70.3	<1	9.9	2.00	0.06	13.8	0.14
344628	30.7	78.1	<1	9.0	1.92	0.05	13.5	0.11
344629	30.5	39.0	<1	8.0	1.73	0.05	14.0	0.13
344630	50.5	33.6	<1	15.8	4.57	0.08	22.6	0.19
344631	51.6	50.7	1	20.0	4.90	0.18	23.4	0.24
344632	51.4	5.8	<1	16.5	5.34	0.04	24.6	0.24
344633	56.2	5.6	<1	17.9	5.38	0.03	25.6	0.24
344634	73.5	6.5	<1	18.2	4.99	0.03	34.8	0.24
344635	63.9	38.5	<1	14.8	3.37	0.14	30.1	0.80
344636	38.5	31.1	4	15.6	2.95	0.07	22.5	0.25
344637	81.4	4.0	<1	16.0	7.34	0.03	38.4	0.27
344638	79.7	3.9	<1	17.6	7.40	0.10	36.3	0.26
344639	86.1	7.5	<1	16.8	6.30	0.09	40.7	0.26
344640	35.3	38.5	<1	5.1	1.49	0.05	16.9	0.15
344641	77.3	6.8	<1	16.7	6.31	0.07	34.3	0.24
344642	64.2	5.9	<1	17.9	6.46	0.07	28.8	0.24
*Dup 344642	63.7	5.6	<1	17.8	6.13	0.07	28.8	0.23
344643	108	6.2	<1	15.4	9.22	0.07	52.1	0.30
344644	92.8	7.9	<1	15.9	9.23	0.05	43.0	0.30
344645	134	8.2	<1	15.8	7.55	0.03	65.2	0.24
344646	91.5	8.8	<1	16.4	7.57	0.05	43.1	0.25
344647	98.4	7.4	<1	15.5	8.40	0.11	47.0	0.29

Element	@Ce	@Co	@Cs	@Ga	@Hf	@In	@La	@Lu
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.1	1	0.1	0.02	0.02	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344648	78.3	20.2	1	24.3	2.82	0.09	33.4	0.55
344649	94.3	10.1	<1	14.7	8.31	0.08	43.6	0.27
344650	102	6.2	<1	14.6	7.92	0.04	50.4	0.28
344651	92.2	12.2	<1	14.4	7.85	0.05	42.8	0.25
344652	90.6	10.4	<1	14.5	8.08	0.03	42.1	0.28
344653	110	4.3	<1	14.1	8.56	0.03	53.0	0.29
344654	45.0	86.1	<1	10.1	3.23	0.04	20.4	0.19
344655	33.9	128	<1	10.5	2.48	0.09	14.9	0.15
344656	66.2	14.5	<1	14.7	5.01	0.07	30.7	0.24
344657	65.4	6.0	<1	17.3	5.57	0.09	29.8	0.26
344658	66.2	6.6	<1	17.8	5.69	0.08	30.8	0.28
344659	102	27.8	2	16.4	4.10	0.05	47.5	0.27
344660	71.1	14.7	11	17.6	2.33	0.21	34.3	0.36
344661	82.2	9.4	<1	17.3	5.55	0.07	37.8	0.24
344662	73.4	10.9	<1	16.7	4.94	0.14	34.0	0.18
344663	77.5	4.1	<1	17.2	6.05	0.05	36.1	0.22
344664	81.3	4.9	<1	17.6	5.72	0.05	38.6	0.26
344665	78.2	2.5	<1	13.9	7.24	0.03	37.8	0.20
344666	69.1	4.6	<1	17.1	5.33	0.06	32.2	0.25
344667	78.0	4.8	<1	17.6	5.92	0.06	36.2	0.26
344668	77.3	5.6	<1	17.7	5.89	0.06	35.6	0.25
344669	84.7	6.4	<1	18.2	5.92	0.06	39.5	0.26
344670	51.1	9.0	<1	14.5	6.00	0.04	24.1	0.55
344671	9.39	33.7	<1	16.0	0.57	0.08	3.5	0.23
344672	77.2	18.7	1	24.3	2.85	0.09	32.1	0.55
344673	83.4	10.3	<1	18.5	5.43	0.09	38.4	0.30
344674	69.4	10.3	<1	18.2	5.40	0.08	32.8	0.27
344675	69.3	7.9	<1	16.7	5.36	0.06	32.2	0.24
344676	65.7	5.9	<1	16.8	5.21	0.06	30.4	0.22
344677	74.1	7.0	<1	18.2	5.81	0.09	34.7	0.23
*Dup 344677	74.6	7.8	<1	18.1	5.35	0.08	35.6	0.23
344678	75.1	5.9	<1	17.3	5.42	0.06	34.9	0.25
344679	70.4	6.3	<1	17.3	5.67	0.08	32.9	0.25
344680	76.6	7.0	<1	17.3	5.49	0.06	36.1	0.25
344681	69.9	4.7	<1	16.5	5.02	0.06	32.6	0.22
344682	87.6	5.0	<1	17.6	5.40	0.07	42.2	0.22
344683	74.5	6.0	<1	17.8	5.44	0.07	34.7	0.23
344684	24.5	19.7	2	14.7	1.48	0.71	12.0	0.25
344685	80.2	6.0	<1	17.5	5.52	0.07	37.3	0.24
344686	75.4	5.2	<1	17.7	5.19	0.08	35.1	0.21

Element	@Ce	@Co	@Cs	@Ga	@Hf	@In	@La	@Lu
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.1	1	0.1	0.02	0.02	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344687	69.1	7.2	<1	17.8	5.83	0.08	32.8	0.23
344688	79.9	6.7	<1	17.1	5.68	0.07	38.1	0.22
344689	142	15.0	<1	18.3	5.55	0.10	72.5	0.23
344690	29.0	34.4	<1	11.5	3.06	0.08	13.9	0.27
344691	64.9	3.9	<1	17.1	6.59	0.07	30.2	0.52
344692	87.0	6.4	<1	16.0	6.58	0.04	40.7	0.59
344693	69.1	7.8	<1	14.9	5.86	0.09	32.6	0.55
344694	86.6	2.6	<1	16.2	6.71	0.04	43.2	0.63
344695	76.4	20.5	<1	14.9	6.06	0.06	36.7	0.67
344696	77.1	19.6	1	24.1	2.73	0.09	32.3	0.54
344697	77.1	1.6	<1	14.4	6.41	0.05	36.9	0.56
344698	97.3	3.8	<1	15.5	5.73	0.08	49.1	0.52
344699	80.5	4.3	<1	17.0	5.65	0.06	38.9	0.19
344700	72.5	4.9	<1	17.3	6.42	0.06	35.5	0.17
344701	86.3	9.4	<1	16.2	4.88	0.04	40.5	0.19
344702	71.0	6.6	<1	19.4	5.68	0.08	33.8	0.21
344703	27.0	28.5	<1	20.6	4.59	0.09	12.9	0.57
344704	39.7	6.5	<1	15.3	3.47	0.10	19.7	0.31
344705	21.4	12.0	<1	20.2	4.73	0.06	9.4	0.69
344706	53.9	11.4	<1	19.1	4.68	0.04	24.9	0.47
344707	36.5	12.3	<1	17.6	4.66	0.07	16.8	0.45
344708	37.3	34.7	2	17.4	3.32	0.07	20.0	0.24
344709	103	4.7	<1	14.1	6.28	0.06	50.8	0.77
344710	58.8	10.2	1	15.1	5.98	0.07	27.1	0.64
344711	38.5	8.5	1	15.6	5.99	0.08	17.9	0.59
344712	39.0	9.8	1	18.1	5.27	0.05	17.8	0.54
*Dup 344712	38.2	10.5	1	18.0	5.44	0.05	17.2	0.56
344713	20.9	14.1	1	21.5	4.64	0.05	9.1	0.45
344714	97.4	5.8	<1	16.4	5.33	0.06	46.8	0.46
344715	69.1	6.2	<1	17.2	5.85	0.07	32.5	0.49
344716	38.6	12.8	2	19.6	5.33	0.06	17.7	0.52
344717	95.6	6.9	<1	17.5	5.65	0.06	47.3	0.47
344718	72.6	5.4	<1	17.6	5.07	0.06	33.6	0.30
344719	68.0	6.3	<1	17.7	5.23	0.06	31.3	0.46
344720	77.2	18.8	1	25.1	2.91	0.08	32.2	0.53
344721	74.2	7.2	<1	18.0	5.25	0.07	34.1	0.54
344722	78.2	6.8	<1	17.9	5.02	0.09	35.6	0.55
344723	61.6	6.0	<1	17.3	5.25	0.08	28.4	0.47
344724	51.5	51.8	<1	18.2	4.01	0.07	23.3	0.28
344725	57.2	46.5	<1	17.7	4.11	0.07	26.1	0.36

Element	@Ce	@Co	@Cs	@Ga	@Hf	@In	@La	@Lu
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.1	1	0.1	0.02	0.02	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344726	96.9	2.5	<1	15.9	6.69	0.02	48.2	0.82
344727	97.3	4.7	<1	15.7	6.55	0.04	47.3	0.90
344728	95.8	3.2	<1	15.8	6.72	0.08	46.6	0.83
344729	81.1	10.0	<1	14.7	6.26	0.08	38.2	0.65
344730	77.0	3.2	<1	17.4	5.97	0.04	36.4	0.61
344731	57.6	5.2	<1	16.8	5.30	0.04	27.8	0.53
344732	36.3	29.4	4	14.5	2.82	0.06	21.9	0.25
344733	29.1	9.0	2	20.1	4.26	0.05	13.4	0.47
344734	51.9	5.1	<1	17.0	4.58	0.04	24.7	0.40
344735	67.1	5.6	<1	18.2	5.60	0.06	31.6	0.56
344736	80.2	6.1	<1	17.5	5.45	0.04	39.0	0.58
344737	66.1	5.2	1	17.5	5.54	0.07	31.0	0.40
344738	53.7	6.1	<1	10.8	2.93	0.09	26.7	0.28
344739	65.7	6.0	1	15.9	4.41	0.06	31.4	0.32
344740	36.8	12.6	<1	10.1	2.41	0.09	18.0	0.19
344741	57.2	24.5	<1	19.3	4.92	0.09	26.4	0.26
344742	67.6	13.7	1	17.1	5.17	0.06	31.5	0.32
344743	71.0	8.3	<1	17.5	5.42	0.04	34.5	0.42
344744	71.4	19.1	1	25.0	2.67	0.08	29.9	0.50
344745	194	5.5	<1	16.7	4.83	0.04	95.2	0.46
344746	120	5.5	<1	17.1	4.59	0.04	57.7	0.27
344747	10.0	18.6	3	23.0	4.68	0.06	4.7	0.68
*Dup 344748	96.8	7.3	<1	17.3	4.89	0.04	49.0	0.48
344748	97.4	6.3	<1	17.4	4.82	0.04	48.7	0.49
344749	77.5	6.5	<1	18.3	5.18	0.04	36.6	0.51
344750	60.5	6.2	<1	16.7	5.05	0.04	28.3	0.45
344751	75.8	7.9	<1	18.6	5.10	0.06	35.7	0.47
344752	67.3	5.8	<1	17.7	4.94	0.05	31.6	0.54
344753	69.2	8.1	<1	17.7	5.01	0.04	32.6	0.33
344754	57.3	9.7	<1	17.6	4.80	0.07	26.5	0.31
344755	57.9	6.6	<1	18.3	4.89	0.06	26.6	0.45
344756	69.7	15.1	11	18.0	2.43	0.20	33.8	0.37
344757	66.0	6.6	<1	18.2	5.00	0.05	30.7	0.53
344758	76.4	12.4	<1	19.1	4.83	0.02	36.0	0.33
344759	12.7	45.6	<1	15.1	1.25	0.07	5.8	0.26
344760	24.3	76.4	<1	14.6	2.24	0.28	11.4	0.17
344761	78.9	24.2	1	18.0	6.06	0.05	36.5	0.24
344762	74.4	9.7	<1	17.5	5.73	0.04	36.0	0.29
344763	49.6	4.7	<1	11.3	3.74	0.06	23.4	0.84
344764	65.5	7.0	<1	16.4	5.24	0.05	31.1	0.35

Element	@Ce	@Co	@Cs	@Ga	@Hf	@In	@La	@Lu
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.1	1	0.1	0.02	0.02	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344765	68.9	7.8	<1	17.2	5.91	0.06	32.4	0.39
344766	74.2	9.0	<1	17.6	5.55	0.08	35.1	0.45
344767	20.1	38.2	<1	13.1	0.72	0.06	8.9	0.26
344768	78.4	21.2	1	24.4	2.77	0.09	32.0	0.58
344769	9.08	38.3	<1	13.4	0.55	0.05	3.8	0.25
344770	5.52	43.4	<1	13.7	0.43	0.05	2.0	0.25
344771	6.86	40.2	<1	12.5	0.59	0.07	2.9	0.20
344772	31.7	54.9	<1	8.7	2.49	0.10	15.3	0.20
344773	63.0	40.0	<1	17.0	5.00	0.11	29.8	0.16
344774	74.4	8.4	<1	18.2	5.92	0.04	34.4	0.20
344775	79.7	8.7	<1	17.9	5.83	0.07	38.3	0.19
344776	31.6	47.4	4	18.5	3.82	0.10	13.9	0.56
344777	50.6	6.0	<1	17.6	5.86	0.04	22.8	0.20
344778	84.7	5.9	<1	17.0	4.14	0.04	39.7	0.25
344779	85.7	6.3	<1	16.9	4.26	0.04	39.8	0.25
344780	24.1	21.1	2	15.5	1.42	0.71	11.8	0.26
344781	75.8	9.0	<1	15.9	4.42	0.05	34.6	0.28
344782	72.7	8.0	<1	15.6	5.45	0.05	33.5	0.36
*Dup 344781	78.8	9.3	<1	16.5	4.30	0.05	36.3	0.28
344783	76.6	9.0	<1	16.4	5.77	0.05	35.9	0.32
344784	81.9	5.4	<1	17.2	4.33	0.03	37.8	0.28
344785	83.0	4.2	<1	16.4	4.05	0.03	39.1	0.27
344786	73.8	11.3	<1	17.3	5.29	0.06	37.6	0.22
344787	54.8	9.6	<1	18.2	6.05	0.06	26.3	0.29
344788	58.4	9.5	<1	18.2	6.03	0.04	28.2	0.34
344789	86.1	4.7	<1	19.2	6.06	0.07	42.4	0.27
344790	52.3	9.8	<1	18.9	5.72	0.07	24.9	0.32
344791	61.1	7.9	<1	18.0	5.70	0.05	29.9	0.29
344792	73.0	21.6	1	25.4	2.73	0.08	30.5	0.53
344793	311	16.1	<1	20.8	5.79	0.16	166	0.56
344794	93.8	9.6	<1	18.1	5.54	0.06	49.2	0.23
344795	127	11.6	<1	19.6	5.68	0.09	65.8	0.26
344796	86.8	19.6	<1	16.3	4.77	0.17	42.0	0.39
344797	94.4	7.4	<1	19.4	4.89	0.09	47.0	0.18
344798	94.4	6.1	<1	17.4	5.36	0.04	47.0	0.25
344799	78.6	14.4	<1	19.3	5.61	0.11	37.7	0.56
344800	43.7	7.6	<1	18.7	5.60	0.05	19.6	0.47
344801	53.1	52.0	<1	20.7	5.95	0.07	23.9	0.55
344802	46.5	7.3	<1	18.9	5.75	0.06	20.7	0.50
*Rep 344648	79.4	20.1	1	23.7	2.86	0.08	33.0	0.54

Element	@Ce	@Co	@Cs	@Ga	@Hf	@In	@La	@Lu
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.1	1	0.1	0.02	0.02	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
*Rep 344689	139	14.6	<1	18.3	5.69	0.10	70.2	0.21
*Rep 344730	76.8	3.0	<1	16.4	5.96	0.05	36.0	0.62
*Rep 344771	6.62	40.2	<1	12.5	0.57	0.08	2.9	0.20
*Rep 344802	47.3	7.4	<1	18.6	5.82	0.05	20.9	0.51
*Std OREAS-901	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-903	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-905	91.9	13.9	7	24.3	7.27	0.65	46.7	0.09
*Std OREAS-925	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-901	94.0	72.6	5	18.4	5.29	0.25	45.9	0.54
*Std OREAS-903	79.9	127	3	15.0	4.64	0.16	40.3	0.36
*Std OREAS-905	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-925	79.3	24.0	6	19.6	3.19	0.68	39.2	0.35
*Std OREAS-901	99.7	76.8	5	19.6	5.44	0.25	49.3	0.56
*Std OREAS-903	79.6	131	3	15.3	4.67	0.15	39.9	0.36
*Blk BLANK	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Blk BLANK	<0.05	<0.1	<1	<0.1	<0.02	<0.02	<0.1	<0.01
*Blk BLANK	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Blk BLANK	<0.05	<0.1	<1	<0.1	<0.02	<0.02	<0.1	<0.01
*Blk BLANK	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Blk BLANK	<0.05	<0.1	<1	<0.1	<0.02	<0.02	<0.1	<0.01

Element	@Mo	@Nb	@Pb	@Rb	@Sb	@Sc	@Se	@Sn
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.1	0.5	0.2	0.05	0.5	2	0.3
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344609	1.53	10.9	2.7	35.1	0.17	6.8	<2	2.7
344610	2.82	11.9	2.4	43.1	0.21	6.6	<2	3.8
344611	6.63	12.8	4.5	43.8	0.26	6.3	2	6.0
344612	3.41	19.8	5.4	22.2	0.84	17.0	<2	1.5
344613	3.10	13.7	2.2	45.7	0.24	7.2	<2	5.4
344614	2.25	9.5	2.3	33.7	0.17	6.5	<2	5.5
344615	2.54	11.1	3.1	37.4	0.16	6.7	<2	5.5
344616	4.17	10.6	2.4	45.0	0.26	7.4	<2	5.4
344617	6.43	9.1	1.7	43.9	0.14	6.0	<2	5.4
344618	3.62	12.4	1.9	37.8	0.19	8.0	<2	5.2
344619	0.61	7.0	1.8	<0.2	0.15	19.5	<2	0.4
344620	0.61	5.1	1.5	<0.2	0.19	18.8	<2	0.4
344621	0.43	4.2	1.6	<0.2	0.15	18.2	<2	0.3
344622	1.25	6.6	2.8	41.2	0.25	13.1	<2	1.9
344623	3.37	6.7	2.3	58.6	0.27	6.0	<2	2.3
344624	0.74	15.8	12.8	103	0.13	19.6	<2	2.9
344625	1.63	1.4	2.3	6.2	0.16	11.7	<2	0.5
344626	0.76	0.9	2.1	0.3	0.21	19.5	<2	<0.3
344627	0.67	2.7	2.8	1.2	0.31	27.4	<2	0.3
344628	0.68	4.5	2.7	6.0	0.19	28.3	<2	0.4
344629	0.76	7.1	2.4	12.2	0.16	19.4	<2	1.0
344630	2.04	14.0	14.8	51.3	0.27	15.9	<2	4.6
344631	1.99	13.7	56.6	97.9	0.47	10.9	2	9.9
344632	3.08	12.6	8.0	41.2	0.34	7.2	<2	6.8
344633	2.09	12.7	3.1	33.0	0.39	7.2	<2	8.1
344634	4.44	10.5	2.4	62.5	0.29	7.6	<2	4.1
344635	2.15	8.5	18.4	48.1	2.58	7.9	2	4.2
344636	3.37	16.5	7.0	19.7	1.59	14.6	2	1.5
344637	3.71	9.9	2.2	49.3	0.23	3.0	<2	3.2
344638	2.02	13.1	3.7	55.2	0.36	5.8	<2	7.4
344639	2.85	13.1	4.7	65.2	0.35	5.5	<2	7.9
344640	0.96	1.4	3.0	17.5	0.20	1.1	<2	2.7
344641	3.18	12.8	3.5	70.2	0.38	6.3	<2	7.9
344642	3.51	12.6	3.5	56.9	0.35	6.1	<2	6.6
*Dup 344642	2.21	13.7	3.3	56.7	0.39	6.2	<2	6.5
344643	2.11	13.2	4.6	70.6	0.31	3.9	<2	3.2
344644	3.53	15.5	4.8	71.8	0.31	4.0	<2	3.5
344645	1.67	14.0	6.1	46.2	0.28	4.0	<2	2.3
344646	2.47	15.8	7.4	49.0	0.31	3.8	<2	2.6
344647	4.66	13.8	4.8	76.6	0.41	3.9	<2	3.5

Element	@Mo	@Nb	@Pb	@Rb	@Sb	@Sc	@Se	@Sn
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.1	0.5	0.2	0.05	0.5	2	0.3
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344648	2.97	13.7	12.9	103	0.11	18.7	<2	2.9
344649	2.12	10.2	6.0	74.6	0.32	3.7	<2	3.2
344650	2.92	11.1	8.8	72.5	3.51	3.8	<2	3.1
344651	1.89	9.4	9.7	88.0	0.44	3.3	<2	4.4
344652	4.65	11.5	6.2	100	0.46	3.7	<2	2.5
344653	1.45	11.6	4.1	77.6	0.28	3.9	<2	2.0
344654	1.81	3.7	5.0	6.5	1.05	17.6	<2	0.9
344655	0.94	2.1	88.0	0.5	1.72	21.1	3	0.5
344656	2.71	9.6	3.9	15.0	0.27	6.1	<2	4.6
344657	1.70	12.4	4.0	56.2	0.30	7.0	<2	9.6
344658	3.48	12.3	3.9	46.9	0.33	6.9	<2	7.5
344659	0.70	4.6	5.5	32.7	0.26	20.3	<2	1.4
344660	107	17.0	22.3	182	0.93	13.1	3	5.5
344661	7.09	12.7	3.9	58.9	0.36	7.0	<2	6.0
344662	2.57	12.3	3.6	93.3	0.45	6.4	<2	10.8
344663	3.05	12.9	3.2	42.9	0.32	7.2	<2	6.6
344664	1.13	11.6	3.2	47.8	0.40	7.2	<2	6.7
344665	3.66	6.4	3.4	35.0	0.25	3.5	<2	2.9
344666	1.38	10.8	3.4	54.7	0.50	6.6	<2	6.6
344667	3.24	11.8	4.3	74.3	0.35	6.2	<2	7.0
344668	1.22	12.1	5.0	61.1	0.33	7.0	<2	6.5
344669	3.37	11.9	9.9	70.9	0.41	7.4	<2	6.0
344670	0.97	8.3	5.2	97.9	0.71	3.2	<2	4.3
344671	1.18	2.2	2.4	15.7	0.57	31.8	<2	0.9
344672	0.77	14.1	12.8	109	0.06	18.8	<2	2.6
344673	5.57	9.9	2.6	46.1	0.31	7.1	<2	6.2
344674	2.95	9.8	2.6	46.4	0.40	7.1	<2	7.1
344675	5.13	10.1	2.5	45.3	0.27	7.1	<2	4.5
344676	2.48	9.6	3.5	40.0	0.19	6.9	<2	6.8
344677	1.39	10.2	3.5	42.1	0.19	7.3	<2	6.0
*Dup 344677	2.94	10.4	3.4	41.5	0.21	7.3	<2	6.0
344678	5.03	8.9	3.6	37.2	0.22	6.9	<2	5.6
344679	2.11	8.9	3.9	38.1	0.20	7.0	<2	6.6
344680	3.40	9.8	4.0	39.6	0.27	6.7	<2	6.3
344681	1.91	9.2	2.8	37.3	0.20	6.9	<2	5.3
344682	3.98	11.1	2.6	71.4	0.24	6.6	<2	5.2
344683	2.12	10.4	2.7	50.6	0.32	6.9	<2	5.2
344684	664	6.7	21.0	64.2	1.24	14.9	10	10.3
344685	3.93	11.0	2.6	47.5	0.24	6.7	<2	4.4
344686	1.86	11.3	2.4	52.4	0.23	6.8	<2	5.4

Element	@Mo	@Nb	@Pb	@Rb	@Sb	@Sc	@Se	@Sn
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.1	0.5	0.2	0.05	0.5	2	0.3
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344687	3.84	11.6	4.1	45.6	0.31	6.8	<2	5.1
344688	1.80	9.9	20.8	42.5	0.32	6.7	<2	4.2
344689	4.73	13.2	3.9	94.4	0.29	7.3	<2	7.8
344690	4.15	5.3	4.0	75.0	0.32	6.1	<2	6.0
344691	2.21	9.9	4.7	117	0.27	3.3	<2	8.1
344692	1.90	9.8	3.9	104	0.24	3.2	<2	4.9
344693	3.28	9.3	4.0	84.9	0.39	3.0	<2	6.1
344694	2.11	10.8	4.0	110	0.25	3.3	<2	3.9
344695	2.74	9.5	4.3	108	0.36	3.4	<2	3.5
344696	1.01	15.7	12.5	107	0.08	19.4	<2	2.8
344697	2.85	9.4	12.1	111	0.33	4.2	<2	4.2
344698	10.6	7.2	103	104	0.30	6.6	<2	5.4
344699	16.9	12.0	8.1	103	0.28	6.9	<2	5.0
344700	795	11.3	5.3	76.4	0.25	5.0	<2	3.9
344701	7.77	10.7	7.6	48.6	0.26	8.2	<2	3.8
344702	2.64	10.4	14.4	119	0.39	7.1	<2	11.0
344703	2.50	9.0	6.1	123	0.32	12.8	<2	10.6
344704	3.35	6.8	47.4	95.3	0.28	8.6	<2	6.2
344705	4.01	7.6	2.6	83.0	0.33	15.6	<2	4.1
344706	2.97	7.5	7.8	94.2	0.30	14.6	<2	4.1
344707	2.76	7.5	3.3	105	0.33	12.7	<2	4.5
344708	3.41	20.2	5.1	22.1	0.75	16.6	<2	1.5
344709	0.54	10.0	4.4	103	0.16	5.1	<2	4.3
344710	1.22	8.4	4.7	104	0.26	6.3	<2	4.6
344711	0.88	9.5	5.1	97.6	0.35	6.4	<2	4.7
344712	0.90	9.3	4.4	93.4	0.29	9.7	<2	4.8
*Dup 344712	1.47	9.4	4.4	92.8	0.33	9.7	<2	4.6
344713	0.86	9.8	2.3	86.4	0.19	14.4	<2	5.1
344714	4.10	11.3	3.4	54.2	0.25	7.1	<2	4.4
344715	6.49	13.0	3.7	47.2	0.24	6.5	<2	4.6
344716	1.01	10.3	3.7	106	0.37	11.3	<2	4.4
344717	4.06	11.7	4.1	47.1	0.21	7.2	<2	5.5
344718	2.54	12.9	3.6	43.1	0.19	7.2	<2	5.7
344719	4.90	11.7	4.3	37.4	0.26	7.2	<2	4.9
344720	1.01	17.2	12.6	107	0.07	18.3	<2	2.8
344721	5.52	12.7	4.7	30.0	0.40	7.1	<2	6.2
344722	4.34	12.6	4.5	33.9	0.23	7.2	<2	6.5
344723	2.66	12.3	5.0	32.3	0.26	7.4	<2	6.8
344724	1.06	8.3	4.6	27.8	0.10	22.9	<2	1.4
344725	1.83	9.0	5.6	27.6	0.21	20.8	<2	1.5

Provisional : SU1600061B Order: Mining & Exploration - GO_ICM40B 'B'

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Element	@Mo	@Nb	@Pb	@Rb	@Sb	@Sc	@Se	@Sn
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.1	0.5	0.2	0.05	0.5	2	0.3
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344726	4.91	11.9	4.7	35.8	0.12	3.2	<2	1.9
344727	3.26	12.8	5.2	68.3	0.10	2.8	<2	3.4
344728	2.08	12.5	4.8	92.9	0.13	3.0	<2	5.4
344729	8.03	9.6	5.7	74.2	0.22	2.7	<2	5.9
344730	2.17	9.3	4.3	106	0.12	5.2	<2	4.2
344731	2.16	10.3	2.5	104	0.19	6.8	<2	3.7
344732	3.35	16.5	7.0	19.7	1.44	13.5	2	1.6
344733	0.81	8.7	1.9	120	0.34	13.0	<2	6.7
344734	5.91	9.1	1.3	57.7	0.19	7.6	<2	5.9
344735	2.26	12.2	2.9	65.7	0.22	7.4	<2	6.5
344736	2.87	12.2	1.1	44.6	0.16	7.1	<2	4.8
344737	2.04	12.9	1.2	125	0.17	6.9	<2	6.3
344738	3.06	7.8	2.6	60.8	0.27	4.0	<2	4.5
344739	2.19	10.8	3.0	105	0.21	6.1	<2	4.9
344740	2.33	6.4	5.3	63.4	0.39	3.8	<2	6.2
344741	1.98	12.1	3.0	102	0.55	6.1	<2	12.9
344742	3.24	12.3	3.2	115	0.41	6.1	<2	6.9
344743	1.92	12.4	4.2	91.4	0.43	6.7	<2	5.4
344744	2.27	15.3	10.3	109	0.08	17.7	<2	2.8
344745	4.70	13.8	1.9	42.5	0.23	7.5	<2	5.0
344746	60.6	14.1	2.4	52.8	0.20	6.7	<2	4.1
344747	1.39	10.4	4.1	135	0.50	15.5	<2	8.7
*Dup 344748	3.89	11.7	3.7	66.9	0.39	7.3	<2	5.4
344748	2.31	11.5	3.4	67.7	0.31	7.2	<2	5.1
344749	2.87	12.1	3.4	60.2	0.28	7.6	<2	4.4
344750	1.89	11.8	3.2	59.9	0.28	7.2	<2	4.2
344751	3.33	12.6	4.6	74.2	0.34	7.4	<2	4.8
344752	2.24	12.5	3.5	41.5	0.35	7.5	<2	4.4
344753	3.29	13.1	2.0	29.9	0.19	6.1	<2	3.8
344754	11.5	11.5	3.2	38.1	0.33	8.1	<2	5.1
344755	3.58	11.1	1.9	30.6	0.19	7.3	<2	4.7
344756	108	18.7	21.9	188	0.88	12.9	3	5.4
344757	1.77	11.6	2.5	22.5	0.21	7.5	<2	4.5
344758	3.70	11.6	3.7	9.4	0.34	9.0	<2	2.1
344759	0.49	2.9	9.9	17.1	0.14	31.1	<2	3.4
344760	3.39	4.6	7.7	36.1	0.27	24.0	5	6.2
344761	2.10	11.8	4.7	68.7	0.27	6.5	<2	6.5
344762	3.83	10.7	10.8	36.0	0.17	6.6	<2	4.1
344763	2.25	7.8	9.5	23.1	0.16	7.4	<2	2.7
344764	2.84	11.0	5.0	37.5	0.18	6.2	<2	3.8

Element	@Mo	@Nb	@Pb	@Rb	@Sb	@Sc	@Se	@Sn
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.1	0.5	0.2	0.05	0.5	2	0.3
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344765	1.37	12.1	3.6	47.6	0.16	6.6	<2	4.4
344766	4.64	11.9	3.7	41.1	0.18	6.9	<2	5.1
344767	3.25	2.7	1.6	4.1	0.21	31.7	<2	0.7
344768	3.66	15.3	12.6	107	0.09	18.8	<2	2.9
344769	0.38	2.3	1.8	15.0	0.22	32.6	<2	1.3
344770	0.89	2.9	2.6	6.2	0.76	36.3	<2	1.3
344771	0.29	1.3	28.1	15.8	0.19	32.0	<2	0.7
344772	3.47	3.6	57.4	43.7	0.15	2.7	2	3.7
344773	1.82	10.0	6.2	75.6	0.17	5.6	3	7.1
344774	4.01	12.2	3.9	103	0.12	7.1	<2	3.8
344775	2.10	10.9	5.5	59.6	0.18	7.4	<2	4.3
344776	1.64	7.0	5.3	45.6	0.28	40.0	<2	1.3
344777	2.11	10.3	4.6	47.0	0.15	7.2	<2	3.7
344778	3.79	10.4	3.9	77.1	0.16	5.5	<2	1.9
344779	2.38	5.2	2.9	88.9	0.24	5.5	<2	1.6
344780	692	6.9	21.0	66.2	1.17	15.3	12	10.1
344781	1.79	3.2	4.8	88.9	0.16	12.2	<2	3.2
344782	4.00	8.5	6.2	78.2	0.16	6.3	<2	3.5
*Dup 344781	2.79	3.5	4.2	91.1	0.17	12.5	<2	3.4
344783	2.55	8.7	6.4	80.0	0.16	7.4	<2	2.8
344784	3.77	7.3	3.9	73.1	0.12	5.6	<2	1.3
344785	2.24	3.1	3.8	76.8	0.09	5.2	<2	1.2
344786	3.59	2.5	3.6	96.1	0.14	12.0	<2	4.1
344787	2.57	3.8	2.8	86.2	0.14	11.1	<2	4.0
344788	3.80	7.8	2.3	18.2	0.18	12.1	<2	2.6
344789	2.60	5.1	2.6	80.6	0.12	11.7	<2	5.4
344790	4.06	8.0	3.7	51.6	0.13	10.6	<2	5.4
344791	58.3	8.2	2.5	48.8	0.10	10.8	<2	3.7
344792	3.90	14.2	12.3	100	0.07	18.9	<2	2.7
344793	6.83	7.7	3.5	54.8	0.14	14.0	<2	3.9
344794	2.40	2.2	3.0	65.2	0.12	12.0	<2	2.1
344795	60.1	1.9	3.2	93.5	0.12	12.5	<2	3.4
344796	4.18	1.3	6.2	66.9	0.15	9.1	<2	3.2
344797	1.80	1.9	26.7	88.3	0.08	11.6	<2	4.0
344798	4.18	2.6	8.9	32.0	0.10	10.9	<2	1.3
344799	2.31	6.7	2.1	3.6	0.14	13.8	<2	1.2
344800	3.56	5.2	3.2	16.5	0.22	11.3	<2	1.4
344801	1.82	5.0	13.4	35.8	0.24	13.1	<2	2.2
344802	2.93	4.2	2.7	14.4	0.19	11.3	<2	1.2
*Rep 344648	3.18	13.7	12.7	101	0.11	18.9	<2	2.7

Element	@Mo	@Nb	@Pb	@Rb	@Sb	@Sc	@Se	@Sn
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.1	0.5	0.2	0.05	0.5	2	0.3
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
*Rep 344689	4.59	13.7	3.7	94.1	0.26	7.2	<2	7.7
*Rep 344730	2.35	9.1	4.5	102	0.12	5.0	<2	4.2
*Rep 344771	0.30	1.3	28.4	15.4	0.18	32.0	<2	0.7
*Rep 344802	3.05	4.1	2.8	14.6	0.18	11.5	<2	1.2
*Std OREAS-901	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-903	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-905	3.27	17.3	30.5	138	2.09	5.2	3	4.1
*Std OREAS-925	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-901	3.47	6.3	17.2	163	2.43	14.1	3	3.4
*Std OREAS-903	4.63	5.1	10.8	142	1.58	10.1	5	2.7
*Std OREAS-905	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-925	1.04	13.8	114	161	1.57	11.9	8	14.5
*Std OREAS-901	3.59	7.0	17.2	170	2.48	15.1	3	3.2
*Std OREAS-903	4.45	4.1	10.9	143	1.54	10.4	5	2.4
*Blk BLANK	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Blk BLANK	<0.05	<0.1	<0.5	<0.2	<0.05	<0.5	<2	0.4
*Blk BLANK	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Blk BLANK	<0.05	<0.1	<0.5	<0.2	<0.05	<0.5	<2	<0.3
*Blk BLANK	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Blk BLANK	<0.05	<0.1	<0.5	<0.2	<0.05	<0.5	<2	<0.3

Element	@Ta	@Tb	@Te	@Th	@Tl	@U	@W	@Y
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.05	0.05	0.2	0.02	0.05	0.1	0.1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344609	0.87	0.62	0.07	7.1	0.14	1.54	0.9	13.0
344610	0.92	0.68	<0.05	6.6	0.11	1.64	1.4	13.3
344611	1.29	0.62	0.15	8.1	0.12	2.22	1.6	11.2
344612	1.58	0.69	0.10	4.0	0.10	0.97	1.0	21.0
344613	1.31	0.58	0.08	6.3	0.13	1.33	1.6	13.1
344614	0.71	0.51	<0.05	5.9	0.09	1.25	1.0	12.4
344615	1.02	0.57	<0.05	6.9	0.09	1.59	1.2	14.6
344616	0.82	0.63	<0.05	6.4	0.11	1.37	1.1	15.5
344617	0.74	0.89	<0.05	4.7	0.09	1.21	1.4	16.1
344618	1.18	0.65	<0.05	6.3	0.08	1.63	1.2	15.8
344619	0.59	0.25	<0.05	0.8	<0.02	0.14	0.2	5.8
344620	0.46	0.36	<0.05	1.1	<0.02	0.19	0.1	10.7
344621	0.36	0.29	<0.05	0.9	<0.02	0.17	0.2	7.2
344622	0.56	0.38	<0.05	3.6	0.11	0.77	0.8	12.1
344623	0.55	0.39	<0.05	4.2	0.15	0.86	0.8	12.1
344624	1.08	1.22	<0.05	4.2	0.42	1.35	0.3	42.5
344625	0.13	0.28	<0.05	1.4	0.02	0.26	0.3	7.2
344626	0.09	0.33	<0.05	1.2	<0.02	0.18	<0.1	8.9
344627	0.27	0.40	<0.05	1.3	<0.02	0.25	0.1	10.6
344628	0.42	0.33	<0.05	1.2	0.03	0.22	0.2	7.8
344629	0.54	0.36	<0.05	1.0	0.04	0.21	1.2	9.4
344630	1.16	0.39	0.09	4.8	0.15	0.93	2.5	9.3
344631	1.07	0.36	0.40	5.3	0.34	1.42	5.2	9.0
344632	1.06	0.43	<0.05	6.6	0.13	1.19	1.7	12.5
344633	1.16	0.47	<0.05	6.3	0.10	1.20	1.3	12.3
344634	0.84	0.58	<0.05	7.0	0.17	1.28	1.0	13.3
344635	0.60	1.05	0.17	4.0	0.14	1.28	1.0	43.5
344636	1.21	0.67	0.12	4.6	0.08	1.27	1.3	21.0
344637	1.14	0.57	<0.05	10.2	0.12	2.12	1.0	12.4
344638	1.28	0.51	<0.05	9.1	0.15	1.78	1.3	12.1
344639	1.29	0.55	<0.05	7.7	0.21	1.76	1.3	11.5
344640	0.12	0.52	0.07	1.9	0.07	0.38	0.3	13.7
344641	1.05	0.52	0.09	6.7	0.34	1.36	1.2	11.9
344642	0.92	0.47	<0.05	6.6	0.20	1.26	1.3	11.8
*Dup 344642	1.17	0.47	<0.05	6.3	0.19	1.21	1.3	11.0
344643	1.20	0.61	0.09	12.7	0.21	2.57	1.3	13.0
344644	1.56	0.58	0.06	12.4	0.23	2.70	1.1	12.4
344645	1.55	0.81	<0.05	12.0	0.14	2.24	0.9	11.1
344646	1.51	0.56	<0.05	11.0	0.17	2.34	1.1	9.4
344647	1.13	0.61	0.09	12.1	0.22	2.63	1.1	12.5

Element	@Ta	@Tb	@Te	@Th	@Tl	@U	@W	@Y
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.05	0.05	0.2	0.02	0.05	0.1	0.1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344648	0.83	1.19	<0.05	5.0	0.45	1.34	0.2	40.3
344649	0.82	0.55	0.10	11.9	0.22	2.38	1.3	11.0
344650	0.82	0.59	<0.05	10.5	0.20	2.07	1.1	12.2
344651	0.73	0.52	0.19	10.3	0.25	1.95	1.1	11.0
344652	0.93	0.56	<0.05	11.8	0.29	1.97	1.6	13.0
344653	0.98	0.62	<0.05	12.7	0.23	2.21	1.2	12.8
344654	0.30	0.45	1.33	3.3	0.06	0.64	0.5	10.6
344655	0.18	0.43	1.41	1.7	0.13	0.38	0.3	11.1
344656	0.72	0.50	0.10	6.5	0.05	1.09	0.5	11.5
344657	1.01	0.55	0.11	7.0	0.19	1.38	1.0	13.3
344658	1.04	0.56	<0.05	7.3	0.15	1.46	0.9	14.1
344659	0.31	0.83	<0.05	6.9	0.20	1.65	0.3	20.2
344660	1.53	0.71	0.06	18.8	0.90	4.72	3.7	24.4
344661	1.13	0.52	0.40	7.3	0.20	1.60	1.8	12.2
344662	1.11	0.43	2.31	6.5	0.30	1.25	2.9	7.7
344663	1.10	0.56	<0.05	7.5	0.14	1.40	1.0	11.2
344664	0.80	0.58	<0.05	6.5	0.16	1.42	1.0	12.9
344665	0.58	0.49	<0.05	8.5	0.11	2.09	0.6	9.0
344666	0.83	0.57	<0.05	6.8	0.18	1.40	1.1	13.3
344667	0.97	0.55	<0.05	7.3	0.24	1.45	1.1	12.7
344668	1.04	0.58	<0.05	7.2	0.20	1.52	0.7	12.8
344669	1.04	0.57	<0.05	7.3	0.23	1.50	0.7	13.0
344670	1.09	0.47	<0.05	12.4	0.32	4.13	1.3	14.4
344671	0.18	0.46	<0.05	0.3	0.06	0.08	<0.1	13.8
344672	0.91	1.19	<0.05	4.3	0.46	1.32	0.1	41.9
344673	0.82	0.74	0.06	6.9	0.14	1.67	0.5	14.9
344674	0.84	0.65	<0.05	6.6	0.14	1.69	0.6	13.9
344675	0.85	0.59	<0.05	6.7	0.14	2.37	0.5	13.2
344676	0.89	0.59	<0.05	6.7	0.14	1.67	0.7	11.5
344677	0.87	0.63	0.08	6.8	0.14	1.59	0.8	12.5
*Dup 344677	0.88	0.63	0.09	6.8	0.15	1.49	0.9	12.5
344678	0.78	0.63	<0.05	6.9	0.14	1.55	0.6	13.0
344679	0.77	0.62	<0.05	6.5	0.14	1.73	0.4	12.8
344680	0.85	0.68	<0.05	6.8	0.14	1.40	0.7	14.2
344681	0.91	0.68	<0.05	6.5	0.13	1.24	0.3	12.8
344682	1.04	0.64	<0.05	6.9	0.21	1.24	1.0	12.8
344683	0.88	0.62	<0.05	6.9	0.25	1.18	0.7	12.4
344684	0.60	0.41	0.40	3.9	0.31	1.15	3.1	14.0
344685	0.97	0.67	<0.05	7.2	0.19	1.23	0.6	13.1
344686	1.00	0.57	<0.05	7.1	0.16	1.31	0.7	11.6

Element	@Ta	@Tb	@Te	@Th	@Tl	@U	@W	@Y
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.05	0.05	0.2	0.02	0.05	0.1	0.1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344687	1.11	0.59	<0.05	7.0	0.14	1.24	0.8	13.0
344688	0.91	0.57	<0.05	7.2	0.13	1.39	1.4	12.4
344689	1.13	0.81	<0.05	7.5	0.31	1.42	3.1	13.3
344690	0.48	0.31	0.87	3.8	0.24	1.30	3.3	9.3
344691	1.26	0.54	<0.05	14.4	0.35	3.42	3.0	17.1
344692	1.30	0.64	<0.05	13.9	0.31	3.25	1.7	18.9
344693	1.18	0.57	0.17	12.1	0.26	2.96	1.5	18.0
344694	1.35	0.62	<0.05	14.0	0.31	3.46	1.7	20.2
344695	1.17	0.52	0.05	13.1	0.31	3.42	1.8	19.0
344696	1.14	1.25	<0.05	4.1	0.43	2.73	0.3	42.3
344697	1.20	0.46	<0.05	12.4	0.31	3.34	2.6	14.1
344698	0.92	0.59	<0.05	10.6	0.31	3.51	3.9	14.4
344699	1.12	0.45	<0.05	8.3	0.30	1.76	3.1	10.0
344700	0.98	0.41	0.15	7.4	0.22	1.79	2.1	8.1
344701	0.88	0.55	<0.05	7.2	0.15	1.43	1.4	11.0
344702	0.99	0.49	<0.05	8.0	0.30	1.54	4.0	11.5
344703	0.68	0.43	<0.05	3.1	0.34	3.03	7.4	17.0
344704	0.51	0.48	<0.05	3.3	0.26	1.36	3.3	16.5
344705	0.74	0.55	<0.05	3.6	0.24	1.73	2.0	26.4
344706	0.79	0.55	<0.05	4.4	0.25	1.22	1.6	20.7
344707	0.79	0.43	<0.05	5.3	0.29	1.80	1.7	15.2
344708	1.62	0.70	<0.05	4.0	0.08	0.98	0.8	21.0
344709	1.24	0.76	<0.05	16.2	0.27	4.23	1.8	21.8
344710	1.07	0.50	<0.05	11.6	0.32	3.53	1.9	15.8
344711	1.27	0.41	<0.05	10.6	0.32	3.35	1.4	15.3
344712	1.09	0.47	<0.05	8.6	0.33	2.81	1.0	17.8
*Dup 344712	1.08	0.46	<0.05	9.0	0.32	2.94	1.1	17.9
344713	0.89	0.49	<0.05	3.4	0.29	1.52	1.2	22.5
344714	1.12	1.21	<0.05	6.9	0.17	1.14	0.9	37.7
344715	1.34	0.99	<0.05	8.2	0.12	1.71	1.2	34.3
344716	1.08	0.52	<0.05	6.2	0.37	2.20	2.1	20.7
344717	1.08	1.07	<0.05	6.6	0.14	1.23	1.0	33.7
344718	1.19	0.67	<0.05	7.1	0.13	1.26	0.8	20.5
344719	1.05	1.01	<0.05	6.4	0.10	1.16	0.8	33.4
344720	1.26	1.23	<0.05	4.1	0.42	1.69	0.3	41.8
344721	1.21	1.07	<0.05	7.4	0.09	1.42	0.7	38.1
344722	1.15	1.11	<0.05	7.2	0.10	1.59	0.8	38.4
344723	1.10	0.81	<0.05	6.8	0.10	1.48	0.9	29.0
344724	0.61	0.70	<0.05	2.6	0.14	0.42	0.1	20.5
344725	0.74	0.79	<0.05	4.6	0.26	0.84	0.4	24.8

Element	@Ta	@Tb	@Te	@Th	@Tl	@U	@W	@Y
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.05	0.05	0.2	0.02	0.05	0.1	0.1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344726	1.64	1.24	<0.05	16.6	0.11	3.70	1.1	44.4
344727	1.75	1.26	<0.05	17.4	0.15	3.94	1.4	45.8
344728	1.74	1.23	<0.05	17.2	0.21	3.88	1.7	42.5
344729	1.45	0.87	<0.05	15.8	0.19	3.36	1.6	26.5
344730	1.25	0.69	<0.05	13.1	0.30	3.48	1.9	21.1
344731	1.09	0.59	<0.05	10.9	0.32	3.03	2.3	19.5
344732	1.27	0.73	0.12	4.2	0.09	1.27	1.3	20.6
344733	0.72	0.50	<0.05	3.5	0.49	2.20	3.9	21.0
344734	0.77	0.84	<0.05	6.5	0.18	1.34	2.4	24.1
344735	1.06	1.00	<0.05	7.2	0.18	1.57	2.7	33.6
344736	1.16	1.02	<0.05	6.8	0.12	1.60	1.8	35.4
344737	1.20	0.69	<0.05	7.2	0.35	1.48	2.5	21.6
344738	0.69	0.59	<0.05	4.0	0.17	1.04	2.0	17.4
344739	1.07	0.66	<0.05	6.4	0.29	1.56	2.6	18.7
344740	0.58	0.42	<0.05	3.0	0.17	0.77	2.3	14.6
344741	1.14	0.50	<0.05	6.4	0.30	1.29	3.5	13.3
344742	1.20	0.65	<0.05	6.9	0.34	1.50	2.3	18.8
344743	1.24	0.86	<0.05	7.5	0.27	1.76	2.1	25.8
344744	0.94	1.16	<0.05	3.6	0.44	1.19	0.3	38.9
344745	1.16	1.89	<0.05	8.9	0.13	2.13	1.4	39.8
344746	1.16	0.94	<0.05	6.3	0.17	1.07	1.4	20.1
344747	0.84	0.34	<0.05	2.8	0.56	2.75	2.7	18.7
*Dup 344748	1.11	1.00	<0.05	6.4	0.20	1.45	1.7	31.1
344748	1.02	1.03	<0.05	6.4	0.20	1.46	1.5	31.2
344749	1.16	0.93	<0.05	7.0	0.18	1.59	1.2	32.3
344750	1.09	0.79	<0.05	6.2	0.16	1.49	1.1	27.5
344751	1.14	0.90	<0.05	6.6	0.20	1.59	1.2	30.3
344752	1.18	1.02	<0.05	6.3	0.12	1.43	0.8	35.0
344753	1.09	0.79	<0.05	5.6	0.07	1.51	0.9	23.1
344754	1.03	0.69	<0.05	5.6	0.10	1.09	1.0	20.8
344755	1.00	0.89	<0.05	6.1	0.07	1.42	0.6	27.6
344756	1.61	0.69	0.07	17.4	0.87	4.38	4.0	24.9
344757	1.05	1.08	<0.05	6.5	0.07	1.40	0.5	36.5
344758	1.03	0.82	<0.05	6.4	0.03	1.20	0.3	24.5
344759	0.27	0.37	0.08	0.8	0.03	0.25	1.0	13.8
344760	0.43	0.37	0.27	2.2	0.10	0.50	2.7	8.6
344761	1.13	0.72	<0.05	7.6	0.20	1.77	4.1	14.6
344762	1.01	0.77	<0.05	6.8	0.11	1.72	1.3	17.4
344763	0.72	1.10	<0.05	4.7	0.06	1.10	0.7	41.2
344764	0.96	0.70	<0.05	6.4	0.09	1.43	0.7	22.0

Element	@Ta	@Tb	@Te	@Th	@Tl	@U	@W	@Y
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.05	0.05	0.2	0.02	0.05	0.1	0.1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344765	1.15	0.78	<0.05	6.9	0.12	1.51	0.8	23.3
344766	1.14	1.03	<0.05	7.1	0.10	1.59	0.9	32.1
344767	0.29	0.60	<0.05	0.4	<0.02	0.12	0.1	19.2
344768	0.93	1.29	<0.05	4.2	0.47	1.35	0.2	42.9
344769	0.22	0.38	<0.05	0.5	0.10	0.11	0.1	15.7
344770	0.17	0.34	<0.05	<0.2	0.04	<0.05	0.1	15.6
344771	0.11	0.29	0.16	<0.2	0.06	<0.05	0.3	10.8
344772	0.28	0.37	0.49	3.1	0.09	0.73	1.4	11.4
344773	0.88	0.46	0.06	6.0	0.18	1.37	1.9	7.4
344774	1.08	0.50	<0.05	6.2	0.24	1.67	1.3	9.9
344775	0.86	0.54	<0.05	6.1	0.15	3.46	0.9	10.0
344776	0.55	0.88	<0.05	2.5	0.32	0.55	0.2	33.9
344777	0.84	0.46	<0.05	6.6	0.10	2.21	0.6	10.3
344778	1.06	0.52	<0.05	8.6	0.23	1.87	0.6	12.6
344779	0.54	0.54	<0.05	8.7	0.26	1.85	0.6	12.9
344780	0.60	0.41	0.38	3.9	0.28	1.17	3.0	14.4
344781	0.28	0.61	<0.05	6.1	0.28	1.48	0.9	14.1
344782	0.83	0.74	<0.05	6.3	0.23	1.46	1.2	24.0
*Dup 344781	0.31	0.67	<0.05	6.2	0.29	1.52	1.0	14.2
344783	0.77	0.59	<0.05	7.0	0.24	1.64	1.2	16.2
344784	0.76	0.55	<0.05	8.4	0.22	1.90	0.6	14.2
344785	0.36	0.53	<0.05	8.2	0.22	1.79	0.4	13.9
344786	0.20	0.61	<0.05	5.2	0.30	1.53	1.9	12.6
344787	0.40	0.58	<0.05	5.4	0.26	1.37	2.0	13.8
344788	0.83	0.73	<0.05	5.2	0.05	1.36	0.6	21.7
344789	0.54	0.70	<0.05	5.5	0.21	1.87	1.4	15.6
344790	0.73	0.60	<0.05	4.9	0.15	1.33	1.0	15.7
344791	0.83	0.64	<0.05	5.0	0.14	1.45	1.2	17.1
344792	0.90	1.19	<0.05	3.8	0.42	1.25	0.2	40.3
344793	0.52	1.56	<0.05	5.5	0.16	2.55	0.9	38.2
344794	0.24	0.70	<0.05	5.3	0.19	1.40	1.0	14.2
344795	0.19	0.88	<0.05	5.6	0.27	1.83	2.4	16.0
344796	0.11	0.85	0.13	4.4	0.21	1.43	2.1	17.9
344797	0.17	0.80	<0.05	4.9	0.26	1.17	2.8	12.8
344798	0.28	0.76	<0.05	5.3	0.10	1.51	0.9	17.3
344799	0.70	1.01	<0.05	4.9	<0.02	1.24	0.3	30.7
344800	0.65	0.74	<0.05	5.3	0.04	1.32	0.5	30.1
344801	0.61	0.94	<0.05	6.1	0.10	1.43	1.0	34.8
344802	0.52	0.82	<0.05	5.3	0.04	1.46	0.3	32.4
*Rep 344648	0.82	1.21	<0.05	5.1	0.45	1.36	0.2	40.6

Element	@Ta	@Tb	@Te	@Th	@Tl	@U	@W	@Y
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.05	0.05	0.2	0.02	0.05	0.1	0.1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
*Rep 344689	1.13	0.80	0.05	7.3	0.29	1.42	2.9	13.2
*Rep 344730	1.19	0.67	<0.05	13.1	0.30	3.49	1.9	20.2
*Rep 344771	0.10	0.30	0.11	<0.2	0.05	<0.05	0.3	10.6
*Rep 344802	0.54	0.85	<0.05	5.4	0.04	1.49	0.4	32.7
*Std OREAS-901	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-903	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-905	1.45	0.71	0.05	15.3	0.69	4.67	2.6	15.7
*Std OREAS-925	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-901	0.65	1.06	0.06	16.8	0.72	10.3	2.5	37.3
*Std OREAS-903	0.52	0.73	<0.05	13.5	0.59	7.15	1.7	22.4
*Std OREAS-905	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-925	1.26	0.73	<0.05	16.9	0.97	2.81	6.5	23.7
*Std OREAS-901	0.66	1.08	0.07	17.0	0.79	10.3	2.8	38.4
*Std OREAS-903	0.42	0.73	<0.05	14.0	0.59	7.40	1.3	22.5
*Blk BLANK	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05	<0.1	<0.1
*Blk BLANK	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05	<0.1	<0.1
*Blk BLANK	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05	<0.1	<0.1

Element	@Yb
Method	GE_ICM40B
Det.Lim.	0.1
Units	ppm
344609	1.3
344610	1.5
344611	1.3
344612	1.7
344613	1.5
344614	1.4
344615	1.8
344616	2.1
344617	1.4
344618	1.9
344619	0.6
344620	0.8
344621	0.7
344622	1.4
344623	1.5
344624	3.8
344625	0.8
344626	0.8
344627	1.0
344628	0.7
344629	0.9
344630	1.2
344631	1.3
344632	1.7
344633	1.5
344634	1.4
344635	5.2
344636	1.7
344637	1.5
344638	1.5
344639	1.5
344640	1.0
344641	1.5
344642	1.5
*Dup 344642	1.4
344643	1.8
344644	1.7
344645	1.5
344646	1.4
344647	1.7

Element	@Yb
Method	GE_ICM40B
Det.Lim.	0.1
Units	ppm
344648	3.8
344649	1.7
344650	1.6
344651	1.5
344652	1.7
344653	1.8
344654	1.2
344655	1.1
344656	1.5
344657	1.7
344658	1.7
344659	1.8
344660	2.4
344661	1.4
344662	1.0
344663	1.3
344664	1.6
344665	1.2
344666	1.5
344667	1.6
344668	1.6
344669	1.6
344670	2.8
344671	1.5
344672	3.7
344673	1.8
344674	1.7
344675	1.5
344676	1.3
344677	1.4
*Dup 344677	1.4
344678	1.5
344679	1.5
344680	1.7
344681	1.4
344682	1.4
344683	1.6
344684	1.5
344685	1.5
344686	1.3

Element	@Yb
Method	GE_ICM40B
Det.Lim.	0.1
Units	ppm
344687	1.4
344688	1.4
344689	1.4
344690	1.5
344691	3.0
344692	3.4
344693	3.1
344694	3.6
344695	3.6
344696	3.8
344697	3.1
344698	2.6
344699	1.1
344700	1.0
344701	1.3
344702	1.3
344703	3.0
344704	1.8
344705	4.0
344706	2.8
344707	2.4
344708	1.8
344709	4.1
344710	3.4
344711	3.1
344712	3.1
*Dup 344712	3.0
344713	2.7
344714	3.7
344715	3.6
344716	3.0
344717	3.4
344718	2.1
344719	3.3
344720	3.7
344721	3.8
344722	3.8
344723	3.1
344724	2.0
344725	2.5

Element	@Yb
Method	GE_ICM40B
Det.Lim.	0.1
Units	ppm
344726	5.4
344727	5.7
344728	5.4
344729	3.9
344730	3.2
344731	2.9
344732	1.7
344733	2.8
344734	2.5
344735	3.8
344736	3.9
344737	2.6
344738	1.7
344739	2.1
344740	1.3
344741	1.6
344742	2.1
344743	2.7
344744	3.5
344745	3.2
344746	1.7
344747	3.3
*Dup 344748	3.3
344748	3.3
344749	3.5
344750	3.1
344751	3.2
344752	3.9
344753	2.2
344754	2.2
344755	3.1
344756	2.4
344757	3.9
344758	2.3
344759	1.6
344760	1.0
344761	1.5
344762	1.9
344763	5.4
344764	2.3

Element	@Yb
Method	GE_ICM40B
Det.Lim.	0.1
Units	ppm
344765	2.5
344766	3.0
344767	1.7
344768	4.0
344769	1.8
344770	1.7
344771	1.3
344772	1.3
344773	0.9
344774	1.2
344775	1.3
344776	3.8
344777	1.2
344778	1.5
344779	1.5
344780	1.6
344781	1.6
344782	2.4
*Dup 344781	1.6
344783	2.1
344784	1.7
344785	1.7
344786	1.6
344787	2.0
344788	2.3
344789	1.7
344790	2.0
344791	1.9
344792	3.7
344793	3.7
344794	1.5
344795	1.7
344796	2.3
344797	1.1
344798	1.6
344799	3.6
344800	3.2
344801	3.7
344802	3.5
*Rep 344648	3.7

Element	@Yb
Method	GE_ICM40B
Det.Lim.	0.1
Units	ppm
*Rep 344689	1.4
*Rep 344730	3.2
*Rep 344771	1.3
*Rep 344802	3.5
*Std OREAS-901	N.A.
*Std OREAS-903	N.A.
*Std OREAS-905	0.7
*Std OREAS-925	N.A.
*Std OREAS-901	3.6
*Std OREAS-903	2.3
*Std OREAS-905	N.A.
*Std OREAS-925	2.4
*Std OREAS-901	3.6
*Std OREAS-903	2.4
*Blk BLANK	N.A.
*Blk BLANK	<0.1
*Blk BLANK	N.A.
*Blk BLANK	<0.1
*Blk BLANK	N.A.
*Blk BLANK	<0.1

Certificate of Analysis

Work Order : SU1600061B

[Report File No.: 0000006508]

To: **Alan Smith** Date: Mar 15, 2016

TRELAWNEY MINING AND EXPLORATION INC
3 MESOMIKENDA LAKE ROAD BOX 100
GOGAMA ON P0M 1W0

P.O. No.	:	Mining & Exploration - GO_ICM40B 'B'
Project No.	:	CKE_PROJECT_234
No. Of Samples	:	194
Date Submitted	:	Jan 29, 2016
Report Comprises	:	Pages 1 to 43 (Inclusive of Cover Sheet)

Distribution of unused material:
To Be Determined:

Comments:

Preliminary Reporrt for review by client

Certified By : Debbie Waldon
Debbie Waldon
Project Coordinator

SGS Minerals Services (Lakefield) is accredited by Standards Council of Canada (SCC) and conforms to the requirements of ISO/IEC 17025 for specific tests as indicated on the scope of accreditation to be found at http://www.scc.ca/en/programs/lab/mineral.shtml

Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	--	= No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted

Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

Element	@Ag	@Al	@Ba	@Ca	@Cr	@Cu	@Fe	@K
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.02	0.01	1	0.01	1	0.5	0.01	0.01
Units	ppm	%	ppm	%	ppm	ppm	%	%
344609	0.07	6.31	397	1.10	18	212	3.34	1.06
344610	<0.02	6.22	502	0.97	28	65.2	3.48	1.44
344611	2.73	6.50	465	0.62	33	6646	5.09	1.29
344612	0.20	7.34	365	4.88	194	82.1	8.73	0.78
344613	0.07	6.64	460	1.11	26	15.2	3.85	1.34
344614	0.10	6.15	401	1.16	30	280	3.45	1.13
344615	0.03	6.52	398	1.33	27	18.4	3.61	1.19
344616	0.02	6.85	431	1.58	23	31.9	3.77	1.35
344617	0.03	5.51	498	2.21	30	103	4.06	1.51
344618	<0.02	7.38	400	2.11	24	29.1	3.48	1.27
344619	0.08	2.40	2	9.30	921	254	6.81	<0.01
344620	0.07	2.61	3	9.18	874	169	6.96	<0.01
344621	0.07	2.49	1	8.49	766	92.8	8.07	<0.01
344622	0.09	4.38	585	5.37	249	144	5.79	1.43
344623	0.06	4.47	745	5.04	23	19.4	4.54	2.01
344624	0.03	9.91	659	4.32	20	29.0	5.72	1.93
344625	0.03	2.11	89	9.52	161	78.7	6.55	0.20
344626	0.07	2.79	5	7.47	899	125	8.40	<0.01
344627	0.11	3.22	19	7.73	648	312	9.05	0.02
344628	0.11	2.99	74	8.53	652	222	8.74	0.12
344629	0.18	2.59	223	10.9	392	198	8.41	0.36
344630	0.61	5.98	651	3.09	272	831	7.56	1.64
344631	5.46	6.20	1042	0.91	60	5788	6.38	2.85
344632	0.08	6.63	317	0.93	18	55.9	2.83	1.15
344633	0.06	7.34	210	0.49	32	34.6	3.55	1.04
344634	0.06	6.93	345	0.79	26	60.5	3.71	1.95
344635	0.94	4.82	206	4.04	65	1522	10.3	1.57
344636	0.28	6.54	476	4.57	139	123	10.7	0.65
344637	0.07	6.30	250	0.55	21	20.9	2.30	1.47
344638	1.07	6.38	242	0.85	24	377	2.66	1.63
344639	0.25	5.98	285	1.93	16	267	2.96	1.98
344640	0.74	1.50	83	13.7	7	388	6.10	0.61
344641	0.22	6.33	288	2.23	23	125	3.45	2.28
344642	0.04	6.38	176	1.26	19	66.8	2.86	1.78
*Dup 344642	0.04	6.40	173	1.26	18	61.7	2.76	1.78
344643	0.72	6.13	172	1.34	12	913	1.95	2.08
344644	0.63	6.31	190	0.85	20	605	2.06	2.13
344645	0.23	6.07	125	1.05	17	176	1.58	1.34
344646	0.28	5.71	124	0.85	15	470	1.82	1.50
344647	1.35	6.23	192	1.24	21	1281	2.25	2.19

Element	@Ag	@Al	@Ba	@Ca	@Cr	@Cu	@Fe	@K
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.02	0.01	1	0.01	1	0.5	0.01	0.01
Units	ppm	%	ppm	%	ppm	ppm	%	%
344648	0.06	9.95	640	4.29	21	23.6	5.98	1.95
344649	1.07	6.26	197	1.06	10	995	1.69	2.23
344650	0.62	5.78	220	2.27	21	332	2.65	2.19
344651	0.35	5.52	365	1.38	16	376	2.20	2.67
344652	0.19	6.00	484	1.09	26	219	2.65	2.81
344653	0.13	6.09	609	1.22	12	213	2.14	2.30
344654	0.32	3.77	116	6.44	499	174	7.30	0.21
344655	1.44	3.08	4	8.53	725	754	9.08	0.01
344656	0.24	6.19	172	1.58	29	506	3.97	0.44
344657	0.06	6.59	550	0.94	21	163	3.59	1.56
344658	<0.02	6.65	665	0.90	15	141	3.09	1.29
344659	0.09	7.64	163	4.49	7	47.1	6.30	0.46
344660	0.73	7.93	965	2.59	55	2608	4.48	3.24
344661	0.35	6.72	744	0.50	24	396	3.91	1.58
344662	0.70	6.02	644	0.32	18	626	3.87	2.42
344663	0.06	6.63	259	0.69	21	54.9	3.35	1.21
344664	0.03	6.49	238	1.00	12	73.3	3.46	1.30
344665	<0.02	5.90	151	0.86	15	12.1	2.19	0.92
344666	<0.02	6.50	244	1.36	15	23.9	3.67	1.55
344667	<0.02	6.46	322	1.25	19	26.3	3.26	2.01
344668	0.04	6.60	258	1.27	11	36.6	3.28	1.74
344669	0.14	6.69	246	1.14	15	119	3.14	2.02
344670	0.13	5.71	293	1.63	7	80.0	1.97	2.77
344671	0.10	6.27	92	5.82	40	82.7	9.16	0.33
344672	<0.02	9.93	721	4.36	14	18.7	5.87	2.06
344673	0.08	6.75	677	1.38	14	518	3.76	1.25
344674	0.10	6.77	469	1.09	19	515	4.15	1.18
344675	0.07	6.52	378	1.18	14	410	3.53	1.19
344676	0.16	6.57	262	1.25	23	272	3.59	0.99
344677	0.19	6.51	255	1.08	14	251	3.89	0.95
*Dup 344677	0.21	6.39	264	1.07	19	291	3.91	0.96
344678	0.09	6.44	266	1.12	17	84.9	3.58	0.88
344679	0.07	6.35	280	1.11	13	197	3.57	0.87
344680	0.05	6.60	297	1.11	19	51.7	3.60	0.91
344681	0.03	6.35	283	1.19	17	10.7	3.32	0.83
344682	<0.02	6.43	338	1.46	23	28.9	3.76	1.77
344683	0.10	6.52	248	1.18	19	71.0	3.88	1.26
344684	3.28	7.05	561	2.79	44	>10000	7.67	2.90
344685	0.03	6.56	272	1.17	25	39.7	3.51	1.19
344686	<0.02	6.62	293	1.15	20	120	3.46	1.32

Element	@Ag	@Al	@Ba	@Ca	@Cr	@Cu	@Fe	@K
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.02	0.01	1	0.01	1	0.5	0.01	0.01
Units	ppm	%	ppm	%	ppm	ppm	%	%
344687	0.35	6.72	218	1.13	27	389	3.26	1.13
344688	0.34	6.72	189	0.81	23	306	3.28	1.06
344689	0.43	6.87	417	0.49	26	453	4.57	2.30
344690	0.33	4.10	314	4.79	16	233	8.16	2.07
344691	0.11	6.13	579	0.53	17	114	2.51	3.00
344692	0.18	6.11	534	0.62	16	167	3.02	2.74
344693	13.8	5.25	385	0.08	18	7634	4.26	2.14
344694	0.17	6.26	485	0.55	10	122	2.24	2.85
344695	0.37	5.24	436	1.17	15	235	2.86	2.92
344696	0.10	9.78	648	4.43	21	20.9	5.82	1.91
344697	0.23	6.15	523	1.00	13	106	2.31	2.91
344698	0.37	6.18	408	2.28	10	213	3.93	2.62
344699	0.13	6.78	349	2.05	24	108	3.94	2.78
344700	0.18	6.75	268	0.45	24	137	4.40	2.03
344701	0.24	6.16	170	1.43	100	91.2	5.18	1.29
344702	0.53	6.69	459	0.83	21	145	2.79	3.19
344703	0.53	7.24	209	2.63	15	569	6.57	3.45
344704	0.54	5.66	312	6.33	21	112	4.39	2.65
344705	0.09	8.40	218	1.13	8	44.6	7.34	2.14
344706	0.06	7.61	238	2.00	6	35.9	6.36	2.52
344707	0.32	7.43	244	3.39	8	253	5.44	2.82
344708	0.16	7.14	361	4.97	185	78.9	8.73	0.74
344709	0.18	6.40	235	1.18	5	126	2.96	2.61
344710	0.38	6.44	212	1.36	23	375	4.17	2.37
344711	0.40	6.63	216	1.11	9	345	4.22	2.27
344712	0.21	7.10	218	1.27	10	164	5.16	2.07
*Dup 344712	0.21	7.12	212	1.28	10	187	5.18	2.19
344713	0.06	8.11	205	1.61	6	13.8	7.89	1.95
344714	2.74	6.59	165	1.03	17	150	3.56	1.32
344715	0.30	7.44	200	0.82	22	220	3.67	1.34
344716	0.10	7.07	281	0.98	11	78.9	7.78	2.54
344717	0.12	7.43	196	1.22	31	124	4.61	1.25
344718	0.09	6.98	214	0.62	23	74.6	3.72	1.10
344719	0.09	6.75	255	0.65	21	56.1	3.62	1.00
344720	0.03	10.8	758	4.78	26	21.6	6.32	2.20
344721	0.03	7.03	262	1.01	27	95.0	3.60	0.90
344722	0.04	6.15	259	0.70	28	39.6	3.37	0.89
344723	<0.02	6.16	252	0.84	31	34.4	3.29	0.90
344724	0.07	6.41	315	5.12	306	137	8.24	0.72
344725	0.17	6.46	323	4.54	264	137	7.36	0.67

Element	@Ag	@Al	@Ba	@Ca	@Cr	@Cu	@Fe	@K
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.02	0.01	1	0.01	1	0.5	0.01	0.01
Units	ppm	%	ppm	%	ppm	ppm	%	%
344726	0.14	6.49	335	0.74	26	121	1.58	1.20
344727	0.15	6.21	413	1.02	24	134	1.68	1.95
344728	0.49	5.81	437	1.10	21	402	1.89	2.54
344729	0.31	5.21	452	0.19	36	284	3.45	2.37
344730	0.04	5.58	403	0.75	17	56.1	3.04	2.81
344731	<0.02	6.30	371	1.49	15	35.3	3.72	2.57
344732	0.22	6.16	483	5.00	148	116	10.3	0.60
344733	0.09	7.45	434	0.88	14	172	8.27	2.87
344734	0.06	5.99	275	0.45	30	90.8	5.12	1.86
344735	0.04	6.27	318	0.57	25	27.7	3.66	2.04
344736	0.03	6.03	220	0.96	38	22.7	3.36	1.37
344737	0.07	6.35	504	1.50	23	52.6	3.96	3.45
344738	0.21	3.94	234	7.95	19	172	5.74	1.89
344739	0.14	5.73	320	2.49	23	42.8	4.44	2.84
344740	0.93	3.45	195	9.49	14	392	5.95	1.74
344741	0.34	6.52	348	0.39	26	415	5.52	2.65
344742	0.21	6.05	350	0.51	36	225	5.16	2.76
344743	0.09	6.02	280	1.21	18	71.0	4.45	2.45
344744	0.02	9.41	664	4.10	19	19.5	5.97	2.04
344745	0.04	6.80	143	0.76	25	53.4	4.17	1.18
344746	0.04	6.28	178	0.86	24	47.7	4.61	1.15
344747	0.20	7.50	349	0.74	14	285	9.17	2.58
*Dup 344748	0.06	6.17	242	0.88	28	50.3	4.15	1.60
344748	0.10	5.84	236	0.87	36	47.9	3.90	1.62
344749	0.04	6.61	240	0.87	24	29.5	3.53	1.38
344750	0.08	6.63	268	1.03	22	69.8	3.54	1.50
344751	0.04	6.70	356	0.87	25	49.2	3.44	1.77
344752	0.02	6.70	265	0.96	26	35.7	3.58	1.12
344753	<0.02	6.93	258	0.83	22	15.4	4.18	0.84
344754	0.06	7.11	322	0.97	25	221	4.27	1.06
344755	<0.02	6.29	250	1.27	31	15.7	3.36	0.79
344756	0.65	8.21	972	2.59	79	2688	4.43	3.26
344757	0.05	6.17	256	1.06	15	13.4	3.37	0.61
344758	0.04	7.07	129	1.55	35	47.0	3.74	0.30
344759	1.30	7.24	198	6.17	213	678	8.22	0.54
344760	14.3	7.26	407	2.73	158	>10000	9.30	1.32
344761	0.32	6.59	627	0.29	19	438	4.61	2.05
344762	0.09	6.16	245	0.48	21	94.3	3.51	0.98
344763	0.08	5.19	144	5.87	17	14.0	4.85	0.69
344764	0.04	6.00	272	1.22	15	24.2	2.97	1.21

Element	@Ag	@Al	@Ba	@Ca	@Cr	@Cu	@Fe	@K
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.02	0.01	1	0.01	1	0.5	0.01	0.01
Units	ppm	%	ppm	%	ppm	ppm	%	%
344765	0.04	6.53	385	0.97	20	53.4	3.26	1.38
344766	0.08	6.57	533	1.43	23	63.4	3.33	1.35
344767	0.23	7.58	49	7.67	197	138	7.41	0.19
344768	0.04	9.81	633	4.08	23	22.2	5.86	1.91
344769	0.18	7.54	81	6.93	154	148	7.20	0.43
344770	0.28	8.22	30	7.31	210	148	8.23	0.18
344771	1.74	6.87	283	7.99	179	940	7.93	0.59
344772	4.12	2.90	380	7.57	9	1714	3.88	1.22
344773	22.6	5.97	419	1.37	17	7767	5.16	2.03
344774	1.24	7.98	440	1.44	25	564	3.39	3.18
344775	0.76	6.65	219	1.09	17	326	3.47	1.58
344776	0.20	7.00	186	5.69	31	176	11.0	0.72
344777	0.08	6.82	157	1.09	6	31.5	3.14	1.27
344778	0.11	6.62	324	1.56	20	47.5	2.14	2.05
344779	0.04	7.31	379	1.43	11	23.9	2.19	2.51
344780	3.48	7.93	614	3.02	55	>10000	8.26	3.19
344781	0.08	6.64	401	4.02	116	4.0	4.26	2.51
344782	0.05	7.14	340	3.46	11	74.8	4.23	2.21
*Dup 344781	0.05	6.68	414	4.19	122	5.7	4.41	2.60
344783	0.08	6.60	349	2.66	21	40.0	2.78	2.22
344784	<0.02	7.02	296	1.57	17	7.9	2.11	2.02
344785	<0.02	6.00	254	1.79	10	4.5	1.89	1.87
344786	0.05	6.53	427	1.74	47	30.3	3.38	2.69
344787	0.04	7.19	358	1.58	14	69.3	2.94	2.11
344788	0.02	8.17	144	1.94	27	7.1	4.06	0.40
344789	0.04	8.30	333	2.08	13	17.4	3.27	2.06
344790	0.05	7.72	271	2.94	15	41.9	4.11	1.33
344791	0.07	7.51	235	1.97	23	17.4	3.37	1.18
344792	<0.02	9.14	588	3.98	25	18.9	5.52	1.71
344793	0.10	7.93	228	2.73	24	119	3.84	1.30
344794	0.10	8.12	253	2.28	29	50.7	3.42	1.84
344795	0.08	7.36	350	1.33	13	34.8	3.59	2.22
344796	0.28	6.91	283	7.23	18	798	6.39	1.95
344797	0.39	7.27	364	0.94	17	117	4.13	2.16
344798	0.10	7.01	115	2.03	20	5.9	2.24	0.73
344799	0.03	8.39	25	3.67	36	31.1	5.55	0.10
344800	<0.02	8.12	65	2.58	26	2.3	2.98	0.37
344801	0.05	8.84	142	3.16	23	20.3	4.21	0.77
344802	<0.02	7.78	53	2.63	16	1.1	2.94	0.28
*Rep 344648	0.04	10.0	656	4.24	19	22.2	6.21	2.01

Element	@Ag	@Al	@Ba	@Ca	@Cr	@Cu	@Fe	@K
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.02	0.01	1	0.01	1	0.5	0.01	0.01
Units	ppm	%	ppm	%	ppm	ppm	%	%
*Rep 344689	0.37	7.00	430	0.51	27	467	4.64	2.36
*Rep 344730	0.05	5.73	395	0.75	16	56.2	3.03	2.81
*Rep 344771	1.96	6.79	277	7.73	152	890	7.40	0.56
*Rep 344802	<0.02	8.01	55	2.70	24	1.4	2.99	0.29
*Std OREAS-901	0.40	7.15	226	0.10	48	1357	3.98	3.75
*Std OREAS-903	0.40	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-905	0.51	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-925	3.28	7.14	386	0.41	78	6020	6.58	2.40
*Std OREAS-901	0.43	7.02	228	0.09	45	1419	3.95	3.75
*Std OREAS-903	0.43	5.47	179	0.54	75	5984	3.76	3.12
*Std OREAS-905	0.52	7.86	2759	0.59	16	1588	4.24	2.98
*Std OREAS-925	2.77	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-901	0.39	6.44	210	0.08	65	1276	3.68	3.46
*Std OREAS-903	0.38	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Blk BLANK	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Blk BLANK	<0.02	<0.01	<1	<0.01	1	<0.5	<0.01	<0.01
*Blk BLANK	0.07	<0.01	<1	<0.01	<1	<0.5	<0.01	<0.01
*Blk BLANK	0.03	<0.01	<1	<0.01	1	<0.5	<0.01	<0.01
*Blk BLANK	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Blk BLANK	0.04	<0.01	<1	<0.01	<1	1.1	<0.01	<0.01

Element	@Li	@Mg	@Mn	@Na	@Ni	@P	@S	@Sr
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	1	0.01	2	0.01	0.5	0.005	0.01	0.5
Units	ppm	%	ppm	%	ppm	%	%	ppm
344609	7	0.30	203	3.28	12.0	0.019	0.05	71.5
344610	9	0.39	255	2.88	7.7	0.019	0.07	44.5
344611	9	0.36	192	2.70	18.6	0.049	1.56	38.4
344612	8	3.80	2245	1.89	136	0.187	0.91	344
344613	8	0.39	286	2.84	6.3	0.023	0.02	64.3
344614	6	0.32	265	2.75	3.6	0.022	0.04	76.0
344615	8	0.33	227	2.87	4.6	0.020	0.01	58.9
344616	10	0.31	264	2.86	7.3	0.021	0.01	54.7
344617	11	0.40	390	1.60	4.0	0.022	0.04	35.2
344618	7	0.31	314	3.32	8.2	0.023	0.01	57.4
344619	4	7.51	1455	0.01	930	0.036	0.11	134
344620	4	7.25	1370	<0.01	849	0.040	0.09	128
344621	4	7.33	1643	0.01	819	0.039	0.07	126
344622	12	4.00	947	0.07	254	0.022	0.23	86.6
344623	12	2.98	772	0.06	53.7	0.014	0.20	74.1
344624	20	1.71	924	2.69	17.1	0.178	0.16	552
344625	11	5.95	1488	0.05	198	0.012	0.11	214
344626	18	7.54	1567	<0.01	872	0.046	0.03	217
344627	21	6.67	1578	0.08	595	0.052	0.18	251
344628	19	6.44	1672	0.09	660	0.046	0.22	264
344629	16	6.14	2213	0.03	306	0.038	0.04	230
344630	22	2.83	639	0.20	241	0.045	0.21	71.5
344631	18	0.83	321	0.16	24.0	0.055	1.73	32.1
344632	9	0.43	178	2.78	5.7	0.017	0.11	59.8
344633	11	0.54	131	2.87	4.0	0.020	0.21	66.8
344634	16	0.51	218	2.35	7.9	0.023	0.06	69.4
344635	29	0.93	496	0.32	30.9	0.022	>5.00	34.2
344636	9	3.25	3635	1.50	120	0.223	1.83	290
344637	9	0.31	146	2.66	6.7	0.010	0.04	52.9
344638	13	0.71	183	1.83	2.7	0.011	0.17	36.7
344639	13	1.13	327	0.97	4.8	0.012	0.31	31.6
344640	7	6.50	2252	0.03	24.3	<0.005	0.26	74.8
344641	14	1.25	384	0.60	15.6	0.026	0.36	28.2
344642	11	0.89	241	1.59	7.5	0.017	0.23	35.7
*Dup 344642	11	0.87	224	1.60	4.4	0.017	0.22	35.2
344643	10	0.58	226	1.30	4.5	0.010	0.37	28.1
344644	10	0.59	197	1.23	8.4	0.009	0.28	27.5
344645	6	0.48	226	2.49	2.3	0.010	0.20	39.7
344646	7	0.50	198	2.42	3.7	0.008	0.31	38.7
344647	10	0.76	234	1.16	10.9	0.012	0.30	35.8

Element	@Li	@Mg	@Mn	@Na	@Ni	@P	@S	@Sr
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	1	0.01	2	0.01	0.5	0.005	0.01	0.5
Units	ppm	%	ppm	%	ppm	%	%	ppm
344648	21	1.69	946	2.74	17.9	0.174	0.14	574
344649	9	0.59	196	1.22	5.4	0.010	0.29	39.4
344650	10	1.22	482	0.86	15.3	0.008	0.23	51.1
344651	11	0.86	317	0.08	10.2	0.009	0.52	30.9
344652	14	0.82	250	0.15	15.2	0.007	0.77	31.9
344653	12	0.89	262	0.90	10.2	0.008	0.19	56.6
344654	16	5.11	1196	0.59	956	0.043	0.87	249
344655	17	6.87	1561	0.02	774	0.051	1.57	390
344656	12	1.46	334	2.89	38.5	0.021	0.33	176
344657	9	0.52	229	2.34	7.9	0.022	0.11	174
344658	13	0.48	182	2.73	6.5	0.021	0.11	213
344659	15	2.60	1114	4.06	10.1	0.241	0.34	536
344660	31	1.46	533	1.90	42.5	0.113	0.39	332
344661	12	0.46	169	2.21	6.8	0.023	0.88	143
344662	16	0.34	141	0.65	22.9	0.022	1.30	51.9
344663	8	0.37	213	2.65	4.8	0.022	0.07	110
344664	11	0.46	246	2.39	3.6	0.021	0.11	78.5
344665	8	0.26	193	2.85	4.3	0.009	0.02	76.1
344666	13	0.49	299	2.05	3.0	0.019	0.08	68.8
344667	13	0.54	295	1.54	6.7	0.019	0.08	53.6
344668	9	0.54	305	2.05	4.7	0.020	0.10	63.7
344669	8	0.62	314	1.52	9.2	0.021	0.17	57.0
344670	10	0.60	320	0.09	6.2	0.008	0.22	28.8
344671	33	2.35	1441	1.15	36.8	0.040	0.10	163
344672	21	1.66	919	2.73	13.0	0.164	0.16	576
344673	13	0.63	348	2.31	7.3	0.024	0.18	50.5
344674	15	0.43	234	2.44	5.0	0.024	0.27	51.1
344675	12	0.41	239	2.45	7.1	0.023	0.15	53.1
344676	10	0.37	364	2.96	3.9	0.022	0.22	64.9
344677	10	0.36	317	2.88	3.4	0.021	0.27	57.7
*Dup 344677	11	0.39	332	2.83	5.4	0.022	0.26	57.1
344678	10	0.33	325	3.10	5.5	0.020	0.14	60.4
344679	9	0.32	311	3.00	4.0	0.020	0.18	59.0
344680	10	0.36	327	3.02	6.0	0.020	0.18	59.9
344681	9	0.33	306	3.04	4.0	0.020	0.03	67.0
344682	14	0.58	371	1.84	6.6	0.020	0.04	52.6
344683	11	0.43	283	2.48	4.7	0.021	0.11	56.2
344684	20	1.86	546	1.94	22.4	0.143	1.49	479
344685	9	0.33	276	2.70	6.3	0.021	0.04	67.3
344686	9	0.37	299	2.63	3.2	0.021	0.05	65.9

Element	@Li	@Mg	@Mn	@Na	@Ni	@P	@S	@Sr
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	1	0.01	2	0.01	0.5	0.005	0.01	0.5
Units	ppm	%	ppm	%	ppm	%	%	ppm
344687	9	0.37	258	2.86	8.3	0.021	0.15	67.3
344688	11	0.44	165	2.92	4.4	0.021	0.32	64.6
344689	17	0.68	178	1.10	9.6	0.026	0.84	31.7
344690	16	2.24	926	0.07	20.5	0.022	2.03	61.5
344691	18	0.50	126	0.12	3.3	0.008	0.50	20.5
344692	15	0.57	155	0.32	2.6	0.007	0.91	24.5
344693	13	0.42	79	0.58	3.7	0.040	1.75	19.5
344694	14	0.69	130	0.21	1.5	0.009	0.12	22.9
344695	14	0.85	225	0.10	3.0	0.008	1.08	29.2
344696	21	1.67	905	2.68	13.7	0.168	0.16	579
344697	15	0.79	203	0.15	7.1	0.010	0.32	25.5
344698	17	1.16	327	0.36	17.9	0.028	0.79	33.1
344699	18	1.80	413	0.07	8.3	0.020	0.06	35.4
344700	16	1.27	154	0.94	4.9	0.017	0.29	27.0
344701	16	1.55	318	1.41	112	0.023	0.41	40.7
344702	21	0.50	139	0.08	10.5	0.020	0.57	20.8
344703	21	0.89	425	0.21	18.4	0.081	3.05	41.1
344704	19	3.06	1485	0.07	19.3	0.040	0.26	60.2
344705	29	2.08	260	0.72	19.9	0.068	0.08	25.9
344706	25	2.02	403	0.42	17.0	0.062	0.13	34.7
344707	23	2.07	598	0.08	21.3	0.051	0.20	41.6
344708	9	3.61	2180	1.85	132	0.176	0.90	351
344709	21	1.06	194	0.14	5.8	0.017	0.04	21.9
344710	22	1.38	326	0.54	33.3	0.023	0.22	28.0
344711	19	1.08	320	0.91	7.9	0.028	0.21	30.3
344712	17	1.16	407	1.44	11.7	0.038	0.13	39.7
*Dup 344712	17	1.19	414	1.50	13.4	0.037	0.15	40.8
344713	27	2.00	596	1.18	19.9	0.068	0.06	39.3
344714	12	0.95	356	2.49	5.7	0.021	0.06	62.7
344715	12	0.90	366	3.01	7.8	0.023	0.08	70.0
344716	58	2.68	504	0.80	13.7	0.048	0.06	42.6
344717	21	1.36	356	2.85	9.8	0.027	0.10	93.3
344718	18	0.98	321	2.85	4.9	0.024	0.08	93.4
344719	12	0.70	327	3.07	6.4	0.022	0.10	116
344720	23	1.83	988	3.07	15.1	0.185	0.17	634
344721	7	0.40	345	3.68	8.2	0.024	0.19	139
344722	8	0.50	335	2.96	4.1	0.022	0.18	111
344723	12	0.72	347	2.95	5.2	0.022	0.09	117
344724	15	4.20	1227	2.15	238	0.084	0.15	354
344725	14	3.46	1066	2.23	209	0.078	0.17	337

Element	@Li	@Mg	@Mn	@Na	@Ni	@P	@S	@Sr
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	1	0.01	2	0.01	0.5	0.005	0.01	0.5
Units	ppm	%	ppm	%	ppm	%	%	ppm
344726	6	0.15	171	3.04	3.4	0.007	0.12	57.5
344727	5	0.12	138	1.87	3.0	<0.005	0.40	35.6
344728	7	0.17	150	0.86	1.6	<0.005	0.48	23.9
344729	8	0.26	139	1.25	4.2	<0.005	1.27	26.6
344730	13	0.51	273	1.02	3.3	0.013	0.16	28.8
344731	16	0.71	451	1.24	7.3	0.027	0.13	33.3
344732	9	3.15	3428	1.61	111	0.206	1.65	292
344733	31	1.30	507	1.14	13.7	0.074	0.63	36.6
344734	19	0.72	306	1.99	4.8	0.022	0.26	45.3
344735	15	0.59	272	2.20	4.1	0.019	0.15	53.6
344736	10	0.53	287	2.79	5.7	0.018	0.12	54.4
344737	19	1.24	492	0.30	4.0	0.018	0.03	31.0
344738	15	3.44	1095	0.06	5.3	0.011	0.27	50.3
344739	18	1.88	653	0.18	3.9	0.017	0.11	25.0
344740	8	4.45	1496	0.05	12.6	0.013	0.54	56.2
344741	15	0.86	280	0.71	44.3	0.024	1.67	19.6
344742	14	0.87	281	0.63	14.6	0.018	1.01	18.8
344743	15	0.99	392	1.26	5.6	0.018	0.65	34.9
344744	21	1.64	890	2.88	13.1	0.128	0.13	588
344745	12	0.79	339	2.71	5.4	0.025	0.34	45.8
344746	12	0.84	395	2.75	8.2	0.024	0.21	50.1
344747	34	1.37	566	1.57	13.5	0.064	0.98	32.4
*Dup 344748	12	0.85	365	2.53	6.5	0.021	0.15	57.9
344748	12	0.83	361	2.45	7.9	0.019	0.16	58.2
344749	11	0.68	314	2.99	6.3	0.022	0.05	64.4
344750	10	0.73	316	2.44	4.0	0.022	0.04	56.5
344751	8	0.54	355	2.39	10.8	0.023	0.05	50.6
344752	7	0.45	313	3.09	5.5	0.024	0.05	76.0
344753	11	0.51	257	3.20	5.6	0.024	0.07	63.4
344754	9	0.45	269	3.22	5.4	0.024	0.29	58.4
344755	6	0.33	255	3.00	5.1	0.021	0.02	59.4
344756	32	1.50	535	1.93	45.2	0.111	0.39	337
344757	6	0.37	247	3.11	3.3	0.020	0.03	66.0
344758	10	0.80	348	3.92	13.0	0.025	0.12	73.0
344759	39	3.67	1144	0.85	106	0.022	0.14	54.3
344760	31	2.90	778	0.66	90.0	0.068	1.87	31.8
344761	15	0.68	168	1.28	5.5	0.022	0.95	21.0
344762	9	0.59	210	2.59	5.8	0.019	0.28	18.3
344763	9	1.75	1804	2.62	1.2	0.015	0.05	67.9
344764	13	0.63	270	2.18	5.6	0.020	0.07	19.9

Element	@Li	@Mg	@Mn	@Na	@Ni	@P	@S	@Sr
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	1	0.01	2	0.01	0.5	0.005	0.01	0.5
Units	ppm	%	ppm	%	ppm	%	%	ppm
344765	13	0.64	259	2.24	4.0	0.021	0.14	20.4
344766	12	0.72	285	2.05	6.6	0.021	0.12	30.4
344767	35	3.87	1284	1.62	110	0.023	0.05	50.8
344768	21	1.59	912	2.55	16.7	0.168	0.14	546
344769	36	3.84	1326	1.34	111	0.022	0.06	62.0
344770	30	5.03	1366	1.43	135	0.023	0.10	103
344771	33	4.74	1275	0.74	103	0.024	0.14	47.4
344772	10	3.15	1285	0.16	7.2	0.009	0.21	51.9
344773	14	1.29	405	0.38	7.6	0.050	1.04	23.9
344774	15	1.13	360	0.48	7.4	0.023	0.08	28.1
344775	13	0.83	287	1.84	4.8	0.022	0.10	34.1
344776	16	2.82	1538	1.52	48.0	0.110	0.21	123
344777	10	0.63	285	2.53	3.4	0.018	0.05	43.5
344778	10	0.75	488	1.56	6.2	0.029	0.16	94.6
344779	14	0.87	404	1.23	6.8	0.033	0.14	87.9
344780	21	1.99	595	2.23	23.3	0.160	1.59	524
344781	23	2.20	854	0.25	38.3	0.074	0.19	94.3
344782	31	0.89	440	0.68	6.8	0.042	0.56	66.4
*Dup 344781	24	2.29	886	0.27	40.3	0.076	0.19	98.6
344783	15	0.84	489	0.78	10.8	0.037	0.43	67.0
344784	11	0.76	389	1.90	6.7	0.030	0.13	85.5
344785	11	0.64	331	1.20	4.3	0.027	0.10	61.3
344786	22	1.33	451	0.46	23.3	0.040	0.15	64.6
344787	19	0.73	283	1.05	16.6	0.039	0.17	68.5
344788	22	0.77	365	3.88	24.4	0.044	<0.01	118
344789	21	0.91	378	1.64	17.3	0.048	0.04	77.6
344790	18	0.72	492	2.23	19.4	0.042	0.08	66.5
344791	16	0.56	348	2.59	15.9	0.044	0.06	62.7
344792	20	1.49	853	2.56	15.7	0.140	0.14	546
344793	24	0.99	483	2.22	26.3	0.065	0.24	75.1
344794	25	1.27	453	1.75	28.8	0.047	0.14	84.9
344795	28	1.55	393	0.29	22.5	0.047	0.13	53.6
344796	32	2.04	1251	0.16	47.1	0.025	1.69	60.9
344797	27	1.31	311	0.29	22.4	0.043	0.39	48.7
344798	15	0.71	355	3.17	21.9	0.040	0.02	76.6
344799	27	1.46	624	3.95	43.6	0.050	0.03	113
344800	18	0.90	351	3.59	25.0	0.043	<0.01	151
344801	23	1.18	443	3.63	30.1	0.052	0.47	121
344802	18	0.92	343	3.39	23.1	0.042	0.01	149
*Rep 344648	21	1.70	976	2.74	18.5	0.180	0.16	555

Element	@Li	@Mg	@Mn	@Na	@Ni	@P	@S	@Sr
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	1	0.01	2	0.01	0.5	0.005	0.01	0.5
Units	ppm	%	ppm	%	ppm	%	%	ppm
*Rep 344689	18	0.70	182	1.12	9.2	0.027	0.84	32.7
*Rep 344730	13	0.51	271	1.01	4.4	0.012	0.17	28.8
*Rep 344771	32	4.46	1203	0.69	99.4	0.021	0.14	44.2
*Rep 344802	19	0.97	358	3.50	23.4	0.044	0.01	153
*Std OREAS-901	15	0.61	285	0.03	42.0	0.070	0.04	30.7
*Std OREAS-903	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-905	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-925	29	1.74	930	0.24	35.0	0.084	1.02	35.3
*Std OREAS-901	16	0.59	284	0.04	40.5	0.067	0.04	32.0
*Std OREAS-903	15	0.65	618	0.02	51.1	0.121	0.46	69.1
*Std OREAS-905	19	0.28	379	2.23	9.1	0.034	0.07	157
*Std OREAS-925	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-901	15	0.54	260	0.03	37.5	0.064	0.03	28.1
*Std OREAS-903	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Blk BLANK	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Blk BLANK	<1	<0.01	<2	<0.01	<0.5	<0.005	<0.01	<0.5
*Blk BLANK	<1	<0.01	<2	<0.01	<0.5	<0.005	<0.01	<0.5
*Blk BLANK	<1	<0.01	<2	<0.01	<0.5	<0.005	<0.01	<0.5
*Blk BLANK	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Blk BLANK	<1	<0.01	<2	<0.01	<0.5	<0.005	<0.01	<0.5

Element	@Ti	@V	@Zn	@Zr	@As	@Be	@Bi	@Cd
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.01	2	1	0.5	1	0.1	0.04	0.02
Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344609	0.17	11	14	137	3	1.4	0.07	0.03
344610	0.17	11	16	140	<1	1.4	0.08	0.04
344611	0.13	12	23	124	2	1.2	1.88	0.05
344612	0.93	155	108	128	653	0.9	0.08	0.10
344613	0.20	14	20	135	2	1.7	0.08	0.03
344614	0.18	12	16	113	<1	1.6	0.07	0.03
344615	0.18	12	19	133	1	1.5	0.06	0.05
344616	0.19	15	14	146	2	1.6	0.05	0.03
344617	0.14	11	13	117	<1	1.6	0.10	0.05
344618	0.20	15	12	146	1	1.7	0.04	0.03
344619	0.66	150	49	48.4	19	0.3	0.08	0.12
344620	0.56	152	49	61.4	53	0.2	0.05	0.12
344621	0.54	148	46	59.7	61	0.3	<0.04	0.11
344622	0.27	73	40	114	15	0.9	0.16	0.09
344623	0.12	22	27	103	5	1.2	0.16	0.09
344624	0.73	142	100	92.3	1	2.7	<0.04	0.11
344625	0.08	72	41	44.6	5	0.5	0.14	0.16
344626	0.05	154	73	63.8	1	0.4	<0.04	0.11
344627	0.29	207	76	70.9	10	0.8	0.26	0.13
344628	0.55	192	87	67.2	25	0.9	0.16	0.13
344629	0.55	167	73	60.4	20	0.8	0.07	0.31
344630	0.60	113	115	136	20	1.6	0.22	0.33
344631	0.38	49	197	133	16	2.2	1.13	1.04
344632	0.15	13	27	147	4	1.4	0.08	0.09
344633	0.15	13	14	152	4	1.3	0.14	0.02
344634	0.17	16	16	138	2	1.6	0.05	<0.02
344635	0.18	42	31	97.0	8	1.7	1.02	0.03
344636	0.81	148	121	108	1352	0.9	0.11	0.14
344637	0.09	5	13	209	3	1.1	<0.04	0.05
344638	0.11	<2	30	205	2	1.3	0.10	0.08
344639	0.13	<2	32	169	2	1.4	0.28	0.11
344640	0.02	<2	46	41.9	57	0.5	0.34	0.17
344641	0.18	2	26	190	3	1.3	0.28	0.05
344642	0.15	3	24	196	3	1.4	0.11	0.03
*Dup 344642	0.15	<2	22	192	3	1.5	0.11	0.03
344643	0.09	3	21	232	4	1.4	0.36	0.08
344644	0.10	4	14	247	3	1.4	0.24	0.04
344645	0.08	3	10	187	5	1.2	0.10	0.05
344646	0.08	3	15	224	4	1.3	0.19	0.03
344647	0.09	3	20	217	3	1.5	0.31	0.08

Element	@Ti	@V	@Zn	@Zr	@As	@Be	@Bi	@Cd
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.01	2	1	0.5	1	0.1	0.04	0.02
Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344648	0.75	135	98	89.9	1	2.7	<0.04	0.06
344649	0.07	2	14	212	9	1.4	0.29	0.08
344650	0.08	6	38	203	2	1.1	0.12	0.18
344651	0.08	5	25	199	10	1.4	0.91	0.10
344652	0.08	4	21	204	10	1.4	0.72	0.03
344653	0.09	3	22	208	4	1.7	0.22	0.05
344654	0.28	132	122	99.9	46	0.6	4.29	0.15
344655	0.19	168	279	85.9	62	0.7	4.57	0.88
344656	0.14	16	43	133	6	1.1	0.34	0.06
344657	0.19	13	22	159	5	1.5	0.18	0.02
344658	0.18	14	23	145	5	1.8	0.12	0.02
344659	0.45	196	75	152	8	1.6	0.32	0.08
344660	0.50	126	84	66.0	19	2.9	1.50	0.09
344661	0.21	14	37	151	10	1.6	1.04	0.09
344662	0.18	13	28	130	7	1.6	4.82	0.12
344663	0.20	14	24	162	<1	1.1	0.05	0.04
344664	0.14	14	24	153	1	1.1	0.09	0.03
344665	0.05	5	10	198	1	1.2	<0.04	0.03
344666	0.14	12	24	144	1	1.3	0.07	0.02
344667	0.16	13	24	161	2	1.5	0.06	0.04
344668	0.19	13	27	158	6	1.3	0.06	0.05
344669	0.19	14	33	158	4	1.5	0.08	0.09
344670	0.10	4	17	148	10	1.4	0.14	0.04
344671	0.64	277	130	16.8	9	0.4	0.30	0.09
344672	0.70	136	99	99.3	<1	2.5	<0.04	0.08
344673	0.16	15	38	144	4	1.5	0.13	0.03
344674	0.16	13	40	142	4	1.5	0.30	0.05
344675	0.17	13	31	142	2	1.3	0.13	0.04
344676	0.17	11	33	142	<1	1.6	0.38	0.09
344677	0.16	13	36	156	1	1.6	0.37	0.09
*Dup 344677	0.17	13	38	139	2	1.6	0.39	0.11
344678	0.15	13	31	144	<1	1.4	0.17	0.08
344679	0.14	13	32	149	<1	1.4	0.13	0.07
344680	0.15	14	32	145	1	1.3	0.22	0.09
344681	0.16	13	25	139	1	1.4	0.05	0.05
344682	0.17	13	27	145	1	1.8	0.05	0.04
344683	0.16	14	30	145	1	1.4	0.09	0.04
344684	0.35	171	99	44.1	7	1.1	4.77	0.12
344685	0.17	13	21	146	4	1.4	0.07	0.02
344686	0.17	13	25	139	2	1.5	0.06	0.03

Element	@Ti	@V	@Zn	@Zr	@As	@Be	@Bi	@Cd
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.01	2	1	0.5	1	0.1	0.04	0.02
Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344687	0.18	13	29	157	2	1.4	0.17	0.05
344688	0.15	13	98	145	2	1.1	0.16	0.32
344689	0.19	15	50	150	1	1.3	0.32	0.09
344690	0.22	45	42	92.7	3	1.2	17.8	0.12
344691	0.10	4	19	165	<1	1.6	0.38	<0.02
344692	0.09	3	20	169	3	1.2	1.00	0.05
344693	0.08	4	31	151	3	1.2	2.38	0.17
344694	0.11	3	31	167	<1	1.3	0.39	0.09
344695	0.08	3	28	164	14	1.3	1.36	0.11
344696	0.72	140	99	94.4	<1	2.2	<0.04	0.12
344697	0.14	17	40	167	2	1.4	0.15	0.07
344698	0.23	29	164	161	3	1.4	0.38	0.51
344699	0.16	12	64	155	<1	1.3	0.18	0.08
344700	0.14	10	75	172	1	1.2	2.38	<0.02
344701	0.22	32	69	140	2	1.0	0.59	0.05
344702	0.16	21	84	151	<1	1.7	0.60	0.39
344703	0.56	84	15	157	16	1.7	3.71	0.05
344704	0.26	59	153	112	4	1.3	1.65	0.64
344705	0.53	123	94	163	6	1.4	0.12	0.07
344706	0.50	119	75	162	2	1.3	0.09	0.05
344707	0.44	93	53	143	4	1.5	0.41	0.07
344708	0.94	153	109	124	652	1.0	0.07	0.10
344709	0.14	20	30	163	<1	1.8	0.07	0.02
344710	0.22	38	60	162	4	1.6	0.67	0.10
344711	0.24	43	44	165	2	1.6	0.12	0.10
344712	0.36	68	50	149	1	1.4	0.07	0.08
*Dup 344712	0.36	66	51	152	2	1.4	0.09	0.09
344713	0.59	116	76	159	1	1.5	0.07	0.04
344714	0.21	15	36	143	1	1.4	0.10	0.06
344715	0.22	13	35	172	1	1.5	0.17	0.05
344716	0.45	83	81	165	2	1.5	0.70	0.05
344717	0.25	20	44	173	2	1.3	0.48	0.07
344718	0.24	14	37	141	1	1.4	0.26	0.03
344719	0.22	14	34	149	1	1.5	0.29	0.07
344720	0.79	150	109	111	<1	2.4	<0.04	0.09
344721	0.22	14	22	147	2	1.4	0.12	0.04
344722	0.21	12	25	116	2	1.5	0.19	0.12
344723	0.20	13	32	135	1	1.4	0.24	0.09
344724	0.81	229	94	139	<1	0.9	0.07	0.10
344725	0.73	194	106	128	<1	1.1	0.08	0.13

Element	@Ti	@V	@Zn	@Zr	@As	@Be	@Bi	@Cd
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.01	2	1	0.5	1	0.1	0.04	0.02
Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344726	0.09	3	17	172	<1	1.2	0.09	0.10
344727	0.07	<2	6	144	<1	1.9	0.37	<0.02
344728	0.07	<2	11	150	<1	2.1	1.09	0.04
344729	0.06	<2	11	148	1	1.5	0.93	0.02
344730	0.14	18	25	164	<1	1.3	0.10	0.03
344731	0.23	49	35	166	<1	1.5	0.08	0.05
344732	0.64	161	129	112	1294	0.8	0.10	0.17
344733	0.49	116	80	167	<1	1.3	0.14	0.05
344734	0.20	19	32	137	<1	1.5	0.17	0.02
344735	0.19	12	24	149	<1	1.3	0.16	<0.02
344736	0.19	12	26	136	2	1.4	0.09	0.03
344737	0.21	12	56	144	1	1.6	0.07	0.06
344738	0.12	7	68	85.4	2	0.8	0.34	0.16
344739	0.18	10	55	124	1	1.0	0.09	0.09
344740	0.12	8	42	69.1	7	0.8	0.79	0.15
344741	0.19	14	76	140	4	1.4	1.33	0.32
344742	0.19	10	43	135	2	1.3	0.28	0.05
344743	0.19	11	44	140	3	1.3	0.29	0.09
344744	0.65	126	95	96.7	<1	2.3	<0.04	0.08
344745	0.22	15	39	139	3	1.6	0.23	0.04
344746	0.20	16	55	128	2	1.0	0.29	0.04
344747	0.52	108	94	154	2	1.4	0.58	0.06
*Dup 344748	0.20	13	44	127	3	1.2	0.37	0.04
344748	0.21	14	44	128	3	1.1	0.34	0.05
344749	0.20	13	39	131	2	1.3	0.07	0.03
344750	0.22	14	33	140	2	1.3	0.11	0.05
344751	0.21	14	42	138	4	1.4	0.09	0.04
344752	0.22	14	27	129	2	1.1	0.08	0.03
344753	0.20	14	31	142	2	1.2	0.10	0.02
344754	0.22	14	31	136	1	1.4	0.92	0.02
344755	0.19	14	22	123	3	1.2	0.06	0.02
344756	0.52	124	85	70.5	20	2.7	1.53	0.11
344757	0.20	13	21	130	<1	1.2	0.07	0.03
344758	0.22	26	29	141	<1	1.0	0.10	0.02
344759	0.31	198	102	39.0	31	0.7	3.47	0.20
344760	0.30	165	170	68.6	49	0.6	2.75	1.17
344761	0.18	12	29	167	<1	1.0	1.64	0.05
344762	0.17	12	34	157	1	0.9	0.14	0.07
344763	0.13	8	37	112	1	0.7	0.10	0.14
344764	0.18	12	26	154	<1	0.9	0.06	0.04

Element	@Ti	@V	@Zn	@Zr	@As	@Be	@Bi	@Cd
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.01	2	1	0.5	1	0.1	0.04	0.02
Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344765	0.19	11	24	159	1	0.9	0.07	0.02
344766	0.18	13	28	149	1	1.3	0.06	0.03
344767	0.40	224	88	23.4	17	0.4	0.08	0.12
344768	0.69	132	91	88.1	<1	2.2	0.05	0.09
344769	0.41	228	79	18.1	4	0.3	0.12	0.08
344770	0.43	228	88	15.7	10	0.2	0.25	0.09
344771	0.30	228	257	22.6	5	0.5	5.86	0.65
344772	0.05	13	193	80.2	55	0.7	15.3	0.67
344773	0.16	12	126	143	24	0.9	0.78	1.19
344774	0.21	14	44	191	3	1.1	0.61	0.16
344775	0.18	22	49	149	<1	1.2	0.20	0.22
344776	1.06	410	117	138	<1	0.6	0.06	0.15
344777	0.16	16	38	159	<1	1.4	0.09	0.10
344778	0.16	19	38	120	3	1.0	0.15	0.20
344779	0.14	21	45	137	3	1.1	0.31	0.15
344780	0.38	189	106	49.5	7	0.9	4.81	0.11
344781	0.11	79	92	145	3	1.2	0.43	0.23
344782	0.19	19	26	199	4	1.2	0.95	<0.02
*Dup 344781	0.11	80	93	151	4	1.4	0.44	0.24
344783	0.17	25	40	191	6	1.1	0.54	0.05
344784	0.15	20	29	133	4	1.1	0.21	0.11
344785	0.07	16	27	108	4	1.0	0.14	0.08
344786	0.09	49	55	196	4	1.3	0.33	0.12
344787	0.12	41	41	195	5	0.9	2.34	0.06
344788	0.25	49	61	213	1	0.9	0.10	0.04
344789	0.18	53	50	214	3	0.9	1.97	0.05
344790	0.25	48	80	203	3	0.8	1.51	0.14
344791	0.25	44	75	203	1	0.8	1.74	0.18
344792	0.61	132	86	90.5	<1	2.4	0.04	0.08
344793	0.16	66	78	192	15	1.1	1.03	0.11
344794	0.08	54	61	202	59	1.1	0.35	0.08
344795	0.08	47	66	188	23	1.2	1.70	0.05
344796	0.06	67	92	179	6	0.7	43.2	0.24
344797	0.08	52	109	167	<1	1.0	0.58	0.28
344798	0.08	37	43	177	8	0.9	0.13	0.10
344799	0.22	75	75	223	14	1.0	0.65	0.07
344800	0.25	43	40	200	5	1.0	0.44	0.11
344801	0.22	47	47	222	28	1.1	0.36	0.10
344802	0.17	37	34	181	1	1.2	0.40	0.08
*Rep 344648	0.76	142	100	101	<1	2.8	0.04	0.10

Element	@Ti	@V	@Zn	@Zr	@As	@Be	@Bi	@Cd
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.01	2	1	0.5	1	0.1	0.04	0.02
Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
*Rep 344689	0.20	16	52	156	<1	1.5	0.34	0.10
*Rep 344730	0.14	19	24	163	<1	1.5	0.11	0.04
*Rep 344771	0.28	222	243	22.0	7	0.5	5.38	0.75
*Rep 344802	0.17	38	32	190	1	0.9	0.43	0.10
*Std OREAS-901	0.19	80	24	167	N.A.	N.A.	N.A.	N.A.
*Std OREAS-903	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-905	N.A.	N.A.	N.A.	N.A.	35	2.7	5.75	0.39
*Std OREAS-925	0.38	83	408	97.2	N.A.	N.A.	N.A.	N.A.
*Std OREAS-901	0.22	83	24	170	72	6.6	4.66	0.06
*Std OREAS-903	0.16	68	23	136	52	4.3	8.83	0.18
*Std OREAS-905	0.14	9	146	257	N.A.	N.A.	N.A.	N.A.
*Std OREAS-925	N.A.	N.A.	N.A.	N.A.	11	2.2	34.5	0.55
*Std OREAS-901	0.21	77	22	162	74	5.4	4.73	0.06
*Std OREAS-903	N.A.	N.A.	N.A.	N.A.	51	4.1	8.99	0.17
*Blk BLANK	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Blk BLANK	<0.01	<2	1	<0.5	<1	<0.1	<0.04	<0.02
*Blk BLANK	<0.01	<2	1	<0.5	N.A.	N.A.	N.A.	N.A.
*Blk BLANK	<0.01	<2	1	<0.5	<1	<0.1	<0.04	<0.02
*Blk BLANK	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Blk BLANK	<0.01	<2	2	<0.5	<1	<0.1	<0.04	<0.02

Element	@Ce	@Co	@Cs	@Ga	@Hf	@In	@La	@Lu
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.1	1	0.1	0.02	0.02	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344609	75.2	6.2	<1	16.3	4.72	0.03	35.7	0.21
344610	74.5	8.2	<1	16.8	4.69	0.04	35.7	0.23
344611	76.3	36.8	<1	18.2	5.54	0.47	36.0	0.22
344612	38.0	34.9	2	17.0	3.39	0.06	20.1	0.25
344613	64.5	7.0	<1	17.2	4.65	0.04	29.1	0.23
344614	52.2	5.8	<1	15.5	4.24	0.06	24.3	0.22
344615	67.4	6.0	<1	16.7	4.96	0.05	31.5	0.29
344616	77.0	6.8	<1	18.0	5.02	0.04	37.4	0.31
344617	132	7.1	<1	15.6	3.88	0.06	69.7	0.24
344618	67.6	6.5	<1	18.7	5.46	0.05	31.4	0.30
344619	22.3	63.5	<1	7.4	1.47	0.05	9.1	0.09
344620	29.3	72.3	<1	7.8	1.73	0.05	14.2	0.11
344621	24.8	66.0	<1	7.3	1.77	0.04	10.8	0.11
344622	39.5	29.9	<1	11.1	3.69	0.05	17.6	0.24
344623	43.2	10.4	<1	11.9	3.66	0.03	19.7	0.24
344624	72.2	19.2	1	23.8	2.64	0.09	29.4	0.54
344625	21.5	26.7	<1	5.5	1.44	0.04	10.0	0.12
344626	28.2	76.0	<1	8.5	1.77	0.05	12.9	0.11
344627	31.5	70.3	<1	9.9	2.00	0.06	13.8	0.14
344628	30.7	78.1	<1	9.0	1.92	0.05	13.5	0.11
344629	30.5	39.0	<1	8.0	1.73	0.05	14.0	0.13
344630	50.5	33.6	<1	15.8	4.57	0.08	22.6	0.19
344631	51.6	50.7	1	20.0	4.90	0.18	23.4	0.24
344632	51.4	5.8	<1	16.5	5.34	0.04	24.6	0.24
344633	56.2	5.6	<1	17.9	5.38	0.03	25.6	0.24
344634	73.5	6.5	<1	18.2	4.99	0.03	34.8	0.24
344635	63.9	38.5	<1	14.8	3.37	0.14	30.1	0.80
344636	38.5	31.1	4	15.6	2.95	0.07	22.5	0.25
344637	81.4	4.0	<1	16.0	7.34	0.03	38.4	0.27
344638	79.7	3.9	<1	17.6	7.40	0.10	36.3	0.26
344639	86.1	7.5	<1	16.8	6.30	0.09	40.7	0.26
344640	35.3	38.5	<1	5.1	1.49	0.05	16.9	0.15
344641	77.3	6.8	<1	16.7	6.31	0.07	34.3	0.24
344642	64.2	5.9	<1	17.9	6.46	0.07	28.8	0.24
*Dup 344642	63.7	5.6	<1	17.8	6.13	0.07	28.8	0.23
344643	108	6.2	<1	15.4	9.22	0.07	52.1	0.30
344644	92.8	7.9	<1	15.9	9.23	0.05	43.0	0.30
344645	134	8.2	<1	15.8	7.55	0.03	65.2	0.24
344646	91.5	8.8	<1	16.4	7.57	0.05	43.1	0.25
344647	98.4	7.4	<1	15.5	8.40	0.11	47.0	0.29

Element	@Ce	@Co	@Cs	@Ga	@Hf	@In	@La	@Lu
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.1	1	0.1	0.02	0.02	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344648	78.3	20.2	1	24.3	2.82	0.09	33.4	0.55
344649	94.3	10.1	<1	14.7	8.31	0.08	43.6	0.27
344650	102	6.2	<1	14.6	7.92	0.04	50.4	0.28
344651	92.2	12.2	<1	14.4	7.85	0.05	42.8	0.25
344652	90.6	10.4	<1	14.5	8.08	0.03	42.1	0.28
344653	110	4.3	<1	14.1	8.56	0.03	53.0	0.29
344654	45.0	86.1	<1	10.1	3.23	0.04	20.4	0.19
344655	33.9	128	<1	10.5	2.48	0.09	14.9	0.15
344656	66.2	14.5	<1	14.7	5.01	0.07	30.7	0.24
344657	65.4	6.0	<1	17.3	5.57	0.09	29.8	0.26
344658	66.2	6.6	<1	17.8	5.69	0.08	30.8	0.28
344659	102	27.8	2	16.4	4.10	0.05	47.5	0.27
344660	71.1	14.7	11	17.6	2.33	0.21	34.3	0.36
344661	82.2	9.4	<1	17.3	5.55	0.07	37.8	0.24
344662	73.4	10.9	<1	16.7	4.94	0.14	34.0	0.18
344663	77.5	4.1	<1	17.2	6.05	0.05	36.1	0.22
344664	81.3	4.9	<1	17.6	5.72	0.05	38.6	0.26
344665	78.2	2.5	<1	13.9	7.24	0.03	37.8	0.20
344666	69.1	4.6	<1	17.1	5.33	0.06	32.2	0.25
344667	78.0	4.8	<1	17.6	5.92	0.06	36.2	0.26
344668	77.3	5.6	<1	17.7	5.89	0.06	35.6	0.25
344669	84.7	6.4	<1	18.2	5.92	0.06	39.5	0.26
344670	51.1	9.0	<1	14.5	6.00	0.04	24.1	0.55
344671	9.39	33.7	<1	16.0	0.57	0.08	3.5	0.23
344672	77.2	18.7	1	24.3	2.85	0.09	32.1	0.55
344673	83.4	10.3	<1	18.5	5.43	0.09	38.4	0.30
344674	69.4	10.3	<1	18.2	5.40	0.08	32.8	0.27
344675	69.3	7.9	<1	16.7	5.36	0.06	32.2	0.24
344676	65.7	5.9	<1	16.8	5.21	0.06	30.4	0.22
344677	74.1	7.0	<1	18.2	5.81	0.09	34.7	0.23
*Dup 344677	74.6	7.8	<1	18.1	5.35	0.08	35.6	0.23
344678	75.1	5.9	<1	17.3	5.42	0.06	34.9	0.25
344679	70.4	6.3	<1	17.3	5.67	0.08	32.9	0.25
344680	76.6	7.0	<1	17.3	5.49	0.06	36.1	0.25
344681	69.9	4.7	<1	16.5	5.02	0.06	32.6	0.22
344682	87.6	5.0	<1	17.6	5.40	0.07	42.2	0.22
344683	74.5	6.0	<1	17.8	5.44	0.07	34.7	0.23
344684	24.5	19.7	2	14.7	1.48	0.71	12.0	0.25
344685	80.2	6.0	<1	17.5	5.52	0.07	37.3	0.24
344686	75.4	5.2	<1	17.7	5.19	0.08	35.1	0.21

Element	@Ce	@Co	@Cs	@Ga	@Hf	@In	@La	@Lu
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.1	1	0.1	0.02	0.02	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344687	69.1	7.2	<1	17.8	5.83	0.08	32.8	0.23
344688	79.9	6.7	<1	17.1	5.68	0.07	38.1	0.22
344689	142	15.0	<1	18.3	5.55	0.10	72.5	0.23
344690	29.0	34.4	<1	11.5	3.06	0.08	13.9	0.27
344691	64.9	3.9	<1	17.1	6.59	0.07	30.2	0.52
344692	87.0	6.4	<1	16.0	6.58	0.04	40.7	0.59
344693	69.1	7.8	<1	14.9	5.86	0.09	32.6	0.55
344694	86.6	2.6	<1	16.2	6.71	0.04	43.2	0.63
344695	76.4	20.5	<1	14.9	6.06	0.06	36.7	0.67
344696	77.1	19.6	1	24.1	2.73	0.09	32.3	0.54
344697	77.1	1.6	<1	14.4	6.41	0.05	36.9	0.56
344698	97.3	3.8	<1	15.5	5.73	0.08	49.1	0.52
344699	80.5	4.3	<1	17.0	5.65	0.06	38.9	0.19
344700	72.5	4.9	<1	17.3	6.42	0.06	35.5	0.17
344701	86.3	9.4	<1	16.2	4.88	0.04	40.5	0.19
344702	71.0	6.6	<1	19.4	5.68	0.08	33.8	0.21
344703	27.0	28.5	<1	20.6	4.59	0.09	12.9	0.57
344704	39.7	6.5	<1	15.3	3.47	0.10	19.7	0.31
344705	21.4	12.0	<1	20.2	4.73	0.06	9.4	0.69
344706	53.9	11.4	<1	19.1	4.68	0.04	24.9	0.47
344707	36.5	12.3	<1	17.6	4.66	0.07	16.8	0.45
344708	37.3	34.7	2	17.4	3.32	0.07	20.0	0.24
344709	103	4.7	<1	14.1	6.28	0.06	50.8	0.77
344710	58.8	10.2	1	15.1	5.98	0.07	27.1	0.64
344711	38.5	8.5	1	15.6	5.99	0.08	17.9	0.59
344712	39.0	9.8	1	18.1	5.27	0.05	17.8	0.54
*Dup 344712	38.2	10.5	1	18.0	5.44	0.05	17.2	0.56
344713	20.9	14.1	1	21.5	4.64	0.05	9.1	0.45
344714	97.4	5.8	<1	16.4	5.33	0.06	46.8	0.46
344715	69.1	6.2	<1	17.2	5.85	0.07	32.5	0.49
344716	38.6	12.8	2	19.6	5.33	0.06	17.7	0.52
344717	95.6	6.9	<1	17.5	5.65	0.06	47.3	0.47
344718	72.6	5.4	<1	17.6	5.07	0.06	33.6	0.30
344719	68.0	6.3	<1	17.7	5.23	0.06	31.3	0.46
344720	77.2	18.8	1	25.1	2.91	0.08	32.2	0.53
344721	74.2	7.2	<1	18.0	5.25	0.07	34.1	0.54
344722	78.2	6.8	<1	17.9	5.02	0.09	35.6	0.55
344723	61.6	6.0	<1	17.3	5.25	0.08	28.4	0.47
344724	51.5	51.8	<1	18.2	4.01	0.07	23.3	0.28
344725	57.2	46.5	<1	17.7	4.11	0.07	26.1	0.36

Element	@Ce	@Co	@Cs	@Ga	@Hf	@In	@La	@Lu
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.1	1	0.1	0.02	0.02	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344726	96.9	2.5	<1	15.9	6.69	0.02	48.2	0.82
344727	97.3	4.7	<1	15.7	6.55	0.04	47.3	0.90
344728	95.8	3.2	<1	15.8	6.72	0.08	46.6	0.83
344729	81.1	10.0	<1	14.7	6.26	0.08	38.2	0.65
344730	77.0	3.2	<1	17.4	5.97	0.04	36.4	0.61
344731	57.6	5.2	<1	16.8	5.30	0.04	27.8	0.53
344732	36.3	29.4	4	14.5	2.82	0.06	21.9	0.25
344733	29.1	9.0	2	20.1	4.26	0.05	13.4	0.47
344734	51.9	5.1	<1	17.0	4.58	0.04	24.7	0.40
344735	67.1	5.6	<1	18.2	5.60	0.06	31.6	0.56
344736	80.2	6.1	<1	17.5	5.45	0.04	39.0	0.58
344737	66.1	5.2	1	17.5	5.54	0.07	31.0	0.40
344738	53.7	6.1	<1	10.8	2.93	0.09	26.7	0.28
344739	65.7	6.0	1	15.9	4.41	0.06	31.4	0.32
344740	36.8	12.6	<1	10.1	2.41	0.09	18.0	0.19
344741	57.2	24.5	<1	19.3	4.92	0.09	26.4	0.26
344742	67.6	13.7	1	17.1	5.17	0.06	31.5	0.32
344743	71.0	8.3	<1	17.5	5.42	0.04	34.5	0.42
344744	71.4	19.1	1	25.0	2.67	0.08	29.9	0.50
344745	194	5.5	<1	16.7	4.83	0.04	95.2	0.46
344746	120	5.5	<1	17.1	4.59	0.04	57.7	0.27
344747	10.0	18.6	3	23.0	4.68	0.06	4.7	0.68
*Dup 344748	96.8	7.3	<1	17.3	4.89	0.04	49.0	0.48
344748	97.4	6.3	<1	17.4	4.82	0.04	48.7	0.49
344749	77.5	6.5	<1	18.3	5.18	0.04	36.6	0.51
344750	60.5	6.2	<1	16.7	5.05	0.04	28.3	0.45
344751	75.8	7.9	<1	18.6	5.10	0.06	35.7	0.47
344752	67.3	5.8	<1	17.7	4.94	0.05	31.6	0.54
344753	69.2	8.1	<1	17.7	5.01	0.04	32.6	0.33
344754	57.3	9.7	<1	17.6	4.80	0.07	26.5	0.31
344755	57.9	6.6	<1	18.3	4.89	0.06	26.6	0.45
344756	69.7	15.1	11	18.0	2.43	0.20	33.8	0.37
344757	66.0	6.6	<1	18.2	5.00	0.05	30.7	0.53
344758	76.4	12.4	<1	19.1	4.83	0.02	36.0	0.33
344759	12.7	45.6	<1	15.1	1.25	0.07	5.8	0.26
344760	24.3	76.4	<1	14.6	2.24	0.28	11.4	0.17
344761	78.9	24.2	1	18.0	6.06	0.05	36.5	0.24
344762	74.4	9.7	<1	17.5	5.73	0.04	36.0	0.29
344763	49.6	4.7	<1	11.3	3.74	0.06	23.4	0.84
344764	65.5	7.0	<1	16.4	5.24	0.05	31.1	0.35

Element	@Ce	@Co	@Cs	@Ga	@Hf	@In	@La	@Lu
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.1	1	0.1	0.02	0.02	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344765	68.9	7.8	<1	17.2	5.91	0.06	32.4	0.39
344766	74.2	9.0	<1	17.6	5.55	0.08	35.1	0.45
344767	20.1	38.2	<1	13.1	0.72	0.06	8.9	0.26
344768	78.4	21.2	1	24.4	2.77	0.09	32.0	0.58
344769	9.08	38.3	<1	13.4	0.55	0.05	3.8	0.25
344770	5.52	43.4	<1	13.7	0.43	0.05	2.0	0.25
344771	6.86	40.2	<1	12.5	0.59	0.07	2.9	0.20
344772	31.7	54.9	<1	8.7	2.49	0.10	15.3	0.20
344773	63.0	40.0	<1	17.0	5.00	0.11	29.8	0.16
344774	74.4	8.4	<1	18.2	5.92	0.04	34.4	0.20
344775	79.7	8.7	<1	17.9	5.83	0.07	38.3	0.19
344776	31.6	47.4	4	18.5	3.82	0.10	13.9	0.56
344777	50.6	6.0	<1	17.6	5.86	0.04	22.8	0.20
344778	84.7	5.9	<1	17.0	4.14	0.04	39.7	0.25
344779	85.7	6.3	<1	16.9	4.26	0.04	39.8	0.25
344780	24.1	21.1	2	15.5	1.42	0.71	11.8	0.26
344781	75.8	9.0	<1	15.9	4.42	0.05	34.6	0.28
344782	72.7	8.0	<1	15.6	5.45	0.05	33.5	0.36
*Dup 344781	78.8	9.3	<1	16.5	4.30	0.05	36.3	0.28
344783	76.6	9.0	<1	16.4	5.77	0.05	35.9	0.32
344784	81.9	5.4	<1	17.2	4.33	0.03	37.8	0.28
344785	83.0	4.2	<1	16.4	4.05	0.03	39.1	0.27
344786	73.8	11.3	<1	17.3	5.29	0.06	37.6	0.22
344787	54.8	9.6	<1	18.2	6.05	0.06	26.3	0.29
344788	58.4	9.5	<1	18.2	6.03	0.04	28.2	0.34
344789	86.1	4.7	<1	19.2	6.06	0.07	42.4	0.27
344790	52.3	9.8	<1	18.9	5.72	0.07	24.9	0.32
344791	61.1	7.9	<1	18.0	5.70	0.05	29.9	0.29
344792	73.0	21.6	1	25.4	2.73	0.08	30.5	0.53
344793	311	16.1	<1	20.8	5.79	0.16	166	0.56
344794	93.8	9.6	<1	18.1	5.54	0.06	49.2	0.23
344795	127	11.6	<1	19.6	5.68	0.09	65.8	0.26
344796	86.8	19.6	<1	16.3	4.77	0.17	42.0	0.39
344797	94.4	7.4	<1	19.4	4.89	0.09	47.0	0.18
344798	94.4	6.1	<1	17.4	5.36	0.04	47.0	0.25
344799	78.6	14.4	<1	19.3	5.61	0.11	37.7	0.56
344800	43.7	7.6	<1	18.7	5.60	0.05	19.6	0.47
344801	53.1	52.0	<1	20.7	5.95	0.07	23.9	0.55
344802	46.5	7.3	<1	18.9	5.75	0.06	20.7	0.50
*Rep 344648	79.4	20.1	1	23.7	2.86	0.08	33.0	0.54

Element	@Ce	@Co	@Cs	@Ga	@Hf	@In	@La	@Lu
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.1	1	0.1	0.02	0.02	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
*Rep 344689	139	14.6	<1	18.3	5.69	0.10	70.2	0.21
*Rep 344730	76.8	3.0	<1	16.4	5.96	0.05	36.0	0.62
*Rep 344771	6.62	40.2	<1	12.5	0.57	0.08	2.9	0.20
*Rep 344802	47.3	7.4	<1	18.6	5.82	0.05	20.9	0.51
*Std OREAS-901	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-903	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-905	91.9	13.9	7	24.3	7.27	0.65	46.7	0.09
*Std OREAS-925	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-901	94.0	72.6	5	18.4	5.29	0.25	45.9	0.54
*Std OREAS-903	79.9	127	3	15.0	4.64	0.16	40.3	0.36
*Std OREAS-905	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-925	79.3	24.0	6	19.6	3.19	0.68	39.2	0.35
*Std OREAS-901	99.7	76.8	5	19.6	5.44	0.25	49.3	0.56
*Std OREAS-903	79.6	131	3	15.3	4.67	0.15	39.9	0.36
*Blk BLANK	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Blk BLANK	<0.05	<0.1	<1	<0.1	<0.02	<0.02	<0.1	<0.01
*Blk BLANK	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Blk BLANK	<0.05	<0.1	<1	<0.1	<0.02	<0.02	<0.1	<0.01
*Blk BLANK	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Blk BLANK	<0.05	<0.1	<1	<0.1	<0.02	<0.02	<0.1	<0.01

Element	@Mo	@Nb	@Pb	@Rb	@Sb	@Sc	@Se	@Sn
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.1	0.5	0.2	0.05	0.5	2	0.3
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344609	1.53	10.9	2.7	35.1	0.17	6.8	<2	2.7
344610	2.82	11.9	2.4	43.1	0.21	6.6	<2	3.8
344611	6.63	12.8	4.5	43.8	0.26	6.3	2	6.0
344612	3.41	19.8	5.4	22.2	0.84	17.0	<2	1.5
344613	3.10	13.7	2.2	45.7	0.24	7.2	<2	5.4
344614	2.25	9.5	2.3	33.7	0.17	6.5	<2	5.5
344615	2.54	11.1	3.1	37.4	0.16	6.7	<2	5.5
344616	4.17	10.6	2.4	45.0	0.26	7.4	<2	5.4
344617	6.43	9.1	1.7	43.9	0.14	6.0	<2	5.4
344618	3.62	12.4	1.9	37.8	0.19	8.0	<2	5.2
344619	0.61	7.0	1.8	<0.2	0.15	19.5	<2	0.4
344620	0.61	5.1	1.5	<0.2	0.19	18.8	<2	0.4
344621	0.43	4.2	1.6	<0.2	0.15	18.2	<2	0.3
344622	1.25	6.6	2.8	41.2	0.25	13.1	<2	1.9
344623	3.37	6.7	2.3	58.6	0.27	6.0	<2	2.3
344624	0.74	15.8	12.8	103	0.13	19.6	<2	2.9
344625	1.63	1.4	2.3	6.2	0.16	11.7	<2	0.5
344626	0.76	0.9	2.1	0.3	0.21	19.5	<2	<0.3
344627	0.67	2.7	2.8	1.2	0.31	27.4	<2	0.3
344628	0.68	4.5	2.7	6.0	0.19	28.3	<2	0.4
344629	0.76	7.1	2.4	12.2	0.16	19.4	<2	1.0
344630	2.04	14.0	14.8	51.3	0.27	15.9	<2	4.6
344631	1.99	13.7	56.6	97.9	0.47	10.9	2	9.9
344632	3.08	12.6	8.0	41.2	0.34	7.2	<2	6.8
344633	2.09	12.7	3.1	33.0	0.39	7.2	<2	8.1
344634	4.44	10.5	2.4	62.5	0.29	7.6	<2	4.1
344635	2.15	8.5	18.4	48.1	2.58	7.9	2	4.2
344636	3.37	16.5	7.0	19.7	1.59	14.6	2	1.5
344637	3.71	9.9	2.2	49.3	0.23	3.0	<2	3.2
344638	2.02	13.1	3.7	55.2	0.36	5.8	<2	7.4
344639	2.85	13.1	4.7	65.2	0.35	5.5	<2	7.9
344640	0.96	1.4	3.0	17.5	0.20	1.1	<2	2.7
344641	3.18	12.8	3.5	70.2	0.38	6.3	<2	7.9
344642	3.51	12.6	3.5	56.9	0.35	6.1	<2	6.6
*Dup 344642	2.21	13.7	3.3	56.7	0.39	6.2	<2	6.5
344643	2.11	13.2	4.6	70.6	0.31	3.9	<2	3.2
344644	3.53	15.5	4.8	71.8	0.31	4.0	<2	3.5
344645	1.67	14.0	6.1	46.2	0.28	4.0	<2	2.3
344646	2.47	15.8	7.4	49.0	0.31	3.8	<2	2.6
344647	4.66	13.8	4.8	76.6	0.41	3.9	<2	3.5

Element	@Mo	@Nb	@Pb	@Rb	@Sb	@Sc	@Se	@Sn
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.1	0.5	0.2	0.05	0.5	2	0.3
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344648	2.97	13.7	12.9	103	0.11	18.7	<2	2.9
344649	2.12	10.2	6.0	74.6	0.32	3.7	<2	3.2
344650	2.92	11.1	8.8	72.5	3.51	3.8	<2	3.1
344651	1.89	9.4	9.7	88.0	0.44	3.3	<2	4.4
344652	4.65	11.5	6.2	100	0.46	3.7	<2	2.5
344653	1.45	11.6	4.1	77.6	0.28	3.9	<2	2.0
344654	1.81	3.7	5.0	6.5	1.05	17.6	<2	0.9
344655	0.94	2.1	88.0	0.5	1.72	21.1	3	0.5
344656	2.71	9.6	3.9	15.0	0.27	6.1	<2	4.6
344657	1.70	12.4	4.0	56.2	0.30	7.0	<2	9.6
344658	3.48	12.3	3.9	46.9	0.33	6.9	<2	7.5
344659	0.70	4.6	5.5	32.7	0.26	20.3	<2	1.4
344660	107	17.0	22.3	182	0.93	13.1	3	5.5
344661	7.09	12.7	3.9	58.9	0.36	7.0	<2	6.0
344662	2.57	12.3	3.6	93.3	0.45	6.4	<2	10.8
344663	3.05	12.9	3.2	42.9	0.32	7.2	<2	6.6
344664	1.13	11.6	3.2	47.8	0.40	7.2	<2	6.7
344665	3.66	6.4	3.4	35.0	0.25	3.5	<2	2.9
344666	1.38	10.8	3.4	54.7	0.50	6.6	<2	6.6
344667	3.24	11.8	4.3	74.3	0.35	6.2	<2	7.0
344668	1.22	12.1	5.0	61.1	0.33	7.0	<2	6.5
344669	3.37	11.9	9.9	70.9	0.41	7.4	<2	6.0
344670	0.97	8.3	5.2	97.9	0.71	3.2	<2	4.3
344671	1.18	2.2	2.4	15.7	0.57	31.8	<2	0.9
344672	0.77	14.1	12.8	109	0.06	18.8	<2	2.6
344673	5.57	9.9	2.6	46.1	0.31	7.1	<2	6.2
344674	2.95	9.8	2.6	46.4	0.40	7.1	<2	7.1
344675	5.13	10.1	2.5	45.3	0.27	7.1	<2	4.5
344676	2.48	9.6	3.5	40.0	0.19	6.9	<2	6.8
344677	1.39	10.2	3.5	42.1	0.19	7.3	<2	6.0
*Dup 344677	2.94	10.4	3.4	41.5	0.21	7.3	<2	6.0
344678	5.03	8.9	3.6	37.2	0.22	6.9	<2	5.6
344679	2.11	8.9	3.9	38.1	0.20	7.0	<2	6.6
344680	3.40	9.8	4.0	39.6	0.27	6.7	<2	6.3
344681	1.91	9.2	2.8	37.3	0.20	6.9	<2	5.3
344682	3.98	11.1	2.6	71.4	0.24	6.6	<2	5.2
344683	2.12	10.4	2.7	50.6	0.32	6.9	<2	5.2
344684	664	6.7	21.0	64.2	1.24	14.9	10	10.3
344685	3.93	11.0	2.6	47.5	0.24	6.7	<2	4.4
344686	1.86	11.3	2.4	52.4	0.23	6.8	<2	5.4

Element	@Mo	@Nb	@Pb	@Rb	@Sb	@Sc	@Se	@Sn
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.1	0.5	0.2	0.05	0.5	2	0.3
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344687	3.84	11.6	4.1	45.6	0.31	6.8	<2	5.1
344688	1.80	9.9	20.8	42.5	0.32	6.7	<2	4.2
344689	4.73	13.2	3.9	94.4	0.29	7.3	<2	7.8
344690	4.15	5.3	4.0	75.0	0.32	6.1	<2	6.0
344691	2.21	9.9	4.7	117	0.27	3.3	<2	8.1
344692	1.90	9.8	3.9	104	0.24	3.2	<2	4.9
344693	3.28	9.3	4.0	84.9	0.39	3.0	<2	6.1
344694	2.11	10.8	4.0	110	0.25	3.3	<2	3.9
344695	2.74	9.5	4.3	108	0.36	3.4	<2	3.5
344696	1.01	15.7	12.5	107	0.08	19.4	<2	2.8
344697	2.85	9.4	12.1	111	0.33	4.2	<2	4.2
344698	10.6	7.2	103	104	0.30	6.6	<2	5.4
344699	16.9	12.0	8.1	103	0.28	6.9	<2	5.0
344700	795	11.3	5.3	76.4	0.25	5.0	<2	3.9
344701	7.77	10.7	7.6	48.6	0.26	8.2	<2	3.8
344702	2.64	10.4	14.4	119	0.39	7.1	<2	11.0
344703	2.50	9.0	6.1	123	0.32	12.8	<2	10.6
344704	3.35	6.8	47.4	95.3	0.28	8.6	<2	6.2
344705	4.01	7.6	2.6	83.0	0.33	15.6	<2	4.1
344706	2.97	7.5	7.8	94.2	0.30	14.6	<2	4.1
344707	2.76	7.5	3.3	105	0.33	12.7	<2	4.5
344708	3.41	20.2	5.1	22.1	0.75	16.6	<2	1.5
344709	0.54	10.0	4.4	103	0.16	5.1	<2	4.3
344710	1.22	8.4	4.7	104	0.26	6.3	<2	4.6
344711	0.88	9.5	5.1	97.6	0.35	6.4	<2	4.7
344712	0.90	9.3	4.4	93.4	0.29	9.7	<2	4.8
*Dup 344712	1.47	9.4	4.4	92.8	0.33	9.7	<2	4.6
344713	0.86	9.8	2.3	86.4	0.19	14.4	<2	5.1
344714	4.10	11.3	3.4	54.2	0.25	7.1	<2	4.4
344715	6.49	13.0	3.7	47.2	0.24	6.5	<2	4.6
344716	1.01	10.3	3.7	106	0.37	11.3	<2	4.4
344717	4.06	11.7	4.1	47.1	0.21	7.2	<2	5.5
344718	2.54	12.9	3.6	43.1	0.19	7.2	<2	5.7
344719	4.90	11.7	4.3	37.4	0.26	7.2	<2	4.9
344720	1.01	17.2	12.6	107	0.07	18.3	<2	2.8
344721	5.52	12.7	4.7	30.0	0.40	7.1	<2	6.2
344722	4.34	12.6	4.5	33.9	0.23	7.2	<2	6.5
344723	2.66	12.3	5.0	32.3	0.26	7.4	<2	6.8
344724	1.06	8.3	4.6	27.8	0.10	22.9	<2	1.4
344725	1.83	9.0	5.6	27.6	0.21	20.8	<2	1.5

Element	@Mo	@Nb	@Pb	@Rb	@Sb	@Sc	@Se	@Sn
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.1	0.5	0.2	0.05	0.5	2	0.3
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344726	4.91	11.9	4.7	35.8	0.12	3.2	<2	1.9
344727	3.26	12.8	5.2	68.3	0.10	2.8	<2	3.4
344728	2.08	12.5	4.8	92.9	0.13	3.0	<2	5.4
344729	8.03	9.6	5.7	74.2	0.22	2.7	<2	5.9
344730	2.17	9.3	4.3	106	0.12	5.2	<2	4.2
344731	2.16	10.3	2.5	104	0.19	6.8	<2	3.7
344732	3.35	16.5	7.0	19.7	1.44	13.5	2	1.6
344733	0.81	8.7	1.9	120	0.34	13.0	<2	6.7
344734	5.91	9.1	1.3	57.7	0.19	7.6	<2	5.9
344735	2.26	12.2	2.9	65.7	0.22	7.4	<2	6.5
344736	2.87	12.2	1.1	44.6	0.16	7.1	<2	4.8
344737	2.04	12.9	1.2	125	0.17	6.9	<2	6.3
344738	3.06	7.8	2.6	60.8	0.27	4.0	<2	4.5
344739	2.19	10.8	3.0	105	0.21	6.1	<2	4.9
344740	2.33	6.4	5.3	63.4	0.39	3.8	<2	6.2
344741	1.98	12.1	3.0	102	0.55	6.1	<2	12.9
344742	3.24	12.3	3.2	115	0.41	6.1	<2	6.9
344743	1.92	12.4	4.2	91.4	0.43	6.7	<2	5.4
344744	2.27	15.3	10.3	109	0.08	17.7	<2	2.8
344745	4.70	13.8	1.9	42.5	0.23	7.5	<2	5.0
344746	60.6	14.1	2.4	52.8	0.20	6.7	<2	4.1
344747	1.39	10.4	4.1	135	0.50	15.5	<2	8.7
*Dup 344748	3.89	11.7	3.7	66.9	0.39	7.3	<2	5.4
344748	2.31	11.5	3.4	67.7	0.31	7.2	<2	5.1
344749	2.87	12.1	3.4	60.2	0.28	7.6	<2	4.4
344750	1.89	11.8	3.2	59.9	0.28	7.2	<2	4.2
344751	3.33	12.6	4.6	74.2	0.34	7.4	<2	4.8
344752	2.24	12.5	3.5	41.5	0.35	7.5	<2	4.4
344753	3.29	13.1	2.0	29.9	0.19	6.1	<2	3.8
344754	11.5	11.5	3.2	38.1	0.33	8.1	<2	5.1
344755	3.58	11.1	1.9	30.6	0.19	7.3	<2	4.7
344756	108	18.7	21.9	188	0.88	12.9	3	5.4
344757	1.77	11.6	2.5	22.5	0.21	7.5	<2	4.5
344758	3.70	11.6	3.7	9.4	0.34	9.0	<2	2.1
344759	0.49	2.9	9.9	17.1	0.14	31.1	<2	3.4
344760	3.39	4.6	7.7	36.1	0.27	24.0	5	6.2
344761	2.10	11.8	4.7	68.7	0.27	6.5	<2	6.5
344762	3.83	10.7	10.8	36.0	0.17	6.6	<2	4.1
344763	2.25	7.8	9.5	23.1	0.16	7.4	<2	2.7
344764	2.84	11.0	5.0	37.5	0.18	6.2	<2	3.8

Element	@Mo	@Nb	@Pb	@Rb	@Sb	@Sc	@Se	@Sn
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.1	0.5	0.2	0.05	0.5	2	0.3
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344765	1.37	12.1	3.6	47.6	0.16	6.6	<2	4.4
344766	4.64	11.9	3.7	41.1	0.18	6.9	<2	5.1
344767	3.25	2.7	1.6	4.1	0.21	31.7	<2	0.7
344768	3.66	15.3	12.6	107	0.09	18.8	<2	2.9
344769	0.38	2.3	1.8	15.0	0.22	32.6	<2	1.3
344770	0.89	2.9	2.6	6.2	0.76	36.3	<2	1.3
344771	0.29	1.3	28.1	15.8	0.19	32.0	<2	0.7
344772	3.47	3.6	57.4	43.7	0.15	2.7	2	3.7
344773	1.82	10.0	6.2	75.6	0.17	5.6	3	7.1
344774	4.01	12.2	3.9	103	0.12	7.1	<2	3.8
344775	2.10	10.9	5.5	59.6	0.18	7.4	<2	4.3
344776	1.64	7.0	5.3	45.6	0.28	40.0	<2	1.3
344777	2.11	10.3	4.6	47.0	0.15	7.2	<2	3.7
344778	3.79	10.4	3.9	77.1	0.16	5.5	<2	1.9
344779	2.38	5.2	2.9	88.9	0.24	5.5	<2	1.6
344780	692	6.9	21.0	66.2	1.17	15.3	12	10.1
344781	1.79	3.2	4.8	88.9	0.16	12.2	<2	3.2
344782	4.00	8.5	6.2	78.2	0.16	6.3	<2	3.5
*Dup 344781	2.79	3.5	4.2	91.1	0.17	12.5	<2	3.4
344783	2.55	8.7	6.4	80.0	0.16	7.4	<2	2.8
344784	3.77	7.3	3.9	73.1	0.12	5.6	<2	1.3
344785	2.24	3.1	3.8	76.8	0.09	5.2	<2	1.2
344786	3.59	2.5	3.6	96.1	0.14	12.0	<2	4.1
344787	2.57	3.8	2.8	86.2	0.14	11.1	<2	4.0
344788	3.80	7.8	2.3	18.2	0.18	12.1	<2	2.6
344789	2.60	5.1	2.6	80.6	0.12	11.7	<2	5.4
344790	4.06	8.0	3.7	51.6	0.13	10.6	<2	5.4
344791	58.3	8.2	2.5	48.8	0.10	10.8	<2	3.7
344792	3.90	14.2	12.3	100	0.07	18.9	<2	2.7
344793	6.83	7.7	3.5	54.8	0.14	14.0	<2	3.9
344794	2.40	2.2	3.0	65.2	0.12	12.0	<2	2.1
344795	60.1	1.9	3.2	93.5	0.12	12.5	<2	3.4
344796	4.18	1.3	6.2	66.9	0.15	9.1	<2	3.2
344797	1.80	1.9	26.7	88.3	0.08	11.6	<2	4.0
344798	4.18	2.6	8.9	32.0	0.10	10.9	<2	1.3
344799	2.31	6.7	2.1	3.6	0.14	13.8	<2	1.2
344800	3.56	5.2	3.2	16.5	0.22	11.3	<2	1.4
344801	1.82	5.0	13.4	35.8	0.24	13.1	<2	2.2
344802	2.93	4.2	2.7	14.4	0.19	11.3	<2	1.2
*Rep 344648	3.18	13.7	12.7	101	0.11	18.9	<2	2.7

Element	@Mo	@Nb	@Pb	@Rb	@Sb	@Sc	@Se	@Sn
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.1	0.5	0.2	0.05	0.5	2	0.3
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
*Rep 344689	4.59	13.7	3.7	94.1	0.26	7.2	<2	7.7
*Rep 344730	2.35	9.1	4.5	102	0.12	5.0	<2	4.2
*Rep 344771	0.30	1.3	28.4	15.4	0.18	32.0	<2	0.7
*Rep 344802	3.05	4.1	2.8	14.6	0.18	11.5	<2	1.2
*Std OREAS-901	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-903	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-905	3.27	17.3	30.5	138	2.09	5.2	3	4.1
*Std OREAS-925	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-901	3.47	6.3	17.2	163	2.43	14.1	3	3.4
*Std OREAS-903	4.63	5.1	10.8	142	1.58	10.1	5	2.7
*Std OREAS-905	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-925	1.04	13.8	114	161	1.57	11.9	8	14.5
*Std OREAS-901	3.59	7.0	17.2	170	2.48	15.1	3	3.2
*Std OREAS-903	4.45	4.1	10.9	143	1.54	10.4	5	2.4
*Blk BLANK	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Blk BLANK	<0.05	<0.1	<0.5	<0.2	<0.05	<0.5	<2	0.4
*Blk BLANK	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Blk BLANK	<0.05	<0.1	<0.5	<0.2	<0.05	<0.5	<2	<0.3
*Blk BLANK	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Blk BLANK	<0.05	<0.1	<0.5	<0.2	<0.05	<0.5	<2	<0.3

Element	@Ta	@Tb	@Te	@Th	@Tl	@U	@W	@Y
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.05	0.05	0.2	0.02	0.05	0.1	0.1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344609	0.87	0.62	0.07	7.1	0.14	1.54	0.9	13.0
344610	0.92	0.68	<0.05	6.6	0.11	1.64	1.4	13.3
344611	1.29	0.62	0.15	8.1	0.12	2.22	1.6	11.2
344612	1.58	0.69	0.10	4.0	0.10	0.97	1.0	21.0
344613	1.31	0.58	0.08	6.3	0.13	1.33	1.6	13.1
344614	0.71	0.51	<0.05	5.9	0.09	1.25	1.0	12.4
344615	1.02	0.57	<0.05	6.9	0.09	1.59	1.2	14.6
344616	0.82	0.63	<0.05	6.4	0.11	1.37	1.1	15.5
344617	0.74	0.89	<0.05	4.7	0.09	1.21	1.4	16.1
344618	1.18	0.65	<0.05	6.3	0.08	1.63	1.2	15.8
344619	0.59	0.25	<0.05	0.8	<0.02	0.14	0.2	5.8
344620	0.46	0.36	<0.05	1.1	<0.02	0.19	0.1	10.7
344621	0.36	0.29	<0.05	0.9	<0.02	0.17	0.2	7.2
344622	0.56	0.38	<0.05	3.6	0.11	0.77	0.8	12.1
344623	0.55	0.39	<0.05	4.2	0.15	0.86	0.8	12.1
344624	1.08	1.22	<0.05	4.2	0.42	1.35	0.3	42.5
344625	0.13	0.28	<0.05	1.4	0.02	0.26	0.3	7.2
344626	0.09	0.33	<0.05	1.2	<0.02	0.18	<0.1	8.9
344627	0.27	0.40	<0.05	1.3	<0.02	0.25	0.1	10.6
344628	0.42	0.33	<0.05	1.2	0.03	0.22	0.2	7.8
344629	0.54	0.36	<0.05	1.0	0.04	0.21	1.2	9.4
344630	1.16	0.39	0.09	4.8	0.15	0.93	2.5	9.3
344631	1.07	0.36	0.40	5.3	0.34	1.42	5.2	9.0
344632	1.06	0.43	<0.05	6.6	0.13	1.19	1.7	12.5
344633	1.16	0.47	<0.05	6.3	0.10	1.20	1.3	12.3
344634	0.84	0.58	<0.05	7.0	0.17	1.28	1.0	13.3
344635	0.60	1.05	0.17	4.0	0.14	1.28	1.0	43.5
344636	1.21	0.67	0.12	4.6	0.08	1.27	1.3	21.0
344637	1.14	0.57	<0.05	10.2	0.12	2.12	1.0	12.4
344638	1.28	0.51	<0.05	9.1	0.15	1.78	1.3	12.1
344639	1.29	0.55	<0.05	7.7	0.21	1.76	1.3	11.5
344640	0.12	0.52	0.07	1.9	0.07	0.38	0.3	13.7
344641	1.05	0.52	0.09	6.7	0.34	1.36	1.2	11.9
344642	0.92	0.47	<0.05	6.6	0.20	1.26	1.3	11.8
*Dup 344642	1.17	0.47	<0.05	6.3	0.19	1.21	1.3	11.0
344643	1.20	0.61	0.09	12.7	0.21	2.57	1.3	13.0
344644	1.56	0.58	0.06	12.4	0.23	2.70	1.1	12.4
344645	1.55	0.81	<0.05	12.0	0.14	2.24	0.9	11.1
344646	1.51	0.56	<0.05	11.0	0.17	2.34	1.1	9.4
344647	1.13	0.61	0.09	12.1	0.22	2.63	1.1	12.5

Element	@Ta	@Tb	@Te	@Th	@Tl	@U	@W	@Y
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.05	0.05	0.2	0.02	0.05	0.1	0.1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344648	0.83	1.19	<0.05	5.0	0.45	1.34	0.2	40.3
344649	0.82	0.55	0.10	11.9	0.22	2.38	1.3	11.0
344650	0.82	0.59	<0.05	10.5	0.20	2.07	1.1	12.2
344651	0.73	0.52	0.19	10.3	0.25	1.95	1.1	11.0
344652	0.93	0.56	<0.05	11.8	0.29	1.97	1.6	13.0
344653	0.98	0.62	<0.05	12.7	0.23	2.21	1.2	12.8
344654	0.30	0.45	1.33	3.3	0.06	0.64	0.5	10.6
344655	0.18	0.43	1.41	1.7	0.13	0.38	0.3	11.1
344656	0.72	0.50	0.10	6.5	0.05	1.09	0.5	11.5
344657	1.01	0.55	0.11	7.0	0.19	1.38	1.0	13.3
344658	1.04	0.56	<0.05	7.3	0.15	1.46	0.9	14.1
344659	0.31	0.83	<0.05	6.9	0.20	1.65	0.3	20.2
344660	1.53	0.71	0.06	18.8	0.90	4.72	3.7	24.4
344661	1.13	0.52	0.40	7.3	0.20	1.60	1.8	12.2
344662	1.11	0.43	2.31	6.5	0.30	1.25	2.9	7.7
344663	1.10	0.56	<0.05	7.5	0.14	1.40	1.0	11.2
344664	0.80	0.58	<0.05	6.5	0.16	1.42	1.0	12.9
344665	0.58	0.49	<0.05	8.5	0.11	2.09	0.6	9.0
344666	0.83	0.57	<0.05	6.8	0.18	1.40	1.1	13.3
344667	0.97	0.55	<0.05	7.3	0.24	1.45	1.1	12.7
344668	1.04	0.58	<0.05	7.2	0.20	1.52	0.7	12.8
344669	1.04	0.57	<0.05	7.3	0.23	1.50	0.7	13.0
344670	1.09	0.47	<0.05	12.4	0.32	4.13	1.3	14.4
344671	0.18	0.46	<0.05	0.3	0.06	0.08	<0.1	13.8
344672	0.91	1.19	<0.05	4.3	0.46	1.32	0.1	41.9
344673	0.82	0.74	0.06	6.9	0.14	1.67	0.5	14.9
344674	0.84	0.65	<0.05	6.6	0.14	1.69	0.6	13.9
344675	0.85	0.59	<0.05	6.7	0.14	2.37	0.5	13.2
344676	0.89	0.59	<0.05	6.7	0.14	1.67	0.7	11.5
344677	0.87	0.63	0.08	6.8	0.14	1.59	0.8	12.5
*Dup 344677	0.88	0.63	0.09	6.8	0.15	1.49	0.9	12.5
344678	0.78	0.63	<0.05	6.9	0.14	1.55	0.6	13.0
344679	0.77	0.62	<0.05	6.5	0.14	1.73	0.4	12.8
344680	0.85	0.68	<0.05	6.8	0.14	1.40	0.7	14.2
344681	0.91	0.68	<0.05	6.5	0.13	1.24	0.3	12.8
344682	1.04	0.64	<0.05	6.9	0.21	1.24	1.0	12.8
344683	0.88	0.62	<0.05	6.9	0.25	1.18	0.7	12.4
344684	0.60	0.41	0.40	3.9	0.31	1.15	3.1	14.0
344685	0.97	0.67	<0.05	7.2	0.19	1.23	0.6	13.1
344686	1.00	0.57	<0.05	7.1	0.16	1.31	0.7	11.6

Element	@Ta	@Tb	@Te	@Th	@Tl	@U	@W	@Y
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.05	0.05	0.2	0.02	0.05	0.1	0.1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344687	1.11	0.59	<0.05	7.0	0.14	1.24	0.8	13.0
344688	0.91	0.57	<0.05	7.2	0.13	1.39	1.4	12.4
344689	1.13	0.81	<0.05	7.5	0.31	1.42	3.1	13.3
344690	0.48	0.31	0.87	3.8	0.24	1.30	3.3	9.3
344691	1.26	0.54	<0.05	14.4	0.35	3.42	3.0	17.1
344692	1.30	0.64	<0.05	13.9	0.31	3.25	1.7	18.9
344693	1.18	0.57	0.17	12.1	0.26	2.96	1.5	18.0
344694	1.35	0.62	<0.05	14.0	0.31	3.46	1.7	20.2
344695	1.17	0.52	0.05	13.1	0.31	3.42	1.8	19.0
344696	1.14	1.25	<0.05	4.1	0.43	2.73	0.3	42.3
344697	1.20	0.46	<0.05	12.4	0.31	3.34	2.6	14.1
344698	0.92	0.59	<0.05	10.6	0.31	3.51	3.9	14.4
344699	1.12	0.45	<0.05	8.3	0.30	1.76	3.1	10.0
344700	0.98	0.41	0.15	7.4	0.22	1.79	2.1	8.1
344701	0.88	0.55	<0.05	7.2	0.15	1.43	1.4	11.0
344702	0.99	0.49	<0.05	8.0	0.30	1.54	4.0	11.5
344703	0.68	0.43	<0.05	3.1	0.34	3.03	7.4	17.0
344704	0.51	0.48	<0.05	3.3	0.26	1.36	3.3	16.5
344705	0.74	0.55	<0.05	3.6	0.24	1.73	2.0	26.4
344706	0.79	0.55	<0.05	4.4	0.25	1.22	1.6	20.7
344707	0.79	0.43	<0.05	5.3	0.29	1.80	1.7	15.2
344708	1.62	0.70	<0.05	4.0	0.08	0.98	0.8	21.0
344709	1.24	0.76	<0.05	16.2	0.27	4.23	1.8	21.8
344710	1.07	0.50	<0.05	11.6	0.32	3.53	1.9	15.8
344711	1.27	0.41	<0.05	10.6	0.32	3.35	1.4	15.3
344712	1.09	0.47	<0.05	8.6	0.33	2.81	1.0	17.8
*Dup 344712	1.08	0.46	<0.05	9.0	0.32	2.94	1.1	17.9
344713	0.89	0.49	<0.05	3.4	0.29	1.52	1.2	22.5
344714	1.12	1.21	<0.05	6.9	0.17	1.14	0.9	37.7
344715	1.34	0.99	<0.05	8.2	0.12	1.71	1.2	34.3
344716	1.08	0.52	<0.05	6.2	0.37	2.20	2.1	20.7
344717	1.08	1.07	<0.05	6.6	0.14	1.23	1.0	33.7
344718	1.19	0.67	<0.05	7.1	0.13	1.26	0.8	20.5
344719	1.05	1.01	<0.05	6.4	0.10	1.16	0.8	33.4
344720	1.26	1.23	<0.05	4.1	0.42	1.69	0.3	41.8
344721	1.21	1.07	<0.05	7.4	0.09	1.42	0.7	38.1
344722	1.15	1.11	<0.05	7.2	0.10	1.59	0.8	38.4
344723	1.10	0.81	<0.05	6.8	0.10	1.48	0.9	29.0
344724	0.61	0.70	<0.05	2.6	0.14	0.42	0.1	20.5
344725	0.74	0.79	<0.05	4.6	0.26	0.84	0.4	24.8

Element	@Ta	@Tb	@Te	@Th	@Tl	@U	@W	@Y
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.05	0.05	0.2	0.02	0.05	0.1	0.1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344726	1.64	1.24	<0.05	16.6	0.11	3.70	1.1	44.4
344727	1.75	1.26	<0.05	17.4	0.15	3.94	1.4	45.8
344728	1.74	1.23	<0.05	17.2	0.21	3.88	1.7	42.5
344729	1.45	0.87	<0.05	15.8	0.19	3.36	1.6	26.5
344730	1.25	0.69	<0.05	13.1	0.30	3.48	1.9	21.1
344731	1.09	0.59	<0.05	10.9	0.32	3.03	2.3	19.5
344732	1.27	0.73	0.12	4.2	0.09	1.27	1.3	20.6
344733	0.72	0.50	<0.05	3.5	0.49	2.20	3.9	21.0
344734	0.77	0.84	<0.05	6.5	0.18	1.34	2.4	24.1
344735	1.06	1.00	<0.05	7.2	0.18	1.57	2.7	33.6
344736	1.16	1.02	<0.05	6.8	0.12	1.60	1.8	35.4
344737	1.20	0.69	<0.05	7.2	0.35	1.48	2.5	21.6
344738	0.69	0.59	<0.05	4.0	0.17	1.04	2.0	17.4
344739	1.07	0.66	<0.05	6.4	0.29	1.56	2.6	18.7
344740	0.58	0.42	<0.05	3.0	0.17	0.77	2.3	14.6
344741	1.14	0.50	<0.05	6.4	0.30	1.29	3.5	13.3
344742	1.20	0.65	<0.05	6.9	0.34	1.50	2.3	18.8
344743	1.24	0.86	<0.05	7.5	0.27	1.76	2.1	25.8
344744	0.94	1.16	<0.05	3.6	0.44	1.19	0.3	38.9
344745	1.16	1.89	<0.05	8.9	0.13	2.13	1.4	39.8
344746	1.16	0.94	<0.05	6.3	0.17	1.07	1.4	20.1
344747	0.84	0.34	<0.05	2.8	0.56	2.75	2.7	18.7
*Dup 344748	1.11	1.00	<0.05	6.4	0.20	1.45	1.7	31.1
344748	1.02	1.03	<0.05	6.4	0.20	1.46	1.5	31.2
344749	1.16	0.93	<0.05	7.0	0.18	1.59	1.2	32.3
344750	1.09	0.79	<0.05	6.2	0.16	1.49	1.1	27.5
344751	1.14	0.90	<0.05	6.6	0.20	1.59	1.2	30.3
344752	1.18	1.02	<0.05	6.3	0.12	1.43	0.8	35.0
344753	1.09	0.79	<0.05	5.6	0.07	1.51	0.9	23.1
344754	1.03	0.69	<0.05	5.6	0.10	1.09	1.0	20.8
344755	1.00	0.89	<0.05	6.1	0.07	1.42	0.6	27.6
344756	1.61	0.69	0.07	17.4	0.87	4.38	4.0	24.9
344757	1.05	1.08	<0.05	6.5	0.07	1.40	0.5	36.5
344758	1.03	0.82	<0.05	6.4	0.03	1.20	0.3	24.5
344759	0.27	0.37	0.08	0.8	0.03	0.25	1.0	13.8
344760	0.43	0.37	0.27	2.2	0.10	0.50	2.7	8.6
344761	1.13	0.72	<0.05	7.6	0.20	1.77	4.1	14.6
344762	1.01	0.77	<0.05	6.8	0.11	1.72	1.3	17.4
344763	0.72	1.10	<0.05	4.7	0.06	1.10	0.7	41.2
344764	0.96	0.70	<0.05	6.4	0.09	1.43	0.7	22.0

Element	@Ta	@Tb	@Te	@Th	@Tl	@U	@W	@Y
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.05	0.05	0.2	0.02	0.05	0.1	0.1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344765	1.15	0.78	<0.05	6.9	0.12	1.51	0.8	23.3
344766	1.14	1.03	<0.05	7.1	0.10	1.59	0.9	32.1
344767	0.29	0.60	<0.05	0.4	<0.02	0.12	0.1	19.2
344768	0.93	1.29	<0.05	4.2	0.47	1.35	0.2	42.9
344769	0.22	0.38	<0.05	0.5	0.10	0.11	0.1	15.7
344770	0.17	0.34	<0.05	<0.2	0.04	<0.05	0.1	15.6
344771	0.11	0.29	0.16	<0.2	0.06	<0.05	0.3	10.8
344772	0.28	0.37	0.49	3.1	0.09	0.73	1.4	11.4
344773	0.88	0.46	0.06	6.0	0.18	1.37	1.9	7.4
344774	1.08	0.50	<0.05	6.2	0.24	1.67	1.3	9.9
344775	0.86	0.54	<0.05	6.1	0.15	3.46	0.9	10.0
344776	0.55	0.88	<0.05	2.5	0.32	0.55	0.2	33.9
344777	0.84	0.46	<0.05	6.6	0.10	2.21	0.6	10.3
344778	1.06	0.52	<0.05	8.6	0.23	1.87	0.6	12.6
344779	0.54	0.54	<0.05	8.7	0.26	1.85	0.6	12.9
344780	0.60	0.41	0.38	3.9	0.28	1.17	3.0	14.4
344781	0.28	0.61	<0.05	6.1	0.28	1.48	0.9	14.1
344782	0.83	0.74	<0.05	6.3	0.23	1.46	1.2	24.0
*Dup 344781	0.31	0.67	<0.05	6.2	0.29	1.52	1.0	14.2
344783	0.77	0.59	<0.05	7.0	0.24	1.64	1.2	16.2
344784	0.76	0.55	<0.05	8.4	0.22	1.90	0.6	14.2
344785	0.36	0.53	<0.05	8.2	0.22	1.79	0.4	13.9
344786	0.20	0.61	<0.05	5.2	0.30	1.53	1.9	12.6
344787	0.40	0.58	<0.05	5.4	0.26	1.37	2.0	13.8
344788	0.83	0.73	<0.05	5.2	0.05	1.36	0.6	21.7
344789	0.54	0.70	<0.05	5.5	0.21	1.87	1.4	15.6
344790	0.73	0.60	<0.05	4.9	0.15	1.33	1.0	15.7
344791	0.83	0.64	<0.05	5.0	0.14	1.45	1.2	17.1
344792	0.90	1.19	<0.05	3.8	0.42	1.25	0.2	40.3
344793	0.52	1.56	<0.05	5.5	0.16	2.55	0.9	38.2
344794	0.24	0.70	<0.05	5.3	0.19	1.40	1.0	14.2
344795	0.19	0.88	<0.05	5.6	0.27	1.83	2.4	16.0
344796	0.11	0.85	0.13	4.4	0.21	1.43	2.1	17.9
344797	0.17	0.80	<0.05	4.9	0.26	1.17	2.8	12.8
344798	0.28	0.76	<0.05	5.3	0.10	1.51	0.9	17.3
344799	0.70	1.01	<0.05	4.9	<0.02	1.24	0.3	30.7
344800	0.65	0.74	<0.05	5.3	0.04	1.32	0.5	30.1
344801	0.61	0.94	<0.05	6.1	0.10	1.43	1.0	34.8
344802	0.52	0.82	<0.05	5.3	0.04	1.46	0.3	32.4
*Rep 344648	0.82	1.21	<0.05	5.1	0.45	1.36	0.2	40.6

Element	@Ta	@Tb	@Te	@Th	@Tl	@U	@W	@Y
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.05	0.05	0.2	0.02	0.05	0.1	0.1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
*Rep 344689	1.13	0.80	0.05	7.3	0.29	1.42	2.9	13.2
*Rep 344730	1.19	0.67	<0.05	13.1	0.30	3.49	1.9	20.2
*Rep 344771	0.10	0.30	0.11	<0.2	0.05	<0.05	0.3	10.6
*Rep 344802	0.54	0.85	<0.05	5.4	0.04	1.49	0.4	32.7
*Std OREAS-901	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-903	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-905	1.45	0.71	0.05	15.3	0.69	4.67	2.6	15.7
*Std OREAS-925	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-901	0.65	1.06	0.06	16.8	0.72	10.3	2.5	37.3
*Std OREAS-903	0.52	0.73	<0.05	13.5	0.59	7.15	1.7	22.4
*Std OREAS-905	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-925	1.26	0.73	<0.05	16.9	0.97	2.81	6.5	23.7
*Std OREAS-901	0.66	1.08	0.07	17.0	0.79	10.3	2.8	38.4
*Std OREAS-903	0.42	0.73	<0.05	14.0	0.59	7.40	1.3	22.5
*Blk BLANK	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05	<0.1	<0.1
*Blk BLANK	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05	<0.1	<0.1
*Blk BLANK	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05	<0.1	<0.1

Element	@Yb
Method	GE_ICM40B
Det.Lim.	0.1
Units	ppm
344609	1.3
344610	1.5
344611	1.3
344612	1.7
344613	1.5
344614	1.4
344615	1.8
344616	2.1
344617	1.4
344618	1.9
344619	0.6
344620	0.8
344621	0.7
344622	1.4
344623	1.5
344624	3.8
344625	0.8
344626	0.8
344627	1.0
344628	0.7
344629	0.9
344630	1.2
344631	1.3
344632	1.7
344633	1.5
344634	1.4
344635	5.2
344636	1.7
344637	1.5
344638	1.5
344639	1.5
344640	1.0
344641	1.5
344642	1.5
*Dup 344642	1.4
344643	1.8
344644	1.7
344645	1.5
344646	1.4
344647	1.7

Element	@Yb
Method	GE_ICM40B
Det.Lim.	0.1
Units	ppm
344648	3.8
344649	1.7
344650	1.6
344651	1.5
344652	1.7
344653	1.8
344654	1.2
344655	1.1
344656	1.5
344657	1.7
344658	1.7
344659	1.8
344660	2.4
344661	1.4
344662	1.0
344663	1.3
344664	1.6
344665	1.2
344666	1.5
344667	1.6
344668	1.6
344669	1.6
344670	2.8
344671	1.5
344672	3.7
344673	1.8
344674	1.7
344675	1.5
344676	1.3
344677	1.4
*Dup 344677	1.4
344678	1.5
344679	1.5
344680	1.7
344681	1.4
344682	1.4
344683	1.6
344684	1.5
344685	1.5
344686	1.3

Element	@Yb
Method	GE_ICM40B
Det.Lim.	0.1
Units	ppm
344687	1.4
344688	1.4
344689	1.4
344690	1.5
344691	3.0
344692	3.4
344693	3.1
344694	3.6
344695	3.6
344696	3.8
344697	3.1
344698	2.6
344699	1.1
344700	1.0
344701	1.3
344702	1.3
344703	3.0
344704	1.8
344705	4.0
344706	2.8
344707	2.4
344708	1.8
344709	4.1
344710	3.4
344711	3.1
344712	3.1
*Dup 344712	3.0
344713	2.7
344714	3.7
344715	3.6
344716	3.0
344717	3.4
344718	2.1
344719	3.3
344720	3.7
344721	3.8
344722	3.8
344723	3.1
344724	2.0
344725	2.5

Element	@Yb
Method	GE_ICM40B
Det.Lim.	0.1
Units	ppm
344726	5.4
344727	5.7
344728	5.4
344729	3.9
344730	3.2
344731	2.9
344732	1.7
344733	2.8
344734	2.5
344735	3.8
344736	3.9
344737	2.6
344738	1.7
344739	2.1
344740	1.3
344741	1.6
344742	2.1
344743	2.7
344744	3.5
344745	3.2
344746	1.7
344747	3.3
*Dup 344748	3.3
344748	3.3
344749	3.5
344750	3.1
344751	3.2
344752	3.9
344753	2.2
344754	2.2
344755	3.1
344756	2.4
344757	3.9
344758	2.3
344759	1.6
344760	1.0
344761	1.5
344762	1.9
344763	5.4
344764	2.3

Element	@Yb
Method	GE_ICM40B
Det.Lim.	0.1
Units	ppm
344765	2.5
344766	3.0
344767	1.7
344768	4.0
344769	1.8
344770	1.7
344771	1.3
344772	1.3
344773	0.9
344774	1.2
344775	1.3
344776	3.8
344777	1.2
344778	1.5
344779	1.5
344780	1.6
344781	1.6
344782	2.4
*Dup 344781	1.6
344783	2.1
344784	1.7
344785	1.7
344786	1.6
344787	2.0
344788	2.3
344789	1.7
344790	2.0
344791	1.9
344792	3.7
344793	3.7
344794	1.5
344795	1.7
344796	2.3
344797	1.1
344798	1.6
344799	3.6
344800	3.2
344801	3.7
344802	3.5
*Rep 344648	3.7

Element	@Yb
Method	GE_ICM40B
Det.Lim.	0.1
Units	ppm
*Rep 344689	1.4
*Rep 344730	3.2
*Rep 344771	1.3
*Rep 344802	3.5
*Std OREAS-901	N.A.
*Std OREAS-903	N.A.
*Std OREAS-905	0.7
*Std OREAS-925	N.A.
*Std OREAS-901	3.6
*Std OREAS-903	2.3
*Std OREAS-905	N.A.
*Std OREAS-925	2.4
*Std OREAS-901	3.6
*Std OREAS-903	2.4
*Blk BLANK	N.A.
*Blk BLANK	<0.1
*Blk BLANK	N.A.
*Blk BLANK	<0.1
*Blk BLANK	N.A.
*Blk BLANK	<0.1

Certificate of Analysis

Provisional : Work Order : SU1600061C

[Report File No.: 0000006390]

To: **Stephen Roach**
TRELAWNEY MINING AND EXPLORATION INC
3 MESOMIKENDA LAKE ROAD BOX 100
GOGAMA ON P0M 1W0

Date: Feb 19, 2016

P.O. No.	:	Mining & Exploration - GO_XRF76V 'C'
Project No.	:	CKE_PROJECT_234
No. Of Samples	:	6
Date Submitted	:	Jan 29, 2016
Report Comprises	:	Pages 1 to 3 (Inclusive of Cover Sheet)

Distribution of unused material:
To Be Determined:

Certified By : _____
Debbie Waldon
Project Coordinator

SGS Minerals Services (Lakefield) is accredited by Standards Council of Canada (SCC) and conforms to the requirements of ISO/IEC 17025 for specific tests as indicated on the scope of accreditation to be found at http://www.scc.ca/en/programs/lab/mineral.shtml

Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	--	= No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted

Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

Provisional : SU1600061C Order: Mining & Exploration - GO_XRF76V 'C'

Report File No.: 0000006390

Element	@LOI	@SiO2	@Al2O3	@Fe2O3	@MgO	@CaO	@K2O	@Na2O
Method	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V
Det.Lim.	-10.000	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Units	%	%	%	%	%	%	%	%
344609	2.61	71.0	12.5	5.04	0.55	1.74	1.21	4.60
344621	23.7	32.5	4.30	12.1	12.2	13.6	<0.01	0.02
344665	2.05	76.1	11.6	3.27	0.42	1.30	1.10	4.30
344692	2.78	74.6	11.4	4.32	1.00	0.93	3.36	0.48
344715	1.91	71.7	12.6	4.95	1.43	1.11	1.42	4.03
344802	3.70	64.6	14.9	4.58	1.77	4.29	0.36	5.16
*Blk BLANK	100.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
*Std SARM2	0.330	64.1	17.4	1.42	0.44	0.67	15.5	0.41

Provisional : SU1600061C Order: Mining & Exploration - GO_XRF76V 'C'

Report File No.: 0000006390

Element	@TiO2	@MnO	@P2O5	@Cr2O3	@V2O5	Sum
Method	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V
Det.Lim.	0.01	0.01	0.01	0.01	0.01	0
Units	%	%	%	%	%	%
344609	0.33	0.03	0.05	<0.01	<0.01	99.7
344621	1.01	0.22	0.09	0.14	0.03	99.9
344665	0.20	0.01	0.02	0.02	<0.01	100.4
344692	0.16	0.02	0.02	<0.01	<0.01	99.1
344715	0.32	0.05	0.05	<0.01	<0.01	99.6
344802	0.56	0.04	0.11	<0.01	<0.01	100.1
*Blk BLANK	<0.01	<0.01	<0.01	<0.01	<0.01	100.0
*Std SARM2	0.04	<0.01	0.12	<0.01	<0.01	N.A.

Certificate of Analysis

Work Order : SU1600061C

[Report File No.: 0000006391]

To: **Stephen Roach**
TRELAWNEY MINING AND EXPLORATION INC
3 MESOMIKENDA LAKE ROAD BOX 100
GOGAMA ON P0M 1W0

Date: Feb 22, 2016

P.O. No.	:	Mining & Exploration - GO_XRF76V 'C'
Project No.	:	CKE_PROJECT_234
No. Of Samples	:	6
Date Submitted	:	Jan 29, 2016
Report Comprises	:	Pages 1 to 3 (Inclusive of Cover Sheet)

Distribution of unused material:
To Be Determined:

Certified By : Debbie Waldon
Debbie Waldon
Project Coordinator

SGS Minerals Services (Lakefield) is accredited by Standards Council of Canada (SCC) and conforms to the requirements of ISO/IEC 17025 for specific tests as indicated on the scope of accreditation to be found at http://www.scc.ca/en/programs/lab/mineral.shtml

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted

Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

Final : SU1600061C Order: Mining & Exploration - GO_XRF76V 'C'

Report File No.: 0000006391

Element	@LOI	@SiO2	@Al2O3	@Fe2O3	@MgO	@CaO	@K2O	@Na2O
Method	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V
Det.Lim.	-10.000	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Units	%	%	%	%	%	%	%	%
344609	2.61	71.0	12.5	5.04	0.55	1.74	1.21	4.60
344621	23.7	32.5	4.30	12.1	12.2	13.6	<0.01	0.02
344665	2.05	76.1	11.6	3.27	0.42	1.30	1.10	4.30
344692	2.78	74.6	11.4	4.32	1.00	0.93	3.36	0.48
344715	1.91	71.7	12.6	4.95	1.43	1.11	1.42	4.03
344802	3.70	64.6	14.9	4.58	1.77	4.29	0.36	5.16
*Blk BLANK	100.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
*Std SARM2	0.330	64.1	17.4	1.42	0.44	0.67	15.5	0.41

Final : SU1600061C Order: Mining & Exploration - GO_XRF76V 'C'

Report File No.: 0000006391

Element	@TiO2	@MnO	@P2O5	@Cr2O3	@V2O5	Sum
Method	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V
Det.Lim.	0.01	0.01	0.01	0.01	0.01	0
Units	%	%	%	%	%	%
344609	0.33	0.03	0.05	<0.01	<0.01	99.7
344621	1.01	0.22	0.09	0.14	0.03	99.9
344665	0.20	0.01	0.02	0.02	<0.01	100.4
344692	0.16	0.02	0.02	<0.01	<0.01	99.1
344715	0.32	0.05	0.05	<0.01	<0.01	99.6
344802	0.56	0.04	0.11	<0.01	<0.01	100.1
*Blk BLANK	<0.01	<0.01	<0.01	<0.01	<0.01	100.0
*Std SARM2	0.04	<0.01	0.12	<0.01	<0.01	N.A.

Certificate of Analysis

Work Order : SU1600061D

[Report File No.: 0000006540]

To: **Alan Smith**
TRELAWNEY MINING AND EXPLORATION INC
3 MESOMIKENDA LAKE ROAD BOX 100
GOGAMA ON P0M 1W0

Date: Mar 23, 2016

P.O. No.	:	Mining & Exploration - GO_ICM40B 'B'
Project No.	:	CKE_PROJECT_234
No. Of Samples	:	1
Date Submitted	:	Mar 17, 2016
Report Comprises	:	Pages 1 to 2 (Inclusive of Cover Sheet)

Distribution of unused material:
To Be Determined:

Certified By : Debbie Waldon
Debbie Waldon
Project Coordinator

SGS Minerals Services (Lakefield) is accredited by Standards Council of Canada (SCC) and conforms to the requirements of ISO/IEC 17025 for specific tests as indicated on the scope of accreditation to be found at http://www.scc.ca/en/programs/lab/mineral.shtml

Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	--	= No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted

Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

Final : SU1600061D Order: Mining & Exploration - GO_ICM40B 'B'

Report File No.: 0000006540

Element	Cu
Method	GO_XRF77B
Det.Lim.	0.01
Units	%
344760	1.13
*Rep 344760	1.13
*Blk BLANK	<0.01

Certificate of Analysis

Work Order : SU1600110A

[Report File No.: 0000006451]

To: **Stephen Roach**
TRELAWNEY MINING AND EXPLORATION INC
3 MESOMIKENDA LAKE ROAD BOX 100
GOGAMA ON P0M 1W0

Date: Feb 26, 2016

P.O. No.	:	Mining & Exploration - GE_FAA515 'A'
Project No.	:	CKE_PROJECT_234
No. Of Samples	:	84
Date Submitted	:	Feb 17, 2016
Report Comprises	:	Pages 1 to 4 (Inclusive of Cover Sheet)

Distribution of unused material:
To Be Determined:

Certified By : Debbie Waldon
Debbie Waldon
Project Coordinator

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Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	--	= No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted

Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

Final : SU1600110A Order: Mining & Exploration - GE_FAA515 'A'

Report File No.: 0000006451

Element	@Au	@AuR
Method	GE_FAA515	GE_FAA515
Det.Lim.	0.005	0.005
Units	ppm	ppm
344803	0.008	0.006
344804	<0.005	N.A.
344805	<0.005	N.A.
344806	<0.005	N.A.
344807	<0.005	N.A.
344808	<0.005	N.A.
344809	<0.005	N.A.
344810	<0.005	N.A.
344811	<0.005	N.A.
344812	1.612	N.A.
344813	<0.005	N.A.
344814	<0.005	N.A.
344815	<0.005	N.A.
344816	<0.005	N.A.
344817	<0.005	N.A.
344818	<0.005	N.A.
344819	<0.005	N.A.
344820	<0.005	N.A.
344821	<0.005	N.A.
344822	<0.005	N.A.
344823	<0.005	N.A.
344824	<0.005	N.A.
344825	<0.005	N.A.
344826	<0.005	N.A.
344827	<0.005	N.A.
344828	<0.005	N.A.
344829	<0.005	N.A.
344830	<0.005	N.A.
344831	<0.005	N.A.
344832	<0.005	N.A.
344833	<0.005	N.A.
344834	<0.005	N.A.
*Dup 344834	<0.005	N.A.
344835	<0.005	N.A.
344836	2.309	N.A.
344837	<0.005	N.A.
344838	<0.005	N.A.
344839	<0.005	N.A.
344840	<0.005	N.A.
344841	<0.005	N.A.

Final : SU1600110A Order: Mining & Exploration - GE_FAA515 'A'

Report File No.: 0000006451

Element	@Au	@AuR
Method	GE_FAA515	GE_FAA515
Det.Lim.	0.005	0.005
Units	ppm	ppm
344842	<0.005	N.A.
344843	<0.005	N.A.
344844	<0.005	N.A.
344845	<0.005	N.A.
344846	<0.005	N.A.
344847	<0.005	N.A.
344848	<0.005	N.A.
344849	<0.005	N.A.
344850	<0.005	N.A.
344851	<0.005	N.A.
344852	0.006	N.A.
344853	<0.005	N.A.
344854	<0.005	N.A.
344855	<0.005	N.A.
344856	<0.005	N.A.
344857	0.053	N.A.
344858	<0.005	N.A.
344859	<0.005	N.A.
344860	0.258	N.A.
344861	<0.005	N.A.
344862	<0.005	N.A.
344863	<0.005	N.A.
344864	<0.005	N.A.
344865	<0.005	N.A.
344866	0.020	N.A.
344867	0.041	N.A.
344868	0.040	N.A.
*Dup 344868	0.039	N.A.
344869	<0.005	N.A.
344870	<0.005	N.A.
344871	<0.005	N.A.
344872	<0.005	N.A.
344873	<0.005	N.A.
344874	<0.005	N.A.
344875	<0.005	<0.005
344876	<0.005	N.A.
344877	<0.005	N.A.
344878	<0.005	N.A.
344879	<0.005	N.A.
344880	<0.005	<0.005

Final : SU1600110A Order: Mining & Exploration - GE_FAA515 'A'

Report File No.: 0000006451

Element	@Au	@AuR
Method	GE_FAA515	GE_FAA515
Det.Lim.	0.005	0.005
Units	ppm	ppm
344881	<0.005	N.A.
344882	<0.005	N.A.
344883	<0.005	N.A.
344884	1.547	N.A.
344885	<0.005	N.A.
344886	<0.005	N.A.
*Std OREAS-203	0.901	N.A.
*Std OREAS-206	2.246	N.A.
*Std OXD108	0.437	N.A.
*Std OREAS-206	2.232	N.A.
*Blk BLANK	<0.005	N.A.
*Blk BLANK	<0.005	N.A.

Certificate of Analysis

Work Order : SU1600110B

[Report File No.: 0000006502]

To: **Alan Smith** Date: Mar 14, 2016

TRELAWNEY MINING AND EXPLORATION INC
3 MESOMIKENDA LAKE ROAD BOX 100
GOGAMA ON P0M 1W0

P.O. No.	:	Mining & Exploration - GO_ICM40B 'B'
Project No.	:	CKE_PROJECT_234
No. Of Samples	:	84
Date Submitted	:	Feb 17, 2016
Report Comprises	:	Pages 1 to 22 (Inclusive of Cover Sheet)

Distribution of unused material:
To Be Determined:

Certified By : Debbie Waldon
Debbie Waldon
Project Coordinator

SGS Minerals Services (Lakefield) is accredited by Standards Council of Canada (SCC) and conforms to the requirements of ISO/IEC 17025 for specific tests as indicated on the scope of accreditation to be found at http://www.scc.ca/en/programs/lab/mineral.shtml

Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	--	= No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted

Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

Element	@Ag	@Al	@Ba	@Ca	@Cr	@Cu	@Fe	@K
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.1	0.01	1	0.01	1	0.5	0.01	0.01
Units	ppm	%	ppm	%	ppm	ppm	%	%
344803	<0.1	7.59	192	1.64	27	127	2.89	0.84
344804	<0.1	7.05	138	1.15	7	34.0	1.77	1.34
344805	<0.1	7.00	110	1.07	21	11.3	1.51	0.80
344806	<0.1	7.13	152	1.49	9	6.7	1.57	1.06
344807	<0.1	6.90	127	1.62	26	9.0	2.23	0.94
344808	<0.1	6.52	234	1.78	9	29.7	2.12	1.89
344809	<0.1	9.09	1125	0.63	13	5.0	2.20	1.78
344810	<0.1	5.62	671	0.27	15	4.4	1.81	0.90
344811	<0.1	7.67	733	2.24	18	5.8	2.33	0.96
344812	0.3	7.58	246	5.39	184	71.2	8.12	0.68
344813	<0.1	7.14	125	2.09	8	10.9	1.94	0.21
344814	<0.1	6.85	28	6.74	352	10.7	7.36	0.04
344815	<0.1	6.40	10	8.34	441	6.4	6.89	0.01
344816	<0.1	7.31	161	0.80	26	13.7	2.48	0.62
344817	<0.1	7.45	284	0.37	16	7.4	3.11	1.30
344818	<0.1	7.40	82	0.50	19	4.6	2.89	0.30
344819	<0.1	7.25	234	0.39	12	9.3	2.51	0.22
344820	<0.1	3.29	7	8.08	742	169	9.59	<0.01
344821	0.1	3.31	4	6.99	729	281	9.82	<0.01
344822	<0.1	3.23	4	5.78	747	191	9.97	<0.01
344823	0.1	3.14	7	5.98	772	203	10.4	<0.01
344824	<0.1	10.1	707	4.71	26	24.1	6.23	1.98
344825	0.1	3.90	9	5.83	674	250	11.2	<0.01
344826	0.1	3.07	100	6.75	881	173	10.4	0.07
344827	0.1	3.18	110	6.09	864	196	10.3	0.06
344828	0.2	3.13	131	6.51	945	184	10.1	0.09
344829	<0.1	3.52	172	6.03	872	148	9.66	0.24
344830	0.1	4.17	172	5.85	689	136	10.1	0.29
344831	<0.1	2.71	82	7.63	611	169	8.72	0.15
344832	0.2	2.47	60	6.48	736	238	8.88	0.12
344833	0.2	3.25	68	5.98	763	202	10.1	0.14
344834	0.1	3.12	74	5.64	889	226	10.4	0.15
344835	0.1	2.80	36	5.99	909	379	10.0	0.06
*Dup 344834	0.1	3.07	72	5.50	791	224	10.2	0.15
344836	0.3	6.44	509	4.83	169	126	11.0	0.66
344837	0.1	3.39	30	7.63	707	173	9.68	0.04
344838	<0.1	5.67	79	5.38	320	86.3	7.27	0.06
344839	0.1	5.67	96	6.23	324	94.4	7.02	0.08
344840	<0.1	5.46	70	6.66	332	102	7.50	0.09
344841	<0.1	6.02	68	7.82	333	77.1	7.36	0.13

Element	@Ag	@Al	@Ba	@Ca	@Cr	@Cu	@Fe	@K
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.1	0.01	1	0.01	1	0.5	0.01	0.01
Units	ppm	%	ppm	%	ppm	ppm	%	%
344842	<0.1	9.12	587	4.18	20	63.2	5.13	0.83
344843	<0.1	6.38	1016	6.98	272	84.8	6.88	1.59
344844	<0.1	7.08	481	5.06	117	60.3	5.60	0.56
344845	<0.1	7.21	436	6.60	216	67.2	7.13	0.50
344846	<0.1	6.11	152	8.88	189	91.8	6.59	0.18
344847	<0.1	6.98	8	7.70	267	131	7.19	0.02
344848	<0.1	9.96	641	4.61	25	25.1	6.35	1.95
344849	<0.1	5.55	7	8.03	297	58.4	7.26	0.01
344850	<0.1	5.51	175	7.57	384	124	7.92	0.53
344851	0.1	8.21	117	7.19	219	121	8.13	0.50
344852	<0.1	7.92	289	1.69	16	10.1	3.75	0.72
344853	<0.1	8.03	314	2.16	10	25.3	3.64	0.79
344854	<0.1	8.29	184	1.99	14	7.6	3.42	0.43
344855	<0.1	7.66	229	1.77	13	8.0	2.85	0.50
344856	<0.1	7.56	242	1.85	16	3.5	3.65	0.54
344857	0.3	2.10	28	>15.0	2	434	5.94	0.23
344858	<0.1	8.43	751	2.73	13	16.8	4.54	2.12
344859	<0.1	8.48	1009	2.38	4	3.3	3.55	2.41
344860	0.7	8.35	1037	2.75	62	2735	4.82	3.46
344861	<0.1	8.24	1374	1.85	8	13.3	3.93	2.84
344862	<0.1	8.38	336	2.22	9	2.8	3.46	0.61
344863	<0.1	8.32	96	2.28	16	5.2	2.92	0.24
344864	<0.1	7.31	172	2.50	4	4.1	2.98	0.73
344865	<0.1	8.67	374	1.89	7	2.2	3.77	1.81
344866	0.1	7.84	553	5.48	4	191	7.78	2.60
344867	0.2	8.09	782	0.54	9	255	6.32	3.24
344868	0.7	8.04	651	1.76	7	309	6.49	2.70
344869	<0.1	8.50	945	2.05	7	1.7	4.00	3.47
344870	<0.1	8.81	957	0.96	7	2.2	4.92	2.96
*Dup 344868	0.6	8.21	646	1.74	7	340	6.60	2.69
344871	<0.1	8.30	227	2.74	7	7.5	2.83	0.63
344872	<0.1	10.5	741	4.67	17	32.2	6.31	2.06
344873	0.1	7.89	20	6.30	7	78.6	7.16	0.07
344874	<0.1	8.42	95	2.39	11	23.3	2.80	0.43
344875	<0.1	7.49	171	2.49	9	15.4	2.75	1.17
344876	<0.1	7.01	99	3.00	4	21.1	3.37	0.62
344877	<0.1	8.77	270	3.01	7	42.3	3.19	2.30
344878	<0.1	8.86	419	2.71	5	1.5	2.65	3.62
344879	<0.1	6.34	219	6.19	4	3.0	4.55	1.98
344880	0.4	7.75	311	4.87	5	79.3	4.68	2.60

Final : SU1600110B Order: Mining & Exploration - GO_ICM40B 'B'

Report File No.: 0000006502

Element	@Ag	@Al	@Ba	@Ca	@Cr	@Cu	@Fe	@K
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.1	0.01	1	0.01	1	0.5	0.01	0.01
Units	ppm	%	ppm	%	ppm	ppm	%	%
344881	0.2	7.88	355	4.86	3	92.1	4.31	2.81
344882	<0.1	8.07	135	2.44	7	15.9	2.66	0.73
344883	<0.1	7.76	180	3.30	8	11.6	2.91	1.12
344884	0.3	7.23	248	5.25	157	69.8	8.46	0.69
344885	<0.1	7.81	295	1.74	4	5.7	2.66	2.05
344886	<0.1	7.39	129	2.74	9	39.9	2.84	0.83
*Rep 344842	<0.1	8.65	581	4.08	18	63.7	5.03	0.82
*Rep 344883	<0.1	7.75	177	3.26	9	11.9	2.88	1.10
*Rep 344886	<0.1	7.67	133	2.84	12	40.9	2.89	0.83
*Std OREAS-901	0.4	7.29	248	0.10	34	1463	3.88	3.97
*Std OREAS-903	0.4	5.48	189	0.56	78	6080	3.73	3.35
*Std OREAS-905	0.5	7.49	2755	0.57	N.A.	1496	3.94	3.03
*Std OREAS-925	2.5	7.53	420	0.44	69	6353	7.14	2.63
*Std OREAS-901	0.4	6.51	227	0.08	41	1351	3.65	3.69
*Blk BLANK	<0.1	<0.01	<1	<0.01	<1	<0.5	<0.01	<0.01
*Blk BLANK	<0.1	<0.01	<1	<0.01	1	<0.5	<0.01	<0.01
*Blk BLANK	<0.1	<0.01	<1	<0.01	<1	<0.5	<0.01	<0.01
*Blk BLANK	<0.1	<0.01	<1	<0.01	<1	<0.5	<0.01	<0.01

Element	@Li	@Mg	@Mn	@Na	@Ni	@P	@S	@Sr
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	1	0.01	2	0.01	0.5	0.005	0.01	0.5
Units	ppm	%	ppm	%	ppm	%	%	ppm
344803	9	0.54	256	3.60	7.2	0.041	0.04	102
344804	9	0.63	156	2.56	13.0	0.017	0.02	86.3
344805	7	0.33	118	3.51	2.8	0.014	0.02	108
344806	6	0.30	156	3.19	2.8	0.018	<0.01	103
344807	9	0.40	182	3.14	2.1	0.015	<0.01	114
344808	8	0.58	227	1.58	4.8	0.015	0.03	95.9
344809	9	0.62	112	3.70	4.4	0.051	0.03	193
344810	5	0.39	120	2.48	4.6	0.025	0.04	122
344811	7	0.61	265	3.86	7.0	0.038	0.03	185
344812	8	3.83	1359	2.03	127	0.134	0.74	331
344813	5	0.38	227	4.61	4.4	0.037	0.05	182
344814	63	4.54	774	1.81	132	0.141	0.23	91.0
344815	76	5.18	886	1.26	167	0.135	0.15	79.2
344816	9	0.79	168	3.94	5.2	0.033	0.15	96.9
344817	15	1.57	180	2.59	8.8	0.038	0.15	59.2
344818	13	1.12	164	4.20	8.2	0.049	0.06	94.9
344819	14	1.06	158	4.31	8.6	0.028	0.02	77.3
344820	16	7.72	1914	0.17	725	0.045	0.17	337
344821	13	8.40	1812	<0.01	680	0.052	0.09	369
344822	13	8.75	1728	0.01	721	0.051	0.08	312
344823	16	9.21	1829	<0.01	781	0.046	0.14	349
344824	22	1.76	978	2.89	16.3	0.168	0.14	578
344825	23	8.63	1801	<0.01	661	0.058	0.17	396
344826	32	9.47	1777	<0.01	816	0.046	0.47	493
344827	33	9.52	1635	<0.01	861	0.048	0.64	479
344828	27	9.54	1586	0.01	904	0.045	0.99	512
344829	28	9.24	1642	0.04	840	0.060	0.20	373
344830	27	8.53	1542	0.78	676	0.087	0.37	268
344831	17	7.77	1438	0.29	628	0.038	0.13	329
344832	18	8.65	1626	0.06	704	0.035	0.29	282
344833	22	9.07	1551	0.04	748	0.047	0.16	260
344834	19	9.27	1523	0.01	791	0.045	0.11	291
344835	13	7.99	1439	<0.01	713	0.044	0.24	347
*Dup 344834	19	9.16	1521	0.01	776	0.043	0.12	285
344836	9	3.29	3656	1.60	109	0.200	1.63	288
344837	28	7.90	1813	0.07	633	0.058	0.22	488
344838	33	5.77	1199	2.24	81.9	0.135	0.15	440
344839	31	5.27	1200	2.44	83.5	0.138	0.16	459
344840	37	5.43	1195	1.92	91.7	0.142	0.11	392
344841	41	4.60	1253	1.66	99.3	0.138	0.12	196

Element	@Li	@Mg	@Mn	@Na	@Ni	@P	@S	@Sr
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	1	0.01	2	0.01	0.5	0.005	0.01	0.5
Units	ppm	%	ppm	%	ppm	%	%	ppm
344842	31	2.64	658	4.10	9.5	0.186	0.23	147
344843	41	4.75	1265	0.37	94.8	0.089	0.02	134
344844	27	3.01	793	2.56	70.9	0.096	0.09	116
344845	39	4.59	1069	1.60	138	0.050	0.09	133
344846	34	4.46	1276	1.35	154	0.017	0.02	193
344847	34	4.75	1126	1.78	175	0.018	0.12	156
344848	21	1.75	979	2.83	16.5	0.169	0.15	560
344849	43	5.38	1058	0.48	87.9	0.126	0.07	153
344850	48	5.99	1171	0.31	94.2	0.138	0.18	130
344851	35	4.58	1299	1.69	134	0.023	0.03	235
344852	20	1.22	522	4.45	15.4	0.049	0.02	146
344853	22	1.34	565	4.05	16.4	0.044	0.02	107
344854	17	1.17	552	4.75	12.2	0.048	0.01	123
344855	15	1.11	373	4.27	11.4	0.045	<0.01	114
344856	22	1.46	429	3.59	15.1	0.041	<0.01	105
344857	17	5.23	2184	0.07	17.5	0.006	0.30	110
344858	28	1.65	565	2.15	16.4	0.053	<0.01	92.0
344859	22	1.17	496	2.56	13.0	0.053	<0.01	99.7
344860	33	1.53	564	2.05	39.1	0.110	0.35	330
344861	24	1.21	462	1.42	14.9	0.047	<0.01	80.6
344862	20	1.30	500	4.41	16.4	0.051	<0.01	154
344863	19	0.95	439	4.74	15.1	0.046	<0.01	147
344864	17	0.99	429	3.67	14.1	0.044	0.01	183
344865	29	1.44	404	2.75	13.5	0.047	<0.01	129
344866	43	2.42	997	0.07	14.8	0.048	0.51	91.9
344867	34	1.48	308	0.09	17.4	0.053	0.72	43.5
344868	45	2.07	470	0.35	14.2	0.049	0.15	54.1
344869	47	1.81	417	0.28	11.6	0.058	<0.01	67.5
344870	51	2.18	338	0.86	18.2	0.053	0.02	78.9
*Dup 344868	45	2.06	472	0.32	12.2	0.049	0.17	53.5
344871	20	1.06	507	4.51	12.7	0.061	0.24	215
344872	22	1.71	952	2.96	15.6	0.160	0.18	595
344873	51	2.87	1169	3.54	10.3	0.239	0.36	218
344874	16	0.82	378	4.71	14.1	0.048	0.01	230
344875	24	1.06	344	2.98	11.8	0.034	0.04	128
344876	13	0.75	418	3.51	12.7	0.040	0.06	141
344877	22	0.95	429	2.38	13.9	0.053	0.15	143
344878	31	1.06	387	0.57	10.6	0.050	0.01	92.0
344879	42	2.50	965	0.25	12.4	0.037	0.01	73.0
344880	37	2.45	694	0.59	14.7	0.048	0.07	103

Element	@Li	@Mg	@Mn	@Na	@Ni	@P	@S	@Sr
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	1	0.01	2	0.01	0.5	0.005	0.01	0.5
Units	ppm	%	ppm	%	ppm	%	%	ppm
344881	37	2.08	639	0.51	15.9	0.050	0.05	109
344882	17	0.80	360	4.25	9.7	0.050	0.02	147
344883	22	0.82	499	3.20	13.5	0.044	0.04	127
344884	8	3.84	1371	2.04	132	0.129	0.76	335
344885	31	0.99	309	2.12	9.1	0.038	0.02	106
344886	24	0.91	436	3.57	11.0	0.042	0.06	89.8
*Rep 344842	30	2.63	656	3.94	10.2	0.179	0.23	142
*Rep 344883	22	0.81	494	3.17	13.4	0.044	0.04	126
*Rep 344886	24	0.94	436	3.66	12.2	0.045	0.06	92.0
*Std OREAS-901	17	0.63	299	0.04	37.4	0.067	0.04	31.9
*Std OREAS-903	16	0.66	635	0.03	48.3	0.118	0.43	68.1
*Std OREAS-905	19	0.28	375	2.29	8.0	0.033	0.06	149
*Std OREAS-925	32	1.80	1002	0.28	32.2	0.087	0.97	35.8
*Std OREAS-901	15	0.58	277	0.04	34.8	0.058	0.03	28.5
*Blk BLANK	<1	<0.01	<2	<0.01	<0.5	<0.005	<0.01	<0.5
*Blk BLANK	<1	<0.01	<2	<0.01	<0.5	<0.005	<0.01	<0.5
*Blk BLANK	<1	<0.01	<2	<0.01	<0.5	<0.005	<0.01	<0.5
*Blk BLANK	<1	<0.01	<2	<0.01	<0.5	<0.005	<0.01	<0.5

Element	@Ti	@V	@Zn	@Zr	@As	@Be	@Bi	@Cd
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.01	2	1	0.5	1	0.1	0.04	0.02
Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344803	0.20	12	24	189	3	1.3	0.10	0.05
344804	0.11	3	17	293	<1	1.9	0.08	0.02
344805	0.14	3	17	301	2	1.4	0.08	<0.02
344806	0.14	4	16	285	<1	1.4	0.05	<0.02
344807	0.13	3	19	288	1	1.4	1.85	0.02
344808	0.12	4	15	270	2	1.7	0.09	<0.02
344809	0.25	24	15	242	2	2.8	0.06	<0.02
344810	0.14	15	9	178	3	1.8	<0.04	<0.02
344811	0.20	19	13	210	3	2.1	0.08	<0.02
344812	0.89	144	105	122	2401	0.9	0.20	0.14
344813	0.16	14	10	214	4	1.4	0.07	<0.02
344814	0.19	147	96	94.5	6	0.8	0.16	<0.02
344815	0.07	162	103	85.3	4	0.4	0.16	<0.02
344816	0.20	8	21	241	5	1.1	0.11	0.03
344817	0.22	11	27	244	5	2.0	0.09	<0.02
344818	0.23	14	28	228	3	1.2	0.04	<0.02
344819	0.15	7	23	236	2	1.7	0.05	<0.02
344820	0.42	135	72	80.0	15	1.0	0.08	0.18
344821	0.64	176	83	84.2	8	0.9	<0.04	0.15
344822	0.49	145	85	77.9	11	0.7	0.05	0.13
344823	0.53	183	92	76.0	8	1.0	0.14	0.13
344824	0.66	131	102	84.1	<1	2.7	<0.04	0.09
344825	0.38	209	95	87.0	6	1.3	0.09	0.15
344826	0.13	159	94	70.0	10	1.5	0.15	0.18
344827	0.13	146	103	70.0	9	1.4	0.12	0.17
344828	0.13	148	104	69.8	9	1.0	0.18	0.16
344829	0.25	144	95	83.5	4	1.4	<0.04	0.14
344830	0.45	187	87	95.1	5	1.2	0.06	0.10
344831	0.40	151	72	62.8	2	0.9	<0.04	0.14
344832	0.20	132	76	57.0	4	0.9	0.09	0.14
344833	0.26	175	88	72.6	3	1.2	0.05	0.15
344834	0.26	177	91	75.5	3	1.2	0.05	0.15
344835	0.44	164	85	74.9	8	1.0	0.15	0.12
*Dup 344834	0.27	174	88	75.0	4	1.3	0.05	0.15
344836	0.73	142	121	111	1314	0.9	0.12	0.15
344837	0.40	172	92	70.8	8	1.3	0.21	0.16
344838	0.13	183	76	87.7	3	1.4	0.09	0.10
344839	0.14	184	72	85.4	3	1.2	0.09	0.10
344840	0.16	195	79	81.0	2	1.1	0.04	0.08
344841	0.17	175	80	85.4	2	1.0	0.07	0.05

Element	@Ti	@V	@Zn	@Zr	@As	@Be	@Bi	@Cd
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.01	2	1	0.5	1	0.1	0.04	0.02
Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344842	0.38	140	33	156	5	1.7	0.21	0.07
344843	0.28	177	62	73.9	1	1.3	<0.04	0.13
344844	0.33	157	50	94.4	2	1.1	0.06	0.03
344845	0.29	184	74	54.0	2	1.2	0.07	0.04
344846	0.18	170	72	18.0	1	0.8	<0.04	0.06
344847	0.18	194	88	22.6	3	0.5	0.11	0.09
344848	0.69	132	98	86.4	<1	2.6	<0.04	0.09
344849	0.17	178	97	78.6	2	0.4	0.05	0.09
344850	0.29	202	100	79.1	5	1.1	0.05	0.07
344851	0.44	232	76	24.9	5	0.2	0.10	0.08
344852	0.36	69	43	148	<1	0.8	0.12	0.04
344853	0.33	60	37	139	<1	1.1	0.06	0.04
344854	0.35	64	30	150	<1	1.0	0.07	0.03
344855	0.34	60	23	141	<1	1.1	0.06	<0.02
344856	0.30	63	29	135	<1	1.5	0.07	0.02
344857	0.09	50	32	39.3	4	<0.1	0.18	0.16
344858	0.35	70	30	139	<1	1.3	0.06	<0.02
344859	0.34	66	24	153	1	1.2	0.06	0.02
344860	0.48	119	84	76.2	19	2.9	1.64	0.09
344861	0.34	64	26	143	1	1.4	0.04	0.02
344862	0.34	64	30	147	<1	1.0	0.04	<0.02
344863	0.36	66	29	139	2	1.1	0.12	0.03
344864	0.28	64	27	140	1	0.9	0.06	<0.02
344865	0.30	68	35	154	<1	0.9	<0.04	<0.02
344866	0.29	52	64	142	3	0.8	1.07	0.06
344867	0.31	70	47	151	18	1.1	1.31	<0.02
344868	0.27	60	56	148	6	1.1	2.25	<0.02
344869	0.28	59	43	159	<1	1.6	<0.04	<0.02
344870	0.28	73	55	161	<1	1.7	0.08	<0.02
*Dup 344868	0.27	60	54	149	7	1.2	2.24	<0.02
344871	0.32	76	29	154	2	1.2	0.42	<0.02
344872	0.67	131	97	99.2	<1	2.5	<0.04	0.10
344873	0.37	189	74	161	4	1.5	0.50	0.06
344874	0.31	64	23	152	2	1.0	0.09	0.04
344875	0.20	57	24	136	3	1.0	0.33	<0.02
344876	0.25	76	26	131	4	0.9	0.06	0.02
344877	0.30	77	30	158	12	1.1	0.10	0.12
344878	0.25	69	27	160	1	1.3	<0.04	0.07
344879	0.08	60	98	112	1	0.8	0.13	0.48
344880	0.12	63	249	138	7	0.9	0.71	0.95

Element	@Ti	@V	@Zn	@Zr	@As	@Be	@Bi	@Cd
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.01	2	1	0.5	1	0.1	0.04	0.02
Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344881	0.13	75	47	138	6	1.1	0.53	0.05
344882	0.26	57	21	144	3	0.8	0.14	0.03
344883	0.29	63	24	135	2	0.9	0.06	0.04
344884	0.92	145	106	122	2432	0.9	0.18	0.14
344885	0.20	73	26	144	2	1.2	0.18	0.02
344886	0.24	65	27	137	4	0.9	0.27	0.06
*Rep 344842	0.38	140	35	156	5	1.8	0.20	0.02
*Rep 344883	0.30	62	23	135	3	1.0	0.05	0.03
*Rep 344886	0.23	65	29	134	4	1.0	0.31	0.05
*Std OREAS-901	0.19	78	23	181	70	6.9	4.71	0.06
*Std OREAS-903	0.16	63	24	136	N.A.	N.A.	N.A.	N.A.
*Std OREAS-905	0.12	8	130	243	33	2.7	5.71	0.38
*Std OREAS-925	0.37	84	415	104	N.A.	N.A.	N.A.	N.A.
*Std OREAS-901	0.19	72	22	161	64	5.9	4.31	0.06
*Blk BLANK	<0.01	<2	<1	<0.5	N.A.	N.A.	N.A.	N.A.
*Blk BLANK	<0.01	<2	<1	<0.5	<1	<0.1	<0.04	<0.02
*Blk BLANK	<0.01	<2	<1	<0.5	<1	<0.1	<0.04	<0.02
*Blk BLANK	<0.01	<2	<1	<0.5	<1	<0.1	<0.04	<0.02
*Blk BLANK					<1	<0.1	<0.04	<0.02
*Std OREAS-903					49	4.4	8.95	0.19
*Std OREAS-925					9	2.0	28.8	0.52

Element	@Ce	@Co	@Cs	@Ga	@Hf	@In	@La	@Lu
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.1	1	0.1	0.02	0.02	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344803	48.0	6.6	<1	19.5	5.95	0.09	19.5	0.27
344804	117	4.2	<1	19.0	8.47	0.05	52.7	0.41
344805	56.6	4.4	<1	19.5	8.38	0.05	25.9	0.35
344806	78.0	3.2	<1	20.1	8.24	0.08	34.0	0.36
344807	95.9	4.7	<1	20.2	8.29	0.12	42.4	0.33
344808	77.6	5.9	<1	20.3	7.76	0.10	34.7	0.33
344809	53.7	5.2	<1	27.7	7.54	0.10	22.8	0.32
344810	21.2	3.4	<1	17.2	5.63	0.06	8.9	0.19
344811	37.4	5.3	<1	21.6	6.39	0.07	15.4	0.34
344812	31.5	39.3	<1	18.2	3.17	0.06	15.1	0.23
344813	39.7	5.6	<1	15.7	6.78	0.03	17.0	0.34
344814	81.2	47.9	<1	18.2	2.57	0.07	34.5	0.36
344815	63.9	41.1	<1	14.6	2.22	0.05	26.5	0.24
344816	23.0	10.6	<1	17.7	7.24	0.05	9.7	0.37
344817	24.9	16.7	<1	19.2	6.84	0.07	10.6	0.36
344818	13.1	10.0	<1	18.4	6.85	0.03	5.3	0.30
344819	43.5	5.9	<1	20.1	6.98	0.04	20.1	0.24
344820	30.1	80.8	<1	9.5	2.09	0.05	12.9	0.13
344821	33.2	74.9	<1	10.6	2.23	0.06	14.2	0.12
344822	32.7	79.3	<1	9.7	2.04	0.05	13.9	0.12
344823	31.4	86.8	<1	10.2	2.01	0.07	13.5	0.11
344824	77.2	21.2	1	25.6	2.40	0.08	31.0	0.53
344825	38.0	79.4	<1	12.7	2.25	0.06	16.3	0.11
344826	30.5	97.6	1	9.9	1.85	0.05	12.9	0.10
344827	30.5	98.9	<1	9.8	1.86	0.05	13.4	0.10
344828	29.8	98.4	1	9.6	1.83	0.05	12.7	0.10
344829	36.2	76.4	3	10.8	2.15	0.06	15.4	0.13
344830	42.0	81.1	3	12.1	2.60	0.06	17.5	0.14
344831	26.4	68.9	2	8.3	1.64	0.05	11.2	0.10
344832	23.3	73.1	1	7.7	1.53	0.05	10.2	0.09
344833	30.5	81.4	1	10.2	1.90	0.05	13.0	0.11
344834	31.2	82.7	1	10.1	2.02	0.05	13.4	0.11
344835	29.8	83.3	<1	9.9	1.98	0.05	12.8	0.10
*Dup 344834	29.9	84.9	1	10.3	1.94	0.05	12.8	0.11
344836	36.8	32.5	4	16.6	2.88	0.06	20.8	0.26
344837	29.4	75.9	<1	10.4	1.95	0.05	12.2	0.13
344838	33.9	38.0	<1	14.6	2.44	0.04	14.2	0.17
344839	33.9	37.8	<1	14.6	2.38	0.05	14.5	0.20
344840	33.9	43.3	<1	14.7	2.20	0.05	14.5	0.19
344841	39.3	41.1	1	15.2	2.35	0.05	16.9	0.22

Element	@Ce	@Co	@Cs	@Ga	@Hf	@In	@La	@Lu
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.1	1	0.1	0.02	0.02	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344842	75.7	30.1	<1	20.0	4.14	0.05	32.3	0.29
344843	31.1	31.9	<1	14.7	2.07	0.06	13.4	0.21
344844	44.5	28.5	<1	16.0	2.59	0.04	19.0	0.23
344845	17.4	41.5	<1	13.6	1.50	0.05	7.4	0.22
344846	5.71	40.4	<1	11.2	0.54	0.03	2.5	0.18
344847	4.67	47.5	<1	12.8	0.67	0.04	1.8	0.20
344848	73.3	21.2	1	24.6	2.51	0.08	28.9	0.54
344849	27.1	39.0	<1	14.2	2.29	0.05	11.2	0.25
344850	21.5	52.1	4	14.6	2.23	0.06	8.9	0.24
344851	5.92	47.2	1	15.3	0.81	0.06	2.1	0.26
344852	43.3	10.3	<1	18.5	4.34	0.07	19.8	0.35
344853	39.3	10.4	<1	18.8	4.04	0.06	17.9	0.32
344854	45.5	9.5	<1	20.4	4.40	0.09	20.7	0.37
344855	41.2	7.6	<1	17.9	4.15	0.07	17.6	0.39
344856	31.6	10.1	<1	17.4	3.99	0.08	12.9	0.43
344857	28.5	19.3	1	6.9	1.14	0.16	12.3	0.45
344858	34.2	10.4	<1	20.3	3.90	0.13	14.3	0.42
344859	33.5	8.8	1	20.1	4.48	0.09	14.5	0.35
344860	68.5	15.7	11	18.8	2.56	0.20	31.8	0.37
344861	32.5	10.4	1	19.6	4.18	0.08	15.1	0.30
344862	39.6	10.5	<1	20.0	4.34	0.07	17.8	0.33
344863	48.7	8.3	<1	20.1	4.10	0.07	21.4	0.37
344864	38.0	6.0	<1	17.1	4.11	0.06	17.3	0.30
344865	38.9	7.7	<1	18.6	4.48	0.07	17.0	0.25
344866	36.3	13.4	<1	19.8	4.03	0.07	16.5	0.30
344867	44.3	24.4	1	21.1	4.26	0.05	20.1	0.23
344868	39.7	18.8	<1	20.0	4.13	0.05	17.9	0.25
344869	42.8	9.0	1	19.9	4.52	0.06	18.2	0.24
344870	52.3	9.3	1	21.1	4.59	0.08	23.4	0.24
*Dup 344868	40.1	20.2	<1	20.4	4.22	0.05	18.2	0.24
344871	59.9	10.3	<1	19.1	4.41	0.04	27.8	0.28
344872	77.1	21.9	1	25.1	2.72	0.07	31.6	0.53
344873	114	31.4	<1	18.3	4.27	0.07	50.6	0.31
344874	44.2	6.5	<1	18.6	4.28	0.05	20.3	0.27
344875	38.4	7.2	<1	16.6	3.97	0.08	18.1	0.23
344876	35.0	7.7	<1	17.5	3.82	0.07	16.6	0.26
344877	39.0	9.0	<1	22.4	4.66	0.10	18.1	0.26
344878	39.2	4.7	1	21.5	4.76	0.10	18.4	0.26
344879	45.7	6.8	<1	15.3	3.00	0.08	22.5	0.25
344880	51.0	8.7	<1	18.5	4.01	0.09	24.8	0.22

Final : SU1600110B Order: Mining & Exploration - GO_ICM40B 'B'

Report File No.: 0000006502

Element	@Ce	@Co	@Cs	@Ga	@Hf	@In	@La	@Lu
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.1	1	0.1	0.02	0.02	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344881	36.9	8.4	<1	19.7	3.90	0.08	16.7	0.23
344882	36.7	5.2	<1	18.5	4.10	0.05	16.1	0.25
344883	46.6	5.8	<1	17.5	3.88	0.07	21.5	0.33
344884	31.9	39.6	<1	18.9	3.18	0.06	15.9	0.22
344885	188	5.6	<1	20.2	4.15	0.09	101	0.35
344886	36.8	6.4	<1	18.5	4.07	0.07	16.2	0.33
*Rep 344842	79.5	30.8	<1	19.6	4.10	0.05	33.7	0.28
*Rep 344883	47.0	6.2	<1	17.4	3.86	0.07	21.5	0.35
*Rep 344886	35.9	6.7	<1	18.0	3.97	0.07	16.0	0.35
*Std OREAS-901	94.8	76.5	5	19.3	5.23	0.25	44.8	0.55
*Std OREAS-903	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-905	93.8	14.8	6	25.0	6.81	0.58	43.6	0.08
*Std OREAS-925	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-901	89.7	69.8	4	17.6	4.70	0.21	42.5	0.50
*Blk BLANK	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Blk BLANK	<0.05	<0.1	<1	<0.1	<0.02	<0.02	<0.1	<0.01
*Blk BLANK	<0.05	<0.1	<1	<0.1	<0.02	<0.02	<0.1	<0.01
*Blk BLANK	<0.05	<0.1	<1	<0.1	<0.02	<0.02	<0.1	<0.01
*Blk BLANK	<0.05	<0.1	<1	<0.1	<0.02	<0.02	<0.1	<0.01
*Std OREAS-903	76.8	131	3	15.2	4.44	0.14	38.7	0.35
*Std OREAS-925	82.3	23.3	6	20.0	3.14	0.66	41.4	0.37

Final : SU1600110B Order: Mining & Exploration - GO_ICM40B 'B'

Report File No.: 0000006502

Element	@Mo	@Nb	@Pb	@Rb	@Sb	@Sc	@Se	@Sn
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.1	0.5	0.2	0.05	0.5	2	0.3
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344803	2.48	9.9	2.9	25.7	0.19	9.8	<2	5.1
344804	0.88	8.8	2.8	40.7	0.09	8.1	<2	2.8
344805	2.59	16.1	2.5	25.7	0.12	7.2	<2	3.3
344806	1.10	18.6	2.3	35.1	0.14	7.6	<2	2.8
344807	1.99	15.3	2.5	31.7	0.16	7.2	<2	2.9
344808	2.39	12.1	2.3	63.0	0.13	8.2	<2	3.7
344809	1.44	14.2	2.8	61.1	0.20	14.0	<2	7.0
344810	1.83	8.1	2.1	33.0	0.12	9.7	<2	4.7
344811	4.55	10.5	2.5	33.8	0.15	12.8	<2	4.7
344812	2.23	16.5	12.1	18.7	2.85	18.2	<2	1.6
344813	4.47	8.5	2.5	6.9	0.19	7.7	<2	1.9
344814	0.57	4.1	2.4	1.4	0.09	25.2	<2	0.9
344815	<0.05	1.7	2.3	0.5	0.06	24.0	<2	0.3
344816	4.07	10.3	2.5	18.7	0.13	8.1	<2	1.2
344817	1.26	11.7	2.2	41.5	0.08	10.0	<2	2.0
344818	3.29	11.2	2.2	9.1	0.13	8.2	<2	2.2
344819	1.86	9.3	3.7	6.8	0.17	9.4	<2	4.5
344820	0.67	2.4	2.7	0.4	0.11	17.5	<2	0.5
344821	0.38	2.1	2.5	0.4	0.08	22.5	<2	<0.3
344822	1.68	1.7	2.6	0.4	0.10	16.2	<2	<0.3
344823	0.35	2.0	2.4	0.4	0.09	22.9	<2	<0.3
344824	2.07	16.9	13.2	105	<0.05	19.9	<2	2.9
344825	0.48	2.5	3.0	0.4	0.18	22.2	<2	<0.3
344826	0.70	1.6	3.0	5.6	0.12	21.1	<2	<0.3
344827	2.80	1.9	2.7	4.8	0.17	18.6	<2	<0.3
344828	0.54	1.8	3.1	8.0	0.19	20.4	<2	<0.3
344829	0.41	2.7	2.3	18.4	0.15	18.3	<2	0.4
344830	0.37	2.4	2.5	19.1	0.18	24.5	<2	0.6
344831	0.48	3.1	2.8	10.0	0.12	18.6	<2	0.4
344832	0.94	2.1	2.8	7.9	0.15	17.0	<2	0.3
344833	0.58	2.6	3.1	8.7	0.17	23.0	<2	0.4
344834	0.79	3.6	2.2	8.8	0.31	22.4	<2	0.4
344835	1.15	4.9	2.2	4.2	0.23	21.3	<2	0.4
*Dup 344834	0.68	3.7	2.2	8.8	0.27	22.8	<2	0.4
344836	3.16	18.1	7.4	19.5	1.57	14.7	2	1.5
344837	1.14	3.8	2.8	3.3	0.22	22.4	<2	0.4
344838	0.57	0.9	3.2	2.9	0.16	22.4	<2	0.5
344839	0.36	0.9	3.1	3.5	0.19	23.2	<2	0.5
344840	2.41	0.8	4.1	3.8	0.15	24.4	<2	0.5
344841	1.10	1.1	1.8	7.7	0.10	23.7	<2	0.6

Element	@Mo	@Nb	@Pb	@Rb	@Sb	@Sc	@Se	@Sn
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.1	0.5	0.2	0.05	0.5	2	0.3
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344842	1.03	5.8	2.6	28.0	0.27	15.5	<2	1.3
344843	2.55	2.4	1.8	47.1	0.14	22.9	<2	3.0
344844	0.90	3.6	1.9	18.0	0.12	22.1	<2	0.9
344845	0.10	2.2	1.5	15.6	0.12	28.9	<2	0.6
344846	0.81	0.6	1.8	5.7	0.07	28.6	<2	0.4
344847	0.11	1.0	1.6	0.6	<0.05	32.2	<2	0.3
344848	2.70	15.7	12.9	104	<0.05	19.1	<2	2.8
344849	0.26	1.1	1.8	0.7	0.07	23.5	<2	0.6
344850	1.28	1.1	1.8	33.7	0.08	25.3	<2	1.2
344851	0.48	2.1	3.0	17.7	0.25	37.2	<2	0.6
344852	1.74	8.0	5.0	21.2	<0.05	11.5	<2	4.8
344853	2.16	7.7	4.8	25.4	0.07	10.6	<2	4.4
344854	1.27	8.3	4.0	15.2	0.08	12.0	<2	5.1
344855	2.89	8.3	2.3	17.7	0.09	11.5	<2	4.5
344856	2.30	8.1	2.4	18.0	0.08	10.9	<2	4.6
344857	2.19	3.0	3.9	16.9	0.12	3.2	<2	1.6
344858	1.95	8.1	3.4	67.0	0.16	11.5	<2	5.6
344859	0.82	8.6	3.1	75.8	0.23	11.2	<2	4.9
344860	108	18.8	24.5	192	0.88	13.0	3	5.4
344861	0.92	8.1	1.6	89.3	0.13	11.0	<2	5.1
344862	0.47	7.6	1.7	19.8	0.11	11.9	<2	4.0
344863	1.51	8.5	2.6	10.2	0.38	11.7	<2	4.0
344864	0.66	6.8	6.8	21.6	0.09	9.9	<2	3.2
344865	0.60	8.0	3.0	52.5	0.10	12.0	<2	4.3
344866	0.86	7.9	5.9	76.5	0.15	9.8	<2	6.1
344867	6.52	8.0	7.5	95.7	0.32	11.1	<2	6.3
344868	2.61	7.0	4.3	79.4	0.10	9.8	<2	4.0
344869	1.25	5.1	3.3	108	0.08	11.7	<2	5.5
344870	2.48	4.6	6.6	92.3	0.11	12.0	<2	5.6
*Dup 344868	2.45	6.7	6.1	80.4	0.10	10.0	<2	4.0
344871	5.14	7.4	2.5	19.9	0.15	13.0	<2	2.7
344872	2.63	15.6	12.9	104	<0.05	18.2	<2	2.8
344873	<0.05	4.6	3.2	3.6	0.26	20.7	<2	1.9
344874	1.90	7.1	7.7	13.1	0.20	10.5	<2	3.7
344875	1.42	3.9	2.7	33.4	0.22	9.7	<2	4.0
344876	0.93	5.0	6.7	17.7	0.21	9.6	<2	4.4
344877	0.72	7.0	3.7	64.6	0.33	12.7	<2	4.8
344878	0.40	4.5	2.6	105	0.25	12.5	<2	6.1
344879	0.70	1.1	2.6	51.3	0.17	8.9	<2	3.1
344880	1.76	1.9	75.3	68.0	0.41	10.5	<2	5.0

Element	@Mo	@Nb	@Pb	@Rb	@Sb	@Sc	@Se	@Sn
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.1	0.5	0.2	0.05	0.5	2	0.3
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344881	0.91	1.7	10.7	75.5	0.38	10.5	<2	5.8
344882	1.16	6.2	2.7	21.5	0.13	10.1	<2	2.5
344883	1.84	6.2	3.3	30.9	0.26	10.5	<2	3.2
344884	2.15	17.1	11.8	18.7	2.66	18.0	<2	1.7
344885	1.22	3.6	3.3	55.9	0.25	11.5	<2	4.6
344886	1.22	4.7	4.0	23.5	0.24	11.3	<2	3.6
*Rep 344842	0.91	5.5	2.5	27.6	0.26	15.7	<2	1.3
*Rep 344883	2.07	6.9	3.0	31.6	0.26	10.7	<2	3.8
*Rep 344886	1.12	4.8	4.3	23.6	0.25	11.0	<2	2.8
*Std OREAS-901	3.14	6.5	18.2	169	2.50	14.8	3	3.3
*Std OREAS-903	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-905	3.39	18.2	31.4	135	2.10	5.1	2	4.9
*Std OREAS-925	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-901	3.17	6.2	16.4	154	2.28	13.2	2	3.2
*Blk BLANK	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Blk BLANK	<0.05	<0.1	<0.5	<0.2	<0.05	<0.5	<2	<0.3
*Blk BLANK	<0.05	<0.1	<0.5	<0.2	<0.05	<0.5	<2	<0.3
*Blk BLANK	<0.05	<0.1	<0.5	<0.2	<0.05	<0.5	<2	<0.3
*Blk BLANK	<0.05	<0.1	<0.5	<0.2	<0.05	<0.5	<2	<0.3
*Std OREAS-903	4.02	4.6	11.0	134	1.59	10.2	5	2.6
*Std OREAS-925	0.99	13.5	110	160	1.43	12.0	8	14.4

Element	@Ta	@Tb	@Te	@Th	@Tl	@U	@W	@Y
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.05	0.05	0.2	0.02	0.05	0.1	0.1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344803	0.82	0.70	0.13	6.9	0.16	1.41	1.0	17.5
344804	0.78	0.85	<0.05	6.8	0.18	1.63	0.9	19.8
344805	1.38	0.64	0.05	6.9	0.13	1.77	0.7	17.1
344806	1.33	0.82	<0.05	6.6	0.16	1.74	0.8	19.0
344807	1.21	0.79	0.94	7.0	0.15	1.85	0.7	15.4
344808	0.80	0.76	0.06	6.4	0.28	1.65	0.7	14.8
344809	1.28	0.62	0.07	8.4	0.24	2.01	2.1	17.1
344810	0.62	0.29	<0.05	4.6	0.13	1.07	1.2	8.2
344811	0.92	0.46	<0.05	5.7	0.15	1.40	1.5	14.4
344812	1.02	0.71	0.23	2.9	0.09	0.85	1.5	19.6
344813	0.89	0.52	<0.05	7.1	0.03	1.37	1.0	16.0
344814	0.25	0.91	<0.05	5.3	<0.02	1.27	0.3	29.6
344815	0.12	0.56	<0.05	4.8	<0.02	1.07	0.1	18.1
344816	1.02	0.52	<0.05	6.6	0.07	1.75	2.9	17.3
344817	0.97	0.64	<0.05	6.7	0.04	1.83	1.4	18.8
344818	1.02	0.58	<0.05	7.4	0.04	1.56	0.6	19.3
344819	0.79	0.41	<0.05	6.3	0.03	2.62	1.2	11.3
344820	0.25	0.38	<0.05	1.4	<0.02	0.38	0.3	9.1
344821	0.27	0.37	<0.05	1.3	<0.02	0.34	0.1	7.0
344822	0.24	0.34	<0.05	1.4	<0.02	0.32	0.1	7.2
344823	0.26	0.35	<0.05	1.3	<0.02	0.26	0.2	7.0
344824	1.11	1.34	<0.05	4.1	0.44	1.37	0.4	43.9
344825	0.27	0.41	<0.05	1.6	<0.02	0.32	0.2	7.3
344826	0.18	0.34	0.06	1.3	0.05	0.24	0.2	6.2
344827	0.18	0.34	0.09	1.3	0.04	0.29	0.2	6.5
344828	0.16	0.33	0.16	1.3	0.06	0.24	0.2	6.3
344829	0.24	0.39	0.06	1.6	0.14	0.36	0.3	8.5
344830	0.25	0.42	0.06	2.2	0.14	0.55	1.0	8.9
344831	0.28	0.31	<0.05	1.0	0.07	0.22	0.2	6.7
344832	0.18	0.29	0.09	1.0	0.05	0.19	0.3	6.3
344833	0.23	0.34	<0.05	1.3	0.06	0.33	0.2	7.4
344834	0.32	0.35	<0.05	1.3	0.07	0.23	0.3	6.8
344835	0.42	0.30	<0.05	1.2	0.03	0.25	0.4	5.9
*Dup 344834	0.32	0.33	<0.05	1.3	0.06	0.24	0.2	7.0
344836	1.40	0.74	0.11	4.7	0.09	1.39	1.4	21.5
344837	0.35	0.37	<0.05	1.5	0.02	0.37	0.7	8.6
344838	0.08	0.43	<0.05	2.8	0.02	0.96	0.4	10.9
344839	0.09	0.44	0.05	2.8	0.22	0.96	0.4	12.3
344840	0.07	0.48	<0.05	2.6	0.09	0.85	0.4	13.3
344841	0.09	0.56	<0.05	2.8	0.07	0.96	0.4	17.2

Element	@Ta	@Tb	@Te	@Th	@Tl	@U	@W	@Y
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.05	0.05	0.2	0.02	0.05	0.1	0.1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344842	0.50	0.70	<0.05	5.0	0.13	1.43	0.8	21.7
344843	0.21	0.46	<0.05	2.3	0.17	0.77	1.1	14.4
344844	0.27	0.54	<0.05	2.6	0.08	0.78	0.6	17.1
344845	0.21	0.40	<0.05	1.1	0.05	0.37	0.5	14.9
344846	0.06	0.27	<0.05	<0.2	0.03	0.06	0.3	11.1
344847	0.13	0.27	0.05	<0.2	<0.02	0.09	0.3	10.6
344848	1.05	1.31	<0.05	3.9	0.47	1.42	0.3	43.6
344849	0.10	0.51	<0.05	2.7	<0.02	0.93	0.2	17.3
344850	0.10	0.47	<0.05	2.6	0.25	0.93	0.3	17.3
344851	0.20	0.40	<0.05	0.2	0.14	0.06	0.2	16.3
344852	0.78	0.67	<0.05	4.1	0.09	1.26	0.9	23.6
344853	0.78	0.55	<0.05	3.9	0.10	1.18	1.2	20.0
344854	0.87	0.71	<0.05	4.6	0.06	1.33	1.0	23.9
344855	0.80	0.71	<0.05	4.1	0.07	1.22	1.1	27.4
344856	0.82	0.73	<0.05	3.9	0.06	1.37	1.2	27.9
344857	0.22	0.70	0.06	1.0	0.09	0.39	0.4	28.0
344858	0.84	0.62	<0.05	4.0	0.23	1.19	2.2	25.9
344859	0.90	0.52	<0.05	4.9	0.24	1.18	1.9	18.9
344860	1.66	0.78	0.08	19.3	0.96	5.29	3.6	25.9
344861	0.85	0.53	<0.05	4.1	0.29	1.07	2.0	18.4
344862	0.80	0.65	<0.05	4.3	0.08	1.14	0.7	21.8
344863	0.83	0.74	<0.05	4.3	0.04	1.17	1.1	26.1
344864	0.68	0.63	<0.05	4.6	0.08	1.10	1.1	17.9
344865	0.80	0.61	<0.05	4.8	0.17	1.23	2.5	15.6
344866	0.82	0.54	0.10	3.9	0.25	1.02	3.8	17.4
344867	0.78	0.48	0.13	4.3	0.32	2.19	4.8	13.0
344868	0.68	0.52	0.93	4.5	0.28	1.33	3.5	13.9
344869	0.48	0.53	<0.05	4.6	0.37	1.30	4.2	12.6
344870	0.44	0.57	<0.05	4.5	0.33	1.26	3.5	12.1
*Dup 344868	0.68	0.54	0.90	4.4	0.28	1.36	3.5	13.7
344871	0.72	0.68	<0.05	4.2	0.08	1.13	1.3	16.4
344872	1.04	1.31	<0.05	4.1	0.47	1.44	0.4	42.4
344873	0.29	1.01	<0.05	7.2	0.03	1.87	0.6	26.2
344874	0.79	0.61	0.10	4.3	0.29	1.11	0.9	16.9
344875	0.43	0.54	<0.05	3.4	0.19	0.97	0.9	12.8
344876	0.57	0.49	<0.05	3.9	0.10	1.09	0.6	13.4
344877	0.81	0.54	<0.05	4.6	0.26	1.35	1.1	14.9
344878	0.50	0.54	<0.05	4.3	0.38	1.39	1.3	13.5
344879	0.11	0.68	<0.05	3.0	0.20	0.94	0.9	18.0
344880	0.20	0.63	<0.05	3.9	0.25	1.37	1.7	14.9

Element	@Ta	@Tb	@Te	@Th	@Tl	@U	@W	@Y
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.05	0.05	0.2	0.02	0.05	0.1	0.1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344881	0.17	0.50	<0.05	3.8	0.27	1.18	1.7	14.9
344882	0.63	0.47	<0.05	3.5	0.08	1.14	1.1	13.9
344883	0.64	0.67	<0.05	3.8	0.13	1.05	1.3	22.2
344884	1.10	0.70	0.24	2.9	0.09	0.84	1.3	20.4
344885	0.38	0.86	<0.05	3.6	0.22	2.36	2.2	24.3
344886	0.50	0.62	<0.05	4.2	0.10	1.18	1.4	21.3
*Rep 344842	0.46	0.69	<0.05	5.0	0.11	1.39	0.8	21.6
*Rep 344883	0.68	0.69	<0.05	4.1	0.13	1.10	1.3	22.1
*Rep 344886	0.52	0.61	<0.05	4.1	0.09	1.15	1.4	20.7
*Std OREAS-901	0.65	1.12	0.08	16.6	0.82	11.0	2.7	39.3
*Std OREAS-903	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-905	1.60	0.75	0.06	14.5	0.73	5.03	3.1	15.9
*Std OREAS-925	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-901	0.62	1.08	0.06	14.9	0.75	9.90	2.6	35.8
*Blk BLANK	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	0.02	<0.05	<0.1	<0.1
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05	0.1	<0.1
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05	0.1	<0.1
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05	<0.1	<0.1
*Std OREAS-903	0.43	0.77	<0.05	13.2	0.58	7.67	1.6	21.5
*Std OREAS-925	1.15	0.78	<0.05	16.3	0.81	2.99	6.7	23.1

Element	@Yb
Method	GE_ICM40B
Det.Lim.	0.1
Units	ppm
344803	1.9
344804	2.6
344805	2.3
344806	2.5
344807	2.1
344808	2.0
344809	2.1
344810	1.2
344811	2.1
344812	1.6
344813	2.0
344814	2.4
344815	1.5
344816	2.3
344817	2.3
344818	2.2
344819	1.4
344820	0.9
344821	0.8
344822	0.8
344823	0.7
344824	3.7
344825	0.8
344826	0.7
344827	0.7
344828	0.7
344829	0.9
344830	0.9
344831	0.7
344832	0.6
344833	0.8
344834	0.7
344835	0.6
*Dup 344834	0.7
344836	1.8
344837	0.8
344838	1.1
344839	1.2
344840	1.2
344841	1.5

Element	@Yb
Method	GE_ICM40B
Det.Lim.	0.1
Units	ppm
344842	1.9
344843	1.4
344844	1.6
344845	1.5
344846	1.2
344847	1.2
344848	3.7
344849	1.6
344850	1.6
344851	1.7
344852	2.4
344853	2.1
344854	2.5
344855	2.7
344856	2.8
344857	2.9
344858	2.9
344859	2.3
344860	2.6
344861	1.9
344862	2.2
344863	2.5
344864	1.9
344865	1.5
344866	1.9
344867	1.4
344868	1.5
344869	1.8
344870	1.4
*Dup 344868	1.5
344871	1.8
344872	3.8
344873	2.1
344874	1.7
344875	1.4
344876	1.5
344877	1.6
344878	1.5
344879	1.6
344880	1.4

Final : SU1600110B Order: Mining & Exploration - GO_ICM40B 'B'

Report File No.: 0000006502

Element Method Det.Lim. Units	@Yb GE_ICM40B 0.1 ppm
344881	1.5
344882	1.7
344883	2.2
344884	1.7
344885	2.3
344886	2.2
*Rep 344842	1.8
*Rep 344883	2.4
*Rep 344886	2.1
*Std OREAS-901	3.5
*Std OREAS-903	N.A.
*Std OREAS-905	0.6
*Std OREAS-925	N.A.
*Std OREAS-901	3.3
*Blk BLANK	N.A.
*Blk BLANK	<0.1
*Blk BLANK	<0.1
*Blk BLANK	<0.1
*Blk BLANK	<0.1
*Std OREAS-903	2.3
*Std OREAS-925	2.4

Certificate of Analysis

Work Order : SU1600110B

[Report File No.: 0000006501]

To: **Alan Smith** Date: Mar 14, 2016
TRELAWNEY MINING AND EXPLORATION INC
3 MESOMIKENDA LAKE ROAD BOX 100
GOGAMA ON P0M 1W0

P.O. No.	:	Mining & Exploration - GO_ICM40B 'B'
Project No.	:	CKE_PROJECT_234
No. Of Samples	:	84
Date Submitted	:	Feb 17, 2016
Report Comprises	:	Pages 1 to 22 (Inclusive of Cover Sheet)

Distribution of unused material:
To Be Determined:

Certified By :
Debbie Waldon
Project Coordinator

SGS Minerals Services (Lakefield) is accredited by Standards Council of Canada (SCC) and conforms to the requirements of ISO/IEC 17025 for specific tests as indicated on the scope of accreditation to be found at http://www.scc.ca/en/programs/lab/mineral.shtml

Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	--	= No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted

Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

Final : SU1600110B Order: Mining & Exploration - GO_ICM40B 'B'

Report File No.: 0000006501

Element	@Ag	@Al	@Ba	@Ca	@Cr	@Cu	@Fe	@K
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.1	0.01	1	0.01	1	0.5	0.01	0.01
Units	ppm	%	ppm	%	ppm	ppm	%	%
344803	<0.1	7.59	192	1.64	27	127	2.89	0.84
344804	<0.1	7.05	138	1.15	7	34.0	1.77	1.34
344805	<0.1	7.00	110	1.07	21	11.3	1.51	0.80
344806	<0.1	7.13	152	1.49	9	6.7	1.57	1.06
344807	<0.1	6.90	127	1.62	26	9.0	2.23	0.94
344808	<0.1	6.52	234	1.78	9	29.7	2.12	1.89
344809	<0.1	9.09	1125	0.63	13	5.0	2.20	1.78
344810	<0.1	5.62	671	0.27	15	4.4	1.81	0.90
344811	<0.1	7.67	733	2.24	18	5.8	2.33	0.96
344812	0.3	7.58	246	5.39	184	71.2	8.12	0.68
344813	<0.1	7.14	125	2.09	8	10.9	1.94	0.21
344814	<0.1	6.85	28	6.74	352	10.7	7.36	0.04
344815	<0.1	6.40	10	8.34	441	6.4	6.89	0.01
344816	<0.1	7.31	161	0.80	26	13.7	2.48	0.62
344817	<0.1	7.45	284	0.37	16	7.4	3.11	1.30
344818	<0.1	7.40	82	0.50	19	4.6	2.89	0.30
344819	<0.1	7.25	234	0.39	12	9.3	2.51	0.22
344820	<0.1	3.29	7	8.08	742	169	9.59	<0.01
344821	0.1	3.31	4	6.99	729	281	9.82	<0.01
344822	<0.1	3.23	4	5.78	747	191	9.97	<0.01
344823	0.1	3.14	7	5.98	772	203	10.4	<0.01
344824	<0.1	10.1	707	4.71	26	24.1	6.23	1.98
344825	0.1	3.90	9	5.83	674	250	11.2	<0.01
344826	0.1	3.07	100	6.75	881	173	10.4	0.07
344827	0.1	3.18	110	6.09	864	196	10.3	0.06
344828	0.2	3.13	131	6.51	945	184	10.1	0.09
344829	<0.1	3.52	172	6.03	872	148	9.66	0.24
344830	0.1	4.17	172	5.85	689	136	10.1	0.29
344831	<0.1	2.71	82	7.63	611	169	8.72	0.15
344832	0.2	2.47	60	6.48	736	238	8.88	0.12
344833	0.2	3.25	68	5.98	763	202	10.1	0.14
344834	0.1	3.12	74	5.64	889	226	10.4	0.15
344835	0.1	2.80	36	5.99	909	379	10.0	0.06
*Dup 344834	0.1	3.07	72	5.50	791	224	10.2	0.15
344836	0.3	6.44	509	4.83	169	126	11.0	0.66
344837	0.1	3.39	30	7.63	707	173	9.68	0.04
344838	<0.1	5.67	79	5.38	320	86.3	7.27	0.06
344839	0.1	5.67	96	6.23	324	94.4	7.02	0.08
344840	<0.1	5.46	70	6.66	332	102	7.50	0.09
344841	<0.1	6.02	68	7.82	333	77.1	7.36	0.13

Final : SU1600110B Order: Mining & Exploration - GO_ICM40B 'B'

Report File No.: 0000006501

Element	@Ag	@Al	@Ba	@Ca	@Cr	@Cu	@Fe	@K
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.1	0.01	1	0.01	1	0.5	0.01	0.01
Units	ppm	%	ppm	%	ppm	ppm	%	%
344842	<0.1	9.12	587	4.18	20	63.2	5.13	0.83
344843	<0.1	6.38	1016	6.98	272	84.8	6.88	1.59
344844	<0.1	7.08	481	5.06	117	60.3	5.60	0.56
344845	<0.1	7.21	436	6.60	216	67.2	7.13	0.50
344846	<0.1	6.11	152	8.88	189	91.8	6.59	0.18
344847	<0.1	6.98	8	7.70	267	131	7.19	0.02
344848	<0.1	9.96	641	4.61	25	25.1	6.35	1.95
344849	<0.1	5.55	7	8.03	297	58.4	7.26	0.01
344850	<0.1	5.51	175	7.57	384	124	7.92	0.53
344851	0.1	8.21	117	7.19	219	121	8.13	0.50
344852	<0.1	7.92	289	1.69	16	10.1	3.75	0.72
344853	<0.1	8.03	314	2.16	10	25.3	3.64	0.79
344854	<0.1	8.29	184	1.99	14	7.6	3.42	0.43
344855	<0.1	7.66	229	1.77	13	8.0	2.85	0.50
344856	<0.1	7.56	242	1.85	16	3.5	3.65	0.54
344857	0.3	2.10	28	>15.0	2	434	5.94	0.23
344858	<0.1	8.43	751	2.73	13	16.8	4.54	2.12
344859	<0.1	8.48	1009	2.38	4	3.3	3.55	2.41
344860	0.7	8.35	1037	2.75	62	2735	4.82	3.46
344861	<0.1	8.24	1374	1.85	8	13.3	3.93	2.84
344862	<0.1	8.38	336	2.22	9	2.8	3.46	0.61
344863	<0.1	8.32	96	2.28	16	5.2	2.92	0.24
344864	<0.1	7.31	172	2.50	4	4.1	2.98	0.73
344865	<0.1	8.67	374	1.89	7	2.2	3.77	1.81
344866	0.1	7.84	553	5.48	4	191	7.78	2.60
344867	0.2	8.09	782	0.54	9	255	6.32	3.24
344868	0.7	8.04	651	1.76	7	309	6.49	2.70
344869	<0.1	8.50	945	2.05	7	1.7	4.00	3.47
344870	<0.1	8.81	957	0.96	7	2.2	4.92	2.96
*Dup 344868	0.6	8.21	646	1.74	7	340	6.60	2.69
344871	<0.1	8.30	227	2.74	7	7.5	2.83	0.63
344872	<0.1	10.5	741	4.67	17	32.2	6.31	2.06
344873	0.1	7.89	20	6.30	7	78.6	7.16	0.07
344874	<0.1	8.42	95	2.39	11	23.3	2.80	0.43
344875	<0.1	7.49	171	2.49	9	15.4	2.75	1.17
344876	<0.1	7.01	99	3.00	4	21.1	3.37	0.62
344877	<0.1	8.77	270	3.01	7	42.3	3.19	2.30
344878	<0.1	8.86	419	2.71	5	1.5	2.65	3.62
344879	<0.1	6.34	219	6.19	4	3.0	4.55	1.98
344880	0.4	7.75	311	4.87	5	79.3	4.68	2.60

Final : SU1600110B Order: Mining & Exploration - GO_ICM40B 'B'

Report File No.: 0000006501

Element	@Ag	@Al	@Ba	@Ca	@Cr	@Cu	@Fe	@K
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.1	0.01	1	0.01	1	0.5	0.01	0.01
Units	ppm	%	ppm	%	ppm	ppm	%	%
344881	0.2	7.88	355	4.86	3	92.1	4.31	2.81
344882	<0.1	8.07	135	2.44	7	15.9	2.66	0.73
344883	<0.1	7.76	180	3.30	8	11.6	2.91	1.12
344884	0.3	7.23	248	5.25	157	69.8	8.46	0.69
344885	<0.1	7.81	295	1.74	4	5.7	2.66	2.05
344886	<0.1	7.39	129	2.74	9	39.9	2.84	0.83
*Rep 344842	<0.1	8.65	581	4.08	18	63.7	5.03	0.82
*Rep 344883	<0.1	7.75	177	3.26	9	11.9	2.88	1.10
*Rep 344886	<0.1	7.67	133	2.84	12	40.9	2.89	0.83
*Std OREAS-901	0.4	7.29	248	0.10	34	1463	3.88	3.97
*Std OREAS-903	0.4	5.48	189	0.56	78	6080	3.73	3.35
*Std OREAS-905	0.5	7.49	2755	0.57	N.A.	1496	3.94	3.03
*Std OREAS-925	2.5	7.53	420	0.44	69	6353	7.14	2.63
*Std OREAS-901	0.4	6.51	227	0.08	41	1351	3.65	3.69
*Blk BLANK	<0.1	<0.01	<1	<0.01	<1	<0.5	<0.01	<0.01
*Blk BLANK	<0.1	<0.01	<1	<0.01	1	<0.5	<0.01	<0.01
*Blk BLANK	<0.1	<0.01	<1	<0.01	<1	<0.5	<0.01	<0.01
*Blk BLANK	<0.1	<0.01	<1	<0.01	<1	<0.5	<0.01	<0.01

Element	@Li	@Mg	@Mn	@Na	@Ni	@P	@S	@Sr
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	1	0.01	2	0.01	0.5	0.005	0.01	0.5
Units	ppm	%	ppm	%	ppm	%	%	ppm
344803	9	0.54	256	3.60	7.2	0.041	0.04	102
344804	9	0.63	156	2.56	13.0	0.017	0.02	86.3
344805	7	0.33	118	3.51	2.8	0.014	0.02	108
344806	6	0.30	156	3.19	2.8	0.018	<0.01	103
344807	9	0.40	182	3.14	2.1	0.015	<0.01	114
344808	8	0.58	227	1.58	4.8	0.015	0.03	95.9
344809	9	0.62	112	3.70	4.4	0.051	0.03	193
344810	5	0.39	120	2.48	4.6	0.025	0.04	122
344811	7	0.61	265	3.86	7.0	0.038	0.03	185
344812	8	3.83	1359	2.03	127	0.134	0.74	331
344813	5	0.38	227	4.61	4.4	0.037	0.05	182
344814	63	4.54	774	1.81	132	0.141	0.23	91.0
344815	76	5.18	886	1.26	167	0.135	0.15	79.2
344816	9	0.79	168	3.94	5.2	0.033	0.15	96.9
344817	15	1.57	180	2.59	8.8	0.038	0.15	59.2
344818	13	1.12	164	4.20	8.2	0.049	0.06	94.9
344819	14	1.06	158	4.31	8.6	0.028	0.02	77.3
344820	16	7.72	1914	0.17	725	0.045	0.17	337
344821	13	8.40	1812	<0.01	680	0.052	0.09	369
344822	13	8.75	1728	0.01	721	0.051	0.08	312
344823	16	9.21	1829	<0.01	781	0.046	0.14	349
344824	22	1.76	978	2.89	16.3	0.168	0.14	578
344825	23	8.63	1801	<0.01	661	0.058	0.17	396
344826	32	9.47	1777	<0.01	816	0.046	0.47	493
344827	33	9.52	1635	<0.01	861	0.048	0.64	479
344828	27	9.54	1586	0.01	904	0.045	0.99	512
344829	28	9.24	1642	0.04	840	0.060	0.20	373
344830	27	8.53	1542	0.78	676	0.087	0.37	268
344831	17	7.77	1438	0.29	628	0.038	0.13	329
344832	18	8.65	1626	0.06	704	0.035	0.29	282
344833	22	9.07	1551	0.04	748	0.047	0.16	260
344834	19	9.27	1523	0.01	791	0.045	0.11	291
344835	13	7.99	1439	<0.01	713	0.044	0.24	347
*Dup 344834	19	9.16	1521	0.01	776	0.043	0.12	285
344836	9	3.29	3656	1.60	109	0.200	1.63	288
344837	28	7.90	1813	0.07	633	0.058	0.22	488
344838	33	5.77	1199	2.24	81.9	0.135	0.15	440
344839	31	5.27	1200	2.44	83.5	0.138	0.16	459
344840	37	5.43	1195	1.92	91.7	0.142	0.11	392
344841	41	4.60	1253	1.66	99.3	0.138	0.12	196

Element	@Li	@Mg	@Mn	@Na	@Ni	@P	@S	@Sr
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	1	0.01	2	0.01	0.5	0.005	0.01	0.5
Units	ppm	%	ppm	%	ppm	%	%	ppm
344842	31	2.64	658	4.10	9.5	0.186	0.23	147
344843	41	4.75	1265	0.37	94.8	0.089	0.02	134
344844	27	3.01	793	2.56	70.9	0.096	0.09	116
344845	39	4.59	1069	1.60	138	0.050	0.09	133
344846	34	4.46	1276	1.35	154	0.017	0.02	193
344847	34	4.75	1126	1.78	175	0.018	0.12	156
344848	21	1.75	979	2.83	16.5	0.169	0.15	560
344849	43	5.38	1058	0.48	87.9	0.126	0.07	153
344850	48	5.99	1171	0.31	94.2	0.138	0.18	130
344851	35	4.58	1299	1.69	134	0.023	0.03	235
344852	20	1.22	522	4.45	15.4	0.049	0.02	146
344853	22	1.34	565	4.05	16.4	0.044	0.02	107
344854	17	1.17	552	4.75	12.2	0.048	0.01	123
344855	15	1.11	373	4.27	11.4	0.045	<0.01	114
344856	22	1.46	429	3.59	15.1	0.041	<0.01	105
344857	17	5.23	2184	0.07	17.5	0.006	0.30	110
344858	28	1.65	565	2.15	16.4	0.053	<0.01	92.0
344859	22	1.17	496	2.56	13.0	0.053	<0.01	99.7
344860	33	1.53	564	2.05	39.1	0.110	0.35	330
344861	24	1.21	462	1.42	14.9	0.047	<0.01	80.6
344862	20	1.30	500	4.41	16.4	0.051	<0.01	154
344863	19	0.95	439	4.74	15.1	0.046	<0.01	147
344864	17	0.99	429	3.67	14.1	0.044	0.01	183
344865	29	1.44	404	2.75	13.5	0.047	<0.01	129
344866	43	2.42	997	0.07	14.8	0.048	0.51	91.9
344867	34	1.48	308	0.09	17.4	0.053	0.72	43.5
344868	45	2.07	470	0.35	14.2	0.049	0.15	54.1
344869	47	1.81	417	0.28	11.6	0.058	<0.01	67.5
344870	51	2.18	338	0.86	18.2	0.053	0.02	78.9
*Dup 344868	45	2.06	472	0.32	12.2	0.049	0.17	53.5
344871	20	1.06	507	4.51	12.7	0.061	0.24	215
344872	22	1.71	952	2.96	15.6	0.160	0.18	595
344873	51	2.87	1169	3.54	10.3	0.239	0.36	218
344874	16	0.82	378	4.71	14.1	0.048	0.01	230
344875	24	1.06	344	2.98	11.8	0.034	0.04	128
344876	13	0.75	418	3.51	12.7	0.040	0.06	141
344877	22	0.95	429	2.38	13.9	0.053	0.15	143
344878	31	1.06	387	0.57	10.6	0.050	0.01	92.0
344879	42	2.50	965	0.25	12.4	0.037	0.01	73.0
344880	37	2.45	694	0.59	14.7	0.048	0.07	103

Final : SU1600110B Order: Mining & Exploration - GO_ICM40B 'B'

Report File No.: 0000006501

Element	@Li	@Mg	@Mn	@Na	@Ni	@P	@S	@Sr
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	1	0.01	2	0.01	0.5	0.005	0.01	0.5
Units	ppm	%	ppm	%	ppm	%	%	ppm
344881	37	2.08	639	0.51	15.9	0.050	0.05	109
344882	17	0.80	360	4.25	9.7	0.050	0.02	147
344883	22	0.82	499	3.20	13.5	0.044	0.04	127
344884	8	3.84	1371	2.04	132	0.129	0.76	335
344885	31	0.99	309	2.12	9.1	0.038	0.02	106
344886	24	0.91	436	3.57	11.0	0.042	0.06	89.8
*Rep 344842	30	2.63	656	3.94	10.2	0.179	0.23	142
*Rep 344883	22	0.81	494	3.17	13.4	0.044	0.04	126
*Rep 344886	24	0.94	436	3.66	12.2	0.045	0.06	92.0
*Std OREAS-901	17	0.63	299	0.04	37.4	0.067	0.04	31.9
*Std OREAS-903	16	0.66	635	0.03	48.3	0.118	0.43	68.1
*Std OREAS-905	19	0.28	375	2.29	8.0	0.033	0.06	149
*Std OREAS-925	32	1.80	1002	0.28	32.2	0.087	0.97	35.8
*Std OREAS-901	15	0.58	277	0.04	34.8	0.058	0.03	28.5
*Blk BLANK	<1	<0.01	<2	<0.01	<0.5	<0.005	<0.01	<0.5
*Blk BLANK	<1	<0.01	<2	<0.01	<0.5	<0.005	<0.01	<0.5
*Blk BLANK	<1	<0.01	<2	<0.01	<0.5	<0.005	<0.01	<0.5
*Blk BLANK	<1	<0.01	<2	<0.01	<0.5	<0.005	<0.01	<0.5

Element	@Ti	@V	@Zn	@Zr	@As	@Be	@Bi	@Cd
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.01	2	1	0.5	1	0.1	0.04	0.02
Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344803	0.20	12	24	189	3	1.3	0.10	0.05
344804	0.11	3	17	293	<1	1.9	0.08	0.02
344805	0.14	3	17	301	2	1.4	0.08	<0.02
344806	0.14	4	16	285	<1	1.4	0.05	<0.02
344807	0.13	3	19	288	1	1.4	1.85	0.02
344808	0.12	4	15	270	2	1.7	0.09	<0.02
344809	0.25	24	15	242	2	2.8	0.06	<0.02
344810	0.14	15	9	178	3	1.8	<0.04	<0.02
344811	0.20	19	13	210	3	2.1	0.08	<0.02
344812	0.89	144	105	122	2401	0.9	0.20	0.14
344813	0.16	14	10	214	4	1.4	0.07	<0.02
344814	0.19	147	96	94.5	6	0.8	0.16	<0.02
344815	0.07	162	103	85.3	4	0.4	0.16	<0.02
344816	0.20	8	21	241	5	1.1	0.11	0.03
344817	0.22	11	27	244	5	2.0	0.09	<0.02
344818	0.23	14	28	228	3	1.2	0.04	<0.02
344819	0.15	7	23	236	2	1.7	0.05	<0.02
344820	0.42	135	72	80.0	15	1.0	0.08	0.18
344821	0.64	176	83	84.2	8	0.9	<0.04	0.15
344822	0.49	145	85	77.9	11	0.7	0.05	0.13
344823	0.53	183	92	76.0	8	1.0	0.14	0.13
344824	0.66	131	102	84.1	<1	2.7	<0.04	0.09
344825	0.38	209	95	87.0	6	1.3	0.09	0.15
344826	0.13	159	94	70.0	10	1.5	0.15	0.18
344827	0.13	146	103	70.0	9	1.4	0.12	0.17
344828	0.13	148	104	69.8	9	1.0	0.18	0.16
344829	0.25	144	95	83.5	4	1.4	<0.04	0.14
344830	0.45	187	87	95.1	5	1.2	0.06	0.10
344831	0.40	151	72	62.8	2	0.9	<0.04	0.14
344832	0.20	132	76	57.0	4	0.9	0.09	0.14
344833	0.26	175	88	72.6	3	1.2	0.05	0.15
344834	0.26	177	91	75.5	3	1.2	0.05	0.15
344835	0.44	164	85	74.9	8	1.0	0.15	0.12
*Dup 344834	0.27	174	88	75.0	4	1.3	0.05	0.15
344836	0.73	142	121	111	1314	0.9	0.12	0.15
344837	0.40	172	92	70.8	8	1.3	0.21	0.16
344838	0.13	183	76	87.7	3	1.4	0.09	0.10
344839	0.14	184	72	85.4	3	1.2	0.09	0.10
344840	0.16	195	79	81.0	2	1.1	0.04	0.08
344841	0.17	175	80	85.4	2	1.0	0.07	0.05

Element	@Ti	@V	@Zn	@Zr	@As	@Be	@Bi	@Cd
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.01	2	1	0.5	1	0.1	0.04	0.02
Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344842	0.38	140	33	156	5	1.7	0.21	0.07
344843	0.28	177	62	73.9	1	1.3	<0.04	0.13
344844	0.33	157	50	94.4	2	1.1	0.06	0.03
344845	0.29	184	74	54.0	2	1.2	0.07	0.04
344846	0.18	170	72	18.0	1	0.8	<0.04	0.06
344847	0.18	194	88	22.6	3	0.5	0.11	0.09
344848	0.69	132	98	86.4	<1	2.6	<0.04	0.09
344849	0.17	178	97	78.6	2	0.4	0.05	0.09
344850	0.29	202	100	79.1	5	1.1	0.05	0.07
344851	0.44	232	76	24.9	5	0.2	0.10	0.08
344852	0.36	69	43	148	<1	0.8	0.12	0.04
344853	0.33	60	37	139	<1	1.1	0.06	0.04
344854	0.35	64	30	150	<1	1.0	0.07	0.03
344855	0.34	60	23	141	<1	1.1	0.06	<0.02
344856	0.30	63	29	135	<1	1.5	0.07	0.02
344857	0.09	50	32	39.3	4	<0.1	0.18	0.16
344858	0.35	70	30	139	<1	1.3	0.06	<0.02
344859	0.34	66	24	153	1	1.2	0.06	0.02
344860	0.48	119	84	76.2	19	2.9	1.64	0.09
344861	0.34	64	26	143	1	1.4	0.04	0.02
344862	0.34	64	30	147	<1	1.0	0.04	<0.02
344863	0.36	66	29	139	2	1.1	0.12	0.03
344864	0.28	64	27	140	1	0.9	0.06	<0.02
344865	0.30	68	35	154	<1	0.9	<0.04	<0.02
344866	0.29	52	64	142	3	0.8	1.07	0.06
344867	0.31	70	47	151	18	1.1	1.31	<0.02
344868	0.27	60	56	148	6	1.1	2.25	<0.02
344869	0.28	59	43	159	<1	1.6	<0.04	<0.02
344870	0.28	73	55	161	<1	1.7	0.08	<0.02
*Dup 344868	0.27	60	54	149	7	1.2	2.24	<0.02
344871	0.32	76	29	154	2	1.2	0.42	<0.02
344872	0.67	131	97	99.2	<1	2.5	<0.04	0.10
344873	0.37	189	74	161	4	1.5	0.50	0.06
344874	0.31	64	23	152	2	1.0	0.09	0.04
344875	0.20	57	24	136	3	1.0	0.33	<0.02
344876	0.25	76	26	131	4	0.9	0.06	0.02
344877	0.30	77	30	158	12	1.1	0.10	0.12
344878	0.25	69	27	160	1	1.3	<0.04	0.07
344879	0.08	60	98	112	1	0.8	0.13	0.48
344880	0.12	63	249	138	7	0.9	0.71	0.95

Final : SU1600110B Order: Mining & Exploration - GO_ICM40B 'B'

Report File No.: 0000006501

Element	@Ti	@V	@Zn	@Zr	@As	@Be	@Bi	@Cd
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.01	2	1	0.5	1	0.1	0.04	0.02
Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344881	0.13	75	47	138	6	1.1	0.53	0.05
344882	0.26	57	21	144	3	0.8	0.14	0.03
344883	0.29	63	24	135	2	0.9	0.06	0.04
344884	0.92	145	106	122	2432	0.9	0.18	0.14
344885	0.20	73	26	144	2	1.2	0.18	0.02
344886	0.24	65	27	137	4	0.9	0.27	0.06
*Rep 344842	0.38	140	35	156	5	1.8	0.20	0.02
*Rep 344883	0.30	62	23	135	3	1.0	0.05	0.03
*Rep 344886	0.23	65	29	134	4	1.0	0.31	0.05
*Std OREAS-901	0.19	78	23	181	70	6.9	4.71	0.06
*Std OREAS-903	0.16	63	24	136	N.A.	N.A.	N.A.	N.A.
*Std OREAS-905	0.12	8	130	243	33	2.7	5.71	0.38
*Std OREAS-925	0.37	84	415	104	N.A.	N.A.	N.A.	N.A.
*Std OREAS-901	0.19	72	22	161	64	5.9	4.31	0.06
*Blk BLANK	<0.01	<2	<1	<0.5	N.A.	N.A.	N.A.	N.A.
*Blk BLANK	<0.01	<2	<1	<0.5	<1	<0.1	<0.04	<0.02
*Blk BLANK	<0.01	<2	<1	<0.5	<1	<0.1	<0.04	<0.02
*Blk BLANK	<0.01	<2	<1	<0.5	<1	<0.1	<0.04	<0.02
*Blk BLANK					<1	<0.1	<0.04	<0.02
*Std OREAS-903					49	4.4	8.95	0.19
*Std OREAS-925					9	2.0	28.8	0.52

Element	@Ce	@Co	@Cs	@Ga	@Hf	@In	@La	@Lu
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.1	1	0.1	0.02	0.02	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344803	48.0	6.6	<1	19.5	5.95	0.09	19.5	0.27
344804	117	4.2	<1	19.0	8.47	0.05	52.7	0.41
344805	56.6	4.4	<1	19.5	8.38	0.05	25.9	0.35
344806	78.0	3.2	<1	20.1	8.24	0.08	34.0	0.36
344807	95.9	4.7	<1	20.2	8.29	0.12	42.4	0.33
344808	77.6	5.9	<1	20.3	7.76	0.10	34.7	0.33
344809	53.7	5.2	<1	27.7	7.54	0.10	22.8	0.32
344810	21.2	3.4	<1	17.2	5.63	0.06	8.9	0.19
344811	37.4	5.3	<1	21.6	6.39	0.07	15.4	0.34
344812	31.5	39.3	<1	18.2	3.17	0.06	15.1	0.23
344813	39.7	5.6	<1	15.7	6.78	0.03	17.0	0.34
344814	81.2	47.9	<1	18.2	2.57	0.07	34.5	0.36
344815	63.9	41.1	<1	14.6	2.22	0.05	26.5	0.24
344816	23.0	10.6	<1	17.7	7.24	0.05	9.7	0.37
344817	24.9	16.7	<1	19.2	6.84	0.07	10.6	0.36
344818	13.1	10.0	<1	18.4	6.85	0.03	5.3	0.30
344819	43.5	5.9	<1	20.1	6.98	0.04	20.1	0.24
344820	30.1	80.8	<1	9.5	2.09	0.05	12.9	0.13
344821	33.2	74.9	<1	10.6	2.23	0.06	14.2	0.12
344822	32.7	79.3	<1	9.7	2.04	0.05	13.9	0.12
344823	31.4	86.8	<1	10.2	2.01	0.07	13.5	0.11
344824	77.2	21.2	1	25.6	2.40	0.08	31.0	0.53
344825	38.0	79.4	<1	12.7	2.25	0.06	16.3	0.11
344826	30.5	97.6	1	9.9	1.85	0.05	12.9	0.10
344827	30.5	98.9	<1	9.8	1.86	0.05	13.4	0.10
344828	29.8	98.4	1	9.6	1.83	0.05	12.7	0.10
344829	36.2	76.4	3	10.8	2.15	0.06	15.4	0.13
344830	42.0	81.1	3	12.1	2.60	0.06	17.5	0.14
344831	26.4	68.9	2	8.3	1.64	0.05	11.2	0.10
344832	23.3	73.1	1	7.7	1.53	0.05	10.2	0.09
344833	30.5	81.4	1	10.2	1.90	0.05	13.0	0.11
344834	31.2	82.7	1	10.1	2.02	0.05	13.4	0.11
344835	29.8	83.3	<1	9.9	1.98	0.05	12.8	0.10
*Dup 344834	29.9	84.9	1	10.3	1.94	0.05	12.8	0.11
344836	36.8	32.5	4	16.6	2.88	0.06	20.8	0.26
344837	29.4	75.9	<1	10.4	1.95	0.05	12.2	0.13
344838	33.9	38.0	<1	14.6	2.44	0.04	14.2	0.17
344839	33.9	37.8	<1	14.6	2.38	0.05	14.5	0.20
344840	33.9	43.3	<1	14.7	2.20	0.05	14.5	0.19
344841	39.3	41.1	1	15.2	2.35	0.05	16.9	0.22

Element	@Ce	@Co	@Cs	@Ga	@Hf	@In	@La	@Lu
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.1	1	0.1	0.02	0.02	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344842	75.7	30.1	<1	20.0	4.14	0.05	32.3	0.29
344843	31.1	31.9	<1	14.7	2.07	0.06	13.4	0.21
344844	44.5	28.5	<1	16.0	2.59	0.04	19.0	0.23
344845	17.4	41.5	<1	13.6	1.50	0.05	7.4	0.22
344846	5.71	40.4	<1	11.2	0.54	0.03	2.5	0.18
344847	4.67	47.5	<1	12.8	0.67	0.04	1.8	0.20
344848	73.3	21.2	1	24.6	2.51	0.08	28.9	0.54
344849	27.1	39.0	<1	14.2	2.29	0.05	11.2	0.25
344850	21.5	52.1	4	14.6	2.23	0.06	8.9	0.24
344851	5.92	47.2	1	15.3	0.81	0.06	2.1	0.26
344852	43.3	10.3	<1	18.5	4.34	0.07	19.8	0.35
344853	39.3	10.4	<1	18.8	4.04	0.06	17.9	0.32
344854	45.5	9.5	<1	20.4	4.40	0.09	20.7	0.37
344855	41.2	7.6	<1	17.9	4.15	0.07	17.6	0.39
344856	31.6	10.1	<1	17.4	3.99	0.08	12.9	0.43
344857	28.5	19.3	1	6.9	1.14	0.16	12.3	0.45
344858	34.2	10.4	<1	20.3	3.90	0.13	14.3	0.42
344859	33.5	8.8	1	20.1	4.48	0.09	14.5	0.35
344860	68.5	15.7	11	18.8	2.56	0.20	31.8	0.37
344861	32.5	10.4	1	19.6	4.18	0.08	15.1	0.30
344862	39.6	10.5	<1	20.0	4.34	0.07	17.8	0.33
344863	48.7	8.3	<1	20.1	4.10	0.07	21.4	0.37
344864	38.0	6.0	<1	17.1	4.11	0.06	17.3	0.30
344865	38.9	7.7	<1	18.6	4.48	0.07	17.0	0.25
344866	36.3	13.4	<1	19.8	4.03	0.07	16.5	0.30
344867	44.3	24.4	1	21.1	4.26	0.05	20.1	0.23
344868	39.7	18.8	<1	20.0	4.13	0.05	17.9	0.25
344869	42.8	9.0	1	19.9	4.52	0.06	18.2	0.24
344870	52.3	9.3	1	21.1	4.59	0.08	23.4	0.24
*Dup 344868	40.1	20.2	<1	20.4	4.22	0.05	18.2	0.24
344871	59.9	10.3	<1	19.1	4.41	0.04	27.8	0.28
344872	77.1	21.9	1	25.1	2.72	0.07	31.6	0.53
344873	114	31.4	<1	18.3	4.27	0.07	50.6	0.31
344874	44.2	6.5	<1	18.6	4.28	0.05	20.3	0.27
344875	38.4	7.2	<1	16.6	3.97	0.08	18.1	0.23
344876	35.0	7.7	<1	17.5	3.82	0.07	16.6	0.26
344877	39.0	9.0	<1	22.4	4.66	0.10	18.1	0.26
344878	39.2	4.7	1	21.5	4.76	0.10	18.4	0.26
344879	45.7	6.8	<1	15.3	3.00	0.08	22.5	0.25
344880	51.0	8.7	<1	18.5	4.01	0.09	24.8	0.22

Element	@Ce	@Co	@Cs	@Ga	@Hf	@In	@La	@Lu
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.1	1	0.1	0.02	0.02	0.1	0.01
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344881	36.9	8.4	<1	19.7	3.90	0.08	16.7	0.23
344882	36.7	5.2	<1	18.5	4.10	0.05	16.1	0.25
344883	46.6	5.8	<1	17.5	3.88	0.07	21.5	0.33
344884	31.9	39.6	<1	18.9	3.18	0.06	15.9	0.22
344885	188	5.6	<1	20.2	4.15	0.09	101	0.35
344886	36.8	6.4	<1	18.5	4.07	0.07	16.2	0.33
*Rep 344842	79.5	30.8	<1	19.6	4.10	0.05	33.7	0.28
*Rep 344883	47.0	6.2	<1	17.4	3.86	0.07	21.5	0.35
*Rep 344886	35.9	6.7	<1	18.0	3.97	0.07	16.0	0.35
*Std OREAS-901	94.8	76.5	5	19.3	5.23	0.25	44.8	0.55
*Std OREAS-903	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-905	93.8	14.8	6	25.0	6.81	0.58	43.6	0.08
*Std OREAS-925	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-901	89.7	69.8	4	17.6	4.70	0.21	42.5	0.50
*Blk BLANK	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Blk BLANK	<0.05	<0.1	<1	<0.1	<0.02	<0.02	<0.1	<0.01
*Blk BLANK	<0.05	<0.1	<1	<0.1	<0.02	<0.02	<0.1	<0.01
*Blk BLANK	<0.05	<0.1	<1	<0.1	<0.02	<0.02	<0.1	<0.01
*Blk BLANK	<0.05	<0.1	<1	<0.1	<0.02	<0.02	<0.1	<0.01
*Std OREAS-903	76.8	131	3	15.2	4.44	0.14	38.7	0.35
*Std OREAS-925	82.3	23.3	6	20.0	3.14	0.66	41.4	0.37

Element	@Mo	@Nb	@Pb	@Rb	@Sb	@Sc	@Se	@Sn
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.1	0.5	0.2	0.05	0.5	2	0.3
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344803	2.48	9.9	2.9	25.7	0.19	9.8	<2	5.1
344804	0.88	8.8	2.8	40.7	0.09	8.1	<2	2.8
344805	2.59	16.1	2.5	25.7	0.12	7.2	<2	3.3
344806	1.10	18.6	2.3	35.1	0.14	7.6	<2	2.8
344807	1.99	15.3	2.5	31.7	0.16	7.2	<2	2.9
344808	2.39	12.1	2.3	63.0	0.13	8.2	<2	3.7
344809	1.44	14.2	2.8	61.1	0.20	14.0	<2	7.0
344810	1.83	8.1	2.1	33.0	0.12	9.7	<2	4.7
344811	4.55	10.5	2.5	33.8	0.15	12.8	<2	4.7
344812	2.23	16.5	12.1	18.7	2.85	18.2	<2	1.6
344813	4.47	8.5	2.5	6.9	0.19	7.7	<2	1.9
344814	0.57	4.1	2.4	1.4	0.09	25.2	<2	0.9
344815	<0.05	1.7	2.3	0.5	0.06	24.0	<2	0.3
344816	4.07	10.3	2.5	18.7	0.13	8.1	<2	1.2
344817	1.26	11.7	2.2	41.5	0.08	10.0	<2	2.0
344818	3.29	11.2	2.2	9.1	0.13	8.2	<2	2.2
344819	1.86	9.3	3.7	6.8	0.17	9.4	<2	4.5
344820	0.67	2.4	2.7	0.4	0.11	17.5	<2	0.5
344821	0.38	2.1	2.5	0.4	0.08	22.5	<2	<0.3
344822	1.68	1.7	2.6	0.4	0.10	16.2	<2	<0.3
344823	0.35	2.0	2.4	0.4	0.09	22.9	<2	<0.3
344824	2.07	16.9	13.2	105	<0.05	19.9	<2	2.9
344825	0.48	2.5	3.0	0.4	0.18	22.2	<2	<0.3
344826	0.70	1.6	3.0	5.6	0.12	21.1	<2	<0.3
344827	2.80	1.9	2.7	4.8	0.17	18.6	<2	<0.3
344828	0.54	1.8	3.1	8.0	0.19	20.4	<2	<0.3
344829	0.41	2.7	2.3	18.4	0.15	18.3	<2	0.4
344830	0.37	2.4	2.5	19.1	0.18	24.5	<2	0.6
344831	0.48	3.1	2.8	10.0	0.12	18.6	<2	0.4
344832	0.94	2.1	2.8	7.9	0.15	17.0	<2	0.3
344833	0.58	2.6	3.1	8.7	0.17	23.0	<2	0.4
344834	0.79	3.6	2.2	8.8	0.31	22.4	<2	0.4
344835	1.15	4.9	2.2	4.2	0.23	21.3	<2	0.4
*Dup 344834	0.68	3.7	2.2	8.8	0.27	22.8	<2	0.4
344836	3.16	18.1	7.4	19.5	1.57	14.7	2	1.5
344837	1.14	3.8	2.8	3.3	0.22	22.4	<2	0.4
344838	0.57	0.9	3.2	2.9	0.16	22.4	<2	0.5
344839	0.36	0.9	3.1	3.5	0.19	23.2	<2	0.5
344840	2.41	0.8	4.1	3.8	0.15	24.4	<2	0.5
344841	1.10	1.1	1.8	7.7	0.10	23.7	<2	0.6

Element	@Mo	@Nb	@Pb	@Rb	@Sb	@Sc	@Se	@Sn
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.1	0.5	0.2	0.05	0.5	2	0.3
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344842	1.03	5.8	2.6	28.0	0.27	15.5	<2	1.3
344843	2.55	2.4	1.8	47.1	0.14	22.9	<2	3.0
344844	0.90	3.6	1.9	18.0	0.12	22.1	<2	0.9
344845	0.10	2.2	1.5	15.6	0.12	28.9	<2	0.6
344846	0.81	0.6	1.8	5.7	0.07	28.6	<2	0.4
344847	0.11	1.0	1.6	0.6	<0.05	32.2	<2	0.3
344848	2.70	15.7	12.9	104	<0.05	19.1	<2	2.8
344849	0.26	1.1	1.8	0.7	0.07	23.5	<2	0.6
344850	1.28	1.1	1.8	33.7	0.08	25.3	<2	1.2
344851	0.48	2.1	3.0	17.7	0.25	37.2	<2	0.6
344852	1.74	8.0	5.0	21.2	<0.05	11.5	<2	4.8
344853	2.16	7.7	4.8	25.4	0.07	10.6	<2	4.4
344854	1.27	8.3	4.0	15.2	0.08	12.0	<2	5.1
344855	2.89	8.3	2.3	17.7	0.09	11.5	<2	4.5
344856	2.30	8.1	2.4	18.0	0.08	10.9	<2	4.6
344857	2.19	3.0	3.9	16.9	0.12	3.2	<2	1.6
344858	1.95	8.1	3.4	67.0	0.16	11.5	<2	5.6
344859	0.82	8.6	3.1	75.8	0.23	11.2	<2	4.9
344860	108	18.8	24.5	192	0.88	13.0	3	5.4
344861	0.92	8.1	1.6	89.3	0.13	11.0	<2	5.1
344862	0.47	7.6	1.7	19.8	0.11	11.9	<2	4.0
344863	1.51	8.5	2.6	10.2	0.38	11.7	<2	4.0
344864	0.66	6.8	6.8	21.6	0.09	9.9	<2	3.2
344865	0.60	8.0	3.0	52.5	0.10	12.0	<2	4.3
344866	0.86	7.9	5.9	76.5	0.15	9.8	<2	6.1
344867	6.52	8.0	7.5	95.7	0.32	11.1	<2	6.3
344868	2.61	7.0	4.3	79.4	0.10	9.8	<2	4.0
344869	1.25	5.1	3.3	108	0.08	11.7	<2	5.5
344870	2.48	4.6	6.6	92.3	0.11	12.0	<2	5.6
*Dup 344868	2.45	6.7	6.1	80.4	0.10	10.0	<2	4.0
344871	5.14	7.4	2.5	19.9	0.15	13.0	<2	2.7
344872	2.63	15.6	12.9	104	<0.05	18.2	<2	2.8
344873	<0.05	4.6	3.2	3.6	0.26	20.7	<2	1.9
344874	1.90	7.1	7.7	13.1	0.20	10.5	<2	3.7
344875	1.42	3.9	2.7	33.4	0.22	9.7	<2	4.0
344876	0.93	5.0	6.7	17.7	0.21	9.6	<2	4.4
344877	0.72	7.0	3.7	64.6	0.33	12.7	<2	4.8
344878	0.40	4.5	2.6	105	0.25	12.5	<2	6.1
344879	0.70	1.1	2.6	51.3	0.17	8.9	<2	3.1
344880	1.76	1.9	75.3	68.0	0.41	10.5	<2	5.0

Element	@Mo	@Nb	@Pb	@Rb	@Sb	@Sc	@Se	@Sn
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.1	0.5	0.2	0.05	0.5	2	0.3
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344881	0.91	1.7	10.7	75.5	0.38	10.5	<2	5.8
344882	1.16	6.2	2.7	21.5	0.13	10.1	<2	2.5
344883	1.84	6.2	3.3	30.9	0.26	10.5	<2	3.2
344884	2.15	17.1	11.8	18.7	2.66	18.0	<2	1.7
344885	1.22	3.6	3.3	55.9	0.25	11.5	<2	4.6
344886	1.22	4.7	4.0	23.5	0.24	11.3	<2	3.6
*Rep 344842	0.91	5.5	2.5	27.6	0.26	15.7	<2	1.3
*Rep 344883	2.07	6.9	3.0	31.6	0.26	10.7	<2	3.8
*Rep 344886	1.12	4.8	4.3	23.6	0.25	11.0	<2	2.8
*Std OREAS-901	3.14	6.5	18.2	169	2.50	14.8	3	3.3
*Std OREAS-903	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-905	3.39	18.2	31.4	135	2.10	5.1	2	4.9
*Std OREAS-925	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-901	3.17	6.2	16.4	154	2.28	13.2	2	3.2
*Blk BLANK	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Blk BLANK	<0.05	<0.1	<0.5	<0.2	<0.05	<0.5	<2	<0.3
*Blk BLANK	<0.05	<0.1	<0.5	<0.2	<0.05	<0.5	<2	<0.3
*Blk BLANK	<0.05	<0.1	<0.5	<0.2	<0.05	<0.5	<2	<0.3
*Blk BLANK	<0.05	<0.1	<0.5	<0.2	<0.05	<0.5	<2	<0.3
*Std OREAS-903	4.02	4.6	11.0	134	1.59	10.2	5	2.6
*Std OREAS-925	0.99	13.5	110	160	1.43	12.0	8	14.4

Element	@Ta	@Tb	@Te	@Th	@Tl	@U	@W	@Y
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.05	0.05	0.2	0.02	0.05	0.1	0.1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344803	0.82	0.70	0.13	6.9	0.16	1.41	1.0	17.5
344804	0.78	0.85	<0.05	6.8	0.18	1.63	0.9	19.8
344805	1.38	0.64	0.05	6.9	0.13	1.77	0.7	17.1
344806	1.33	0.82	<0.05	6.6	0.16	1.74	0.8	19.0
344807	1.21	0.79	0.94	7.0	0.15	1.85	0.7	15.4
344808	0.80	0.76	0.06	6.4	0.28	1.65	0.7	14.8
344809	1.28	0.62	0.07	8.4	0.24	2.01	2.1	17.1
344810	0.62	0.29	<0.05	4.6	0.13	1.07	1.2	8.2
344811	0.92	0.46	<0.05	5.7	0.15	1.40	1.5	14.4
344812	1.02	0.71	0.23	2.9	0.09	0.85	1.5	19.6
344813	0.89	0.52	<0.05	7.1	0.03	1.37	1.0	16.0
344814	0.25	0.91	<0.05	5.3	<0.02	1.27	0.3	29.6
344815	0.12	0.56	<0.05	4.8	<0.02	1.07	0.1	18.1
344816	1.02	0.52	<0.05	6.6	0.07	1.75	2.9	17.3
344817	0.97	0.64	<0.05	6.7	0.04	1.83	1.4	18.8
344818	1.02	0.58	<0.05	7.4	0.04	1.56	0.6	19.3
344819	0.79	0.41	<0.05	6.3	0.03	2.62	1.2	11.3
344820	0.25	0.38	<0.05	1.4	<0.02	0.38	0.3	9.1
344821	0.27	0.37	<0.05	1.3	<0.02	0.34	0.1	7.0
344822	0.24	0.34	<0.05	1.4	<0.02	0.32	0.1	7.2
344823	0.26	0.35	<0.05	1.3	<0.02	0.26	0.2	7.0
344824	1.11	1.34	<0.05	4.1	0.44	1.37	0.4	43.9
344825	0.27	0.41	<0.05	1.6	<0.02	0.32	0.2	7.3
344826	0.18	0.34	0.06	1.3	0.05	0.24	0.2	6.2
344827	0.18	0.34	0.09	1.3	0.04	0.29	0.2	6.5
344828	0.16	0.33	0.16	1.3	0.06	0.24	0.2	6.3
344829	0.24	0.39	0.06	1.6	0.14	0.36	0.3	8.5
344830	0.25	0.42	0.06	2.2	0.14	0.55	1.0	8.9
344831	0.28	0.31	<0.05	1.0	0.07	0.22	0.2	6.7
344832	0.18	0.29	0.09	1.0	0.05	0.19	0.3	6.3
344833	0.23	0.34	<0.05	1.3	0.06	0.33	0.2	7.4
344834	0.32	0.35	<0.05	1.3	0.07	0.23	0.3	6.8
344835	0.42	0.30	<0.05	1.2	0.03	0.25	0.4	5.9
*Dup 344834	0.32	0.33	<0.05	1.3	0.06	0.24	0.2	7.0
344836	1.40	0.74	0.11	4.7	0.09	1.39	1.4	21.5
344837	0.35	0.37	<0.05	1.5	0.02	0.37	0.7	8.6
344838	0.08	0.43	<0.05	2.8	0.02	0.96	0.4	10.9
344839	0.09	0.44	0.05	2.8	0.22	0.96	0.4	12.3
344840	0.07	0.48	<0.05	2.6	0.09	0.85	0.4	13.3
344841	0.09	0.56	<0.05	2.8	0.07	0.96	0.4	17.2

Element	@Ta	@Tb	@Te	@Th	@Tl	@U	@W	@Y
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.05	0.05	0.2	0.02	0.05	0.1	0.1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344842	0.50	0.70	<0.05	5.0	0.13	1.43	0.8	21.7
344843	0.21	0.46	<0.05	2.3	0.17	0.77	1.1	14.4
344844	0.27	0.54	<0.05	2.6	0.08	0.78	0.6	17.1
344845	0.21	0.40	<0.05	1.1	0.05	0.37	0.5	14.9
344846	0.06	0.27	<0.05	<0.2	0.03	0.06	0.3	11.1
344847	0.13	0.27	0.05	<0.2	<0.02	0.09	0.3	10.6
344848	1.05	1.31	<0.05	3.9	0.47	1.42	0.3	43.6
344849	0.10	0.51	<0.05	2.7	<0.02	0.93	0.2	17.3
344850	0.10	0.47	<0.05	2.6	0.25	0.93	0.3	17.3
344851	0.20	0.40	<0.05	0.2	0.14	0.06	0.2	16.3
344852	0.78	0.67	<0.05	4.1	0.09	1.26	0.9	23.6
344853	0.78	0.55	<0.05	3.9	0.10	1.18	1.2	20.0
344854	0.87	0.71	<0.05	4.6	0.06	1.33	1.0	23.9
344855	0.80	0.71	<0.05	4.1	0.07	1.22	1.1	27.4
344856	0.82	0.73	<0.05	3.9	0.06	1.37	1.2	27.9
344857	0.22	0.70	0.06	1.0	0.09	0.39	0.4	28.0
344858	0.84	0.62	<0.05	4.0	0.23	1.19	2.2	25.9
344859	0.90	0.52	<0.05	4.9	0.24	1.18	1.9	18.9
344860	1.66	0.78	0.08	19.3	0.96	5.29	3.6	25.9
344861	0.85	0.53	<0.05	4.1	0.29	1.07	2.0	18.4
344862	0.80	0.65	<0.05	4.3	0.08	1.14	0.7	21.8
344863	0.83	0.74	<0.05	4.3	0.04	1.17	1.1	26.1
344864	0.68	0.63	<0.05	4.6	0.08	1.10	1.1	17.9
344865	0.80	0.61	<0.05	4.8	0.17	1.23	2.5	15.6
344866	0.82	0.54	0.10	3.9	0.25	1.02	3.8	17.4
344867	0.78	0.48	0.13	4.3	0.32	2.19	4.8	13.0
344868	0.68	0.52	0.93	4.5	0.28	1.33	3.5	13.9
344869	0.48	0.53	<0.05	4.6	0.37	1.30	4.2	12.6
344870	0.44	0.57	<0.05	4.5	0.33	1.26	3.5	12.1
*Dup 344868	0.68	0.54	0.90	4.4	0.28	1.36	3.5	13.7
344871	0.72	0.68	<0.05	4.2	0.08	1.13	1.3	16.4
344872	1.04	1.31	<0.05	4.1	0.47	1.44	0.4	42.4
344873	0.29	1.01	<0.05	7.2	0.03	1.87	0.6	26.2
344874	0.79	0.61	0.10	4.3	0.29	1.11	0.9	16.9
344875	0.43	0.54	<0.05	3.4	0.19	0.97	0.9	12.8
344876	0.57	0.49	<0.05	3.9	0.10	1.09	0.6	13.4
344877	0.81	0.54	<0.05	4.6	0.26	1.35	1.1	14.9
344878	0.50	0.54	<0.05	4.3	0.38	1.39	1.3	13.5
344879	0.11	0.68	<0.05	3.0	0.20	0.94	0.9	18.0
344880	0.20	0.63	<0.05	3.9	0.25	1.37	1.7	14.9

Final : SU1600110B Order: Mining & Exploration - GO_ICM40B 'B'

Report File No.: 0000006501

Element	@Ta	@Tb	@Te	@Th	@Tl	@U	@W	@Y
Method	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B	GE_ICM40B
Det.Lim.	0.05	0.05	0.05	0.2	0.02	0.05	0.1	0.1
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
344881	0.17	0.50	<0.05	3.8	0.27	1.18	1.7	14.9
344882	0.63	0.47	<0.05	3.5	0.08	1.14	1.1	13.9
344883	0.64	0.67	<0.05	3.8	0.13	1.05	1.3	22.2
344884	1.10	0.70	0.24	2.9	0.09	0.84	1.3	20.4
344885	0.38	0.86	<0.05	3.6	0.22	2.36	2.2	24.3
344886	0.50	0.62	<0.05	4.2	0.10	1.18	1.4	21.3
*Rep 344842	0.46	0.69	<0.05	5.0	0.11	1.39	0.8	21.6
*Rep 344883	0.68	0.69	<0.05	4.1	0.13	1.10	1.3	22.1
*Rep 344886	0.52	0.61	<0.05	4.1	0.09	1.15	1.4	20.7
*Std OREAS-901	0.65	1.12	0.08	16.6	0.82	11.0	2.7	39.3
*Std OREAS-903	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-905	1.60	0.75	0.06	14.5	0.73	5.03	3.1	15.9
*Std OREAS-925	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Std OREAS-901	0.62	1.08	0.06	14.9	0.75	9.90	2.6	35.8
*Blk BLANK	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	0.02	<0.05	<0.1	<0.1
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05	0.1	<0.1
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05	0.1	<0.1
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05	<0.1	<0.1
*Std OREAS-903	0.43	0.77	<0.05	13.2	0.58	7.67	1.6	21.5
*Std OREAS-925	1.15	0.78	<0.05	16.3	0.81	2.99	6.7	23.1

Element	@Yb
Method	GE_ICM40B
Det.Lim.	0.1
Units	ppm
344803	1.9
344804	2.6
344805	2.3
344806	2.5
344807	2.1
344808	2.0
344809	2.1
344810	1.2
344811	2.1
344812	1.6
344813	2.0
344814	2.4
344815	1.5
344816	2.3
344817	2.3
344818	2.2
344819	1.4
344820	0.9
344821	0.8
344822	0.8
344823	0.7
344824	3.7
344825	0.8
344826	0.7
344827	0.7
344828	0.7
344829	0.9
344830	0.9
344831	0.7
344832	0.6
344833	0.8
344834	0.7
344835	0.6
*Dup 344834	0.7
344836	1.8
344837	0.8
344838	1.1
344839	1.2
344840	1.2
344841	1.5

Element	@Yb
Method	GE_ICM40B
Det.Lim.	0.1
Units	ppm
344842	1.9
344843	1.4
344844	1.6
344845	1.5
344846	1.2
344847	1.2
344848	3.7
344849	1.6
344850	1.6
344851	1.7
344852	2.4
344853	2.1
344854	2.5
344855	2.7
344856	2.8
344857	2.9
344858	2.9
344859	2.3
344860	2.6
344861	1.9
344862	2.2
344863	2.5
344864	1.9
344865	1.5
344866	1.9
344867	1.4
344868	1.5
344869	1.8
344870	1.4
*Dup 344868	1.5
344871	1.8
344872	3.8
344873	2.1
344874	1.7
344875	1.4
344876	1.5
344877	1.6
344878	1.5
344879	1.6
344880	1.4

Element	@Yb
Method	GE_ICM40B
Det.Lim.	0.1
Units	ppm
344881	1.5
344882	1.7
344883	2.2
344884	1.7
344885	2.3
344886	2.2
*Rep 344842	1.8
*Rep 344883	2.4
*Rep 344886	2.1
*Std OREAS-901	3.5
*Std OREAS-903	N.A.
*Std OREAS-905	0.6
*Std OREAS-925	N.A.
*Std OREAS-901	3.3
*Blk BLANK	N.A.
*Blk BLANK	<0.1
*Blk BLANK	<0.1
*Blk BLANK	<0.1
*Blk BLANK	<0.1
*Std OREAS-903	2.3
*Std OREAS-925	2.4

Certificate of Analysis

Work Order : SU1600110C

[Report File No.: 0000006474]

To: **Stephen Roach**
TRELAWNEY MINING AND EXPLORATION INC
3 MESOMIKENDA LAKE ROAD BOX 100
GOGAMA ON P0M 1W0

Date: Mar 07, 2016

P.O. No.	:	Mining & Exploration - GO_XRF76V 'C'
Project No.	:	CKE_PROJECT_234
No. Of Samples	:	5
Date Submitted	:	Feb 17, 2016
Report Comprises	:	Pages 1 to 3 (Inclusive of Cover Sheet)

Distribution of unused material:
To Be Determined:

Certified By : Debbie Waldon
Debbie Waldon
Project Coordinator

SGS Minerals Services (Lakefield) is accredited by Standards Council of Canada (SCC) and conforms to the requirements of ISO/IEC 17025 for specific tests as indicated on the scope of accreditation to be found at http://www.scc.ca/en/programs/lab/mineral.shtml

Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	--	= No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted

Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

Final : SU1600110C Order: Mining & Exploration - GO_XRF76V 'C'

Report File No.: 0000006474

Element	@LOI	@SiO2	@Al2O3	@Fe2O3	@MgO	@CaO	@K2O	@Na2O
Method	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V
Det.Lim.	-10.000	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Units	%	%	%	%	%	%	%	%
344803	3.09	69.4	12.8	4.33	0.92	2.25	0.93	4.86
344815	13.3	42.9	10.8	9.80	8.31	12.0	0.02	1.63
344818	1.74	71.6	13.2	4.37	1.88	0.69	0.33	5.70
344863	2.73	65.8	15.0	4.38	1.61	3.24	0.26	6.32
344883	4.82	64.8	13.9	4.34	1.40	4.64	1.19	4.19
*Std SY-4	4.85	49.7	20.7	6.24	0.54	8.04	1.69	7.10
*Blk BLANK	100.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Final : SU1600110C Order: Mining & Exploration - GO_XRF76V 'C'

Report File No.: 0000006474

Element	@TiO2	@MnO	@P2O5	@Cr2O3	@V2O5	Sum
Method	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V	GO_XRF76V
Det.Lim.	0.01	0.01	0.01	0.01	0.01	0
Units	%	%	%	%	%	%
344803	0.48	0.03	0.09	<0.01	<0.01	99.2
344815	0.70	0.11	0.30	0.09	0.03	100.0
344818	0.54	0.01	0.11	<0.01	<0.01	100.2
344863	0.61	0.06	0.11	<0.01	0.01	100.2
344883	0.54	0.07	0.10	<0.01	<0.01	100.0
*Std SY-4	0.29	0.11	0.13	<0.01	<0.01	99.4
*Blk BLANK	<0.01	<0.01	<0.01	<0.01	<0.01	100.0

Quality Analysis ... *Innovative Technologies*

Date Submitted: 20-Dec-16
Invoice No.: A16-13640-Au
Invoice Date: 16-Jan-17
Your Reference: 251 - TAAC Watershed

Trelawney Augen Acquisition
Chester #1 Mine
P.O. Box 100
Gogama Ontario P0M 1W0
Canada

ATTN: District Manager Alan Smith

CERTIFICATE OF ANALYSIS

139 Rock samples were submitted for analysis.

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

REPORT **A16-13640-Au**

Notes:

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

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
1010 Lorne Street Unit West 4, Sudbury, Ontario, Canada, P3C 4R9
TELEPHONE +705 586-3288 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Sudbury@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au	Au
Unit Symbol	ppm	g/tonne
Lower Limit	0.005	0.02
Method Code	FA-AA	FA-GRA
289216	0.012	
289217	0.006	
289218	0.005	
289219	< 0.005	
289220	0.010	
289221	0.007	
289222	0.006	
289223	< 0.005	
289224	< 0.005	
289225	< 0.005	
289226	0.006	
289227	< 0.005	
289228	< 0.005	
289229	< 0.005	
289230	0.008	
289231	< 0.005	
289232	< 0.005	
289233	< 0.005	
289234	< 0.005	
289235	< 0.005	
289236	> 5.000	8.24
289237	< 0.005	
289238	< 0.005	
289239	< 0.005	
289240	< 0.005	
289241	< 0.005	
289242	< 0.005	
289243	0.005	
289244	0.013	
289245	< 0.005	
289246	< 0.005	
289247	< 0.005	
289248	< 0.005	
289249	< 0.005	
289250	< 0.005	
287801	0.007	
287802	< 0.005	
287803	0.010	
287804	< 0.005	
287805	< 0.005	
287806	< 0.005	

Analyte Symbol	Au	Au
Unit Symbol	ppm	g/tonne
Lower Limit	0.005	0.02
Method Code	FA-AA	FA-GRA
287807	0.006	
287808	0.008	
287809	0.005	
287810	0.008	
287811	0.010	
287812	0.577	
287813	0.009	
287814	< 0.005	
287815	0.006	
287816	< 0.005	
287817	0.007	
287818	0.005	
287819	0.097	
287820	0.009	
287821	0.117	
287822	0.123	
287823	0.052	
287824	< 0.005	
287825	0.170	
287826	0.010	
287827	0.012	
287828	0.018	
287829	0.012	
287830	0.031	
287831	0.007	
287832	< 0.005	
287833	0.012	
287834	< 0.005	
287835	0.015	
287836	> 5.000	8.59
287837	< 0.005	
287838	< 0.005	
287839	< 0.005	
287840	< 0.005	
287841	0.006	
287842	< 0.005	
287843	< 0.005	
287844	< 0.005	
287845	< 0.005	
287846	< 0.005	
287847	< 0.005	
287848	< 0.005	

Analyte Symbol	Au	Au
Unit Symbol	ppm	g/tonne
Lower Limit	0.005	0.02
Method Code	FA-AA	FA-GRA
287849	< 0.005	
287850	< 0.005	
287851	< 0.005	
287852	< 0.005	
287853	< 0.005	
287854	< 0.005	
287855	< 0.005	
287856	< 0.005	
287857	0.011	
287858	< 0.005	
287859	< 0.005	
287860	0.250	
287861	< 0.005	
287862	0.005	
287863	0.014	
287864	< 0.005	
287865	< 0.005	
287866	< 0.005	
287867	< 0.005	
287868	< 0.005	
287869	< 0.005	
287870	< 0.005	
287871	< 0.005	
287872	< 0.005	
287873	< 0.005	
287874	< 0.005	
287875	0.010	
287876	0.005	
287877	< 0.005	
287878	< 0.005	
287879	< 0.005	
287880	< 0.005	
287881	0.049	
287882	0.007	
287883	< 0.005	
287884	1.541	
287885	< 0.005	
287886	< 0.005	
287887	< 0.005	
287888	< 0.005	
287889	< 0.005	

Analyte Symbol	Au	Au
Unit Symbol	ppm	g/tonne
Lower Limit	0.005	0.02
Method Code	FA-AA	FA-GRA
287890	< 0.005	
287891	< 0.005	
287892	< 0.005	
287893	< 0.005	
287894	< 0.005	
287895	< 0.005	
287896	< 0.005	
287897	< 0.005	
287898	< 0.005	
287899	< 0.005	
287900	0.017	
287901	0.008	
287902	0.014	
287903	< 0.005	
287904	< 0.005	

Analyte Symbol	Au	Au
Unit Symbol	ppm	g/tonne
Lower Limit	0.005	0.02
Method Code	FA-AA	FA-GRA
OREAS 206 Meas	2.179	
OREAS 206 Cert	2.197	
OREAS 206 Meas	2.326	
OREAS 206 Cert	2.197	
OREAS 206 Meas	2.327	
OREAS 206 Cert	2.197	
OREAS 206 Meas	2.179	
OREAS 206 Cert	2.197	
OREAS 206 Meas	2.243	
OREAS 206 Cert	2.197	
OREAS 206 Meas	2.169	
OREAS 206 Cert	2.197	
OxK110 Meas		3.62
OxK110 Cert		3.602
OxL118 Meas		5.81
OxL118 Cert		5.828
OREAS 251 Meas	0.489	
OREAS 251 Cert	0.50	
OREAS 251 Meas	0.507	
OREAS 251 Cert	0.50	
OREAS 251 Meas	0.508	
OREAS 251 Cert	0.50	
OREAS 251 Meas	0.481	
OREAS 251 Cert	0.50	
OREAS 251 Meas	0.503	
OREAS 251 Cert	0.50	
289225 Orig	0.007	
289225 Dup	< 0.005	
289235 Orig	< 0.005	
289235 Dup	0.010	
289245 Orig	< 0.005	
289245 Dup	0.005	
287810 Orig	0.011	
287810 Dup	0.005	
287814 Split Orig PREP DUP	< 0.005	
287814 Split PREP DUP	< 0.005	
287820 Orig	0.008	
287820 Dup	0.010	
287830 Orig	0.032	
287830 Dup	0.029	

Analyte Symbol	Au	Au
Unit Symbol	ppm	g/tonne
Lower Limit	0.005	0.02
Method Code	FA-AA	FA-GRA
287844 Orig	< 0.005	
287844 Dup	< 0.005	
287854 Orig	< 0.005	
287854 Dup	< 0.005	
287864 Split Orig PREP DUP	< 0.005	
287864 Split PREP DUP	< 0.005	
287864 Orig	0.010	
287864 Dup	< 0.005	
287878 Orig	< 0.005	
287878 Dup	< 0.005	
287897 Orig	< 0.005	
287897 Dup	< 0.005	
287898 Orig	0.006	
287898 Dup	< 0.005	
Method Blank	0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank		< 0.02
Method Blank		< 0.02

Quality Analysis ... *Innovative Technologies*

Date Submitted: 20-Dec-16
Invoice No.: A16-13640-TD
Invoice Date: 13-Feb-17
Your Reference: 251 - TAAC Watershed

Trelawney Augen Acquisition
Chester #1 Mine
P.O. Box 100
Gogama Ontario P0M 1W0
Canada

ATTN: District Manager Alan Smith

CERTIFICATE OF ANALYSIS

139 Rock samples were submitted for analysis.

The following analytical package(s) were requested: Code UT-6 Total Digestion ICP & ICP/MS

REPORT **A16-13640-TD**

Notes:

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control

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

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
289220	7.0	> 3.00	1.03	7.15	1.26	2.42	< 0.1	59	16.5	530	3.81	5.3	60	13.2	3.1	1.2	1.2	0.24	0.13	12.3	1.14	0.14	< 0.1
289221	30.5	0.69	5.58	8.47	0.88	1.19	< 0.1	84	48.6	993	10.9	2.5	40	42.5	3.3	1.0	1.2	0.10	0.20	40.9	1.27	0.22	< 0.1
289239	33.0	2.42	3.28	8.03	1.36	4.55	< 0.1	40	82.4	1080	6.92	1.6	40	99.7	2.7	1.1	1.0	< 0.05	0.64	29.2	1.09	0.05	< 0.1
289245	20.1	> 3.00	3.44	7.09	3.01	6.41	0.2	190	118	1100	6.49	2.5	30	39.8	2.3	1.5	1.0	0.07	3.47	30.1	2.57	0.06	< 0.1
289246	20.5	2.97	3.19	7.44	2.02	4.71	0.2	140	94.1	1050	7.45	3.2	30	89.7	2.7	1.3	1.0	< 0.05	2.60	32.1	1.68	0.06	< 0.1
287801	9.5	2.71	1.78	6.95	0.90	4.21	0.3	72	70.9	672	5.33	4.3	60	61.0	3.7	1.1	1.4	0.33	0.64	25.6	1.11	0.12	< 0.1
287802	11.1	2.78	2.36	7.60	0.97	4.33	< 0.1	82	70.6	772	6.51	3.2	40	62.8	3.2	0.9	1.2	0.17	0.77	25.7	1.13	0.21	< 0.1
287803	16.7	2.01	4.50	7.33	0.27	2.69	< 0.1	121	174	978	8.02	2.5	40	120	2.3	0.9	0.9	0.18	0.19	34.3	0.90	0.15	0.2
287804	14.7	2.45	3.08	7.09	0.59	4.77	< 0.1	107	131	956	6.96	3.2	30	108	3.1	1.1	1.2	0.12	0.58	32.7	1.18	0.19	0.1
287806	11.8	1.89	3.53	7.48	0.61	5.95	< 0.1	139	97.8	1210	8.18	1.3	< 10	106	2.0	0.7	0.7	0.09	0.49	40.6	0.82	0.16	< 0.1
287818	18.1	1.47	3.64	7.00	1.00	5.24	< 0.1	108	62.9	1110	8.71	1.3	10	137	1.7	1.1	0.6	0.10	1.14	46.9	0.69	0.58	< 0.1
287821	11.8	2.90	2.70	7.41	0.66	5.42	0.3	110	112	845	6.06	2.6	< 10	74.1	2.1	0.9	0.8	0.34	0.46	29.7	0.86	2.04	0.7
287822	18.3	2.27	3.09	7.38	1.24	4.10	0.1	115	119	880	8.62	1.2	20	77.8	1.8	0.6	0.7	0.19	1.25	35.3	0.76	2.19	0.5
287823	11.2	2.80	1.75	6.77	1.36	3.49	0.2	61	83.7	637	5.80	2.6	< 10	53.0	2.6	0.9	0.9	0.30	1.14	20.5	0.91	0.40	0.3
287825	15.9	2.66	2.93	7.24	1.07	4.24	0.2	119	101	952	7.60	1.8	60	67.8	1.9	0.8	0.7	0.74	1.00	31.6	0.54	1.06	0.5
287829	9.2	> 3.00	1.22	7.47	0.62	3.71	0.2	53	35.3	537	4.67	4.2	30	37.3	4.2	1.1	1.6	0.35	0.25	18.5	1.47	0.39	< 0.1
287830	6.5	> 3.00	0.74	6.68	0.62	2.70	0.4	38	21.9	357	3.17	6.0	10	18.2	4.5	1.1	1.7	0.44	0.13	15.6	1.27	0.36	0.7
287831	12.5	1.54	3.25	6.87	0.58	6.82	0.1	201	48.9	1280	10.2	0.6	30	115	2.1	0.8	0.8	0.23	0.73	46.8	0.93	0.32	< 0.1
287842	21.6	1.82	4.61	7.84	0.94	4.65	< 0.1	123	90.3	1090	8.20	1.2	20	206	1.7	0.7	0.6	0.10	1.11	46.2	0.79	0.08	< 0.1
287843	18.7	2.62	3.94	7.54	1.07	7.27	< 0.1	169	67.7	1220	7.27	2.1	< 10	129	1.8	0.8	0.7	0.27	1.04	42.6	1.46	0.06	0.2
287858	15.1	> 3.00	2.33	7.11	0.67	4.44	< 0.1	83	61.1	929	6.52	2.4	< 10	62.3	2.2	0.8	0.8	< 0.05	0.21	25.2	0.84	0.04	< 0.1
287859	16.8	> 3.00	2.76	7.40	0.41	3.74	0.3	76	99.3	823	6.49	2.4	< 10	101	2.8	0.8	1.0	0.06	0.10	27.0	1.05	0.04	< 0.1
287861	11.8	> 3.00	2.02	6.83	0.42	3.57	< 0.1	75	68.6	661	4.28	4.3	< 10	75.3	3.2	1.1	1.2	0.06	0.07	21.9	0.81	0.03	< 0.1
287862	12.7	> 3.00	1.88	7.48	0.72	4.34	0.2	59	89.5	822	5.45	2.9	50	43.5	2.7	0.8	1.0	0.62	0.16	22.8	0.90	0.04	< 0.1
287889	10.9	2.86	2.01	7.21	0.64	4.95	< 0.1	77	17.7	1200	8.52	0.9	20	29.4	2.9	0.9	1.1	0.28	0.83	32.1	1.30	0.08	< 0.1
287890	15.8	2.92	1.94	7.73	1.49	7.12	< 0.1	59	20.2	1380	6.67	1.3	< 10	27.2	1.7	1.3	0.7	0.09	0.20	19.3	1.33	0.03	< 0.1
287891	10.9	> 3.00	1.55	8.64	1.89	6.83	0.2	52	18.7	1500	4.22	3.1	< 10	12.0	1.4	1.3	0.6	< 0.05	0.16	8.8	1.27	0.04	< 0.1
287892	14.7	> 3.00	2.40	7.99	1.20	5.25	< 0.1	39	37.1	1100	7.19	1.2	< 10	40.7	1.5	1.3	0.6	< 0.05	0.16	27.8	1.13	0.04	< 0.1
287897	9.1	2.48	3.47	7.68	0.29	5.58	0.1	94	118	1280	8.62	1.1	< 10	94.5	2.5	0.6	0.9	0.05	0.14	38.0	1.03	0.07	< 0.1
287898	12.3	1.87	3.72	7.29	0.47	6.01	0.1	208	182	1340	8.82	2.1	< 10	114	2.3	0.5	0.9	0.15	0.26	40.1	0.94	0.10	0.3
287903	24.3	1.36	4.41	6.64	0.77	2.49	< 0.1	75	57.9	1040	8.40	2.9	< 10	43.2	2.5	0.8	0.9	< 0.05	0.26	30.4	0.73	0.06	< 0.1

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
289220	74.6	17.5	28.9	25.3	28.4	87.6	200	0.5	1.55	< 0.1	< 1	1.5	0.2	494	28.5	55.2	6.8	23.6	4.8	6.0	0.9	5.5	68.2
289221	161	21.2	1.8	17.0	29.8	27.3	90	0.6	1.37	< 0.1	1	1.8	< 0.1	436	18.2	37.3	4.8	17.9	3.9	5.2	0.8	5.4	47.7
289239	78.8	17.2	4.7	37.7	25.0	207	68	0.2	0.52	< 0.1	< 1	1.3	< 0.1	319	15.6	32.2	4.2	15.2	3.8	4.8	0.7	4.8	54.2
289245	135	14.0	< 0.1	103	23.2	110	149	1.0	1.16	0.4	14	1.4	0.1	685	51.9	103	14.3	53.2	9.7	8.8	1.0	5.0	100
289246	120	16.1	< 0.1	64.9	25.5	196	140	0.5	0.50	< 0.1	2	1.3	< 0.1	550	29.9	60.3	8.1	30.0	6.0	6.5	0.8	5.0	73.5
287801	97.3	17.7	< 0.1	29.7	33.8	158	156	0.4	1.30	< 0.1	< 1	1.0	0.5	256	31.8	60.5	7.5	26.8	5.5	6.7	1.0	6.4	92.7
287802	81.6	18.8	< 0.1	34.1	29.8	168	126	0.4	0.80	< 0.1	< 1	1.2	0.3	231	19.7	40.0	5.3	19.3	4.4	5.5	0.9	5.5	43.1
287803	130	19.2	< 0.1	9.0	22.7	61.5	97	0.5	1.25	< 0.1	3	1.3	0.2	69	15.1	30.7	3.8	14.5	3.4	4.4	0.7	4.0	244
287804	96.7	18.3	< 0.1	20.8	29.1	106	118	1.4	0.72	< 0.1	2	1.1	0.1	139	18.6	37.8	5.0	18.5	4.6	5.8	0.9	5.4	104
287806	111	17.4	< 0.1	22.3	18.3	175	51	0.3	0.46	< 0.1	< 1	0.9	< 0.1	144	12.9	25.5	3.1	11.1	2.4	3.2	0.5	3.3	98.4
287818	106	14.6	< 0.1	40.5	15.6	117	52	0.2	0.35	< 0.1	< 1	0.7	< 0.1	214	9.7	19.5	2.4	9.0	2.0	2.6	0.4	2.8	83.4
287821	82.4	17.4	< 0.1	23.5	20.6	132	100	0.2	0.46	< 0.1	1	0.7	0.1	174	21.1	41.2	5.0	17.0	3.5	4.1	0.6	3.7	583
287822	105	18.0	1.9	47.5	16.6	107	45	0.5	0.84	< 0.1	3	0.7	0.5	300	9.8	20.6	2.5	9.5	2.3	3.0	0.5	3.0	111
287823	67.7	16.1	< 0.1	50.8	23.2	106	102	0.5	0.34	< 0.1	< 1	0.6	< 0.1	375	17.1	34.2	4.3	15.7	3.5	4.3	0.6	4.2	539
287825	96.4	17.5	< 0.1	40.1	17.8	88.5	58	0.5	1.86	< 0.1	2	0.7	0.7	262	12.5	25.9	3.2	11.9	2.7	3.5	0.5	3.2	611
287829	54.9	21.4	< 0.1	17.6	39.7	194	173	2.2	1.14	< 0.1	2	0.6	0.3	194	27.0	56.5	7.7	29.9	6.6	8.3	1.2	7.7	72.2
287830	61.9	16.7	< 0.1	16.7	41.1	105	251	4.8	2.31	< 0.1	3	0.5	0.2	223	27.0	55.1	7.6	28.6	6.5	8.0	1.2	7.8	542
287831	127	19.3	< 0.1	19.2	18.7	173	21	0.3	0.43	< 0.1	< 1	0.4	0.1	136	7.3	16.0	2.2	8.9	2.3	3.3	0.5	3.5	174
287842	123	15.6	< 0.1	34.5	15.5	168	51	0.8	0.55	< 0.1	< 1	0.6	< 0.1	169	7.6	16.0	2.1	8.2	1.9	2.6	0.4	2.8	41.9
287843	109	15.4	1.0	34.3	17.3	122	85	10.6	2.62	< 0.1	2	0.8	0.1	253	30.4	61.6	8.0	28.4	4.2	4.4	0.5	3.3	113
287858	93.5	17.7	< 0.1	17.3	20.1	101	93	0.4	0.34	< 0.1	< 1	0.4	< 0.1	203	13.8	29.1	3.6	12.8	2.9	3.5	0.6	3.6	50.8
287859	148	18.8	< 0.1	9.6	26.8	70.0	94	0.3	0.24	< 0.1	< 1	0.3	< 0.1	116	15.9	34.2	4.3	16.2	3.7	4.6	0.7	4.8	47.6
287861	78.6	16.9	1.9	9.7	30.3	57.4	156	1.6	0.90	< 0.1	1	0.3	< 0.1	160	23.1	46.6	5.8	20.3	4.2	5.3	0.8	5.3	47.7
287862	96.1	17.3	< 0.1	17.9	24.5	88.8	122	0.4	1.24	< 0.1	< 1	0.4	0.5	260	18.1	37.7	4.8	17.2	3.6	4.2	0.7	4.4	69.5
287889	127	20.0	8.7	25.1	26.1	152	38	0.4	1.69	< 0.1	< 1	0.3	0.2	191	13.8	29.5	4.0	16.0	4.0	5.0	0.8	5.1	60.2
287890	59.8	18.1	2.8	27.1	15.9	128	49	0.4	0.78	< 0.1	< 1	0.4	0.1	555	15.4	32.8	4.3	16.8	3.8	4.9	0.7	3.7	15.8
287891	22.6	16.3	1.5	35.1	13.7	142	118	0.7	0.53	< 0.1	< 1	0.3	0.1	676	19.5	41.3	5.4	20.7	4.6	5.7	0.7	3.5	4.3
287892	65.9	17.4	1.2	21.7	14.7	121	50	0.3	0.40	< 0.1	< 1	0.3	< 0.1	427	18.6	38.7	5.1	19.7	4.4	5.1	0.7	3.6	15.9
287897	121	18.4	< 0.1	8.5	23.8	170	42	0.2	0.28	< 0.1	< 1	0.2	< 0.1	65	10.5	23.5	3.1	12.5	3.1	4.1	0.7	4.3	97.6
287898	138	19.3	0.4	13.7	21.3	140	84	4.9	1.35	< 0.1	3	0.5	< 0.1	105	10.8	23.6	3.2	12.0	2.8	3.7	0.6	3.8	108
287903	143	17.7	< 0.1	25.0	23.5	59.2	124	0.2	0.30	< 0.1	< 1	0.2	< 0.1	223	12.3	26.2	3.4	12.8	2.9	3.6	0.6	4.1	36.6

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
289220	< 0.1	0.5	3.3	0.4	0.2	1.1	0.002	0.12	14.7	10	6.6	1.8	0.274	0.030	0.08
289221	< 0.1	0.5	3.5	0.5	0.2	1.0	0.002	0.07	3.7	23	4.9	1.4	0.271	0.042	0.04
289239	< 0.1	0.4	2.7	0.3	0.2	0.7	0.002	0.16	2.7	18	2.8	1.0	0.118	0.038	0.04
289245	< 0.1	0.3	2.1	0.3	0.2	1.0	0.001	0.76	6.5	20	5.7	1.9	0.386	0.190	0.23
289246	< 0.1	0.4	2.7	0.3	0.2	0.7	0.002	0.44	4.8	19	3.8	1.2	0.375	0.100	0.17
287801	< 0.1	0.5	3.9	0.5	0.2	0.8	0.002	0.27	11.1	15	6.0	1.6	0.320	0.026	0.11
287802	< 0.1	0.5	3.3	0.4	0.2	0.8	0.002	0.22	4.5	18	4.1	1.1	0.345	0.037	0.06
287803	< 0.1	0.3	2.4	0.3	0.2	0.6	0.002	0.10	7.8	18	2.1	0.6	0.410	0.034	0.32
287804	< 0.1	0.5	3.2	0.4	0.3	0.9	0.002	0.19	7.6	19	3.4	1.0	0.533	0.026	0.24
287806	< 0.1	0.3	2.2	0.3	0.2	0.7	0.002	0.11	3.5	23	2.8	0.8	0.421	0.024	0.07
287818	< 0.1	0.3	1.9	0.2	0.2	0.5	0.002	0.23	2.2	18	2.7	0.7	0.419	0.023	0.07
287821	< 0.1	0.3	2.3	0.3	0.2	0.5	0.002	0.16	3.7	18	4.0	1.0	0.232	0.020	0.19
287822	0.4	0.3	1.9	0.3	0.2	0.5	0.002	0.28	3.0	26	2.0	0.7	0.241	0.024	0.19
287823	< 0.1	0.4	2.9	0.4	0.2	0.5	0.003	0.28	4.5	16	2.8	2.3	0.185	0.026	0.16
287825	0.1	0.3	2.0	0.3	0.2	0.7	0.003	0.37	3.8	23	4.2	1.2	0.279	0.022	0.30
287829	< 0.1	0.6	4.1	0.5	0.3	0.8	0.002	0.12	8.3	14	4.4	1.3	0.350	0.035	0.19
287830	< 0.1	0.6	4.6	0.5	0.3	0.6	0.001	0.06	5.3	10	4.3	1.4	0.336	0.039	0.31
287831	< 0.1	0.3	2.2	0.3	0.2	0.4	0.003	0.12	3.0	34	1.8	0.4	0.345	0.021	0.11
287842	0.3	0.2	1.7	0.2	0.2	0.6	0.002	0.22	2.3	18	1.0	0.3	0.379	0.022	0.06
287843	< 0.1	0.3	1.9	0.2	0.8	1.2	0.002	0.23	3.2	18	2.5	0.6	0.501	0.087	0.09
287858	< 0.1	0.3	2.5	0.3	0.2	0.4	0.002	0.08	7.0	18	3.7	1.0	0.290	0.030	0.11
287859	< 0.1	0.4	3.0	0.4	0.2	0.4	0.001	0.07	21.2	19	3.2	1.0	0.268	0.031	0.13
287861	0.2	0.5	3.4	0.4	0.3	0.5	0.002	0.07	14.1	14	6.2	1.6	0.314	0.021	0.05
287862	< 0.1	0.4	3.0	0.4	0.2	0.6	0.001	0.18	24.1	17	3.6	1.0	0.204	0.037	0.08
287889	< 0.1	0.4	2.9	0.4	0.2	0.7	0.002	0.18	2.2	24	1.7	0.6	0.231	0.045	0.09
287890	< 0.1	0.2	1.6	0.2	0.2	0.6	0.002	0.08	2.6	25	2.0	0.5	0.253	0.046	0.03
287891	< 0.1	0.2	1.5	0.2	0.2	0.6	0.002	0.08	3.7	21	3.8	1.0	0.264	0.036	< 0.01
287892	< 0.1	0.2	1.4	0.2	0.2	0.5	0.002	0.05	5.1	19	2.7	0.7	0.206	0.064	0.03
287897	< 0.1	0.4	2.7	0.3	0.1	0.4	0.002	< 0.05	2.8	28	1.4	0.4	0.226	0.032	0.07
287898	0.4	0.3	2.5	0.3	0.6	1.6	0.002	0.06	2.3	28	1.4	0.4	0.580	0.034	0.14
287903	< 0.1	0.4	2.7	0.3	0.2	0.4	0.002	0.12	1.9	18	2.9	0.8	0.402	0.054	0.03

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
GXR-1 Meas	8.8	0.06	0.27	2.67	0.05	1.04	2.7	93	16.6	910	26.5	0.6	3450	38.4		1.0		42.9	3.06	7.7	0.63	1150	16.0
GXR-1 Cert	8.20	0.0520	0.217	3.52	0.050	0.960	3.30	80.0	12.0	852	23.6	0.960	3900	41.0		1.22		31.0	3.00	8.20	0.690	1380	16.6
GXR-1 Meas																							
GXR-1 Cert																							
GXR-4 Meas																							
GXR-4 Cert																							
GXR-4 Meas																							
GXR-4 Cert																							
SDC-1 Meas	31.7	1.41	0.83	7.38	2.74	1.00		48	42.3	817	4.68	1.1	< 10	31.7	3.5	2.7	1.3		4.21	15.4	1.49		
SDC-1 Cert	34.00	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70		
SDC-1 Meas																							
SDC-1 Cert																							
GXR-6 Meas	37.8	0.11	0.68	> 10.0	1.72	0.19	0.1	141	38.8	964	5.40	2.6	20	22.3		1.3		0.27	4.36	11.3	0.65	0.16	0.5
GXR-6 Cert	32.0	0.104	0.609	17.7	1.87	0.180	1.00	186	96.0	1010	5.58	4.30	68.0	27.0		1.40		1.30	4.20	13.8	0.760	0.290	0.940
GXR-6 Meas																							
GXR-6 Cert																							
DNC-1a Meas	4.8							155	136					255						51.3	0.57		
DNC-1a Cert	5.2							148	270					247						57	0.59		
DNC-1a Meas																							
DNC-1a Cert																							
SBC-1 Meas	161						0.4	225	68.7			4.0		78.4	3.6	3.3	1.3		8.82	19.7	1.87	0.62	
SBC-1 Cert	163.0						0.40	220.0	109			3.7		82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70	
SBC-1 Meas																							
SBC-1 Cert																							
OREAS 45d (4-Acid) Meas	22.3	0.10	0.28	8.04	0.42	0.21		184	469	514	15.4	4.3		232	1.3	0.8	0.5		4.26	28.6	0.60	0.39	
OREAS 45d (4-Acid) Cert	21.5	0.101	0.245	8.150	0.412	0.185		235.0	549	490.000	14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31	
SdAR-M2 (U.S.G.S.) Meas	16.6						5.6	25	27.6			4.3	820	44.2	2.8	6.4	1.0		1.83	11.6	1.29	0.93	
SdAR-M2 (U.S.G.S.) Cert	17.9						5.1	25.2	49.6			7.29	1440.00	48.8	3.58	6.6	1.21		1.82	12.4	1.44	1.05	
SdAR-M2 (U.S.G.S.) Meas																							
SdAR-M2 (U.S.G.S.) Cert																							
289220 Orig	7.2	> 3.00	1.03	7.06	1.23	2.42	< 0.1	66	15.8	527	3.83	5.6	60	13.5	3.1	1.2	1.2	0.29	0.13	12.4	1.16	0.13	0.2
289220 Dup	6.9	> 3.00	1.03	7.24	1.28	2.43	0.2	51	17.2	533	3.78	5.0	60	13.0	3.1	1.3	1.2	0.19	0.14	12.2	1.12	0.16	< 0.1
Method Blank																							
Method Blank																							
Method Blank	0.8	< 0.01	< 0.01	0.08	< 0.01	< 0.01	< 0.1	< 1	8.2	24	< 0.01	< 0.1	< 10	< 0.5	< 0.1	0.3	< 0.1	0.09	0.05	< 0.1	< 0.05	0.04	< 0.1
Method Blank																							
Method Blank																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
GXR-1 Meas	804	6.7	431	2.6	29.0	300	22	0.6	21.3	0.9	36	45.8	10.2	675	8.7	16.6		8.6	2.8	4.4	0.8	4.9	1210
GXR-1 Cert	760	13.8	427	14.0	32.0	275	38.0	0.800	18.0	0.770	54.0	122	13.0	750	7.50	17.0		18.0	2.70	4.20	0.830	4.30	1110
GXR-1 Meas																							
GXR-1 Cert																							
GXR-4 Meas																							
GXR-4 Cert																							
GXR-4 Meas																							
GXR-4 Cert																							
SDC-1 Meas	99.8	15.9	< 0.1	111		162	43	< 0.1			2	< 0.1		584	43.2	90.1		37.8	6.7	7.2	1.0	6.2	31.7
SDC-1 Cert	103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70	30.000
SDC-1 Meas																							
SDC-1 Cert																							
GXR-6 Meas	125	19.5	254	73.7	11.9	41.4	96	2.5	1.13	< 0.1	< 1	1.3	0.1	1390	15.1	38.7		12.4	2.3	2.4	0.4	2.4	69.2
GXR-6 Cert	118	35.0	330	90.0	14.0	35.0	110	7.50	2.40	0.260	1.70	3.60	0.0180	1300	13.9	36.0		13.0	2.67	2.97	0.415	2.80	66.0
GXR-6 Meas																							
GXR-6 Cert																							
DNC-1a Meas	68.4	13.4		3.5	15.7	141	45	2.2				0.5		100	4.2			4.8					108
DNC-1a Cert	70	15		5	18.0	144	38.0	3				0.96		118	3.6			5.20					100
DNC-1a Meas																							
DNC-1a Cert																							
SBC-1 Meas	195	24.6	23.4	126	29.5	168	147	16.4	2.96		4	1.0		322	54.0	107	13.2	46.8	8.3	8.4	1.1	6.6	33.4
SBC-1 Cert	186.0	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10	31.0000
SBC-1 Meas																							
SBC-1 Cert																							
OREAS 45d (4-Acid) Meas	46.5	22.0	10.6	38.1	10.5	31.4	171	4.2	3.50	0.1	2	< 0.1		177	18.2	38.4	4.2	13.9	2.4	2.7	0.4	2.3	412
OREAS 45d (4-Acid) Cert	45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26	371
SdAR-M2 (U.S.G.S.) Meas	766	7.3		132	23.5	135	136	4.3	12.9					931	48.0	99.1	10.9	36.1	5.7	6.2	0.8	4.8	244
SdAR-M2 (U.S.G.S.) Cert	760	17.6		149	32.7	144	259	26.2	13.3					990	46.6	98.8	11.0	39.4	7.18	6.28	0.97	5.88	236.0000
SdAR-M2 (U.S.G.S.) Meas																							
SdAR-M2 (U.S.G.S.) Cert																							
289220 Orig	71.3	17.8	31.3	25.1	28.0	87.1	207	0.3	2.08	< 0.1	1	1.6	0.2	490	28.2	54.6	6.7	23.6	4.9	5.9	0.9	5.4	67.9
289220 Dup	77.9	17.2	26.6	25.6	28.9	88.2	193	0.6	1.03	< 0.1	< 1	1.5	0.1	498	28.8	55.8	6.8	23.7	4.8	6.1	0.9	5.5	68.5
Method Blank																							
Method Blank																							
Method Blank	1.6	0.4	9.5	3.4	< 0.1	< 0.2	< 1	0.3	1.29	< 0.1	1	0.3	0.1	2	< 0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Method Blank																							
Method Blank																							

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas		0.4	2.6	0.3	< 0.1	155		0.53	764	1	2.6	35.3	0.0273	0.059	0.24
GXR-1 Cert		0.430	1.90	0.280	0.175	164		0.390	730	1.58	2.44	34.9	0.036	0.0650	0.257
GXR-1 Meas										2			0.0278	0.062	0.25
GXR-1 Cert										1.58			0.036	0.0650	0.257
GXR-4 Meas										8			0.288	0.131	1.69
GXR-4 Cert										7.70			0.29	0.120	1.77
GXR-4 Meas										8			0.293	0.136	1.78
GXR-4 Cert										7.70			0.29	0.120	1.77
SDC-1 Meas		0.5	3.6		< 0.1	0.2		0.73	26.3	16	11.1	3.0	0.0994	0.054	
SDC-1 Cert		0.65	4.00		1.20	0.80		0.70	25.00	17.00	12.00	3.10	0.606	0.0690	
SDC-1 Meas										16			0.174	0.053	
SDC-1 Cert										17.00			0.606	0.0690	
GXR-6 Meas			1.9	0.2	0.2	0.5		2.48	109	29	5.5	1.6		0.034	0.01
GXR-6 Cert			2.40	0.330	0.485	1.90		2.20	101	27.6	5.30	1.54		0.0350	0.0160
GXR-6 Meas										28				0.035	0.02
GXR-6 Cert										27.6				0.0350	0.0160
DNC-1a Meas			2.1						6.8	32			0.280		
DNC-1a Cert			2.0						6.3	31			0.29		
DNC-1a Meas										31			0.278		
DNC-1a Cert										31			0.29		
SBC-1 Meas		0.5	3.8	0.5	1.2	2.0		1.18	40.5	21	15.3	6.1	0.493		
SBC-1 Cert		0.56	3.64	0.54	1.10	1.60		0.89	35.0	20.0	15.8	5.76	0.51		
SBC-1 Meas										21			0.514		
SBC-1 Cert										20.0			0.51		
OREAS 45d (4-Acid) Meas			1.6	0.2	0.2	2.2		0.35	25.8	53	14.7	3.0	0.241	0.033	0.04
OREAS 45d (4-Acid) Cert			1.33	0.18	1.02	1.62		0.27	21.8	49.30	14.5	2.63	0.773	0.042	0.049
SdAR-M2 (U.S.G.S.) Meas		0.4	3.0	0.4	0.2	0.3			741	4	13.6	3.2			
SdAR-M2 (U.S.G.S.) Cert		0.54	3.63	0.54	1.8	2.8			808	4.1	14.2	2.53			
SdAR-M2 (U.S.G.S.) Meas										4					
SdAR-M2 (U.S.G.S.) Cert										4.1					
289220 Orig	< 0.1	0.5	3.3	0.4	0.2	1.1	0.002	0.12	15.4	11	6.6	1.8	0.301	0.030	0.08
289220 Dup	< 0.1	0.5	3.3	0.4	0.2	1.0	0.002	0.13	14.0	10	6.5	1.7	0.247	0.030	0.08
Method Blank										< 1			< 0.0005	< 0.001	< 0.01
Method Blank										< 1			< 0.0005	< 0.001	< 0.01
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	0.1	0.3	< 0.001	< 0.05	< 0.5	< 1	< 0.1	0.3	0.0006	< 0.001	< 0.01
Method Blank										< 1			<	< 0.001	< 0.01

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
													0.0005		
Method Blank										< 1			< 0.0005	< 0.001	< 0.01

Quality Analysis ... *Innovative Technologies*

Date Submitted: 22-Dec-16
Invoice No.: A16-13774-Au
Invoice Date: 12-Jan-17
Your Reference: TAAC-Watershed

Trelawney Augen Acquisition
Chester #1 Mine
P.O. Box 100
Gogama Ontario P0M 1W0
Canada

ATTN: District Manager Alan Smith

CERTIFICATE OF ANALYSIS

108 Rock samples were submitted for analysis.

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

REPORT **A16-13774-Au**

Notes:

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

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
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Analyte Symbol	Au	Au
Unit Symbol	ppm	g/tonne
Lower Limit	0.005	0.02
Method Code	FA-AA	FA-GRA
289301	0.010	
289302	0.009	
289303	0.020	
289304	0.012	
289305	0.009	
289306	0.010	
289307	0.013	
289308	0.018	
289309	0.009	
289310	0.032	
289311	1.708	
289312	> 5.000	9.19
289313	0.192	
289314	0.374	
289315	0.530	
289316	0.204	
289317	0.403	
289318	0.013	
289319	0.032	
289320	0.046	
289321	0.046	
289322	0.044	
289323	0.085	
289324	< 0.005	
289325	0.109	
289326	0.293	
289327	1.549	
289328	0.256	
289329	0.161	
289330	1.497	
289331	0.104	
289332	0.060	
289333	0.046	
289334	0.111	
289335	0.073	
289336	0.261	
289337	0.029	
289338	0.018	
289339	0.005	
289340	0.009	
289341	0.017	

Analyte Symbol	Au	Au
Unit Symbol	ppm	g/tonne
Lower Limit	0.005	0.02
Method Code	FA-AA	FA-GRA
289342	0.011	
289343	0.005	
289344	0.011	
289345	0.019	
289346	0.008	
289347	< 0.005	
289348	< 0.005	
289349	< 0.005	
289350	< 0.005	
289351	< 0.005	
289352	< 0.005	
289353	0.138	
289354	0.021	
289355	0.015	
289356	0.006	
289357	0.006	
289358	< 0.005	
289359	0.010	
289360	1.451	
289361	0.005	
289362	0.006	
289363	< 0.005	
289364	0.005	
289365	< 0.005	
289366	< 0.005	
289367	< 0.005	
289368	< 0.005	
289369	< 0.005	
289370	< 0.005	
289371	< 0.005	
289372	< 0.005	
289373	0.006	
289374	< 0.005	
289375	< 0.005	
289376	0.005	
289377	< 0.005	
289378	< 0.005	
289379	0.005	
289380	< 0.005	
289381	< 0.005	
289382	< 0.005	
289383	< 0.005	

Analyte Symbol	Au	Au
Unit Symbol	ppm	g/tonne
Lower Limit	0.005	0.02
Method Code	FA-AA	FA-GRA
289384	0.571	
289385	< 0.005	
289386	< 0.005	
289387	< 0.005	
289388	0.005	
289389	< 0.005	
289390	< 0.005	
289391	0.007	
289392	< 0.005	
289393	0.006	
289394	0.005	
289395	< 0.005	
289396	< 0.005	
289397	< 0.005	
289398	< 0.005	
289399	< 0.005	
289400	< 0.005	
289401	< 0.005	
289402	< 0.005	
289403	< 0.005	
289404	< 0.005	
289405	0.041	
289406	0.012	
289407	0.011	
289408	0.005	

Analyte Symbol	Au	Au
Unit Symbol	ppm	g/tonne
Lower Limit	0.005	0.02
Method Code	FA-AA	FA-GRA
OREAS203 Meas	0.864	
OREAS203 Cert	0.871	
OREAS203 Meas	0.864	
OREAS203 Cert	0.871	
OREAS203 Meas	0.851	
OREAS203 Cert	0.871	
OREAS203 Meas	0.829	
OREAS203 Cert	0.871	
OXN117 Meas		7.57
OXN117 Cert		7.679
OxP116 Meas		14.9
OxP116 Cert		14.92
OREAS 251 Meas	0.506	
OREAS 251 Cert	0.50	
OREAS 251 Meas	0.510	
OREAS 251 Cert	0.50	
OREAS 251 Meas	0.485	
OREAS 251 Cert	0.50	
OREAS 251 Meas	0.483	
OREAS 251 Cert	0.50	
289310 Orig	0.037	
289310 Dup	0.027	
289320 Orig	0.053	
289320 Dup	0.039	
289330 Orig	1.528	
289330 Dup	1.466	
289345 Orig	0.030	
289345 Dup	0.008	
289350 Split Orig PREP DUP	< 0.005	
289350 Split PREP DUP	< 0.005	
289355 Orig	0.016	
289355 Dup	0.015	
289365 Orig	< 0.005	
289365 Dup	0.006	
289379 Orig	0.005	
289379 Dup	0.006	
289389 Orig	< 0.005	
289389 Dup	< 0.005	
289399 Orig	< 0.005	
289399 Dup	< 0.005	

Analyte Symbol	Au	Au
Unit Symbol	ppm	g/tonne
Lower Limit	0.005	0.02
Method Code	FA-AA	FA-GRA
289400 Split Orig PREP DUP	< 0.005	
289400 Split PREP DUP	< 0.005	
Method Blank	0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank		< 0.02
Method Blank		< 0.02

Quality Analysis ... *Innovative Technologies*

Date Submitted: 22-Dec-16
Invoice No.: A16-13774-TD
Invoice Date: 13-Feb-17
Your Reference: TAAC-Watershed

Trelawney Augen Acquisition
Chester #1 Mine
P.O. Box 100
Gogama Ontario P0M 1W0
Canada

ATTN: District Manager Alan Smith

CERTIFICATE OF ANALYSIS

108 Rock samples were submitted for analysis.

The following analytical package(s) were requested: Code UT-6 Total Digestion ICP & ICP/MS

REPORT **A16-13774-TD**

Notes:

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E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
289301	10.9	2.02	2.08	6.40	0.97	5.47	< 0.1	76	27.1	997	6.36	1.8	50	35.0	2.0	0.9	0.7	0.31	0.46	24.3	0.86	0.05	< 0.1
289302	14.5	1.71	3.44	6.99	0.65	3.83	< 0.1	74	26.9	718	8.36	1.9	20	36.8	2.9	0.8	1.0	0.12	0.21	31.0	1.13	0.03	< 0.1
289303	10.5	1.34	2.76	6.51	1.16	4.27	< 0.1	71	23.6	856	7.32	1.8	< 10	32.4	2.2	1.0	0.8	0.06	0.20	29.8	1.13	0.02	< 0.1
289304	17.3	1.40	3.70	6.80	0.64	4.35	< 0.1	93	66.1	766	8.03	2.0	< 10	101	1.9	1.0	0.7	< 0.05	0.15	38.4	0.88	< 0.02	< 0.1
289305	15.0	0.09	5.12	4.46	0.23	4.56	< 0.1	113	358	842	7.72	2.4	< 10	448	1.0	0.5	0.4	< 0.05	< 0.05	40.8	0.90	< 0.02	< 0.1
289306	20.2	0.98	4.77	6.40	0.32	3.45	< 0.1	127	280	644	8.76	3.0	< 10	285	1.3	0.8	0.5	< 0.05	0.17	33.4	0.99	0.03	< 0.1
289307	14.3	0.86	2.95	6.78	1.50	3.10	< 0.1	127	47.6	566	6.74	4.6	< 10	42.6	1.7	1.6	0.6	< 0.05	0.19	19.1	0.93	0.39	< 0.1
289308	3.2	2.52	1.37	6.36	1.45	3.63	< 0.1	62	19.2	864	6.34	2.1	< 10	18.3	1.1	0.9	0.5	< 0.05	0.16	26.9	1.14	0.02	< 0.1
289309	3.6	2.12	1.22	6.80	1.71	3.33	< 0.1	80	15.4	762	6.34	2.2	10	16.9	1.3	1.0	0.5	0.30	0.21	25.1	1.16	0.03	< 0.1
289310	6.6	2.52	1.72	6.85	1.09	4.69	< 0.1	87	20.0	939	6.88	1.9	< 10	29.5	1.6	1.0	0.6	0.14	0.29	20.9	1.10	0.04	< 0.1
289311	10.2	2.27	2.92	6.65	0.95	3.90	< 0.1	164	45.8	692	8.08	2.7	< 10	70.7	1.4	1.3	0.6	0.23	0.39	39.8	0.92	0.27	0.1
289312	30.3	0.26	0.56	3.45	1.73	8.85	0.5	78	16.1	756	2.08	1.2	80	7.0	0.7	0.7	0.3	10.3	5.75	7.3	0.49	0.11	0.5
289313	9.4	0.02	7.98	3.34	0.06	8.07	0.3	140	653	1370	10.9	2.5	< 10	780	1.3	0.6	0.5	1.48	0.22	84.2	1.27	0.17	0.1
289314	9.5	0.01	6.95	2.96	0.14	10.3	< 0.1	155	601	1500	9.58	2.5	< 10	712	1.6	0.7	0.6	0.41	0.32	76.0	1.28	0.21	0.2
289315	12.7	0.01	7.67	3.26	0.27	9.76	0.2	145	603	1380	10.4	2.5	20	783	1.3	1.3	0.6	0.55	0.47	94.5	1.22	0.27	0.1
289316	15.3	0.01	7.90	3.56	0.42	8.49	0.2	117	736	1300	10.1	2.1	20	764	1.3	2.6	0.5	0.26	0.71	62.0	1.11	0.16	0.1
289317	13.3	0.03	8.85	3.16	0.43	7.61	0.2	164	851	1440	10.9	2.5	< 10	737	1.0	1.1	0.4	0.32	1.00	87.5	1.14	0.20	0.3
289318	14.8	0.06	9.46	3.61	0.49	7.26	0.2	128	979	1530	11.4	2.3	< 10	849	1.2	0.9	0.5	0.13	1.86	83.0	1.25	0.08	0.2
289319	20.9	0.16	5.61	2.94	0.17	10.5	0.2	125	625	1670	8.54	1.1	< 10	576	1.8	1.0	0.7	0.10	1.51	63.0	1.13	0.05	< 0.1
289320	15.3	0.02	8.20	2.73	0.29	8.59	0.1	117	680	1680	9.54	1.8	< 10	785	1.1	1.1	0.5	0.08	0.77	80.8	1.06	0.04	0.2
289321	14.1	0.02	10.1	3.23	0.52	7.71	0.2	142	633	1840	11.1	2.1	< 10	817	1.0	1.4	0.4	0.10	0.99	99.9	1.18	0.06	< 0.1
289322	12.6	0.02	10.0	3.15	0.29	6.54	0.1	96	605	1620	10.2	1.7	< 10	800	1.0	1.2	0.4	0.79	0.62	76.6	1.11	0.09	0.1
289323	15.2	0.03	10.7	3.46	0.32	7.78	< 0.1	118	654	1650	11.6	2.1	< 10	840	1.1	1.4	0.4	0.17	0.72	90.8	1.25	0.15	0.2
289324	17.9	> 3.00	1.45	8.08	2.16	4.01	< 0.1	119	24.0	801	4.87	3.8	20	11.9	2.7	1.9	1.0	0.40	1.49	15.2	1.24	0.04	< 0.1
289325	11.2	0.03	7.86	2.90	0.47	9.43	0.1	132	631	1770	10.3	2.1	< 10	804	1.1	0.9	0.5	0.31	0.92	88.8	1.33	0.14	0.4
289326	31.3	1.28	4.44	6.53	1.99	5.02	0.2	185	201	687	7.83	4.3	< 10	206	1.6	1.8	0.7	0.33	1.53	36.6	1.90	0.16	0.2
289327	25.6	0.06	2.89	2.90	0.51	13.3	1.5	114	207	1420	5.41	1.7	< 10	125	1.8	0.9	0.7	0.54	1.13	25.7	1.25	0.08	< 0.1
289328	21.8	2.48	2.58	5.57	0.85	2.28	< 0.1	64	40.2	385	5.73	3.0	< 10	36.1	0.8	1.0	0.3	0.29	0.77	16.2	0.63	0.08	0.1
289329	22.9	2.91	2.55	6.17	0.88	8.45	0.1	112	41.9	804	5.57	4.1	< 10	28.4	1.6	1.1	0.7	0.18	0.62	21.0	1.86	0.09	0.1
289330	19.6	1.16	3.48	4.46	0.79	11.1	< 0.1	164	326	1060	6.12	3.2	< 10	364	2.3	1.1	1.0	0.56	0.66	43.0	1.92	0.09	< 0.1
289331	14.1	0.03	7.23	3.36	0.99	8.83	0.1	117	522	1610	9.34	1.7	< 10	639	1.3	1.2	0.5	0.23	0.91	68.8	1.26	0.06	< 0.1
289332	12.9	0.03	8.60	3.22	0.86	6.75	0.1	187	555	1550	11.1	2.6	30	736	0.8	1.0	0.3	0.34	0.84	85.6	1.15	0.09	0.1
289333	11.8	0.03	8.53	2.96	0.65	6.99	< 0.1	181	526	1520	10.5	2.3	20	669	0.6	0.8	0.3	0.20	0.68	70.1	1.10	0.08	0.1
289334	16.1	0.05	8.54	3.13	0.39	7.31	0.1	181	546	1620	10.6	2.6	< 10	699	0.6	0.9	0.3	0.38	0.50	79.1	1.07	0.09	0.3
289335	17.8	0.30	9.22	3.62	0.39	6.11	< 0.1	187	564	1690	11.6	3.0	< 10	760	0.9	1.1	0.3	0.31	0.57	87.5	1.22	0.14	0.5
289336	31.6	2.44	1.69	7.87	3.29	3.04	0.2	141	85.5	577	4.69	3.5	< 10	44.6	2.6	3.3	1.0	0.88	11.8	15.3	1.28	1.56	2.6
289337	14.7	0.06	8.83	2.93	0.26	6.26	0.1	94	731	1570	9.76	2.3	< 10	772	0.7	1.1	0.3	0.26	0.49	72.6	0.98	0.08	0.3
289338	13.0	0.02	8.89	3.19	0.04	6.44	0.1	133	869	1510	10.4	2.5	< 10	793	0.8	1.0	0.3	0.27	0.11	90.0	1.08	0.13	0.5
289339	7.3	< 0.01	7.94	2.18	< 0.01	11.3	0.2	119	657	1890	8.90	1.5	< 10	590	1.0	0.6	0.4	0.07	< 0.05	57.4	0.86	0.21	< 0.1
289340	9.4	< 0.01	8.18	2.94	< 0.01	9.00	0.1	118	849	1650	9.64	2.1	< 10	754	1.1	0.7	0.4	< 0.05	< 0.05	76.7	1.10	0.02	0.2
289341	9.3	0.04	8.32	2.73	0.01	9.36	0.2	130	664	1540	8.87	2.0	30	704	0.8	1.0	0.3	0.26	< 0.05	75.2	1.02	0.06	0.2
289342	9.2	< 0.01	8.93	3.01	< 0.01	8.55	0.2	109	518	1630	9.18	2.4	< 10	738	0.7	1.1	0.3	0.09	< 0.05	69.2	1.14	0.03	< 0.1

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
289343	9.1	< 0.01	9.42	3.19	< 0.01	5.93	0.1	122	595	1620	10.1	2.5	< 10	775	0.7	1.1	0.3	0.10	< 0.05	75.6	1.12	0.04	0.1
289344	7.0	< 0.01	8.61	3.05	< 0.01	7.28	0.1	137	472	1620	9.84	2.2	< 10	671	0.6	0.7	0.3	< 0.05	< 0.05	74.1	1.06	0.03	< 0.1
289345	7.8	< 0.01	8.02	3.25	< 0.01	9.33	0.2	114	466	1510	8.58	2.1	< 10	656	0.7	0.7	0.3	< 0.05	< 0.05	68.8	1.11	0.03	< 0.1
289346	17.2	1.50	5.76	5.89	0.09	3.56	< 0.1	188	152	872	7.83	1.9	< 10	219	0.8	0.8	0.3	< 0.05	0.06	36.3	0.85	< 0.02	< 0.1
289347	29.6	0.21	7.48	6.95	0.04	0.24	0.1	239	26.5	268	9.02	2.0	10	26.9	0.9	0.8	0.4	0.27	0.06	38.3	0.70	0.03	< 0.1
289348	20.0	> 3.00	1.48	8.93	2.13	4.02	< 0.1	69	23.0	793	5.02	2.9	< 10	11.0	3.3	2.2	1.3	0.10	1.58	14.9	1.55	0.04	< 0.1
289349	24.1	1.37	6.74	7.50	0.21	1.17	< 0.1	233	19.5	510	9.09	1.6	< 10	25.9	1.1	1.0	0.5	0.09	0.12	35.6	0.95	< 0.02	< 0.1
289350	14.2	2.34	4.53	7.41	0.79	1.93	< 0.1	134	15.4	579	6.62	1.2	< 10	21.4	1.1	1.7	0.5	< 0.05	0.25	23.0	1.07	0.03	< 0.1
289351	21.0	0.70	5.97	6.98	0.75	2.10	< 0.1	260	18.1	624	8.52	1.8	< 10	34.8	1.3	1.5	0.5	< 0.05	0.27	26.1	0.98	< 0.02	< 0.1
289352	5.7	> 3.00	2.37	7.76	1.67	4.48	< 0.1	245	15.3	1110	6.90	4.1	< 10	6.1	1.8	2.0	0.7	0.10	0.51	29.6	1.94	0.06	< 0.1
289353	8.0	2.15	2.51	6.96	1.99	4.73	< 0.1	224	19.6	1150	7.08	2.3	< 10	16.7	2.0	1.8	0.8	0.08	0.45	36.4	1.50	0.09	< 0.1
289354	7.7	1.62	2.38	7.12	2.24	4.69	< 0.1	242	46.1	1070	8.32	1.6	40	23.6	1.7	1.2	0.6	0.28	0.36	38.0	1.12	0.20	< 0.1
289355	4.6	> 3.00	2.24	6.23	1.24	5.29	< 0.1	253	28.6	1400	7.37	2.9	10	8.5	1.3	1.0	0.6	0.21	0.19	34.1	1.36	0.14	< 0.1
289356	6.1	> 3.00	2.18	6.77	0.89	4.37	< 0.1	129	16.3	1120	8.24	1.0	< 10	16.7	0.9	0.9	0.4	0.07	0.19	31.8	1.00	0.03	< 0.1
289357	7.0	> 3.00	2.55	6.70	0.63	4.16	< 0.1	114	19.7	1130	8.04	0.7	< 10	18.0	1.0	0.9	0.4	< 0.05	0.18	32.0	0.98	0.04	< 0.1
289358	15.8	2.60	5.01	7.37	0.11	1.66	< 0.1	158	16.6	741	9.20	1.2	< 10	18.6	1.2	1.2	0.5	< 0.05	0.12	35.2	0.76	0.02	< 0.1
289359	8.8	> 3.00	3.41	6.83	0.23	3.35	< 0.1	114	11.9	1150	6.85	0.4	< 10	18.3	1.1	1.3	0.4	< 0.05	0.16	35.7	0.84	0.04	< 0.1
289360	20.8	2.12	1.70	6.53	2.87	2.76	0.3	169	66.4	573	7.51	2.5	< 10	33.1	1.8	1.8	0.7	3.04	5.07	19.0	0.89	4.83	12.1
289361	10.7	> 3.00	3.53	7.24	0.47	3.79	< 0.1	182	17.3	1220	8.82	1.2	< 10	22.8	1.3	1.6	0.5	0.65	0.26	36.2	0.94	0.04	0.3
289362	5.2	> 3.00	2.24	6.74	0.79	3.88	< 0.1	205	15.8	1270	8.62	1.2	< 10	19.0	0.9	1.1	0.4	0.16	0.34	34.9	1.04	0.02	< 0.1
289363	18.8	1.56	5.47	6.80	0.45	4.36	< 0.1	257	83.9	1180	8.14	2.7	40	98.1	1.2	1.3	0.5	0.32	0.14	35.0	1.01	0.04	< 0.1
289364	6.9	> 3.00	2.33	7.08	0.08	3.64	< 0.1	92	60.4	784	5.08	4.0	< 10	57.6	1.4	0.8	0.6	0.22	0.05	20.9	0.85	0.03	< 0.1
289365	7.9	> 3.00	2.59	7.29	0.11	3.31	< 0.1	72	60.9	810	5.39	3.1	< 10	63.8	1.7	0.8	0.7	0.07	< 0.05	21.1	0.92	0.02	< 0.1
289366	10.7	2.71	2.85	6.72	0.38	4.88	< 0.1	259	30.0	1290	8.35	1.8	< 10	25.8	2.1	0.7	0.8	< 0.05	0.64	33.7	1.02	0.03	< 0.1
289367	10.6	2.32	2.53	6.84	0.62	5.55	< 0.1	137	34.1	1280	8.85	0.6	< 10	25.1	2.3	0.7	0.9	< 0.05	0.98	38.9	1.05	0.06	< 0.1
289368	5.1	1.72	3.56	6.49	0.95	6.00	0.2	226	65.7	1810	12.7	1.5	< 10	62.3	4.1	1.0	1.5	< 0.05	1.67	50.0	1.57	0.05	< 0.1
289369	5.1	1.67	3.54	6.51	0.97	6.10	0.2	218	42.3	1750	12.4	1.5	< 10	52.5	4.1	0.9	1.5	0.10	1.98	49.6	1.56	0.04	< 0.1
289370	11.5	2.17	2.68	7.18	0.57	5.18	< 0.1	156	23.3	1280	9.29	0.8	< 10	29.8	2.6	1.1	1.0	< 0.05	0.81	44.2	1.03	0.21	< 0.1
289371	10.7	2.12	2.95	7.47	0.43	5.20	< 0.1	196	29.4	1290	9.86	0.7	< 10	32.8	3.3	0.9	1.3	< 0.05	0.51	38.3	1.19	0.06	< 0.1
289372	20.7	2.92	1.38	8.46	2.17	3.93	< 0.1	87	16.1	751	4.79	3.9	30	9.8	2.8	2.3	1.1	0.30	1.58	14.5	1.42	0.05	< 0.1
289373	8.0	2.01	2.99	7.26	0.35	6.52	< 0.1	319	28.8	1360	9.95	1.2	< 10	40.6	2.0	0.8	0.8	0.18	0.20	46.2	0.93	0.07	0.2
289374	7.8	2.95	2.29	7.07	0.59	5.17	0.1	158	20.8	1140	8.28	2.4	< 10	36.6	3.1	1.4	1.2	0.11	0.62	30.6	1.27	0.08	< 0.1
289375	11.1	2.66	2.82	7.71	0.56	4.34	< 0.1	119	19.5	1160	8.70	2.2	< 10	37.0	3.2	1.3	1.2	0.14	0.53	32.1	1.42	0.08	< 0.1
289376	10.3	2.38	2.92	7.57	0.40	4.53	< 0.1	103	19.2	1140	9.05	1.5	< 10	38.0	3.2	1.0	1.2	< 0.05	0.18	36.5	1.32	0.07	< 0.1
289377	11.5	2.90	2.63	7.35	0.43	4.12	< 0.1	158	24.1	987	7.40	3.8	< 10	30.2	3.7	1.1	1.4	0.08	0.35	26.1	1.46	0.05	< 0.1
289378	12.7	2.25	3.32	6.83	0.28	3.58	0.1	115	33.5	1340	9.13	2.5	< 10	46.4	3.2	0.9	1.2	< 0.05	0.19	34.5	1.09	< 0.02	< 0.1
289379	8.3	2.84	1.73	7.17	0.52	4.58	< 0.1	94	24.2	919	6.38	3.2	< 10	27.4	2.8	1.0	1.1	< 0.05	0.42	24.3	1.19	0.07	< 0.1
289380	20.0	1.16	4.81	6.25	0.15	1.90	< 0.1	123	19.0	933	7.93	2.3	< 10	31.4	2.5	0.9	1.0	< 0.05	0.11	28.5	0.88	0.05	< 0.1
289381	7.8	2.74	1.73	7.36	0.37	4.22	< 0.1	59	26.4	1070	7.86	2.0	10	25.6	3.4	1.1	1.3	0.30	0.22	23.2	1.42	0.09	< 0.1
289382	7.6	2.59	1.66	7.67	0.24	5.19	< 0.1	63	21.2	1080	7.42	1.9	< 10	26.1	3.4	1.0	1.3	< 0.05	0.14	22.3	1.42	0.08	< 0.1
289383	7.1	> 3.00	1.49	7.87	0.38	4.62	< 0.1	58	25.4	1050	6.83	1.9	< 10	21.9	3.4	1.0	1.3	< 0.05	0.24	20.0	1.46	0.07	< 0.1
289384	17.1	0.68	1.27	4.05	2.87	4.01	< 0.1	182	38.6	4170	25.6	3.5	140	64.6	2.0	0.8	0.8	1.37	0.69	460	1.86	8.70	2.2

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
289385	7.1	> 3.00	1.98	8.00	0.49	5.57	0.1	69	16.9	998	7.38	2.0	< 10	31.0	3.8	1.5	1.4	0.29	0.33	22.7	2.02	0.08	< 0.1
289386	9.5	2.14	1.94	6.38	0.33	4.14	< 0.1	57	21.8	1290	7.77	0.7	30	26.8	2.3	0.9	0.9	0.24	0.28	24.7	0.92	0.09	< 0.1
289387	9.7	2.60	2.03	7.49	0.83	5.42	< 0.1	78	14.3	1080	7.97	1.5	20	29.0	3.2	1.2	1.2	0.12	0.91	29.8	1.45	0.11	< 0.1
289388	12.4	2.53	2.58	6.59	0.32	3.61	< 0.1	54	48.8	924	7.27	2.1	< 10	25.3	3.2	1.2	1.2	0.06	0.36	25.9	1.08	0.04	< 0.1
289389	8.0	> 3.00	1.47	6.63	0.31	6.08	0.1	30	11.0	1160	6.17	1.8	< 10	17.0	3.2	1.4	1.2	< 0.05	0.19	19.3	1.48	0.09	< 0.1
289390	9.3	2.85	1.93	6.84	0.31	5.63	< 0.1	77	13.6	1180	7.75	1.7	< 10	30.8	2.7	1.3	1.0	< 0.05	0.20	32.3	1.11	0.03	< 0.1
289391	15.6	2.18	3.83	7.02	0.26	3.51	< 0.1	88	12.4	967	7.76	1.5	< 10	32.4	2.2	1.1	0.8	< 0.05	0.10	27.7	0.79	0.04	< 0.1
289392	24.9	0.71	5.62	7.27	0.33	1.51	< 0.1	175	14.2	911	10.2	3.1	< 10	34.7	2.9	1.0	1.1	< 0.05	0.13	36.2	0.94	0.03	< 0.1
289393	14.6	1.27	3.17	6.95	1.10	3.30	0.3	82	17.9	953	7.93	2.0	< 10	35.1	3.1	1.4	1.2	< 0.05	0.22	29.6	1.08	< 0.02	< 0.1
289394	13.0	1.69	3.18	6.86	0.66	2.87	0.1	106	18.3	887	7.82	3.0	10	22.7	3.2	1.0	1.2	0.26	0.14	27.7	1.05	0.04	< 0.1
289395	9.1	2.11	1.73	6.56	0.48	4.87	< 0.1	55	13.1	1180	8.56	1.4	< 10	19.9	3.1	0.9	1.2	0.06	0.40	29.1	1.25	0.07	< 0.1
289396	18.9	2.55	1.39	7.88	1.85	3.59	< 0.1	58	13.4	719	4.83	2.5	< 10	12.4	2.9	2.1	1.1	< 0.05	1.54	14.7	1.41	0.04	< 0.1
289397	8.4	2.56	1.72	6.73	0.53	5.26	< 0.1	63	11.8	1360	7.69	1.6	< 10	36.3	3.2	0.9	1.2	< 0.05	0.50	32.0	1.26	0.06	< 0.1
289398	7.0	2.46	1.73	7.19	0.55	4.52	0.1	59	15.5	1250	9.12	1.7	< 10	19.2	3.7	1.0	1.4	< 0.05	0.54	32.9	1.34	0.08	< 0.1
289399	11.5	2.26	2.52	7.42	0.48	4.13	< 0.1	95	81.6	1190	9.62	2.3	< 10	60.2	2.6	0.8	1.0	< 0.05	0.40	37.9	1.04	0.07	< 0.1
289400	7.5	2.86	1.39	7.18	0.60	5.15	< 0.1	47	20.0	834	6.71	1.7	< 10	20.9	3.4	1.0	1.3	< 0.05	0.55	19.6	1.49	0.08	< 0.1
289401	10.2	> 3.00	1.42	6.59	0.53	5.38	0.1	52	11.4	1160	6.40	2.6	< 10	17.2	3.0	1.2	1.1	< 0.05	0.33	20.5	1.18	0.07	< 0.1
289402	18.3	0.35	1.86	2.72	0.29	2.88	< 0.1	174	83.8	661	5.48	0.2	30	62.7	1.7	0.2	0.6	0.21	0.85	25.5	0.93	0.06	< 0.1
289403	6.5	2.51	1.88	7.31	0.61	5.03	0.1	93	16.1	1260	9.02	2.3	< 10	28.3	3.9	1.0	1.4	0.14	0.49	32.6	1.33	0.09	< 0.1
289404	9.5	2.01	1.98	6.29	0.60	5.42	< 0.1	176	24.4	1230	9.04	2.5	< 10	34.1	2.4	0.8	0.9	< 0.05	0.43	30.3	0.95	0.05	< 0.1
289405	9.1	2.41	2.46	6.60	0.51	5.48	< 0.1	126	17.7	1230	8.14	1.6	< 10	43.1	2.5	1.1	0.9	0.80	0.19	33.4	0.92	0.02	< 0.1
289406	12.7	2.76	2.70	6.76	1.23	6.21	0.1	145	22.0	1170	7.49	2.9	20	30.1	2.8	1.6	1.1	< 0.05	1.43	36.8	2.38	0.03	< 0.1
289407	21.2	0.43	3.91	6.45	1.11	1.86	< 0.1	83	18.9	971	8.83	1.8	< 10	27.0	2.5	1.3	0.9	< 0.05	0.38	32.0	0.94	0.06	< 0.1
289408	20.2	0.34	4.09	6.52	0.78	2.97	< 0.1	119	16.9	1110	9.89	2.3	< 10	25.1	3.1	1.0	1.1	< 0.05	0.21	35.9	0.95	< 0.02	< 0.1

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
289301	60.0	16.9	3.7	27.5	17.7	154	64	0.3	1.09	< 0.1	3	0.2	0.5	191	16.3	32.2	4.0	14.6	3.3	4.1	0.6	3.7	65.3
289302	110	19.3	1.2	19.1	24.3	99.8	70	0.3	0.67	< 0.1	< 1	0.2	0.2	123	19.7	38.4	4.8	17.3	3.6	4.6	0.7	4.6	61.4
289303	75.7	17.9	2.3	36.8	20.1	113	69	0.2	0.45	< 0.1	< 1	0.1	0.1	183	21.7	43.1	5.4	19.9	4.1	4.6	0.6	3.7	23.1
289304	103	18.2	4.0	19.3	17.3	76.9	74	0.2	0.35	< 0.1	< 1	0.2	< 0.1	98	16.4	33.0	4.2	15.5	3.5	3.9	0.5	3.3	52.9
289305	117	14.4	30.6	7.0	9.2	73.9	107	0.2	0.37	< 0.1	< 1	0.1	< 0.1	37	16.3	33.3	4.4	16.1	3.1	3.1	0.4	1.9	18.8
289306	135	18.3	8.9	9.5	11.9	115	119	1.1	0.68	< 0.1	< 1	0.3	< 0.1	48	20.4	40.9	5.3	19.5	4.0	3.7	0.5	2.5	9.3
289307	81.8	18.2	5.7	44.8	15.5	84.5	167	4.2	1.20	< 0.1	8	0.5	< 0.1	188	21.1	44.2	5.6	20.5	4.2	4.3	0.6	3.1	4.2
289308	32.7	18.4	4.8	40.2	10.7	199	82	0.2	0.20	< 0.1	< 1	0.1	< 0.1	163	21.8	43.7	5.6	20.7	4.4	4.3	0.5	2.4	118
289309	27.1	19.1	14.3	49.2	11.8	205	82	0.3	1.74	< 0.1	1	< 0.1	0.3	184	21.9	44.5	5.6	21.4	4.6	4.3	0.5	2.5	13.8
289310	45.4	19.1	12.3	30.9	14.6	198	68	0.2	0.65	< 0.1	< 1	< 0.1	< 0.1	134	19.3	39.4	5.1	19.6	4.4	4.3	0.5	3.0	131
289311	66.3	18.9	36.0	26.2	13.4	154	94	0.9	0.75	< 0.1	4	0.2	< 0.1	62	16.3	33.7	4.3	16.4	3.5	3.7	0.5	2.6	75.2
289312	48.9	7.7	24.4	67.0	7.0	222	54	1.8	9.44	< 0.1	< 1	2.7	3.5	225	9.2	18.2	2.3	8.2	1.4	1.5	0.2	1.3	84.1
289313	152	12.5	69.7	4.3	12.8	105	106	0.5	0.55	< 0.1	< 1	0.4	0.4	6	21.3	42.7	5.6	20.6	4.0	4.1	0.5	2.6	200
289314	114	11.6	34.3	9.1	15.9	145	105	0.4	0.43	< 0.1	< 1	0.2	0.1	10	19.8	40.1	5.3	19.6	3.9	4.2	0.6	3.1	242
289315	131	12.2	47.5	16.6	13.2	155	102	0.4	1.36	< 0.1	< 1	0.3	0.6	17	18.5	39.2	5.2	19.3	3.8	4.1	0.5	2.8	210
289316	141	12.6	6.5	25.0	12.4	113	80	0.3	0.66	< 0.1	1	0.1	0.3	25	17.4	36.0	4.8	18.0	3.5	3.8	0.5	2.7	213
289317	137	11.2	26.6	24.4	9.8	97.3	99	3.8	0.74	< 0.1	< 1	0.6	0.2	25	17.6	35.3	4.6	17.1	3.4	3.5	0.4	2.2	216
289318	140	12.8	0.5	30.7	11.3	115	91	0.2	0.39	< 0.1	1	0.2	0.1	30	19.2	39.6	5.2	19.6	3.7	3.8	0.5	2.5	31.5
289319	112	10.3	114	11.8	17.2	115	46	0.1	0.30	< 0.1	< 1	0.1	< 0.1	27	16.0	32.9	4.3	16.1	3.2	4.0	0.6	3.5	191
289320	111	9.8	147	16.9	11.1	144	75	0.2	0.28	< 0.1	< 1	0.3	< 0.1	24	16.3	33.6	4.4	16.1	3.1	3.4	0.4	2.4	130
289321	136	10.7	120	27.1	9.1	162	89	0.2	0.28	< 0.1	< 1	0.4	< 0.1	43	17.9	36.4	4.7	17.7	3.3	3.4	0.4	2.2	181
289322	131	10.8	142	15.2	9.1	183	67	0.3	0.32	< 0.1	< 1	0.5	< 0.1	29	17.5	36.6	4.8	17.9	3.3	3.5	0.4	2.2	210
289323	131	11.7	234	16.1	9.8	190	88	0.3	0.25	< 0.1	< 1	0.5	< 0.1	36	19.9	40.9	5.3	19.7	3.6	3.7	0.5	2.3	206
289324	102	19.7	11.4	63.7	23.7	532	150	6.3	2.61	< 0.1	2	< 0.1	0.4	621	21.1	49.6	6.3	24.3	4.8	5.6	0.8	4.9	24.1
289325	108	10.4	390	24.3	10.8	206	91	0.9	1.02	< 0.1	< 1	0.3	0.2	65	17.7	36.3	4.7	17.9	3.5	3.5	0.4	2.4	311
289326	72.6	18.8	292	59.0	15.5	133	183	5.5	1.77	< 0.1	2	2.2	0.2	73	35.1	71.1	9.5	35.4	6.6	6.2	0.7	3.5	136
289327	205	7.9	770	18.3	19.1	144	70	4.1	2.64	< 0.1	1	3.9	0.2	120	16.2	34.1	4.6	17.8	3.7	4.4	0.6	3.6	105
289328	50.2	14.3	571	26.5	7.6	69.8	126	4.7	4.13	< 0.1	2	2.9	0.2	65	13.5	27.0	3.4	11.9	2.1	2.2	0.3	1.5	32.6
289329	46.6	14.7	128	25.6	17.2	151	176	4.9	1.51	< 0.1	2	2.1	0.2	128	34.8	67.9	8.9	33.1	6.1	5.8	0.6	3.5	66.8
289330	49.0	13.3	362	26.5	25.2	103	135	7.7	2.19	< 0.1	2	5.1	0.3	104	34.9	67.1	8.9	33.8	6.4	7.0	0.9	4.8	223
289331	96.2	11.0	252	39.4	12.9	180	67	0.4	0.30	< 0.1	9	0.2	< 0.1	104	20.3	41.4	5.4	20.8	4.3	4.2	0.5	2.7	240
289332	117	11.5	127	38.1	7.0	178	101	0.4	1.16	< 0.1	< 1	0.3	0.5	67	19.0	38.4	5.1	18.7	3.5	3.3	0.3	1.7	154
289333	116	10.5	15.1	27.7	5.8	199	95	0.3	0.71	< 0.1	< 1	0.2	0.3	47	17.1	35.4	4.6	17.2	3.3	2.8	0.3	1.5	205
289334	120	11.0	15.2	17.9	5.6	217	103	2.4	0.96	< 0.1	< 1	0.4	0.2	33	17.0	36.0	4.6	17.1	3.2	2.7	0.3	1.5	215
289335	138	12.3	17.5	16.9	7.6	232	123	5.0	0.80	< 0.1	< 1	0.7	0.1	50	20.6	42.8	5.6	20.5	3.8	3.6	0.4	1.9	170
289336	136	13.0	19.8	159	23.4	316	118	14.4	101	0.2	6	0.4	0.1	879	37.2	69.7	8.4	28.4	5.0	5.3	0.7	4.7	2520
289337	128	9.6	8.9	13.1	6.0	235	104	2.0	2.08	< 0.1	< 1	0.6	< 0.1	64	17.4	35.5	4.6	16.7	2.9	2.8	0.3	1.5	133
289338	135	11.1	19.5	2.0	6.9	255	105	6.8	1.02	< 0.1	< 1	0.8	< 0.1	13	17.6	36.7	4.7	17.4	3.3	3.1	0.3	1.8	172
289339	84.3	7.6	< 0.1	0.4	9.0	498	61	0.3	0.33	< 0.1	< 1	< 0.1	< 0.1	24	11.6	24.9	3.3	12.2	2.5	2.6	0.4	2.1	154
289340	109	10.1	1.2	0.4	9.6	331	82	0.3	0.46	< 0.1	< 1	< 0.1	< 0.1	13	16.6	34.6	4.5	16.6	3.2	3.2	0.4	2.3	189
289341	97.5	9.5	4.2	0.5	6.9	406	80	0.2	1.20	< 0.1	< 1	< 0.1	0.4	7	15.1	31.6	4.1	15.1	2.9	2.8	0.3	1.7	367
289342	105	10.2	1.4	0.5	5.8	369	92	0.2	0.74	< 0.1	< 1	< 0.1	0.3	3	17.3	36.0	4.6	16.7	3.3	2.9	0.3	1.6	233

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
289343	115	10.8	4.2	0.4	5.9	241	103	0.3	0.57	< 0.1	< 1	< 0.1	0.2	3	18.3	38.0	5.0	18.3	3.2	3.0	0.3	1.6	141
289344	99.9	10.6	3.9	0.3	5.4	276	82	0.2	0.36	< 0.1	< 1	< 0.1	0.1	2	16.1	33.8	4.4	16.5	3.1	2.8	0.3	1.5	202
289345	93.7	11.3	15.5	0.3	6.4	311	82	0.2	0.33	< 0.1	< 1	< 0.1	< 0.1	3	17.0	35.3	4.6	17.1	3.3	3.1	0.3	1.7	146
289346	109	18.0	2.0	2.4	7.5	169	70	2.8	3.72	< 0.1	< 1	< 0.1	< 0.1	35	13.6	28.6	3.6	13.7	2.7	2.7	0.3	1.7	52.4
289347	194	19.9	11.5	1.2	8.3	8.4	64	0.3	2.07	< 0.1	4	< 0.1	0.4	13	13.8	29.7	3.9	14.5	3.2	2.9	0.4	1.9	3.7
289348	96.6	19.3	2.6	79.8	29.4	544	120	0.8	0.99	< 0.1	< 1	< 0.1	0.2	653	32.9	68.5	9.1	33.6	6.4	7.1	1.0	6.1	22.4
289349	148	20.7	1.7	5.4	10.4	61.9	47	0.3	0.65	< 0.1	< 1	< 0.1	0.1	75	16.7	35.6	4.7	17.7	4.1	3.6	0.4	2.3	6.9
289350	98.5	18.2	0.5	21.9	10.2	107	36	0.2	0.43	< 0.1	2	< 0.1	< 0.1	304	18.5	38.7	5.0	18.7	4.2	3.8	0.4	2.3	6.5
289351	127	18.1	0.3	20.9	12.1	84.6	52	0.8	0.41	< 0.1	3	< 0.1	< 0.1	290	14.8	30.2	3.8	14.5	3.3	3.3	0.4	2.6	2.7
289352	32.5	14.9	3.9	48.9	16.6	236	164	4.5	0.45	< 0.1	3	< 0.1	< 0.1	809	36.5	74.7	10.0	37.7	6.9	6.3	0.7	3.7	29.8
289353	44.7	16.3	23.8	52.6	18.2	201	80	1.0	0.42	< 0.1	3	0.3	< 0.1	402	26.8	54.6	7.1	26.7	5.1	5.2	0.7	3.9	62.0
289354	48.3	18.8	95.0	52.4	14.3	168	52	0.4	1.10	< 0.1	4	< 0.1	0.6	142	17.5	37.2	4.8	18.5	3.8	3.9	0.5	3.1	67.6
289355	51.6	16.5	101	25.0	12.7	203	112	5.4	1.31	< 0.1	2	0.3	0.3	143	24.8	52.2	6.9	26.5	4.8	4.7	0.5	2.9	68.1
289356	62.3	15.2	4.6	20.2	9.0	226	30	0.2	0.36	< 0.1	< 1	< 0.1	0.1	535	12.9	27.0	3.4	13.0	2.9	3.6	0.5	2.5	118
289357	67.1	15.9	2.5	14.8	9.6	220	20	< 0.1	0.22	< 0.1	< 1	< 0.1	< 0.1	362	13.1	27.7	3.7	13.8	3.0	3.5	0.5	2.4	55.4
289358	130	20.8	< 0.1	2.4	11.0	93.9	40	< 0.1	0.19	< 0.1	2	< 0.1	< 0.1	33	15.4	32.1	4.1	15.7	3.4	3.4	0.4	2.4	5.2
289359	77.2	18.7	4.2	7.0	10.2	167	13	< 0.1	0.15	< 0.1	1	< 0.1	< 0.1	77	13.9	28.8	3.7	14.2	3.4	3.3	0.4	2.3	67.7
289360	108	15.8	9.2	88.9	16.1	374	92	10.5	521	0.8	15	1.3	0.5	140	21.3	39.9	4.9	17.0	3.1	3.7	0.5	3.2	> 10000
289361	88.2	19.0	5.2	12.7	11.5	156	36	0.7	7.99	< 0.1	< 1	< 0.1	0.1	248	14.7	31.4	4.0	15.3	3.5	3.8	0.5	2.6	72.3
289362	57.1	16.8	11.5	20.4	8.1	196	36	1.0	2.37	< 0.1	7	< 0.1	< 0.1	408	14.3	29.8	3.8	14.6	3.2	3.5	0.4	2.2	65.9
289363	128	16.9	11.4	10.1	11.1	112	96	3.3	2.53	< 0.1	1	< 0.1	0.5	253	17.2	34.9	4.4	16.6	3.6	3.7	0.5	2.5	29.1
289364	76.5	18.1	3.2	1.0	12.6	159	156	1.5	1.35	< 0.1	< 1	< 0.1	0.2	29	18.2	37.0	4.6	16.7	3.5	3.9	0.5	2.9	155
289365	85.2	17.8	< 0.1	2.6	15.3	149	124	0.2	0.66	< 0.1	3	< 0.1	0.1	45	17.6	36.3	4.6	17.1	3.6	4.3	0.6	3.5	76.5
289366	118	18.2	3.3	14.5	18.1	168	53	0.9	0.61	< 0.1	< 1	< 0.1	< 0.1	126	12.7	26.2	3.3	12.7	3.0	3.8	0.6	3.8	78.0
289367	111	17.9	5.7	26.3	19.7	248	19	< 0.1	0.34	< 0.1	< 1	< 0.1	< 0.1	194	11.9	25.4	3.3	12.6	3.1	4.0	0.6	4.1	67.0
289368	153	18.0	< 0.1	45.4	33.8	140	58	< 0.1	0.25	0.1	< 1	< 0.1	< 0.1	208	16.8	35.9	4.7	18.7	4.6	6.1	1.0	6.7	209
289369	147	17.4	< 0.1	47.8	33.9	151	55	0.1	0.25	0.1	< 1	< 0.1	< 0.1	229	16.9	35.8	4.6	19.0	4.3	6.0	1.0	6.7	204
289370	119	18.4	5.5	24.2	21.9	245	27	< 0.1	0.15	< 0.1	< 1	< 0.1	< 0.1	150	13.1	28.8	3.7	14.5	3.4	4.3	0.7	4.5	80.6
289371	124	19.3	4.7	15.9	27.7	235	21	0.3	0.24	< 0.1	< 1	< 0.1	< 0.1	114	15.1	33.5	4.6	18.2	4.5	5.8	0.9	5.8	68.1
289372	94.9	18.9	< 0.1	72.8	24.8	525	149	2.5	1.25	< 0.1	< 1	< 0.1	0.5	729	26.0	57.6	7.5	27.4	5.1	6.1	0.8	5.2	24.9
289373	114	20.4	8.8	6.9	18.0	193	40	1.1	0.82	< 0.1	3	< 0.1	0.3	87	11.3	23.7	3.0	11.3	2.7	3.5	0.5	3.6	149
289374	101	19.7	4.4	14.8	27.3	164	92	2.5	0.79	< 0.1	2	< 0.1	0.2	193	17.1	35.8	4.5	17.2	4.1	5.2	0.9	5.4	67.0
289375	119	19.8	1.9	18.0	28.2	130	84	1.2	0.57	< 0.1	2	< 0.1	< 0.1	190	17.6	36.1	4.6	17.7	4.1	5.4	0.8	5.5	41.5
289376	118	20.6	2.1	10.3	27.8	149	58	0.1	0.27	< 0.1	1	< 0.1	< 0.1	111	17.6	35.8	4.6	17.2	4.0	5.4	0.8	5.5	101
289377	104	19.4	2.0	10.5	32.3	144	134	3.3	0.55	< 0.1	3	0.1	< 0.1	164	22.2	47.3	5.8	21.4	4.5	6.0	0.9	6.2	21.6
289378	129	19.4	< 0.1	8.1	28.0	55.9	89	0.2	0.19	< 0.1	< 1	< 0.1	< 0.1	95	16.6	35.5	4.6	17.7	4.3	5.7	0.9	5.8	34.3
289379	76.9	18.2	< 0.1	16.8	24.9	185	128	0.2	0.16	< 0.1	< 1	< 0.1	< 0.1	183	19.5	39.0	4.8	17.4	3.8	4.9	0.7	4.8	88.8
289380	147	17.8	< 0.1	3.9	23.3	38.5	79	< 0.1	0.09	< 0.1	< 1	< 0.1	< 0.1	44	13.8	28.5	3.5	13.4	3.2	4.0	0.6	4.4	29.4
289381	78.8	20.3	< 0.1	10.5	31.6	183	78	0.2	1.24	< 0.1	< 1	< 0.1	0.6	126	21.2	44.6	5.9	21.8	4.9	6.3	1.0	6.1	30.0
289382	74.5	21.5	< 0.1	6.0	30.9	222	73	0.2	0.54	< 0.1	< 1	< 0.1	0.2	67	22.0	46.5	6.0	22.1	4.9	6.0	0.9	6.0	36.9
289383	66.6	20.0	0.3	10.7	31.4	190	69	0.6	0.52	< 0.1	2	< 0.1	< 0.1	138	21.8	47.0	6.2	23.0	5.1	6.4	0.9	6.1	35.2
289384	34.3	16.4	408	76.1	17.9	144	146	2.7	245	0.3	11	6.3	0.6	37	107	118	10.1	27.3	3.7	4.6	0.6	3.5	8330

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
289385	81.4	19.7	4.0	12.1	34.2	185	66	0.5	4.05	< 0.1	2	< 0.1	0.1	136	23.4	49.9	6.3	23.5	5.1	6.4	1.0	6.5	26.6
289386	96.6	16.2	1.0	10.6	20.2	203	27	0.1	1.26	< 0.1	< 1	< 0.1	0.5	112	16.1	33.0	4.1	15.1	3.1	4.1	0.6	3.9	20.9
289387	93.8	18.4	4.7	30.1	28.3	312	52	0.2	0.91	< 0.1	< 1	< 0.1	0.3	256	25.8	52.6	6.7	24.2	4.9	5.9	0.9	5.6	59.0
289388	101	16.8	0.3	10.6	28.3	90.7	82	< 0.1	0.50	< 0.1	< 1	< 0.1	0.2	105	19.3	40.0	5.0	17.9	3.9	5.1	0.8	5.4	87.7
289389	73.4	16.3	< 0.1	9.4	28.8	161	68	< 0.1	0.41	< 0.1	< 1	< 0.1	< 0.1	109	17.6	36.9	4.6	16.9	3.8	5.0	0.8	5.5	14.6
289390	84.0	17.6	2.0	9.3	23.2	92.3	61	0.1	0.39	< 0.1	< 1	< 0.1	0.1	119	14.0	28.6	3.6	13.6	3.3	4.5	0.7	4.5	29.7
289391	148	18.4	1.9	6.4	20.2	50.4	51	0.1	0.32	< 0.1	< 1	< 0.1	< 0.1	87	13.6	28.4	3.6	13.1	3.1	3.9	0.6	3.8	120
289392	170	18.8	< 0.1	8.0	25.3	18.4	109	1.4	0.39	< 0.1	< 1	< 0.1	< 0.1	167	15.3	32.0	4.0	14.9	3.6	4.4	0.7	4.9	42.9
289393	119	14.7	0.7	25.4	26.1	25.2	73	< 0.1	0.14	< 0.1	3	< 0.1	< 0.1	526	16.5	34.7	4.4	16.8	3.9	5.0	0.8	5.2	128
289394	119	16.2	0.7	15.3	29.3	32.1	108	0.9	0.92	< 0.1	< 1	< 0.1	0.3	307	19.0	39.3	4.9	19.0	4.5	5.5	0.9	5.6	115
289395	85.9	18.3	< 0.1	17.5	26.8	146	57	< 0.1	0.30	< 0.1	< 1	< 0.1	0.1	138	17.1	36.2	4.6	17.3	4.1	5.0	0.8	5.4	100
289396	86.9	15.9	< 0.1	73.8	25.9	493	103	0.2	0.25	< 0.1	< 1	< 0.1	0.1	610	28.4	60.6	7.7	29.1	5.8	6.4	0.9	5.5	27.5
289397	85.3	17.6	< 0.1	18.5	27.2	122	57	< 0.1	0.15	< 0.1	< 1	< 0.1	< 0.1	162	18.2	38.3	4.8	17.8	4.1	5.5	0.9	5.4	138
289398	90.0	19.7	< 0.1	17.9	33.1	178	56	< 0.1	0.15	< 0.1	< 1	< 0.1	< 0.1	146	20.0	43.6	5.6	21.2	4.9	6.3	0.9	6.3	139
289399	118	19.8	0.2	15.4	22.1	141	94	0.9	1.00	0.1	< 1	< 0.1	< 0.1	118	13.0	27.7	3.5	13.5	3.1	4.2	0.6	4.3	81.6
289400	75.9	18.7	< 0.1	18.0	29.8	191	63	1.7	0.44	< 0.1	1	< 0.1	< 0.1	182	19.7	42.4	5.4	20.5	4.7	5.9	0.9	5.9	29.1
289401	78.6	17.4	2.7	9.4	25.0	159	99	2.6	0.49	< 0.1	1	< 0.1	< 0.1	169	16.4	36.7	4.8	18.3	4.0	5.3	0.8	5.2	15.3
289402	73.8	8.6	< 0.1	10.1	15.3	54.6	10	0.1	1.35	< 0.1	< 1	< 0.1	0.5	133	16.0	33.8	4.3	16.0	3.0	3.1	0.5	2.9	81.0
289403	116	19.1	2.5	19.8	33.4	173	95	0.3	0.76	0.1	1	< 0.1	0.2	168	22.4	47.9	6.1	23.1	5.0	6.3	1.0	6.5	104
289404	101	16.4	< 0.1	18.9	21.4	113	96	0.5	0.54	< 0.1	< 1	< 0.1	0.2	154	12.8	26.9	3.5	13.1	2.9	3.8	0.6	4.1	18.1
289405	101	17.8	0.5	13.5	23.5	73.4	54	0.5	1.06	< 0.1	3	0.4	0.2	132	12.4	25.8	3.3	12.6	2.9	3.9	0.6	4.2	42.0
289406	105	15.3	< 0.1	50.0	27.4	94.8	121	0.1	0.62	< 0.1	3	< 0.1	< 0.1	338	41.1	85.7	11.3	44.0	8.3	8.5	1.0	5.5	152
289407	137	12.9	< 0.1	30.0	21.7	27.0	65	< 0.1	0.17	< 0.1	< 1	< 0.1	< 0.1	549	13.7	27.9	3.4	13.3	3.1	4.0	0.6	4.1	86.5
289408	148	15.1	< 0.1	17.9	26.8	25.2	83	< 0.1	0.14	< 0.1	< 1	< 0.1	< 0.1	392	12.4	26.4	3.4	13.1	3.1	4.2	0.7	4.8	9.6

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
289301	< 0.1	0.3	2.1	0.3	0.1	0.5	0.002	0.26	2.3	22	2.7	1.2	0.173	0.039	0.04
289302	< 0.1	0.4	3.2	0.4	0.1	0.4	0.002	0.08	2.1	22	3.2	0.9	0.161	0.043	0.03
289303	< 0.1	0.3	2.4	0.3	0.1	0.4	0.001	0.15	1.4	22	2.8	0.8	0.144	0.041	0.07
289304	< 0.1	0.3	2.1	0.3	0.1	0.3	0.002	0.06	1.3	24	2.8	0.7	0.206	0.042	0.08
289305	< 0.1	0.2	1.2	0.2	0.1	0.2	0.003	< 0.05	1.0	20	1.7	0.5	0.220	0.042	< 0.01
289306	< 0.1	0.2	1.5	0.2	0.2	0.5	0.003	< 0.05	1.6	25	3.1	0.8	0.363	0.049	0.06
289307	0.2	0.3	1.9	0.3	0.4	0.9	0.001	0.23	1.7	19	5.3	1.5	0.404	0.046	0.08
289308	< 0.1	0.2	1.3	0.2	0.1	0.3	0.001	0.18	2.0	20	3.1	0.8	0.272	0.050	0.14
289309	< 0.1	0.2	1.4	0.2	0.1	0.5	0.001	0.26	2.0	19	3.6	1.0	0.257	0.045	0.10
289310	< 0.1	0.2	1.8	0.2	0.1	0.4	0.002	0.14	2.5	23	2.9	0.9	0.156	0.041	0.26
289311	< 0.1	0.2	1.5	0.2	0.1	0.8	0.002	0.12	2.7	23	2.8	0.7	0.529	0.056	2.57
289312	< 0.1	< 0.1	0.8	0.1	0.3	6.5	0.002	1.11	19.3	8	1.6	0.5	0.179	0.042	0.69
289313	< 0.1	0.2	1.3	0.2	0.1	0.6	0.002	0.11	7.5	27	1.5	0.4	0.387	0.041	1.13
289314	< 0.1	0.2	1.5	0.2	0.1	0.3	0.002	0.07	3.8	25	1.4	0.3	0.405	0.036	1.10
289315	< 0.1	0.2	1.3	0.2	0.1	0.7	0.002	0.27	4.1	26	1.4	0.4	0.367	0.036	1.63
289316	< 0.1	0.2	1.3	0.2	0.1	0.6	0.001	0.24	3.8	29	1.5	0.4	0.322	0.037	0.77
289317	< 0.1	0.1	1.0	0.1	0.2	0.8	0.001	0.27	8.2	26	1.3	0.3	0.575	0.043	1.12
289318	< 0.1	0.2	1.2	0.2	0.1	0.2	0.002	0.29	3.4	27	1.6	0.4	0.537	0.042	0.59
289319	< 0.1	0.2	1.7	0.2	0.1	0.2	0.002	0.09	6.1	23	1.3	0.3	0.375	0.038	0.26
289320	< 0.1	0.2	1.1	0.1	0.1	0.1	0.001	0.16	3.3	22	1.2	0.3	0.292	0.033	0.52
289321	< 0.1	0.1	1.0	0.2	0.1	0.2	0.001	0.21	3.6	25	1.3	0.3	0.320	0.035	0.52
289322	< 0.1	0.1	1.0	0.1	0.1	0.3	0.003	0.13	3.9	25	1.4	0.3	0.306	0.040	0.71
289323	< 0.1	0.1	1.1	0.1	0.1	0.3	0.002	0.13	4.8	25	1.6	0.3	0.344	0.042	0.85
289324	0.5	0.4	2.8	0.4	0.4	0.9	0.001	0.54	14.5	15	2.7	1.3	0.402	0.110	0.12
289325	< 0.1	0.2	1.1	0.1	0.1	0.5	0.001	0.22	6.1	24	1.4	0.3	0.387	0.039	1.18
289326	< 0.1	0.2	1.6	0.2	0.4	10.3	0.001	0.38	9.0	20	4.2	1.3	0.525	0.180	2.26
289327	< 0.1	0.3	1.7	0.2	0.4	14.8	0.001	0.12	4.3	14	1.5	0.5	0.292	0.046	1.03
289328	< 0.1	0.1	1.0	0.1	0.4	11.9	< 0.001	0.15	3.8	10	1.8	0.5	0.324	0.029	1.83
289329	< 0.1	0.2	1.6	0.2	0.5	22.5	< 0.001	0.15	5.1	11	4.2	1.3	0.342	0.148	1.82
289330	< 0.1	0.3	1.9	0.2	0.6	35.2	0.002	0.25	7.9	18	2.9	0.9	0.509	0.108	1.81
289331	< 0.1	0.2	1.2	0.2	0.1	1.8	0.002	0.34	4.5	25	1.4	0.4	0.329	0.040	0.99
289332	< 0.1	0.1	0.8	0.1	0.1	0.8	0.002	0.46	2.4	26	1.4	0.4	0.421	0.038	0.92
289333	< 0.1	< 0.1	0.7	< 0.1	< 0.1	0.5	0.001	0.34	1.8	23	1.3	0.3	0.457	0.034	0.74
289334	0.2	0.1	0.7	< 0.1	0.2	0.6	0.001	0.16	1.8	25	1.4	0.3	0.503	0.041	0.80
289335	0.2	0.1	1.0	0.1	0.8	0.6	0.001	0.15	2.0	20	1.7	0.4	0.591	0.049	0.76
289336	0.4	0.4	2.7	0.4	0.7	1.6	0.003	1.24	28.1	14	17.4	5.2	0.449	0.099	0.35
289337	0.3	0.1	0.7	0.1	0.1	0.4	< 0.001	0.09	1.5	16	1.4	0.3	0.439	0.045	0.32
289338	< 0.1	0.1	0.8	0.1	0.4	0.6	< 0.001	0.20	1.7	17	1.5	0.4	0.641	0.047	0.46
289339	< 0.1	0.1	1.0	0.1	< 0.1	0.1	0.001	< 0.05	1.4	20	0.9	0.2	0.231	0.021	0.07
289340	0.2	0.1	1.0	0.1	< 0.1	0.2	0.001	< 0.05	1.7	20	1.3	0.3	0.281	0.036	0.12
289341	0.1	0.1	0.8	< 0.1	< 0.1	0.3	0.001	0.05	1.9	20	1.2	0.3	0.268	0.032	0.12
289342	< 0.1	0.1	0.8	0.1	< 0.1	0.2	0.001	< 0.05	2.0	16	1.4	0.3	0.284	0.039	0.09

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
289343	< 0.1	0.1	0.7	0.1	0.1	0.3	0.001	< 0.05	1.6	21	1.5	0.3	0.346	0.039	0.08
289344	< 0.1	< 0.1	0.7	< 0.1	< 0.1	0.3	< 0.001	< 0.05	1.4	25	1.2	0.3	0.339	0.032	0.08
289345	< 0.1	0.1	0.8	0.1	< 0.1	0.3	0.001	< 0.05	1.6	23	1.3	0.3	0.328	0.035	0.05
289346	0.5	0.1	0.9	0.1	0.2	0.5	0.003	< 0.05	1.6	22	1.5	0.4	0.346	0.048	< 0.01
289347	< 0.1	0.1	1.0	0.2	< 0.1	0.6	0.002	< 0.05	1.0	30	2.4	0.7	0.398	0.025	< 0.01
289348	< 0.1	0.5	3.5	0.4	0.1	0.4	< 0.001	0.50	15.2	16	4.9	2.1	0.252	0.102	0.12
289349	< 0.1	0.2	1.2	0.2	< 0.1	0.3	0.001	< 0.05	1.1	31	2.6	0.7	0.277	0.027	0.02
289350	< 0.1	0.2	1.2	0.2	< 0.1	0.2	< 0.001	0.12	1.3	32	3.2	0.9	0.230	0.030	< 0.01
289351	< 0.1	0.2	1.4	0.2	0.1	0.3	< 0.001	0.10	1.2	28	2.1	0.7	0.327	0.023	< 0.01
289352	< 0.1	0.3	1.9	0.3	0.3	0.9	< 0.001	0.26	2.8	25	3.6	1.1	0.544	0.182	0.19
289353	< 0.1	0.3	2.2	0.3	0.1	0.4	0.001	0.31	2.5	25	2.9	0.8	0.471	0.097	0.53
289354	< 0.1	0.2	1.7	0.2	< 0.1	0.4	0.001	0.41	1.7	26	2.3	0.7	0.534	0.057	1.18
289355	< 0.1	0.2	1.5	0.2	0.4	4.6	< 0.001	0.13	1.9	23	2.5	0.7	0.583	0.116	0.93
289356	< 0.1	0.1	1.1	0.1	< 0.1	0.3	0.001	0.09	5.1	26	2.5	0.7	0.158	0.026	0.05
289357	< 0.1	0.1	1.2	0.2	< 0.1	0.2	0.001	< 0.05	1.7	26	2.1	0.5	0.130	0.027	0.07
289358	< 0.1	0.2	1.3	0.2	< 0.1	0.2	0.002	< 0.05	1.1	27	2.6	1.1	0.188	0.025	0.02
289359	< 0.1	0.2	1.3	0.2	< 0.1	0.1	0.001	< 0.05	1.5	26	2.5	0.7	0.0963	0.025	0.11
289360	0.2	0.3	1.9	0.3	1.0	3.7	0.010	0.58	29.4	15	7.8	2.5	0.379	0.093	1.24
289361	0.1	0.2	1.5	0.2	0.1	0.4	0.002	0.07	1.6	27	2.6	0.7	0.345	0.031	0.08
289362	0.2	0.1	1.0	0.1	0.1	0.3	0.001	0.09	1.5	27	2.2	0.6	0.420	0.035	0.08
289363	0.4	0.2	1.3	0.2	0.3	1.5	0.001	0.16	1.2	24	2.2	0.6	0.531	0.043	0.04
289364	0.1	0.2	1.8	0.3	0.1	0.3	< 0.001	0.13	1.5	17	2.5	0.7	0.348	0.044	0.02
289365	0.2	0.3	2.0	0.3	< 0.1	0.2	< 0.001	< 0.05	1.4	18	2.5	0.7	0.262	0.039	0.01
289366	0.2	0.3	2.2	0.3	0.1	0.4	0.001	0.10	1.7	26	2.2	0.6	0.474	0.031	0.07
289367	< 0.1	0.3	2.4	0.3	< 0.1	0.2	0.002	0.18	2.5	28	1.8	0.5	0.420	0.031	0.08
289368	< 0.1	0.6	4.5	0.6	< 0.1	< 0.1	0.003	0.40	7.0	44	2.6	0.7	0.251	0.086	0.16
289369	0.1	0.6	4.4	0.6	< 0.1	0.2	0.003	0.42	8.0	44	2.6	0.7	0.268	0.086	0.16
289370	< 0.1	0.4	2.7	0.3	< 0.1	< 0.1	0.001	0.16	3.0	29	1.8	0.5	0.158	0.029	0.09
289371	0.1	0.5	3.4	0.4	< 0.1	0.2	0.001	0.10	3.0	32	1.7	0.5	0.281	0.033	0.07
289372	< 0.1	0.4	2.9	0.4	0.1	0.6	0.001	0.59	15.8	15	3.0	1.4	0.289	0.105	0.12
289373	0.4	0.3	2.2	0.3	0.2	0.5	0.002	< 0.05	3.6	30	1.9	0.5	0.497	0.026	0.11
289374	0.3	0.5	3.3	0.4	0.2	0.4	0.001	0.12	3.2	26	2.0	0.6	0.546	0.055	0.06
289375	0.2	0.5	3.4	0.4	0.1	0.3	0.001	0.16	2.4	25	2.3	0.7	0.363	0.046	0.03
289376	< 0.1	0.5	3.3	0.4	< 0.1	0.2	0.001	< 0.05	3.1	26	2.2	0.6	0.276	0.044	0.06
289377	0.2	0.5	3.8	0.5	0.3	0.6	< 0.001	0.06	2.9	21	4.2	1.1	0.518	0.048	0.03
289378	< 0.1	0.5	3.3	0.4	< 0.1	0.2	0.001	< 0.05	2.1	25	2.4	0.7	0.352	0.038	0.08
289379	< 0.1	0.4	3.0	0.4	< 0.1	2.3	0.001	0.06	3.8	18	3.7	0.9	0.411	0.042	0.03
289380	< 0.1	0.4	2.7	0.3	< 0.1	< 0.1	< 0.001	0.06	1.2	20	2.7	0.8	0.257	0.033	0.01
289381	< 0.1	0.5	3.5	0.5	< 0.1	0.3	0.001	0.19	3.8	21	2.9	0.8	0.301	0.052	0.03
289382	< 0.1	0.5	3.6	0.5	< 0.1	0.2	< 0.001	< 0.05	4.0	21	2.8	0.8	0.219	0.052	0.03
289383	< 0.1	0.5	3.6	0.5	< 0.1	0.3	0.001	< 0.05	3.5	17	3.1	0.8	0.293	0.060	0.03
289384	0.1	0.3	2.2	0.3	0.2	66.8	0.106	0.41	4.6	11	3.4	44.4	0.331	0.085	2.34

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
289385	< 0.1	0.5	3.9	0.5	< 0.1	2.4	< 0.001	0.06	3.4	24	3.0	1.0	0.411	0.055	0.02
289386	< 0.1	0.3	2.5	0.3	< 0.1	0.4	0.001	0.18	3.8	21	2.4	0.7	0.159	0.034	0.02
289387	< 0.1	0.5	3.4	0.4	< 0.1	0.5	0.001	0.19	4.8	23	3.7	1.0	0.173	0.063	0.11
289388	< 0.1	0.5	3.6	0.5	< 0.1	0.2	0.001	0.07	1.6	23	3.5	1.0	0.155	0.040	0.03
289389	< 0.1	0.5	3.6	0.5	< 0.1	0.3	< 0.001	< 0.05	3.8	19	3.7	1.0	0.143	0.033	< 0.01
289390	< 0.1	0.4	3.0	0.4	< 0.1	0.2	< 0.001	< 0.05	2.3	23	2.5	0.7	0.189	0.038	0.09
289391	< 0.1	0.3	2.5	0.3	< 0.1	0.2	< 0.001	< 0.05	1.7	25	3.5	0.8	0.262	0.036	0.04
289392	< 0.1	0.4	3.1	0.4	0.1	0.5	< 0.001	< 0.05	1.1	27	2.7	0.8	0.472	0.038	0.02
289393	< 0.1	0.5	3.4	0.4	< 0.1	< 0.1	0.001	0.07	2.3	26	2.9	0.8	0.208	0.038	0.11
289394	< 0.1	0.5	3.4	0.4	< 0.1	0.5	0.002	0.10	1.4	20	2.8	0.8	0.387	0.046	0.10
289395	< 0.1	0.5	3.4	0.5	< 0.1	0.1	0.001	0.08	2.2	25	2.3	0.7	0.394	0.049	0.09
289396	< 0.1	0.4	2.9	0.4	< 0.1	< 0.1	0.002	0.46	13.6	16	3.4	1.4	0.259	0.111	0.12
289397	< 0.1	0.5	3.4	0.4	< 0.1	0.1	0.003	0.09	2.4	24	2.5	0.8	0.138	0.045	0.17
289398	< 0.1	0.6	3.9	0.5	< 0.1	0.2	0.002	0.09	3.5	24	3.4	0.9	0.158	0.047	0.14
289399	0.2	0.4	2.9	0.4	< 0.1	0.1	0.005	0.06	2.7	24	2.2	0.7	0.380	0.043	0.11
289400	< 0.1	0.5	3.6	0.4	< 0.1	0.2	0.001	0.10	3.5	20	3.0	0.9	0.327	0.064	0.02
289401	0.1	0.4	3.0	0.4	0.1	0.2	0.001	0.07	3.6	15	2.5	0.8	0.434	0.074	0.02
289402	< 0.1	0.3	1.7	0.2	< 0.1	0.2	0.002	0.13	2.2	18	2.4	0.6	0.429	0.058	0.02
289403	< 0.1	0.6	4.2	0.5	< 0.1	0.3	0.001	0.16	3.6	25	3.3	0.8	0.378	0.046	0.07
289404	0.1	0.4	2.6	0.4	< 0.1	0.3	< 0.001	0.14	2.2	23	1.6	0.5	0.550	0.040	0.03
289405	< 0.1	0.4	2.7	0.3	0.2	1.4	0.001	0.07	1.4	25	2.0	0.5	0.200	0.031	0.10
289406	< 0.1	0.4	2.7	0.4	< 0.1	0.2	0.001	0.34	2.6	22	4.7	1.4	0.349	0.180	0.29
289407	0.1	0.4	2.7	0.4	< 0.1	< 0.1	0.001	0.15	0.8	23	2.1	0.6	0.241	0.038	0.01
289408	0.1	0.5	3.4	0.5	< 0.1	0.1	0.002	0.06	0.7	24	2.4	0.6	0.229	0.032	< 0.01

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
GXR-1 Meas	7.1	0.04	0.21	1.98	0.04	0.79	2.7	84	12.3	823	25.6	0.4	3940	38.5		0.8		32.3	2.39	7.2	0.58	1280	13.0
GXR-1 Cert	8.20	0.0520	0.217	3.52	0.050	0.960	3.30	80.0	12.0	852	23.6	0.960	3900	41.0		1.22		31.0	3.00	8.20	0.690	1380	16.6
GXR-1 Meas	8.8	0.06	0.27	2.67	0.05	1.04	2.7	93	16.6	910	26.5	0.6	3450	38.4		1.0		42.9	3.06	7.7	0.63	1150	16.0
GXR-1 Cert	8.20	0.0520	0.217	3.52	0.050	0.960	3.30	80.0	12.0	852	23.6	0.960	3900	41.0		1.22		31.0	3.00	8.20	0.690	1380	16.6
DH-1a Meas																							
DH-1a Cert																							
GXR-4 Meas	9.9	0.51	1.77	6.49	4.00	0.98	< 0.1	94	51.1	149	3.27	1.5	110	37.9		1.7		3.33	2.25	12.4	1.32	15.8	4.4
GXR-4 Cert	11.1	0.564	1.66	7.20	4.01	1.01	0.860	87.0	64.0	155	3.09	6.30	110	42.0		1.90		4.00	2.80	14.6	1.63	19.0	5.60
GXR-4 Meas																							
GXR-4 Cert																							
SDC-1 Meas	34.4	1.52	1.08	8.22	3.15	1.07		32	36.6	859	4.96	0.9	80	33.2	3.4	3.1	1.3		3.53	17.7	1.43		
SDC-1 Cert	34.00	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70		
SDC-1 Meas	31.7	1.41	0.83	7.38	2.74	1.00		48	42.3	817	4.68	1.1	< 10	31.7	3.5	2.7	1.3		4.21	15.4	1.49		
SDC-1 Cert	34.00	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70		
GXR-6 Meas	38.4	0.11	0.72	> 10.0	2.22	0.22	0.1	108	34.2	1060	5.94	1.8	80	24.0		1.2		0.11	3.72	13.5	0.62	0.18	< 0.1
GXR-6 Cert	32.0	0.104	0.609	17.7	1.87	0.180	1.00	186	96.0	1010	5.58	4.30	68.0	27.0		1.40		1.30	4.20	13.8	0.760	0.290	0.940
GXR-6 Meas	37.8	0.11	0.68	> 10.0	1.72	0.19	0.1	141	38.8	964	5.40	2.6	20	22.3		1.3		0.27	4.36	11.3	0.65	0.16	0.5
GXR-6 Cert	32.0	0.104	0.609	17.7	1.87	0.180	1.00	186	96.0	1010	5.58	4.30	68.0	27.0		1.40		1.30	4.20	13.8	0.760	0.290	0.940
DNC-1a Meas	4.2							149	119					241						53.7	0.54		
DNC-1a Cert	5.2							148	270					247						57	0.59		
DNC-1a Meas	4.8							155	136					255						51.3	0.57		
DNC-1a Cert	5.2							148	270					247						57	0.59		
SBC-1 Meas	152						0.4	234	58.4			3.6		80.6	3.4	3.0	1.3		7.59	20.5	1.76	0.61	
SBC-1 Cert	163.0						0.40	220.0	109			3.7		82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70	
SBC-1 Meas	161						0.4	225	68.7			4.0		78.4	3.6	3.3	1.3		8.82	19.7	1.87	0.62	
SBC-1 Cert	163.0						0.40	220.0	109			3.7		82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70	
OREAS 45d (4-Acid) Meas	22.3	0.10	0.28	8.04	0.42	0.21		184	469	514	15.4	4.3		232	1.3	0.8	0.5		4.26	28.6	0.60	0.39	
OREAS 45d (4-Acid) Cert	21.5	0.101	0.245	8.150	0.412	0.185		235.0	549	490.000	14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31	
SdAR-M2 (U.S.G.S.) Meas	18.8						6.1	30	34.5			4.0	1170	56.7	3.0	7.4	1.1		1.72	13.9	1.42	1.02	
SdAR-M2 (U.S.G.S.) Cert	17.9						5.1	25.2	49.6			7.29	1440.00	48.8	3.58	6.6	1.21		1.82	12.4	1.44	1.05	
SdAR-M2 (U.S.G.S.) Meas	16.6						5.6	25	27.6			4.3	820	44.2	2.8	6.4	1.0		1.83	11.6	1.29	0.93	
SdAR-M2 (U.S.G.S.) Cert	17.9						5.1	25.2	49.6			7.29	1440.00	48.8	3.58	6.6	1.21		1.82	12.4	1.44	1.05	
289308 Orig	3.1	2.45	1.37	6.23	1.46	3.67	< 0.1	64	13.7	869	6.44	2.4	< 10	18.2	1.2	1.0	0.5	< 0.05	0.17	27.1	1.15	0.03	0.3
289308 Dup	3.3	2.59	1.36	6.49	1.44	3.59	< 0.1	60	24.6	859	6.24	1.9	< 10	18.4	1.1	0.8	0.4	< 0.05	0.15	26.6	1.13	0.02	< 0.1
289310 Orig	6.4	2.50	1.72	6.63	1.08	4.61	< 0.1	89	20.0	924	6.90	1.9	< 10	29.6	1.6	0.9	0.6	0.17	0.30	20.5	1.10	0.04	0.1
289310 Dup	6.9	2.53	1.72	7.08	1.09	4.76	< 0.1	85	19.9	954	6.86	2.0	< 10	29.3	1.6	1.0	0.6	0.11	0.28	21.3	1.09	0.04	< 0.1
289346 Orig	17.5	1.53	5.80	6.02	0.09	3.54	< 0.1	194	154	890	7.83	2.0	< 10	218	0.8	0.8	0.3	0.06	0.06	36.0	0.85	< 0.02	< 0.1
289346 Dup	16.8	1.48	5.72	5.77	0.09	3.57	< 0.1	183	149	855	7.84	1.9	< 10	221	0.8	0.8	0.3	< 0.05	0.06	36.6	0.85	0.02	< 0.1

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
289350 Split Orig PREP DUP	14.2	2.34	4.53	7.41	0.79	1.93	< 0.1	134	15.4	579	6.62	1.2	< 10	21.4	1.1	1.7	0.5	< 0.05	0.25	23.0	1.07	0.03	< 0.1
289350 Split PREP DUP	15.5	1.62	4.65	7.07	0.67	1.61	< 0.1	168	12.6	571	7.45	1.5	< 10	21.9	1.2	1.6	0.5	0.15	0.20	24.9	1.02	0.02	< 0.1
289351 Orig	21.1	0.72	6.04	7.11	0.77	2.14	< 0.1	266	20.4	637	8.63	1.8	< 10	34.7	1.4	1.5	0.5	< 0.05	0.26	26.2	1.00	0.03	< 0.1
289351 Dup	20.9	0.68	5.91	6.84	0.74	2.06	< 0.1	254	15.9	611	8.42	1.8	< 10	35.0	1.3	1.6	0.5	0.07	0.29	25.9	0.97	< 0.02	< 0.1
289382 Orig	7.3	2.61	1.68	7.83	0.24	5.27	< 0.1	59	22.1	1090	7.50	2.0	10	26.2	3.5	1.0	1.3	0.11	0.15	23.0	1.44	0.07	< 0.1
289382 Dup	7.8	2.56	1.65	7.51	0.24	5.12	< 0.1	66	20.4	1070	7.34	1.9	< 10	26.0	3.4	1.0	1.3	< 0.05	0.13	21.5	1.39	0.09	< 0.1
289392 Orig	24.6	0.70	5.55	7.23	0.33	1.51	< 0.1	179	15.9	915	10.2	3.1	< 10	32.9	2.9	1.0	1.1	< 0.05	0.11	35.8	0.92	0.03	< 0.1
289392 Dup	25.2	0.73	5.68	7.31	0.34	1.51	< 0.1	172	12.5	907	10.3	3.0	< 10	36.6	2.9	0.9	1.1	< 0.05	0.14	36.6	0.96	0.03	< 0.1
289394 Orig	13.0	1.69	3.19	6.89	0.66	2.88	0.1	137	26.3	901	7.88	3.5	20	22.6	3.3	0.9	1.2	0.39	0.13	27.6	1.04	0.05	< 0.1
289394 Dup	13.0	1.69	3.16	6.84	0.65	2.85	0.1	76	10.3	872	7.76	2.5	10	22.7	3.2	1.0	1.2	0.13	0.15	27.9	1.06	0.03	< 0.1
289400 Split Orig PREP DUP	7.5	2.86	1.39	7.18	0.60	5.15	< 0.1	47	20.0	834	6.71	1.7	< 10	20.9	3.4	1.0	1.3	< 0.05	0.55	19.6	1.49	0.08	< 0.1
289400 Split PREP DUP	7.0	2.64	1.28	6.98	0.56	4.97	0.1	35	19.1	792	6.45	1.6	< 10	19.0	3.4	1.0	1.3	< 0.05	0.61	19.9	1.48	0.08	< 0.1
Method Blank																							
Method Blank																							
Method Blank	0.8	< 0.01	< 0.01	0.08	< 0.01	< 0.01	< 0.1	< 1	8.2	24	< 0.01	< 0.1	< 10	< 0.5	< 0.1	0.3	< 0.1	0.09	0.05	< 0.1	< 0.05	0.04	< 0.1
Method Blank																							
Method Blank	< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	3.4	18	< 0.01	< 0.1	60	< 0.5	< 0.1	0.2	< 0.1	0.18	< 0.05	< 0.1	< 0.05	0.02	< 0.1

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
GXR-1 Meas	695	< 0.1	395	2.3	26.3	272	14	0.5	16.9	0.8	28	28.2	8.2	653	6.8	14.6		8.5	2.8	4.2	0.7	4.4	1100
GXR-1 Cert	760	13.8	427	14.0	32.0	275	38.0	0.800	18.0	0.770	54.0	122	13.0	750	7.50	17.0		18.0	2.70	4.20	0.830	4.30	1110
GXR-1 Meas	804	6.7	431	2.6	29.0	300	22	0.6	21.3	0.9	36	45.8	10.2	675	8.7	16.6		8.6	2.8	4.4	0.8	4.9	1210
GXR-1 Cert	760	13.8	427	14.0	32.0	275	38.0	0.800	18.0	0.770	54.0	122	13.0	750	7.50	17.0		18.0	2.70	4.20	0.830	4.30	1110
DH-1a Meas																							
DH-1a Cert																							
GXR-4 Meas	71.5	14.7	99.4	120	11.8	198	47	10.2	309	0.2	7	4.6	1.0	141	49.3	103		41.1	5.8	4.8	0.5	2.6	6360
GXR-4 Cert	73.0	20.0	98.0	160	14.0	221	186	10.0	310	0.270	5.60	4.80	0.970	1640	64.5	102		45.0	6.60	5.25	0.360	2.60	6520
GXR-4 Meas																							
GXR-4 Cert																							
SDC-1 Meas	106	3.6	< 0.1	110		177	29	0.2			< 1	< 0.1		605	35.9	86.1		40.0	7.9	7.6	1.0	6.0	31.8
SDC-1 Cert	103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70	30.000
SDC-1 Meas	99.8	15.9	< 0.1	111		162	43	< 0.1			2	< 0.1		584	43.2	90.1		37.8	6.7	7.2	1.0	6.2	31.7
SDC-1 Cert	103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70	30.000
GXR-6 Meas	132	< 0.1	225	74.3	12.0	44.4	59	0.1	0.17	< 0.1	< 1	0.3	< 0.1	1490	11.9	34.9		13.1	2.5	2.6	0.4	2.3	70.0
GXR-6 Cert	118	35.0	330	90.0	14.0	35.0	110	7.50	2.40	0.260	1.70	3.60	0.0180	1300	13.9	36.0		13.0	2.67	2.97	0.415	2.80	66.0
GXR-6 Meas	125	19.5	254	73.7	11.9	41.4	96	2.5	1.13	< 0.1	< 1	1.3	0.1	1390	15.1	38.7		12.4	2.3	2.4	0.4	2.4	69.2
GXR-6 Cert	118	35.0	330	90.0	14.0	35.0	110	7.50	2.40	0.260	1.70	3.60	0.0180	1300	13.9	36.0		13.0	2.67	2.97	0.415	2.80	66.0
DNC-1a Meas	64.0	11.6		3.3	15.8	146	40	1.0				0.4		102	3.5			5.2					97.3
DNC-1a Cert	70	15		5	18.0	144	38.0	3				0.96		118	3.6			5.20					100
DNC-1a Meas	68.4	13.4		3.5	15.7	141	45	2.2				0.5		100	4.2			4.8					108
DNC-1a Cert	70	15		5	18.0	144	38.0	3				0.96		118	3.6			5.20					100
SBC-1 Meas	186	17.1	23.4	133	31.0	179	125	10.4	2.59		4	1.0		369	45.6	105	12.3	49.5	9.9	8.8	1.1	6.2	30.7
SBC-1 Cert	186.0	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10	31.0000
SBC-1 Meas	195	24.6	23.4	126	29.5	168	147	16.4	2.96		4	1.0		322	54.0	107	13.2	46.8	8.3	8.4	1.1	6.6	33.4
SBC-1 Cert	186.0	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10	31.0000
OREAS 45d (4-Acid) Meas	46.5	22.0	10.6	38.1	10.5	31.4	171	4.2	3.50	0.1	2	< 0.1		177	18.2	38.4	4.2	13.9	2.4	2.7	0.4	2.3	412
OREAS 45d (4-Acid) Cert	45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26	371
SdAR-M2 (U.S.G.S.) Meas	867	< 0.1		155	26.6	153	128	2.6	9.45					989	45.0	108	11.7	43.1	7.1	7.0	0.9	5.1	289
SdAR-M2 (U.S.G.S.) Cert	760	17.6		149	32.7	144	259	26.2	13.3					990	46.6	98.8	11.0	39.4	7.18	6.28	0.97	5.88	236.0000
SdAR-M2 (U.S.G.S.) Meas	766	7.3		132	23.5	135	136	4.3	12.9					931	48.0	99.1	10.9	36.1	5.7	6.2	0.8	4.8	244
SdAR-M2 (U.S.G.S.) Cert	760	17.6		149	32.7	144	259	26.2	13.3					990	46.6	98.8	11.0	39.4	7.18	6.28	0.97	5.88	236.0000
289308 Orig	33.6	18.6	5.6	40.3	11.1	203	88	0.2	0.25	< 0.1	< 1	0.1	< 0.1	165	22.0	44.3	5.6	20.9	4.5	4.3	0.5	2.5	183
289308 Dup	31.7	18.3	3.9	40.2	10.4	194	76	0.2	0.16	< 0.1	< 1	0.1	< 0.1	161	21.5	43.1	5.5	20.4	4.4	4.3	0.5	2.3	54.0
289310 Orig	46.0	19.2	13.4	31.1	14.6	199	68	0.2	0.80	< 0.1	< 1	< 0.1	0.2	136	19.3	39.3	5.1	19.6	4.3	4.4	0.5	3.0	134
289310 Dup	44.8	19.0	11.2	30.8	14.6	197	69	0.2	0.51	< 0.1	< 1	< 0.1	< 0.1	132	19.2	39.5	5.1	19.5	4.4	4.2	0.5	3.0	129

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
289346 Orig	110	18.0	2.7	2.4	7.4	170	71	3.7	4.17	< 0.1	1	< 0.1	< 0.1	35	13.6	28.6	3.8	13.7	2.8	2.7	0.3	1.7	47.9
289346 Dup	107	18.0	1.2	2.5	7.5	168	69	1.9	3.27	< 0.1	< 1	< 0.1	< 0.1	35	13.6	28.5	3.4	13.6	2.7	2.7	0.3	1.7	56.9
289350 Split Orig PREP DUP	98.5	18.2	0.5	21.9	10.2	107	36	0.2	0.43	< 0.1	2	< 0.1	< 0.1	304	18.5	38.7	5.0	18.7	4.2	3.8	0.4	2.3	6.5
289350 Split PREP DUP	98.1	17.0	< 0.1	17.7	10.6	84.8	46	0.4	0.33	< 0.1	2	< 0.1	< 0.1	274	16.4	35.0	4.5	17.1	3.6	3.4	0.4	2.3	4.9
289351 Orig	129	18.4	0.2	21.4	12.4	85.1	53	0.5	0.39	< 0.1	3	< 0.1	< 0.1	292	15.0	30.7	3.9	14.7	3.5	3.4	0.5	2.6	1.7
289351 Dup	126	17.9	0.5	20.3	11.7	84.0	51	1.2	0.42	< 0.1	3	< 0.1	< 0.1	287	14.6	29.7	3.8	14.3	3.2	3.3	0.4	2.5	3.6
289382 Orig	74.8	21.8	< 0.1	6.1	31.5	224	75	0.2	0.62	< 0.1	< 1	< 0.1	0.3	69	22.3	47.0	6.1	22.5	4.9	6.2	0.9	6.1	38.4
289382 Dup	74.1	21.3	< 0.1	5.8	30.3	220	72	0.2	0.47	< 0.1	< 1	< 0.1	0.2	66	21.7	45.9	6.0	21.8	4.8	5.8	0.9	5.9	35.4
289392 Orig	168	18.6	< 0.1	7.9	24.9	19.0	110	1.6	0.46	< 0.1	1	< 0.1	< 0.1	166	15.0	31.2	4.0	14.7	3.5	4.3	0.7	4.8	38.8
289392 Dup	172	19.0	< 0.1	8.0	25.7	17.7	108	1.1	0.31	< 0.1	< 1	< 0.1	< 0.1	168	15.6	32.8	4.1	15.1	3.7	4.5	0.7	4.9	47.0
289394 Orig	108	16.5	0.7	15.1	29.3	33.6	123	1.6	1.35	< 0.1	2	< 0.1	0.5	307	18.8	39.2	4.9	18.9	4.5	5.6	0.9	5.6	114
289394 Dup	130	16.0	0.6	15.5	29.3	30.5	92	0.1	0.49	< 0.1	< 1	< 0.1	0.2	307	19.1	39.3	5.0	19.1	4.4	5.5	0.8	5.6	116
289400 Split Orig PREP DUP	75.9	18.7	< 0.1	18.0	29.8	191	63	1.7	0.44	< 0.1	1	< 0.1	< 0.1	182	19.7	42.4	5.4	20.5	4.7	5.9	0.9	5.9	29.1
289400 Split PREP DUP	72.5	18.1	< 0.1	20.1	29.0	186	55	0.5	0.32	< 0.1	< 1	< 0.1	< 0.1	177	20.1	41.9	5.3	20.7	4.7	5.7	0.9	5.8	32.4
Method Blank																							
Method Blank																							
Method Blank	1.6	0.4	9.5	3.4	< 0.1	< 0.2	< 1	0.3	1.29	< 0.1	1	0.3	0.1	2	< 0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Method Blank																							
Method Blank	< 0.2	0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.22	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas		0.4	2.4	0.3	< 0.1	130		0.46	771	1	2.7	31.2	0.0273	0.059	0.24
GXR-1 Cert		0.430	1.90	0.280	0.175	164		0.390	730	1.58	2.44	34.9	0.036	0.0650	0.257
GXR-1 Meas		0.4	2.6	0.3	< 0.1	155		0.53	764	2	2.6	35.3	0.0278	0.062	0.25
GXR-1 Cert		0.430	1.90	0.280	0.175	164		0.390	730	1.58	2.44	34.9	0.036	0.0650	0.257
DH-1a Meas											> 500	2420			
DH-1a Cert											910	2629			
GXR-4 Meas		0.2	1.0	0.1	0.6	36.0		3.49	47.3	8	20.7	5.3	0.288	0.131	1.69
GXR-4 Cert		0.210	1.60	0.170	0.790	30.8		3.20	52.0	7.70	22.5	6.20	0.29	0.120	1.77
GXR-4 Meas										8			0.293	0.136	1.78
GXR-4 Cert										7.70			0.29	0.120	1.77
SDC-1 Meas		0.5	3.5		< 0.1	< 0.1		0.73	23.9	16	12.0	2.8	0.0994	0.054	
SDC-1 Cert		0.65	4.00		1.20	0.80		0.70	25.00	17.00	12.00	3.10	0.606	0.0690	
SDC-1 Meas		0.5	3.6		< 0.1	0.2		0.73	26.3	16	11.1	3.0	0.174	0.053	
SDC-1 Cert		0.65	4.00		1.20	0.80		0.70	25.00	17.00	12.00	3.10	0.606	0.0690	
GXR-6 Meas			1.8	0.3	< 0.1	< 0.1		2.37	96.9	29	5.4	1.5		0.034	0.01
GXR-6 Cert			2.40	0.330	0.485	1.90		2.20	101	27.6	5.30	1.54		0.0350	0.0160
GXR-6 Meas			1.9	0.2	0.2	0.5		2.48	109	28	5.5	1.6		0.035	0.02
GXR-6 Cert			2.40	0.330	0.485	1.90		2.20	101	27.6	5.30	1.54		0.0350	0.0160
DNC-1a Meas			2.1						6.2	32			0.280		
DNC-1a Cert			2.0						6.3	31			0.29		
DNC-1a Meas			2.1						6.8	31			0.278		
DNC-1a Cert			2.0						6.3	31			0.29		
SBC-1 Meas		0.5	3.6	0.5	0.8	1.4		1.01	35.4	21	16.2	5.7	0.493		
SBC-1 Cert		0.56	3.64	0.54	1.10	1.60		0.89	35.0	20.0	15.8	5.76	0.51		
SBC-1 Meas		0.5	3.8	0.5	1.2	2.0		1.18	40.5	21	15.3	6.1	0.514		
SBC-1 Cert		0.56	3.64	0.54	1.10	1.60		0.89	35.0	20.0	15.8	5.76	0.51		
OREAS 45d (4-Acid) Meas			1.6	0.2	0.2	2.2		0.35	25.8	53	14.7	3.0	0.241	0.033	0.04
OREAS 45d (4-Acid) Cert			1.33	0.18	1.02	1.62		0.27	21.8	49.30	14.5	2.63	0.773	0.042	0.049
SdAR-M2 (U.S.G.S.) Meas		0.5	3.1	0.4	0.1	< 0.1			839	4	15.4	2.5			
SdAR-M2 (U.S.G.S.) Cert		0.54	3.63	0.54	1.8	2.8			808	4.1	14.2	2.53			
SdAR-M2 (U.S.G.S.) Meas		0.4	3.0	0.4	0.2	0.3			741	4	13.6	3.2			
SdAR-M2 (U.S.G.S.) Cert		0.54	3.63	0.54	1.8	2.8			808	4.1	14.2	2.53			
289308 Orig	< 0.1	0.2	1.3	0.2	0.1	0.4	0.002	0.19	2.2	20	3.1	0.8	0.196	0.050	0.14
289308 Dup	< 0.1	0.2	1.3	0.2	0.1	0.2	0.001	0.17	1.9	20	3.0	0.8	0.348	0.051	0.14
289310 Orig	< 0.1	0.2	1.8	0.2	0.1	0.4	0.002	0.14	2.5	22	2.8	0.8	0.164	0.041	0.26
289310 Dup	< 0.1	0.2	1.8	0.2	0.1	0.4	0.001	0.13	2.5	23	2.9	0.9	0.147	0.041	0.26
289346 Orig	0.5	0.1	0.9	0.1	0.3	0.6	0.003	< 0.05	1.6	22	1.6	0.4	0.369	0.049	< 0.01
289346 Dup	0.5	0.1	0.9	0.1	0.2	0.3	0.003	< 0.05	1.6	22	1.4	0.4	0.323	0.047	< 0.01

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
289350 Split Orig PREP DUP	< 0.1	0.2	1.2	0.2	< 0.1	0.2	< 0.001	0.12	1.3	32	3.2	0.9	0.230	0.030	< 0.01
289350 Split PREP DUP	< 0.1	0.2	1.3	0.2	< 0.1	0.5	< 0.001	0.09	1.2	31	3.1	0.9	0.243	0.030	< 0.01
289351 Orig	< 0.1	0.2	1.4	0.2	0.1	0.3	< 0.001	0.12	1.2	28	2.1	0.7	0.316	0.022	< 0.01
289351 Dup	0.1	0.2	1.4	0.2	0.2	0.3	< 0.001	0.09	1.2	28	2.1	0.7	0.338	0.024	< 0.01
289382 Orig	< 0.1	0.5	3.6	0.5	< 0.1	0.2	0.001	< 0.05	4.1	21	2.7	0.8	0.206	0.052	0.03
289382 Dup	< 0.1	0.5	3.5	0.5	< 0.1	0.2	< 0.001	< 0.05	3.9	21	3.0	0.8	0.231	0.052	0.03
289392 Orig	0.1	0.4	3.1	0.4	0.2	0.5	< 0.001	< 0.05	1.0	27	2.7	0.8	0.488	0.039	0.02
289392 Dup	< 0.1	0.4	3.1	0.4	0.1	0.4	0.002	< 0.05	1.1	27	2.8	0.8	0.457	0.038	0.02
289394 Orig	< 0.1	0.5	3.4	0.4	0.1	0.8	0.002	0.14	1.4	20	2.7	0.8	0.532	0.048	0.10
289394 Dup	< 0.1	0.5	3.4	0.4	< 0.1	0.3	0.002	0.05	1.3	21	2.8	0.8	0.242	0.045	0.10
289400 Split Orig PREP DUP	< 0.1	0.5	3.6	0.4	< 0.1	0.2	0.001	0.10	3.5	20	3.0	0.9	0.327	0.064	0.02
289400 Split PREP DUP	< 0.1	0.5	3.7	0.5	< 0.1	0.2	0.001	0.11	3.3	19	3.0	0.8	0.236	0.062	0.02
Method Blank										< 1			< 0.0005	< 0.001	< 0.01
Method Blank										< 1			< 0.0005	< 0.001	< 0.01
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	0.1	0.3	< 0.001	< 0.05	< 0.5	< 1	< 0.1	0.3	0.0006	< 0.001	< 0.01
Method Blank										< 1			< 0.0005	< 0.001	< 0.01
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01

Quality Analysis ... *Innovative Technologies*

Date Submitted: 22-Dec-16
Invoice No.: A16-13776-Au
Invoice Date: 09-Jan-17
Your Reference: 256-TAAC-Watershed

Trelawney Augen Acquisition
Chester #1 Mine
P.O. Box 100
Gogama Ontario P0M 1W0
Canada

ATTN: District Manager Alan Smith

CERTIFICATE OF ANALYSIS

109 Rock samples were submitted for analysis.

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

REPORT **A16-13776-Au**

Notes:

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

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
1752 Riverside Drive, Timmins, Ontario, Canada, P4R 1N1
TELEPHONE +705 264-0123 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Timmins@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Date Submitted: 22-Dec-16
Invoice No.: A16-13776-Au
Invoice Date: 09-Jan-17
Your Reference: 256-TAAC-Watershed

Trelawney Augen Acquisition
Chester #1 Mine
P.O. Box 100
Gogama Ontario P0M 1W0
Canada

ATTN: District Manager Alan Smith

CERTIFICATE OF ANALYSIS

109 Rock samples were submitted for analysis.

The following analytical package(s) were requested: Code UT-6 Total Digestion ICP & ICP/MS

REPORT **A16-13776-Au**

Notes:

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

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
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E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au	Au
Unit Symbol	ppm	g/tonne
Lower Limit	0.005	0.02
Method Code	FA-AA	FA-GRA
287905	< 0.005	
287906	< 0.005	
287907	0.023	
287908	< 0.005	
287909	0.007	
287910	< 0.005	
287911	< 0.005	
287912	0.592	
287913	< 0.005	
287914	< 0.005	
287915	< 0.005	
287916	< 0.005	
287917	< 0.005	
287918	< 0.005	
287919	< 0.005	
287920	< 0.005	
287921	< 0.005	
287922	< 0.005	
287923	< 0.005	
287924	< 0.005	
287925	< 0.005	
287926	< 0.005	
287927	< 0.005	
287928	< 0.005	
287929	< 0.005	
287930	< 0.005	
287931	< 0.005	
287932	< 0.005	
287933	< 0.005	
287934	< 0.005	
287935	< 0.005	
287936	> 5.000	9.08
287937	< 0.005	
287938	< 0.005	
287939	< 0.005	
287940	< 0.005	
287941	< 0.005	
287942	< 0.005	
287943	< 0.005	
287944	< 0.005	
287945	< 0.005	

Analyte Symbol	Au	Au
Unit Symbol	ppm	g/tonne
Lower Limit	0.005	0.02
Method Code	FA-AA	FA-GRA
287946	< 0.005	
287947	< 0.005	
287948	< 0.005	
287949	< 0.005	
287950	< 0.005	
287951	< 0.005	
287952	< 0.005	
287953	< 0.005	
287954	< 0.005	
287955	< 0.005	
287956	< 0.005	
287957	< 0.005	
287958	0.008	
287959	< 0.005	
287960	0.247	
287961	< 0.005	
287962	< 0.005	
287963	< 0.005	
287964	< 0.005	
287965	< 0.005	
287966	< 0.005	
287967	< 0.005	
287968	< 0.005	
287969	< 0.005	
287970	< 0.005	
287971	< 0.005	
287972	< 0.005	
287973	< 0.005	
287974	< 0.005	
287975	0.005	
287976	< 0.005	
287977	< 0.005	
287978	< 0.005	
287979	< 0.005	
287980	< 0.005	
287981	< 0.005	
287982	< 0.005	
287983	< 0.005	
287984	1.534	
287985	< 0.005	
287986	< 0.005	
287987	< 0.005	

Analyte Symbol	Au	Au
Unit Symbol	ppm	g/tonne
Lower Limit	0.005	0.02
Method Code	FA-AA	FA-GRA
287988	< 0.005	
287989	< 0.005	
287990	< 0.005	
287991	< 0.005	
287992	< 0.005	
287993	< 0.005	
287994	< 0.005	
287995	< 0.005	
287996	< 0.005	
287997	< 0.005	
287998	< 0.005	
287999	< 0.005	
288000	< 0.005	
287501	< 0.005	
287502	< 0.005	
287503	< 0.005	
287504	< 0.005	
287505	< 0.005	
287506	< 0.005	
287507	< 0.005	
287508	< 0.005	
287509	< 0.005	
287510	< 0.005	
287511	0.007	
287512	0.561	
287513	< 0.005	

Analyte Symbol	Au	Au
Unit Symbol	ppm	g/tonne
Lower Limit	0.005	0.02
Method Code	FA-AA	FA-GRA
OREAS203 Meas	0.903	
OREAS203 Cert	0.871	
OREAS203 Meas	0.860	
OREAS203 Cert	0.871	
OREAS203 Meas	0.832	
OREAS203 Cert	0.871	
OREAS203 Meas	0.851	
OREAS203 Cert	0.871	
OXN117 Meas		7.70
OXN117 Cert		7.679
OxP116 Meas		15.2
OxP116 Cert		14.92
OREAS 251 Meas	0.515	
OREAS 251 Cert	0.50	
OREAS 251 Meas	0.517	
OREAS 251 Cert	0.50	
OREAS 251 Meas	0.494	
OREAS 251 Cert	0.50	
OREAS 251 Meas	0.500	
OREAS 251 Cert	0.50	
287914 Orig	< 0.005	
287914 Dup	< 0.005	
287924 Orig	< 0.005	
287924 Dup	< 0.005	
287934 Orig	< 0.005	
287934 Dup	< 0.005	
287949 Orig	< 0.005	
287949 Dup	< 0.005	
287954 Split Orig PREP DUP	< 0.005	
287954 Split PREP DUP	< 0.005	
287959 Orig	< 0.005	
287959 Dup	< 0.005	
287969 Orig	< 0.005	
287969 Dup	< 0.005	
287983 Orig	< 0.005	
287983 Dup	< 0.005	
287993 Orig	< 0.005	
287993 Dup	< 0.005	
287503 Orig	< 0.005	
287503 Dup	< 0.005	

Analyte Symbol	Au	Au
Unit Symbol	ppm	g/tonne
Lower Limit	0.005	0.02
Method Code	FA-AA	FA-GRA
287504 Split Orig PREP DUP	< 0.005	
287504 Split PREP DUP	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank		< 0.02
Method Blank		< 0.02

Quality Analysis ... *Innovative Technologies*

Date Submitted: 22-Dec-16
Invoice No.: A16-13776-TD
Invoice Date: 13-Feb-17
Your Reference: 256-TAAC-Watershed

Trelawney Augen Acquisition
Chester #1 Mine
P.O. Box 100
Gogama Ontario P0M 1W0
Canada

ATTN: District Manager Alan Smith

CERTIFICATE OF ANALYSIS

109 Rock samples were submitted for analysis.

The following analytical package(s) were requested: Code UT-6 Total Digestion ICP & ICP/MS

REPORT **A16-13776-TD**

Notes:

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control

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

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
287915	53.6	0.27	9.82	8.20	0.11	0.84	< 0.1	194	50.9	1010	9.48	3.3	40	58.1	2.7	0.6	1.0	1.85	0.11	34.1	0.85	0.04	< 0.1
287928	37.1	1.59	6.71	7.42	0.16	0.88	< 0.1	122	83.5	629	6.93	2.6	< 10	79.4	2.5	1.6	0.9	0.27	0.09	29.5	0.99	0.03	< 0.1
287929	36.4	1.47	6.45	7.71	0.27	1.99	0.1	142	77.0	685	7.16	2.4	< 10	74.8	2.7	1.6	1.0	0.16	0.16	33.2	0.98	0.03	< 0.1
287930	47.7	0.47	8.56	7.71	0.12	0.57	< 0.1	136	95.4	700	8.24	2.3	< 10	83.6	2.3	0.9	0.9	0.05	0.10	33.8	0.90	< 0.02	< 0.1
287941	10.1	2.06	2.07	5.26	0.13	9.76	0.1	60	28.7	1510	6.21	1.2	40	24.3	4.1	0.7	1.6	0.08	0.08	23.7	2.01	0.03	< 0.1
287949	7.5	> 3.00	1.21	6.96	0.67	3.49	0.1	60	12.9	688	5.46	3.4	30	16.3	3.7	1.0	1.4	< 0.05	0.43	16.6	1.50	0.07	< 0.1
287950	5.7	> 3.00	0.93	6.24	0.25	3.44	0.1	62	23.7	656	6.48	3.1	20	161	3.3	1.0	1.3	< 0.05	< 0.05	62.0	1.41	0.05	1.4
287958	9.5	1.98	2.76	6.69	0.38	6.51	0.3	65	43.3	1170	7.48	0.8	10	138	2.4	0.6	0.9	0.28	0.12	48.8	1.10	0.06	< 0.1
287961	12.0	1.28	2.74	5.24	0.23	9.95	0.1	105	44.9	1510	7.27	1.6	20	79.8	2.3	0.2	0.9	< 0.05	0.08	30.3	0.75	0.02	< 0.1
287971	9.5	> 3.00	1.27	6.70	0.42	1.51	< 0.1	29	33.6	716	5.28	3.9	< 10	9.8	4.0	0.9	1.5	< 0.05	< 0.05	8.9	1.38	0.04	< 0.1
287975	6.3	> 3.00	0.45	7.03	0.53	2.30	< 0.1	19	9.3	788	4.78	4.5	< 10	4.7	4.0	1.8	1.5	< 0.05	0.17	6.1	1.68	0.06	< 0.1
287502	15.5	0.31	7.45	3.41	0.14	8.80	< 0.1	129	541	2010	10.4	2.6	60	796	1.8	0.8	0.7	< 0.05	0.34	67.8	1.22	0.04	< 0.1
287503	11.2	0.10	9.13	2.98	0.02	6.88	0.2	157	794	1570	11.7	2.6	40	888	1.7	0.7	0.7	< 0.05	0.29	91.2	1.25	0.05	< 0.1
287504	8.7	0.14	9.24	3.03	0.03	6.53	0.2	132	942	1720	11.3	2.6	20	808	1.6	0.9	0.6	< 0.05	0.22	84.0	1.26	0.05	< 0.1
287505	10.9	0.17	9.65	2.93	0.09	8.55	0.2	158	1030	1840	10.5	2.2	20	754	1.5	0.8	0.6	< 0.05	0.35	82.7	1.15	0.08	< 0.1
287506	7.9	> 3.00	2.39	6.55	0.74	3.63	< 0.1	76	46.3	1140	7.74	1.0	20	52.8	3.1	0.8	1.2	< 0.05	0.25	38.7	1.24	0.06	< 0.1
287507	17.4	2.04	2.82	6.77	2.25	3.21	< 0.1	54	21.8	1120	7.20	0.5	10	45.9	3.0	1.0	1.1	< 0.05	0.64	28.0	1.13	0.05	< 0.1
287508	16.8	1.96	5.44	5.20	0.45	6.21	0.2	67	367	1450	8.84	1.2	10	440	2.2	0.7	0.8	< 0.05	0.49	53.7	1.11	0.13	< 0.1
287509	10.0	> 3.00	2.19	7.09	0.29	3.87	< 0.1	80	18.6	1010	7.70	1.7	10	37.0	3.0	0.9	1.1	< 0.05	0.56	28.6	1.39	0.13	< 0.1

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
287915	163	22.1	< 0.1	2.4	24.5	7.5	114	4.8	2.39	< 0.1	1	< 0.1	0.9	23	11.3	25.2	3.3	13.5	3.3	4.9	0.8	4.8	3.3
287928	113	17.0	< 0.1	3.2	21.6	29.0	87	3.8	1.63	< 0.1	< 1	< 0.1	0.3	51	12.6	28.3	3.7	14.5	3.3	4.4	0.7	4.3	4.5
287929	109	18.8	0.1	6.9	25.1	53.9	81	6.5	0.98	< 0.1	2	< 0.1	< 0.1	84	12.7	28.7	3.7	14.2	3.2	4.3	0.7	4.6	73.2
287930	138	18.3	< 0.1	2.8	20.0	7.9	74	1.4	0.52	< 0.1	< 1	< 0.1	0.1	54	10.6	23.6	3.0	12.1	2.7	3.5	0.6	3.9	5.4
287941	91.1	14.6	0.1	2.9	39.6	62.0	38	< 0.1	0.27	< 0.1	< 1	< 0.1	< 0.1	47	15.0	40.4	5.5	26.0	6.9	8.9	1.2	7.3	71.3
287949	59.5	12.4	< 0.1	16.4	32.8	138	111	0.5	0.23	< 0.1	< 1	< 0.1	< 0.1	236	19.4	47.2	6.1	27.2	5.9	7.4	1.1	6.3	35.9
287950	39.8	14.6	< 0.1	3.8	30.3	134	106	8.4	1.16	< 0.1	2	< 0.1	< 0.1	120	19.8	47.8	6.3	26.6	5.9	6.9	1.0	6.0	209
287958	130	15.4	5.6	7.9	21.1	155	22	< 0.1	0.07	< 0.1	< 1	< 0.1	< 0.1	93	8.7	21.2	2.8	13.2	3.2	4.3	0.6	4.0	652
287961	98.4	13.9	< 0.1	5.8	21.4	67.1	52	< 0.1	0.06	< 0.1	< 1	< 0.1	< 0.1	70	7.9	20.9	2.8	13.7	3.5	4.5	0.7	4.2	78.9
287971	79.4	12.5	< 0.1	6.3	34.6	50.4	125	0.6	0.26	< 0.1	< 1	< 0.1	< 0.1	199	18.4	47.0	6.2	26.5	5.6	6.8	1.0	6.6	31.8
287975	76.7	15.9	< 0.1	10.1	36.3	101	141	3.1	1.01	< 0.1	< 1	< 0.1	< 0.1	208	21.8	53.9	7.0	31.6	7.2	8.1	1.2	7.0	29.2
287502	102	13.2	< 0.1	2.3	16.3	151	89	0.6	0.38	< 0.1	< 1	< 0.1	< 0.1	35	14.2	34.1	4.3	18.9	3.7	4.3	0.6	3.4	114
287503	122	12.7	< 0.1	0.6	15.1	79.6	91	< 0.1	0.38	< 0.1	< 1	< 0.1	< 0.1	3	15.8	38.4	4.9	21.2	3.9	4.4	0.6	3.3	176
287504	115	12.0	< 0.1	0.6	14.4	152	88	< 0.1	0.17	< 0.1	< 1	< 0.1	< 0.1	3	15.1	36.0	4.8	20.5	3.9	4.4	0.6	3.2	301
287505	112	9.6	< 0.1	1.8	13.3	159	77	< 0.1	0.16	< 0.1	< 1	< 0.1	< 0.1	45	12.4	30.8	3.9	17.6	3.6	3.9	0.5	3.0	318
287506	55.4	10.5	< 0.1	11.0	27.5	182	27	< 0.1	0.39	< 0.1	< 1	< 0.1	< 0.1	240	15.6	37.0	4.9	21.2	5.1	5.9	0.9	5.2	157
287507	68.1	< 0.1	< 0.1	38.5	26.4	175	14	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	744	14.4	35.7	4.7	20.7	4.7	5.6	0.8	5.1	96.0
287508	93.2	10.9	3.5	8.7	20.0	169	37	< 0.1	0.08	< 0.1	2	< 0.1	< 0.1	153	14.7	35.5	4.6	20.4	4.4	4.9	0.7	3.9	144
287509	77.8	16.1	< 0.1	7.5	26.9	200	54	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	126	20.0	49.4	6.4	25.8	5.6	6.0	0.8	5.1	60.4

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
287915	0.2	0.4	2.8	0.4	0.5	1.2	< 0.001	0.17	1.2	26	2.7	0.7	0.647	0.039	< 0.01
287928	0.3	0.4	2.5	0.3	0.4	0.5	< 0.001	< 0.05	1.8	22	2.4	0.7	0.418	0.026	< 0.01
287929	< 0.1	0.4	2.9	0.4	0.8	1.3	< 0.001	< 0.05	2.8	22	2.7	0.7	0.475	0.029	0.08
287930	0.2	0.3	2.5	0.3	0.2	0.3	< 0.001	< 0.05	1.3	25	2.2	0.6	0.389	0.026	< 0.01
287941	< 0.1	0.6	4.2	0.6	< 0.1	< 0.1	< 0.001	< 0.05	2.8	21	2.4	0.6	0.233	0.032	0.08
287949	< 0.1	0.5	3.7	0.5	< 0.1	< 0.1	< 0.001	0.09	6.9	15	4.5	1.1	0.281	0.047	0.06
287950	< 0.1	0.5	3.2	0.4	0.5	0.6	< 0.001	< 0.05	4.3	13	3.6	0.9	0.372	0.043	1.21
287958	< 0.1	0.3	2.4	0.3	< 0.1	< 0.1	0.001	< 0.05	5.3	19	2.1	0.7	0.181	0.027	0.29
287961	< 0.1	0.3	2.4	0.3	< 0.1	< 0.1	< 0.001	< 0.05	1.1	19	2.1	0.5	0.334	0.019	0.02
287971	< 0.1	0.6	4.3	0.6	< 0.1	< 0.1	< 0.001	< 0.05	1.2	13	5.4	1.5	0.309	0.035	< 0.01
287975	< 0.1	0.6	4.1	0.5	0.2	< 0.1	< 0.001	0.07	2.3	11	5.6	1.4	0.329	0.036	0.01
287502	< 0.1	0.2	1.7	0.2	< 0.1	< 0.1	0.001	0.07	1.7	26	1.6	0.4	0.334	0.039	0.02
287503	< 0.1	0.2	1.5	0.2	< 0.1	< 0.1	< 0.001	< 0.05	2.9	25	1.7	0.3	0.461	0.040	0.03
287504	< 0.1	0.2	1.5	0.2	< 0.1	< 0.1	< 0.001	< 0.05	2.8	28	1.7	0.3	0.218	0.031	0.04
287505	< 0.1	0.2	1.4	0.2	< 0.1	< 0.1	< 0.001	< 0.05	3.7	36	1.4	0.3	0.269	0.026	0.13
287506	< 0.1	0.4	3.2	0.4	< 0.1	< 0.1	0.001	0.09	2.5	23	3.8	1.1	0.140	0.039	0.27
287507	< 0.1	0.5	3.0	0.4	< 0.1	< 0.1	< 0.001	0.19	2.3	21	2.6	0.7	0.107	0.041	0.12
287508	< 0.1	0.3	2.2	0.3	< 0.1	< 0.1	< 0.001	< 0.05	4.6	25	2.7	0.6	0.260	0.044	0.38
287509	< 0.1	0.4	3.2	0.4	< 0.1	< 0.1	< 0.001	0.06	2.8	22	4.5	1.1	0.187	0.063	0.22

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
GXR-1 Meas	7.1	0.04	0.21	1.98	0.04	0.79	2.7	84	12.3	823	25.6	0.4	3940	38.5		0.8		32.3	2.39	7.2	0.58	1280	13.0
GXR-1 Cert	8.20	0.0520	0.217	3.52	0.050	0.960	3.30	80.0	12.0	852	23.6	0.960	3900	41.0		1.22		31.0	3.00	8.20	0.690	1380	16.6
GXR-1 Meas	8.8	0.06	0.27	2.67	0.05	1.04	2.7	93	16.6	910	26.5	0.6	3450	38.4		1.0		42.9	3.06	7.7	0.63	1150	16.0
GXR-1 Cert	8.20	0.0520	0.217	3.52	0.050	0.960	3.30	80.0	12.0	852	23.6	0.960	3900	41.0		1.22		31.0	3.00	8.20	0.690	1380	16.6
DH-1a Meas																							
DH-1a Cert																							
GXR-4 Meas	9.9	0.51	1.77	6.49	4.00	0.98	< 0.1	94	51.1	149	3.27	1.5	110	37.9		1.7		3.33	2.25	12.4	1.32	15.8	4.4
GXR-4 Cert	11.1	0.564	1.66	7.20	4.01	1.01	0.860	87.0	64.0	155	3.09	6.30	110	42.0		1.90		4.00	2.80	14.6	1.63	19.0	5.60
GXR-4 Meas																							
GXR-4 Cert																							
SDC-1 Meas	34.4	1.52	1.08	8.22	3.15	1.07		32	36.6	859	4.96	0.9	80	33.2	3.4	3.1	1.3		3.53	17.7	1.43		
SDC-1 Cert	34.00	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70		
SDC-1 Meas	31.7	1.41	0.83	7.38	2.74	1.00		48	42.3	817	4.68	1.1	< 10	31.7	3.5	2.7	1.3		4.21	15.4	1.49		
SDC-1 Cert	34.00	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70		
GXR-6 Meas	38.4	0.11	0.72	> 10.0	2.22	0.22	0.1	108	34.2	1060	5.94	1.8	80	24.0		1.2		0.11	3.72	13.5	0.62	0.18	< 0.1
GXR-6 Cert	32.0	0.104	0.609	17.7	1.87	0.180	1.00	186	96.0	1010	5.58	4.30	68.0	27.0		1.40		1.30	4.20	13.8	0.760	0.290	0.940
GXR-6 Meas	37.8	0.11	0.68	> 10.0	1.72	0.19	0.1	141	38.8	964	5.40	2.6	20	22.3		1.3		0.27	4.36	11.3	0.65	0.16	0.5
GXR-6 Cert	32.0	0.104	0.609	17.7	1.87	0.180	1.00	186	96.0	1010	5.58	4.30	68.0	27.0		1.40		1.30	4.20	13.8	0.760	0.290	0.940
DNC-1a Meas	4.2							149	119					241						53.7	0.54		
DNC-1a Cert	5.2							148	270					247						57	0.59		
DNC-1a Meas	4.8							155	136					255						51.3	0.57		
DNC-1a Cert	5.2							148	270					247						57	0.59		
SBC-1 Meas	152						0.4	234	58.4			3.6		80.6	3.4	3.0	1.3		7.59	20.5	1.76	0.61	
SBC-1 Cert	163.0						0.40	220.0	109			3.7		82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70	
SBC-1 Meas	161						0.4	225	68.7			4.0		78.4	3.6	3.3	1.3		8.82	19.7	1.87	0.62	
SBC-1 Cert	163.0						0.40	220.0	109			3.7		82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70	
OREAS 45d (4-Acid) Meas	22.3	0.10	0.28	8.04	0.42	0.21		184	469	514	15.4	4.3		232	1.3	0.8	0.5		4.26	28.6	0.60	0.39	
OREAS 45d (4-Acid) Cert	21.5	0.101	0.245	8.150	0.412	0.185		235.0	549	490.000	14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31	
SdAR-M2 (U.S.G.S.) Meas	18.8						6.1	30	34.5			4.0	1170	56.7	3.0	7.4	1.1		1.72	13.9	1.42	1.02	
SdAR-M2 (U.S.G.S.) Cert	17.9						5.1	25.2	49.6			7.29	1440.00	48.8	3.58	6.6	1.21		1.82	12.4	1.44	1.05	
SdAR-M2 (U.S.G.S.) Meas	16.6						5.6	25	27.6			4.3	820	44.2	2.8	6.4	1.0		1.83	11.6	1.29	0.93	
SdAR-M2 (U.S.G.S.) Cert	17.9						5.1	25.2	49.6			7.29	1440.00	48.8	3.58	6.6	1.21		1.82	12.4	1.44	1.05	
287503 Orig	11.6	0.11	9.36	3.09	0.02	6.91	0.2	148	636	1530	11.8	2.7	40	915	1.7	0.8	0.7	< 0.05	0.29	93.9	1.28	0.05	< 0.1
287503 Dup	10.9	0.10	8.90	2.87	0.02	6.85	0.1	166	953	1610	11.5	2.6	30	861	1.6	0.7	0.6	< 0.05	0.29	88.5	1.22	0.05	< 0.1
Method Blank																							
Method Blank																							
Method Blank	0.8	< 0.01	< 0.01	0.08	< 0.01	< 0.01	< 0.1	< 1	8.2	24	< 0.01	< 0.1	< 10	< 0.5	< 0.1	0.3	< 0.1	0.09	0.05	< 0.1	< 0.05	0.04	< 0.1
Method Blank																							

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Method Blank	< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	3.4	18	< 0.01	< 0.1	60	< 0.5	< 0.1	0.2	< 0.1	0.18	< 0.05	< 0.1	< 0.05	0.02	< 0.1

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
GXR-1 Meas	695	< 0.1	395	2.3	26.3	272	14	0.5	16.9	0.8	28	28.2	8.2	653	6.8	14.6		8.5	2.8	4.2	0.7	4.4	1100
GXR-1 Cert	760	13.8	427	14.0	32.0	275	38.0	0.800	18.0	0.770	54.0	122	13.0	750	7.50	17.0		18.0	2.70	4.20	0.830	4.30	1110
GXR-1 Meas	804	6.7	431	2.6	29.0	300	22	0.6	21.3	0.9	36	45.8	10.2	675	8.7	16.6		8.6	2.8	4.4	0.8	4.9	1210
GXR-1 Cert	760	13.8	427	14.0	32.0	275	38.0	0.800	18.0	0.770	54.0	122	13.0	750	7.50	17.0		18.0	2.70	4.20	0.830	4.30	1110
DH-1a Meas																							
DH-1a Cert																							
GXR-4 Meas	71.5	14.7	99.4	120	11.8	198	47	10.2	309	0.2	7	4.6	1.0	141	49.3	103		41.1	5.8	4.8	0.5	2.6	6360
GXR-4 Cert	73.0	20.0	98.0	160	14.0	221	186	10.0	310	0.270	5.60	4.80	0.970	1640	64.5	102		45.0	6.60	5.25	0.360	2.60	6520
GXR-4 Meas																							
GXR-4 Cert																							
SDC-1 Meas	106	3.6	< 0.1	110		177	29	0.2			< 1	< 0.1		605	35.9	86.1		40.0	7.9	7.6	1.0	6.0	31.8
SDC-1 Cert	103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70	30.000
SDC-1 Meas	99.8	15.9	< 0.1	111		162	43	< 0.1			2	< 0.1		584	43.2	90.1		37.8	6.7	7.2	1.0	6.2	31.7
SDC-1 Cert	103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70	30.000
GXR-6 Meas	132	< 0.1	225	74.3	12.0	44.4	59	0.1	0.17	< 0.1	< 1	0.3	< 0.1	1490	11.9	34.9		13.1	2.5	2.6	0.4	2.3	70.0
GXR-6 Cert	118	35.0	330	90.0	14.0	35.0	110	7.50	2.40	0.260	1.70	3.60	0.0180	1300	13.9	36.0		13.0	2.67	2.97	0.415	2.80	66.0
GXR-6 Meas	125	19.5	254	73.7	11.9	41.4	96	2.5	1.13	< 0.1	< 1	1.3	0.1	1390	15.1	38.7		12.4	2.3	2.4	0.4	2.4	69.2
GXR-6 Cert	118	35.0	330	90.0	14.0	35.0	110	7.50	2.40	0.260	1.70	3.60	0.0180	1300	13.9	36.0		13.0	2.67	2.97	0.415	2.80	66.0
DNC-1a Meas	64.0	11.6		3.3	15.8	146	40	1.0				0.4		102	3.5			5.2					97.3
DNC-1a Cert	70	15		5	18.0	144	38.0	3				0.96		118	3.6			5.20					100
DNC-1a Meas	68.4	13.4		3.5	15.7	141	45	2.2				0.5		100	4.2			4.8					108
DNC-1a Cert	70	15		5	18.0	144	38.0	3				0.96		118	3.6			5.20					100
SBC-1 Meas	186	17.1	23.4	133	31.0	179	125	10.4	2.59		4	1.0		369	45.6	105	12.3	49.5	9.9	8.8	1.1	6.2	30.7
SBC-1 Cert	186.0	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10	31.0000
SBC-1 Meas	195	24.6	23.4	126	29.5	168	147	16.4	2.96		4	1.0		322	54.0	107	13.2	46.8	8.3	8.4	1.1	6.6	33.4
SBC-1 Cert	186.0	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10	31.0000
OREAS 45d (4-Acid) Meas	46.5	22.0	10.6	38.1	10.5	31.4	171	4.2	3.50	0.1	2	< 0.1		177	18.2	38.4	4.2	13.9	2.4	2.7	0.4	2.3	412
OREAS 45d (4-Acid) Cert	45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26	371
SdAR-M2 (U.S.G.S.) Meas	867	< 0.1		155	26.6	153	128	2.6	9.45					989	45.0	108	11.7	43.1	7.1	7.0	0.9	5.1	289
SdAR-M2 (U.S.G.S.) Cert	760	17.6		149	32.7	144	259	26.2	13.3					990	46.6	98.8	11.0	39.4	7.18	6.28	0.97	5.88	236.0000
SdAR-M2 (U.S.G.S.) Meas	766	7.3		132	23.5	135	136	4.3	12.9					931	48.0	99.1	10.9	36.1	5.7	6.2	0.8	4.8	244
SdAR-M2 (U.S.G.S.) Cert	760	17.6		149	32.7	144	259	26.2	13.3					990	46.6	98.8	11.0	39.4	7.18	6.28	0.97	5.88	236.0000
287503 Orig	123	13.0	< 0.1	0.7	15.2	82.1	95	< 0.1	0.21	< 0.1	< 1	< 0.1	< 0.1	3	16.3	39.4	5.0	21.7	4.1	4.6	0.6	3.3	176
287503 Dup	121	12.5	1.6	0.6	14.9	77.1	87	7.5	0.54	< 0.1	< 1	< 0.1	< 0.1	3	15.4	37.4	4.9	20.7	3.7	4.3	0.6	3.2	177
Method Blank																							
Method Blank																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Method Blank	1.6	0.4	9.5	3.4	< 0.1	< 0.2	< 1	0.3	1.29	< 0.1	1	0.3	0.1	2	< 0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Method Blank																							
Method Blank	< 0.2	0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.22	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas		0.4	2.4	0.3	< 0.1	130		0.46	771	1	2.7	31.2	0.0273	0.059	0.24
GXR-1 Cert		0.430	1.90	0.280	0.175	164		0.390	730	1.58	2.44	34.9	0.036	0.0650	0.257
GXR-1 Meas		0.4	2.6	0.3	< 0.1	155		0.53	764	2	2.6	35.3	0.0278	0.062	0.25
GXR-1 Cert		0.430	1.90	0.280	0.175	164		0.390	730	1.58	2.44	34.9	0.036	0.0650	0.257
DH-1a Meas											> 500	2420			
DH-1a Cert											910	2629			
GXR-4 Meas		0.2	1.0	0.1	0.6	36.0		3.49	47.3	8	20.7	5.3	0.288	0.131	1.69
GXR-4 Cert		0.210	1.60	0.170	0.790	30.8		3.20	52.0	7.70	22.5	6.20	0.29	0.120	1.77
GXR-4 Meas										8			0.293	0.136	1.78
GXR-4 Cert										7.70			0.29	0.120	1.77
SDC-1 Meas		0.5	3.5		< 0.1	< 0.1		0.73	23.9	16	12.0	2.8	0.0994	0.054	
SDC-1 Cert		0.65	4.00		1.20	0.80		0.70	25.00	17.00	12.00	3.10	0.606	0.0690	
SDC-1 Meas		0.5	3.6		< 0.1	0.2		0.73	26.3	16	11.1	3.0	0.174	0.053	
SDC-1 Cert		0.65	4.00		1.20	0.80		0.70	25.00	17.00	12.00	3.10	0.606	0.0690	
GXR-6 Meas			1.8	0.3	< 0.1	< 0.1		2.37	96.9	29	5.4	1.5		0.034	0.01
GXR-6 Cert			2.40	0.330	0.485	1.90		2.20	101	27.6	5.30	1.54		0.0350	0.0160
GXR-6 Meas			1.9	0.2	0.2	0.5		2.48	109	28	5.5	1.6		0.035	0.02
GXR-6 Cert			2.40	0.330	0.485	1.90		2.20	101	27.6	5.30	1.54		0.0350	0.0160
DNC-1a Meas			2.1						6.2	32			0.280		
DNC-1a Cert			2.0						6.3	31			0.29		
DNC-1a Meas			2.1						6.8	31			0.278		
DNC-1a Cert			2.0						6.3	31			0.29		
SBC-1 Meas		0.5	3.6	0.5	0.8	1.4		1.01	35.4	21	16.2	5.7	0.493		
SBC-1 Cert		0.56	3.64	0.54	1.10	1.60		0.89	35.0	20.0	15.8	5.76	0.51		
SBC-1 Meas		0.5	3.8	0.5	1.2	2.0		1.18	40.5	21	15.3	6.1	0.514		
SBC-1 Cert		0.56	3.64	0.54	1.10	1.60		0.89	35.0	20.0	15.8	5.76	0.51		
OREAS 45d (4-Acid) Meas			1.6	0.2	0.2	2.2		0.35	25.8	53	14.7	3.0	0.241	0.033	0.04
OREAS 45d (4-Acid) Cert			1.33	0.18	1.02	1.62		0.27	21.8	49.30	14.5	2.63	0.773	0.042	0.049
SdAR-M2 (U.S.G.S.) Meas		0.5	3.1	0.4	0.1	< 0.1			839	4	15.4	2.5			
SdAR-M2 (U.S.G.S.) Cert		0.54	3.63	0.54	1.8	2.8			808	4.1	14.2	2.53			
SdAR-M2 (U.S.G.S.) Meas		0.4	3.0	0.4	0.2	0.3			741	4	13.6	3.2			
SdAR-M2 (U.S.G.S.) Cert		0.54	3.63	0.54	1.8	2.8			808	4.1	14.2	2.53			
287503 Orig	< 0.1	0.2	1.5	0.2	< 0.1	< 0.1	< 0.001	< 0.05	2.9	25	1.8	0.3	0.276	0.032	0.03
287503 Dup	0.5	0.2	1.5	0.2	0.4	< 0.1	< 0.001	< 0.05	2.8	24	1.7	0.3	0.645	0.048	0.03
Method Blank										< 1			< 0.0005	< 0.001	< 0.01
Method Blank										< 1			< 0.0005	< 0.001	< 0.01

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	0.1	0.3	< 0.001	< 0.05	< 0.5	< 1	< 0.1	0.3	0.0006	< 0.001	< 0.01
Method Blank										< 1			< 0.0005	< 0.001	< 0.01
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01

Quality Analysis ... *Innovative Technologies*

Date Submitted: 11-Jan-17
Invoice No.: A17-00275 -Au
Invoice Date: 20-Jan-17
Your Reference: 256-TAAC-Watershed

Trelawney Augen Acquisition
Chester #1 Mine
P.O. Box 100
Gogama Ontario P0M 1W0
Canada

ATTN: District Manager Alan Smith

CERTIFICATE OF ANALYSIS

177 Rock samples were submitted for analysis.

The following analytical package(s) were requested: Code UT-6 Total Digestion ICP & ICP/MS

REPORT **A17-00275 -Au**

Notes:

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

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control

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

Date Submitted: 11-Jan-17
Invoice No.: A17-00275 -Au
Invoice Date: 20-Jan-17
Your Reference: 256-TAAC-Watershed

Trelawney Augen Acquisition
Chester #1 Mine
P.O. Box 100
Gogama Ontario P0M 1W0
Canada

ATTN: District Manager Alan Smith

CERTIFICATE OF ANALYSIS

177 Rock samples were submitted for analysis.

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

REPORT **A17-00275 -Au**

Notes:

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

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control

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

Analyte Symbol	Au
Unit Symbol	ppm
Lower Limit	0.005
Method Code	FA-AA
289894	< 0.005
289895	0.005
289896	< 0.005
289897	< 0.005
289898	0.005
289899	0.009
289900	0.019
108501	0.045
108502	< 0.005
108503	< 0.005
108504	< 0.005
108505	< 0.005
108506	< 0.005
108507	< 0.005
108508	< 0.005
108509	< 0.005
108510	< 0.005
108511	< 0.005
108512	0.547
108513	< 0.005
108514	< 0.005
108515	< 0.005
108516	< 0.005
108517	< 0.005
108518	< 0.005
108519	< 0.005
108520	< 0.005
108521	< 0.005
108522	< 0.005
108523	< 0.005
108524	< 0.005
108525	< 0.005
108526	< 0.005
108527	< 0.005
108528	< 0.005
108529	< 0.005
108530	0.005
108531	< 0.005
108532	< 0.005
108533	< 0.005
108534	< 0.005
108535	< 0.005

Analyte Symbol	Au
Unit Symbol	ppm
Lower Limit	0.005
Method Code	FA-AA
108536	2.166
108537	< 0.005
108538	< 0.005
108539	< 0.005
108540	< 0.005
108541	< 0.005
108542	< 0.005
108543	< 0.005
108544	< 0.005
108545	0.008
108546	< 0.005
108547	< 0.005
108548	0.005
108549	< 0.005
108550	0.005
108551	< 0.005
108552	< 0.005
108553	< 0.005
108554	< 0.005
108555	< 0.005
108556	< 0.005
108557	< 0.005
108558	< 0.005
108559	< 0.005
108560	0.249
108561	< 0.005
108562	< 0.005
108563	0.007
108564	0.006
108565	< 0.005
108566	0.008
108567	< 0.005
108568	< 0.005
108569	< 0.005
108570	< 0.005
108571	< 0.005
108572	< 0.005
108573	0.005
108574	0.006
108575	0.007
108576	0.005
108577	< 0.005

Analyte Symbol	Au
Unit Symbol	ppm
Lower Limit	0.005
Method Code	FA-AA
108578	< 0.005
108579	< 0.005
108580	< 0.005
108581	< 0.005
108582	< 0.005
108583	< 0.005
108584	1.696
108585	< 0.005
108586	< 0.005
108587	< 0.005
108588	< 0.005
108589	< 0.005
108590	< 0.005
108591	< 0.005
108592	< 0.005
108593	< 0.005
108594	< 0.005
108595	< 0.005
108596	< 0.005
108597	< 0.005
108598	< 0.005
108599	< 0.005
108600	< 0.005
108601	< 0.005
108602	< 0.005
108603	< 0.005
108604	< 0.005
108605	< 0.005
108606	< 0.005
108607	< 0.005
108608	0.005
108609	< 0.005
108610	< 0.005
108611	0.551
108612	< 0.005
108613	0.007
108614	< 0.005
108615	< 0.005
108616	< 0.005
108617	< 0.005
108618	< 0.005
108619	< 0.005

Analyte Symbol	Au
Unit Symbol	ppm
Lower Limit	0.005
Method Code	FA-AA
108620	< 0.005
108621	< 0.005
108622	< 0.005
108623	< 0.005
108624	< 0.005
108625	< 0.005
108626	< 0.005
108627	< 0.005
108628	< 0.005
108629	< 0.005
108630	0.009
108631	< 0.005
108632	< 0.005
108633	< 0.005
108634	< 0.005
108635	0.006
108636	2.101
108637	0.011
108638	0.013
108639	0.030
108640	0.006
108641	< 0.005
108642	0.007
108643	< 0.005
108644	< 0.005
108645	< 0.005
108646	< 0.005
108647	< 0.005
108648	< 0.005
108649	< 0.005
108650	< 0.005
108651	< 0.005
108652	< 0.005
108653	< 0.005
108654	< 0.005
108655	< 0.005
108656	< 0.005
108657	< 0.005
108658	< 0.005
108659	< 0.005
108660	0.234
108661	< 0.005

Analyte Symbol	Au
Unit Symbol	ppm
Lower Limit	0.005
Method Code	FA-AA
108662	< 0.005
108663	< 0.005
108664	< 0.005
108665	< 0.005
108666	< 0.005
108667	< 0.005
108668	< 0.005
108669	< 0.005
108670	< 0.005

Analyte Symbol	Au
Unit Symbol	ppm
Lower Limit	0.005
Method Code	FA-AA
OREAS203 Meas	0.865
OREAS203 Cert	0.871
OREAS203 Meas	0.852
OREAS203 Cert	0.871
OREAS203 Meas	0.875
OREAS203 Cert	0.871
OREAS203 Meas	0.919
OREAS203 Cert	0.871
OREAS203 Meas	0.858
OREAS203 Cert	0.871
OREAS203 Meas	0.861
OREAS203 Cert	0.871
OREAS 251 Meas	0.500
OREAS 251 Cert	0.50
OREAS 251 Meas	0.494
OREAS 251 Cert	0.50
OREAS 251 Meas	0.493
OREAS 251 Cert	0.50
OREAS 251 Meas	0.533
OREAS 251 Cert	0.50
OREAS 251 Meas	0.520
OREAS 251 Cert	0.50
OREAS 251 Meas	0.500
OREAS 251 Cert	0.50
108503 Orig	< 0.005
108503 Dup	< 0.005
108513 Orig	< 0.005
108513 Dup	< 0.005
108523 Orig	< 0.005
108523 Dup	< 0.005
108538 Orig	< 0.005
108538 Dup	< 0.005
108543 Split Orig PREP DUP	< 0.005
108543 Split PREP DUP	< 0.005
108547 Orig	< 0.005
108547 Dup	< 0.005
108557 Orig	< 0.005
108557 Dup	< 0.005
108572 Orig	< 0.005
108572 Dup	< 0.005
108582 Orig	< 0.005

Analyte Symbol	Au
Unit Symbol	ppm
Lower Limit	0.005
Method Code	FA-AA
108582 Dup	0.005
108592 Orig	0.013
108592 Dup	< 0.005
108593 Split Orig PREP DUP	< 0.005
108593 Split PREP DUP	0.005
108606 Orig	< 0.005
108606 Dup	< 0.005
108616 Orig	< 0.005
108616 Dup	< 0.005
108626 Orig	< 0.005
108626 Dup	0.005
108641 Orig	< 0.005
108641 Dup	< 0.005
108643 Split Orig PREP DUP	< 0.005
108643 Split PREP DUP	< 0.005
108650 Orig	< 0.005
108650 Dup	< 0.005
108661 Orig	< 0.005
108661 Dup	< 0.005
Method Blank	< 0.005
Method Blank	< 0.005
Method Blank	< 0.005
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Method Blank	< 0.005
Method Blank	< 0.005

Quality Analysis ... *Innovative Technologies*

Date Submitted: 11-Jan-17
Invoice No.: A17-00275-TD
Invoice Date: 08-Feb-17
Your Reference: 256-TAAC-Watershed

Trelawney Augen Acquisition
Chester #1 Mine
P.O. Box 100
Gogama Ontario P0M 1W0
Canada

ATTN: District Manager Alan Smith

CERTIFICATE OF ANALYSIS

177 Rock samples were submitted for analysis.

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

REPORT **A17-00275-TD**

Notes:

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

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
1010 Lorne Street Unit West 4, Sudbury, Ontario, Canada, P3C 4R9
TELEPHONE +705 586-3288 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Sudbury@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Date Submitted: 11-Jan-17
Invoice No.: A17-00275-TD
Invoice Date: 08-Feb-17
Your Reference: 256-TAAC-Watershed

Trelawney Augen Acquisition
Chester #1 Mine
P.O. Box 100
Gogama Ontario P0M 1W0
Canada

ATTN: District Manager Alan Smith

CERTIFICATE OF ANALYSIS

177 Rock samples were submitted for analysis.

The following analytical package(s) were requested: Code UT-6 Total Digestion ICP & ICP/MS

REPORT **A17-00275-TD**

Notes:

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

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control

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41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
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E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
289898	30.2	0.54	3.30	6.08	1.30	7.73	< 0.1	63	82.1	1010	6.88	1.3	< 10	54.7	2.7	1.2	0.8	0.42	0.43	23.3	0.92	0.04	< 0.1
108501	27.6	1.27	1.62	6.54	1.74	1.55	< 0.1	13	16.1	465	8.60	9.2	10	13.5	3.2	1.1	1.0	< 0.05	0.47	29.7	1.31	1.31	5.0
108508	4.0	> 3.00	0.34	5.28	0.85	1.27	< 0.1	11	14.1	178	2.12	4.3	< 10	3.7	3.7	1.3	1.2	< 0.05	0.13	2.2	0.93	0.03	< 0.1
108511	6.5	> 3.00	0.51	5.60	0.88	1.27	< 0.1	10	11.7	205	2.42	4.0	60	6.0	3.5	1.5	1.1	< 0.05	0.14	3.9	1.03	0.04	< 0.1
108521	18.9	> 3.00	8.45	9.36	1.28	7.78	0.1	148	654	1750	12.5	7.1	40	663	3.6	2.0	1.2	< 0.05	0.50	112	2.04	0.20	< 0.1
108529	5.5	> 3.00	0.44	5.27	0.97	1.20	< 0.1	17	16.3	192	2.06	5.4	10	3.6	2.2	1.2	0.7	< 0.05	0.25	4.3	0.82	0.07	< 0.1
108530	31.5	0.05	2.42	4.78	1.29	9.07	< 0.1	133	252	1100	7.34	1.9	30	30.8	3.0	1.4	1.0	< 0.05	0.39	19.3	0.77	0.07	< 0.1
108544	5.6	> 3.00	0.40	6.44	1.43	1.46	< 0.1	16	13.3	361	2.64	5.6	10	3.3	5.0	1.2	1.6	< 0.05	0.30	6.4	1.17	0.08	< 0.1
108550	25.3	> 3.00	3.32	6.26	0.24	7.14	0.1	187	29.4	1370	6.31	1.0	10	34.2	3.3	3.0	1.2	< 0.05	0.50	37.4	4.01	0.34	< 0.1
108558	7.7	> 3.00	0.63	5.98	0.99	0.90	< 0.1	14	26.6	290	2.64	4.9	< 10	8.4	4.2	1.2	1.3	< 0.05	0.25	6.0	0.89	0.05	< 0.1
108562	8.9	> 3.00	1.32	5.50	0.44	0.49	< 0.1	15	24.3	286	3.09	5.2	< 10	14.8	3.7	1.6	1.2	< 0.05	0.30	7.4	0.86	0.03	< 0.1
108563	8.1	0.01	7.16	3.18	0.01	6.84	< 0.1	152	631	1580	8.95	2.1	< 10	660	1.3	0.4	0.4	< 0.05	0.10	71.4	1.01	0.09	< 0.1
108564	7.7	< 0.01	8.25	3.05	< 0.01	6.57	0.1	151	650	1580	10.2	2.2	60	762	1.1	0.6	0.4	0.11	0.09	66.8	1.04	0.06	< 0.1
108565	9.3	< 0.01	8.29	3.11	< 0.01	8.35	< 0.1	121	563	1650	8.93	1.8	50	676	1.1	0.6	0.4	< 0.05	0.07	78.9	1.08	0.07	< 0.1
108566	12.6	0.01	7.95	3.02	0.02	6.00	0.1	132	648	1530	9.77	1.5	30	657	1.1	0.8	0.4	< 0.05	0.16	111	1.12	0.10	< 0.1
108567	11.9	0.01	7.77	2.83	< 0.01	6.76	0.2	112	851	1750	9.51	1.7	30	670	1.3	0.5	0.5	< 0.05	0.11	68.5	1.18	0.04	< 0.1
108568	13.2	0.01	8.47	3.20	< 0.01	7.18	< 0.1	122	1000	1450	9.68	1.9	20	744	1.4	0.7	0.5	< 0.05	0.17	78.6	1.14	0.07	< 0.1
108569	16.3	< 0.01	8.34	2.83	0.04	6.70	0.2	123	977	1590	9.30	1.8	< 10	712	1.1	0.9	0.4	< 0.05	0.31	69.2	0.96	0.06	< 0.1
108570	15.6	< 0.01	9.03	2.89	0.01	6.93	0.2	120	705	1630	9.12	2.0	10	703	1.1	0.8	0.4	0.12	0.22	65.8	1.01	0.09	< 0.1
108571	7.9	0.01	5.72	1.57	< 0.01	15.1	0.4	63	374	2910	6.51	1.0	20	403	1.5	0.3	0.5	0.08	0.11	30.9	1.48	0.05	< 0.1
108573	15.5	< 0.01	8.76	3.05	0.04	7.24	0.1	128	643	1640	9.98	1.7	< 10	766	1.1	0.6	0.4	< 0.05	0.30	86.2	1.15	0.15	< 0.1
108574	23.9	< 0.01	7.32	2.77	0.11	7.53	0.1	139	428	1760	9.15	2.1	50	540	1.3	1.0	0.5	0.14	0.79	59.7	1.23	0.12	< 0.1
108575	40.7	< 0.01	8.32	4.30	0.19	5.40	0.1	178	495	1370	10.9	2.6	40	570	1.7	1.7	0.6	0.11	1.15	78.8	1.61	0.17	< 0.1
108577	14.7	> 3.00	1.10	6.39	1.66	0.35	< 0.1	13	18.3	202	2.76	4.1	30	15.1	2.4	1.2	0.8	< 0.05	0.33	5.9	0.92	0.07	< 0.1
108597	54.0	1.15	3.83	5.96	0.98	6.67	< 0.1	168	253	1600	8.42	2.1	20	49.3	1.8	1.9	0.6	< 0.05	1.19	28.4	0.75	0.03	< 0.1
108606	5.2	> 3.00	0.35	6.51	0.97	1.51	< 0.1	14	16.9	286	2.51	0.4	< 10	5.8	3.9	1.3	1.3	0.18	0.25	3.6	1.10	0.04	< 0.1
108607	3.6	> 3.00	0.18	5.74	0.86	1.00	< 0.1	5	15.0	173	1.56	5.4	70	2.0	3.5	1.2	1.1	< 0.05	0.15	2.2	1.04	0.07	< 0.1
108608	5.8	> 3.00	0.31	6.25	1.18	1.48	< 0.1	11	18.1	317	2.53	4.4	40	3.4	3.6	1.4	1.1	< 0.05	0.26	3.9	1.01	0.05	< 0.1
108611	15.1	0.64	1.11	3.69	2.76	3.70	< 0.1	179	39.0	4010	24.6	3.4	< 10	66.1	2.4	0.6	0.8	0.71	0.65	466	1.88	7.68	1.6
108635	6.1	> 3.00	0.36	5.81	0.94	1.51	< 0.1	15	23.3	288	2.82	4.6	20	6.9	2.3	1.2	0.8	< 0.05	0.21	3.7	0.95	0.08	< 0.1
108637	5.8	2.88	0.39	6.35	1.32	1.46	< 0.1	15	21.6	262	2.80	4.7	10	3.9	2.3	1.2	0.8	< 0.05	0.24	5.2	1.18	0.14	< 0.1
108638	5.4	2.26	0.48	6.20	1.87	1.49	< 0.1	15	25.9	192	2.17	4.8	20	3.6	2.3	1.3	0.8	< 0.05	0.32	6.1	1.23	0.18	< 0.1
108639	7.4	> 3.00	0.66	6.27	1.20	0.98	< 0.1	14	18.1	175	2.19	6.4	10	3.2	2.1	1.0	0.7	< 0.05	0.25	3.4	0.97	0.08	< 0.1
108640	6.2	2.55	0.78	4.77	0.80	0.57	< 0.1	7	36.4	129	1.56	6.9	< 10	1.8	0.6	0.4	0.2	< 0.05	0.18	2.5	0.22	0.09	< 0.1
108641	8.5	1.41	0.87	6.30	2.46	1.17	< 0.1	16	15.4	242	2.10	4.7	50	3.0	2.0	1.1	0.6	< 0.05	0.34	2.3	0.73	0.12	< 0.1
108642	8.0	1.96	0.81	6.06	1.76	1.22	< 0.1	14	17.0	213	2.12	4.8	30	3.0	2.0	1.0	0.7	< 0.05	0.27	5.1	0.82	0.28	< 0.1
108643	12.7	0.26	1.45	5.80	2.45	1.31	< 0.1	13	12.3	270	2.84	4.6	40	4.5	1.9	1.1	0.6	< 0.05	0.40	3.3	0.86	0.19	< 0.1
108644	12.4	0.61	1.27	5.88	2.45	1.42	< 0.1	14	20.8	197	2.58	5.5	30	3.7	1.7	1.1	0.5	< 0.05	0.38	4.8	0.76	0.15	< 0.1
108645	18.3	0.92	1.87	5.33	1.79	0.99	< 0.1	16	18.7	223	3.21	4.5	< 10	4.2	1.7	0.8	0.5	< 0.05	0.34	5.6	0.72	0.11	< 0.1
108646	15.4	0.94	1.61	5.96	2.21	0.38	< 0.1	15	17.7	117	2.74	4.4	< 10	4.0	1.6	0.9	0.5	< 0.05	0.37	6.0	0.69	0.07	< 0.1
108647	8.8	2.27	0.86	5.81	1.60	1.18	< 0.1	13	14.2	160	2.00	4.2	10	3.3	1.9	1.0	0.6	< 0.05	0.33	3.3	0.94	0.06	< 0.1
108649	6.8	2.86	0.57	6.21	1.24	1.53	< 0.1	14	18.9	199	2.14	4.4	10	4.1	2.0	1.1	0.7	< 0.05	0.35	3.9	1.05	0.07	< 0.1

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
108650	3.9	> 3.00	0.36	5.18	1.01	1.86	< 0.1	13	16.9	276	1.62	4.3	60	2.6	1.9	1.2	0.6	< 0.05	0.30	2.9	0.84	0.06	< 0.1
108651	9.5	0.99	1.06	5.68	2.12	1.57	< 0.1	13	21.2	348	2.77	4.3	50	3.7	1.9	1.6	0.6	< 0.05	0.42	3.7	0.86	0.03	< 0.1
108652	8.2	2.24	0.74	5.98	1.26	1.49	< 0.1	14	22.9	283	2.61	4.4	30	3.7	2.2	1.2	0.7	< 0.05	0.31	3.5	1.01	0.02	< 0.1
108653	5.7	> 3.00	0.34	5.94	0.85	1.53	< 0.1	13	17.0	332	2.63	4.6	30	3.6	2.3	1.0	0.7	< 0.05	0.26	3.8	1.04	0.04	< 0.1
108654	4.5	> 3.00	0.33	5.82	0.99	1.50	< 0.1	13	16.8	354	2.75	3.9	20	3.8	2.5	1.2	0.9	< 0.05	0.30	3.7	1.06	0.03	< 0.1
108655	8.9	2.66	0.36	5.91	1.35	1.56	< 0.1	14	23.8	323	2.75	4.7	20	3.8	2.1	1.3	0.7	< 0.05	0.35	4.0	0.92	0.05	< 0.1
108656	7.3	2.51	0.29	5.68	1.16	1.39	< 0.1	13	32.1	266	2.81	4.5	< 10	3.6	2.0	1.0	0.7	< 0.05	0.32	4.6	0.93	0.05	< 0.1

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
289898	81.3	14.8	3.1	32.6	18.8	111	39	0.7	0.52	0.1	1	< 0.1	0.3	427	7.6	19.9	2.6	12.3	3.1	4.4	0.7	4.3	44.3
108501	60.7	19.2	3.3	44.8	21.4	28.3	229	11.4	2.19	0.3	16	1.2	0.4	207	34.0	86.5	10.0	40.2	7.1	8.1	1.1	5.4	1290
108508	14.1	15.9	2.7	20.4	25.8	68.6	108	3.7	0.89	< 0.1	4	0.1	0.1	254	23.5	54.5	6.2	24.1	4.9	6.5	1.0	6.4	14.0
108511	19.0	18.8	0.2	19.0	23.6	70.1	101	1.8	0.60	< 0.1	2	< 0.1	0.2	232	33.4	84.9	10.2	39.9	6.3	7.9	1.1	6.0	9.2
108521	128	25.5	8.6	36.8	25.3	328	207	8.2	1.40	0.1	4	0.3	0.2	334	43.9	108	11.9	50.4	8.8	10.4	1.3	6.6	308
108529	15.5	16.2	< 0.1	27.8	15.0	49.9	146	6.6	1.78	< 0.1	3	0.2	< 0.1	212	22.2	58.9	6.2	24.4	5.0	5.5	0.7	3.8	32.2
108530	83.5	18.9	< 0.1	36.9	20.3	70.8	66	1.0	1.11	< 0.1	2	< 0.1	< 0.1	276	9.2	21.8	2.8	11.7	3.1	5.0	0.8	4.9	11.7
108544	21.7	17.7	0.9	30.3	35.0	107	143	7.9	1.78	< 0.1	3	0.2	< 0.1	452	36.0	81.7	9.2	38.3	7.1	8.7	1.4	7.8	50.0
108550	137	18.5	0.7	4.8	27.2	375	76	0.4	0.68	< 0.1	1	< 0.1	< 0.1	122	60.7	156	19.1	81.1	14.4	15.1	1.6	7.4	205
108558	27.2	18.8	< 0.1	20.8	29.1	58.9	134	4.4	1.42	< 0.1	3	0.2	< 0.1	262	26.4	64.3	7.1	28.7	5.3	7.4	1.1	6.5	9.7
108562	31.1	19.8	0.1	9.5	25.9	94.1	135	6.5	1.88	< 0.1	2	0.1	< 0.1	266	27.7	65.4	7.6	30.6	6.0	6.6	1.1	6.1	20.7
108563	117	13.4	0.7	0.6	9.0	172	68	1.5	0.39	< 0.1	< 1	< 0.1	< 0.1	4	13.9	34.5	4.4	18.6	3.3	3.6	0.5	2.4	192
108564	125	12.6	< 0.1	0.3	7.7	233	81	1.1	0.54	< 0.1	< 1	0.2	0.1	3	13.3	32.4	4.1	17.8	3.2	3.6	0.4	2.2	196
108565	102	12.5	0.9	0.2	8.8	227	67	0.2	0.44	< 0.1	< 1	< 0.1	< 0.1	2	13.7	33.7	4.3	17.8	3.5	3.8	0.5	2.3	234
108566	109	11.5	6.4	0.8	7.4	265	53	0.2	0.38	< 0.1	< 1	< 0.1	< 0.1	9	12.7	33.1	3.9	17.3	3.2	3.6	0.4	2.1	314
108567	107	12.4	< 0.1	0.5	9.8	284	66	< 0.1	0.35	< 0.1	< 1	< 0.1	< 0.1	9	12.0	29.8	3.9	16.8	3.2	3.9	0.5	2.7	142
108568	111	12.6	< 0.1	0.3	10.1	187	67	0.8	0.30	< 0.1	< 1	< 0.1	< 0.1	6	14.4	34.9	4.2	18.5	3.5	3.9	0.5	2.6	208
108569	110	11.4	< 0.1	1.7	7.9	282	70	1.0	0.30	< 0.1	< 1	< 0.1	< 0.1	8	12.3	30.1	3.8	16.2	3.0	3.4	0.4	2.2	179
108570	106	11.6	< 0.1	0.7	7.5	275	72	< 0.1	0.20	< 0.1	< 1	< 0.1	< 0.1	6	13.4	33.2	4.0	17.5	3.3	3.5	0.5	2.2	240
108571	51.5	6.1	< 0.1	0.4	11.0	490	39	< 0.1	0.47	< 0.1	< 1	< 0.1	< 0.1	19	9.1	21.2	2.6	12.2	2.9	3.8	0.5	2.9	60.5
108573	106	12.8	0.6	1.8	8.3	273	61	0.1	0.34	< 0.1	< 1	< 0.1	< 0.1	8	14.9	35.3	4.4	19.7	3.6	4.1	0.5	2.3	143
108574	101	11.8	< 0.1	5.4	9.3	306	84	0.2	0.46	< 0.1	< 1	< 0.1	0.1	22	13.9	33.9	4.2	18.4	3.4	4.2	0.5	2.5	268
108575	167	17.0	0.3	9.1	11.4	203	93	1.4	0.38	< 0.1	2	< 0.1	< 0.1	29	19.9	48.7	6.4	26.5	4.6	5.1	0.7	3.4	191
108577	30.9	16.3	< 0.1	40.1	16.7	79.9	120	0.3	0.29	< 0.1	1	< 0.1	< 0.1	531	29.5	70.0	8.3	32.9	6.1	6.9	0.8	4.2	20.9
108597	175	15.9	< 0.1	38.5	13.4	147	79	0.3	0.24	< 0.1	< 1	< 0.1	< 0.1	210	9.8	24.0	3.1	14.2	3.1	4.1	0.6	3.1	7.3
108606	23.4	19.1	1.6	23.4	29.0	76.8	26	3.5	2.23	< 0.1	5	0.1	0.2	292	36.9	79.8	9.8	40.2	6.7	8.9	1.2	6.8	24.8
108607	12.5	19.5	< 0.1	17.7	24.4	60.0	149	7.8	1.76	< 0.1	3	0.3	0.1	258	40.9	93.8	10.6	44.3	7.9	9.3	1.2	6.0	4.3
108608	36.7	19.6	< 0.1	28.5	25.6	65.0	119	1.5	1.00	< 0.1	2	< 0.1	< 0.1	365	27.6	65.5	8.3	34.9	7.3	8.5	1.2	6.1	5.6
108611	27.9	18.2	360	71.9	17.9	94.8	132	2.5	208	0.3	10	4.6	0.4	56	66.5	105	9.2	29.8	4.0	5.4	0.7	3.9	8230
108635	20.9	19.8	< 0.1	22.7	16.3	74.8	128	6.6	1.45	< 0.1	2	0.2	< 0.1	274	25.7	64.0	7.7	30.9	5.5	6.8	0.8	4.2	35.5
108637	14.2	19.4	< 0.1	34.6	16.9	53.6	128	10.5	1.27	< 0.1	4	0.5	< 0.1	316	31.3	71.3	9.1	35.3	6.8	7.9	0.9	4.3	58.1
108638	13.6	19.7	1.8	42.5	16.6	51.7	127	12.0	1.12	< 0.1	3	0.4	< 0.1	341	31.6	78.0	9.1	38.7	7.9	7.9	0.9	4.4	64.3
108639	14.2	21.5	0.1	27.9	14.2	61.8	178	6.6	0.79	< 0.1	3	0.2	< 0.1	198	24.7	59.5	7.2	29.8	5.5	5.7	0.7	3.6	9.5
108640	15.1	14.3	1.0	19.3	4.1	20.6	193	6.6	1.71	< 0.1	2	0.3	< 0.1	134	3.2	7.9	0.9	4.1	1.0	1.2	0.2	0.9	12.0
108641	33.1	18.8	< 0.1	55.2	14.5	29.8	122	5.6	1.33	< 0.1	3	0.1	0.1	338	12.1	35.4	4.9	22.7	4.4	4.6	0.6	3.3	14.5
108642	33.4	18.6	1.8	42.3	15.3	43.8	130	10.1	1.36	< 0.1	28	0.4	< 0.1	272	15.0	41.3	6.0	25.9	5.7	5.5	0.6	3.6	42.0
108643	40.0	18.4	< 0.1	56.2	12.9	15.0	119	4.5	0.93	< 0.1	2	0.2	< 0.1	351	26.8	67.3	7.8	32.1	6.5	6.3	0.6	3.3	11.6
108644	23.0	19.7	0.1	57.1	11.6	24.9	160	8.6	14.6	< 0.1	3	0.2	< 0.1	340	26.0	63.7	8.0	32.1	5.7	5.3	0.5	2.8	6.5
108645	27.9	20.8	< 0.1	42.9	11.7	23.5	132	9.2	1.80	< 0.1	3	0.3	< 0.1	262	20.8	55.7	7.0	30.9	5.4	5.0	0.5	2.8	2.3
108646	26.6	20.2	< 0.1	47.8	10.7	22.5	117	9.1	1.15	< 0.1	2	0.2	< 0.1	317	20.9	55.1	6.7	28.5	5.4	4.6	0.5	2.7	2.1
108647	20.4	20.1	< 0.1	38.4	12.9	51.5	116	2.6	0.45	< 0.1	2	< 0.1	< 0.1	255	30.0	71.1	8.3	35.1	6.0	6.3	0.7	3.4	4.6
108649	18.4	21.2	< 0.1	34.1	15.4	71.4	122	4.6	0.65	< 0.1	2	0.1	< 0.1	261	29.3	69.9	8.4	34.2	6.6	6.5	0.7	3.6	3.1

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
108650	10.2	20.2	< 0.1	27.9	13.8	72.2	129	1.7	1.30	< 0.1	1	< 0.1	0.1	205	13.7	38.6	4.8	22.1	4.5	4.8	0.6	3.4	1.7
108651	33.1	17.3	< 0.1	54.2	13.1	53.2	121	2.5	0.77	< 0.1	3	< 0.1	< 0.1	443	15.2	42.4	5.5	26.1	5.5	5.5	0.6	3.3	1.9
108652	28.9	19.3	< 0.1	35.4	15.2	52.3	127	6.3	1.08	< 0.1	3	< 0.1	< 0.1	308	27.2	65.7	7.8	32.0	6.2	6.6	0.8	4.0	0.7
108653	17.0	18.6	< 0.1	25.8	18.6	83.2	133	7.3	1.28	< 0.1	3	0.1	< 0.1	249	32.2	71.5	8.5	33.6	7.0	6.8	0.8	4.1	2.4
108654	21.1	20.8	< 0.1	27.6	18.2	95.1	113	1.8	0.72	< 0.1	2	< 0.1	< 0.1	297	32.0	73.7	9.1	35.8	6.2	7.0	0.9	4.7	4.0
108655	15.7	18.0	0.4	35.4	15.0	65.7	119	7.5	1.61	< 0.1	3	0.7	< 0.1	342	28.5	68.3	8.2	31.7	6.4	6.3	0.8	3.9	14.1
108656	17.3	18.1	< 0.1	32.4	14.1	60.5	121	10.9	2.05	< 0.1	3	0.3	< 0.1	316	29.6	71.9	7.9	30.3	6.5	6.5	0.7	3.7	24.3

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
289898	0.5	0.4	2.5	0.4	< 0.1	< 0.1	< 0.001	0.11	1.1	23	1.0	0.3	0.486	0.047	0.05
108501	< 0.1	0.4	2.9	0.5	1.5	1.3	< 0.001	0.18	15.5	5	15.7	3.0	0.163	0.014	1.81
108508	0.3	0.5	3.0	0.4	0.3	< 0.1	< 0.001	0.05	1.6	5	9.8	1.5	0.200	0.021	< 0.01
108511	0.2	0.5	3.0	0.5	0.1	< 0.1	< 0.001	0.23	1.7	7	10.3	1.9	0.237	0.025	0.01
108521	< 0.1	0.5	3.2	0.5	0.5	0.4	< 0.001	0.12	4.1	8	11.7	2.0	0.255	0.026	0.13
108529	< 0.1	0.3	2.0	0.3	0.3	0.4	< 0.001	0.10	2.0	7	7.6	1.8	0.238	0.026	0.05
108530	0.3	0.5	2.9	0.5	< 0.1	< 0.1	< 0.001	0.10	1.5	24	2.5	2.3	0.327	0.092	< 0.01
108544	< 0.1	0.7	4.2	0.7	0.4	0.2	< 0.001	0.10	2.7	8	10.9	2.3	0.256	0.028	0.13
108550	< 0.1	0.4	2.3	0.3	< 0.1	< 0.1	< 0.001	< 0.05	13.8	20	9.1	2.1	0.395	0.295	0.23
108558	0.4	0.6	3.6	0.5	0.5	0.1	< 0.001	0.06	1.8	8	9.7	2.0	0.249	0.026	0.02
108562	0.3	0.5	3.3	0.5	0.3	< 0.1	< 0.001	< 0.05	2.4	7	10.2	2.3	0.246	0.026	0.02
108563	0.4	0.2	1.0	0.2	< 0.1	< 0.1	< 0.001	< 0.05	1.1	29	1.5	0.3	0.676	0.042	0.10
108564	0.2	0.1	0.9	0.2	< 0.1	< 0.1	< 0.001	0.21	2.0	30	1.4	0.2	0.434	0.033	0.05
108565	0.2	0.1	0.9	0.1	< 0.1	< 0.1	< 0.001	< 0.05	2.0	24	1.3	0.2	0.530	0.036	0.10
108566	0.3	0.1	0.9	0.1	< 0.1	< 0.1	< 0.001	< 0.05	2.6	29	1.3	0.2	0.599	0.036	0.27
108567	< 0.1	0.2	1.0	0.2	< 0.1	< 0.1	< 0.001	< 0.05	2.5	23	1.4	0.2	0.288	0.033	0.02
108568	0.1	0.2	1.1	0.2	< 0.1	< 0.1	< 0.001	< 0.05	1.6	25	1.5	0.2	0.333	0.037	0.08
108569	0.2	0.1	0.9	0.1	< 0.1	< 0.1	< 0.001	< 0.05	1.7	25	1.3	0.2	0.321	0.026	0.10
108570	< 0.1	0.1	0.9	0.2	< 0.1	< 0.1	< 0.001	< 0.05	1.9	25	1.5	0.3	0.306	0.031	0.07
108571	< 0.1	0.2	1.1	0.2	< 0.1	< 0.1	< 0.001	< 0.05	3.3	19	0.7	0.2	0.244	0.021	0.02
108573	0.1	0.1	1.0	0.2	< 0.1	< 0.1	< 0.001	< 0.05	1.7	24	1.6	0.3	0.472	0.038	0.22
108574	< 0.1	0.2	1.0	0.2	< 0.1	< 0.1	< 0.001	0.25	2.0	21	1.6	0.3	0.427	0.039	0.07
108575	< 0.1	0.2	1.4	0.2	< 0.1	< 0.1	< 0.001	0.09	1.9	25	2.1	0.3	0.666	0.052	0.13
108577	< 0.1	0.3	2.0	0.3	< 0.1	< 0.1	< 0.001	0.22	2.2	8	10.7	1.7	0.255	0.026	0.07
108597	0.3	0.3	1.6	0.3	< 0.1	< 0.1	< 0.001	0.17	1.5	28	2.7	0.9	0.378	0.107	< 0.01
108606	< 0.1	0.6	3.3	0.5	< 0.1	< 0.1	< 0.001	0.06	2.1	8	8.6	1.6	0.227	0.020	0.02
108607	< 0.1	0.5	3.1	0.5	0.5	0.2	< 0.001	0.16	2.1	4	17.3	3.2	0.113	0.007	0.02
108608	< 0.1	0.5	3.0	0.4	< 0.1	< 0.1	< 0.001	0.12	2.3	8	9.4	1.6	0.223	0.022	0.02
108611	< 0.1	0.3	2.1	0.3	< 0.1	59.2	0.113	0.32	7.1	11	2.1	41.2	0.321	0.083	2.24
108635	< 0.1	0.3	2.0	0.3	0.4	0.6	< 0.001	0.08	1.6	8	8.1	1.4	0.212	0.022	0.10
108637	< 0.1	0.3	1.9	0.3	0.7	0.6	< 0.001	0.10	2.5	8	8.6	1.7	0.224	0.023	0.35
108638	< 0.1	0.3	1.9	0.3	0.8	1.0	< 0.001	0.13	4.3	8	9.5	1.6	0.239	0.025	0.51
108639	< 0.1	0.3	1.8	0.3	0.3	0.2	< 0.001	0.09	2.7	7	8.5	1.5	0.202	0.021	0.12
108640	< 0.1	< 0.1	0.7	0.1	0.6	0.4	< 0.001	0.06	2.7	3	4.1	1.1	0.153	0.002	0.05
108641	< 0.1	0.3	1.7	0.3	0.2	0.7	< 0.001	0.30	11.8	8	9.2	1.5	0.233	0.015	0.10
108642	< 0.1	0.3	1.8	0.3	0.6	0.6	< 0.001	0.14	6.3	8	8.5	1.5	0.221	0.018	0.32
108643	< 0.1	0.3	1.6	0.2	0.4	0.4	< 0.001	0.17	3.2	8	8.5	1.6	0.179	0.022	0.10
108644	< 0.1	0.3	1.7	0.3	0.7	0.8	< 0.001	0.17	5.1	7	9.4	1.5	0.190	0.018	0.17
108645	< 0.1	0.3	1.5	0.2	0.7	0.7	< 0.001	0.13	5.3	8	8.3	1.3	0.194	0.022	0.16
108646	< 0.1	0.2	1.4	0.2	0.7	0.5	< 0.001	0.15	2.3	9	6.4	1.3	0.213	0.024	0.13
108647	< 0.1	0.3	1.7	0.3	0.2	< 0.1	< 0.001	0.11	4.9	8	7.5	1.4	0.224	0.022	0.05
108649	< 0.1	0.3	1.8	0.3	0.4	< 0.1	< 0.001	0.10	3.6	8	8.6	1.5	0.219	0.022	0.07

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
108650	< 0.1	0.3	1.7	0.3	< 0.1	< 0.1	< 0.001	0.16	1.9	8	5.9	1.0	0.229	0.021	0.04
108651	< 0.1	0.3	1.6	0.3	< 0.1	< 0.1	< 0.001	0.27	1.5	8	7.3	1.3	0.211	0.020	< 0.01
108652	< 0.1	0.3	1.9	0.3	0.3	< 0.1	< 0.001	0.13	3.1	8	9.1	1.6	0.223	0.021	< 0.01
108653	< 0.1	0.3	2.0	0.3	0.2	< 0.1	< 0.001	0.10	2.0	8	9.2	1.7	0.228	0.022	0.03
108654	< 0.1	0.4	2.1	0.3	< 0.1	< 0.1	< 0.001	0.08	2.5	8	8.8	1.7	0.239	0.024	< 0.01
108655	< 0.1	0.3	1.9	0.3	0.5	0.1	< 0.001	0.11	1.7	8	8.0	1.5	0.209	0.022	0.09
108656	< 0.1	0.3	1.8	0.3	0.9	0.3	< 0.001	0.10	1.6	8	8.0	1.9	0.214	0.023	0.14

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
GXR-1 Meas	11.7	0.07	0.32	4.72	0.06	0.88	2.2	82	8.8	772	23.6	0.9	3670	35.4		0.9		29.4	2.98	6.9	0.60	1120	14.6
GXR-1 Cert	8.20	0.0520	0.217	3.52	0.050	0.960	3.30	80.0	12.0	852	23.6	0.960	3900	41.0		1.22		31.0	3.00	8.20	0.690	1380	16.6
GXR-1 Meas	10.0	0.06	0.31	3.86	0.05	0.81	2.4	76	15.1	739	21.0	0.9	1090	34.1		0.7		27.6	2.82	6.5	0.59	1100	14.2
GXR-1 Cert	8.20	0.0520	0.217	3.52	0.050	0.960	3.30	80.0	12.0	852	23.6	0.960	3900	41.0		1.22		31.0	3.00	8.20	0.690	1380	16.6
DH-1a Meas																							
DH-1a Cert																							
DH-1a Meas																							
DH-1a Cert																							
GXR-4 Meas	11.3	0.58	1.75	6.66	3.38	1.01	0.2	92	37.0	150	3.02	1.4	90	37.7		1.9		3.20	2.94	12.8	1.50	17.3	5.7
GXR-4 Cert	11.1	0.564	1.66	7.20	4.01	1.01	0.860	87.0	64.0	155	3.09	6.30	110	42.0		1.90		4.00	2.80	14.6	1.63	19.0	5.60
GXR-4 Meas	9.4	0.47	1.64	5.81	3.51	0.87	0.3	82	31.9	126	2.74	1.2	90	33.1		1.6		3.06	2.76	11.0	1.38	15.9	5.3
GXR-4 Cert	11.1	0.564	1.66	7.20	4.01	1.01	0.860	87.0	64.0	155	3.09	6.30	110	42.0		1.90		4.00	2.80	14.6	1.63	19.0	5.60
SDC-1 Meas	35.7	1.62	0.93	7.33	2.33	0.95		62	41.8	790	4.46	1.0	50	27.8	4.0	2.5	1.3		3.84	13.9	1.50		
SDC-1 Cert	34.00	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70		
SDC-1 Meas	32.7	1.50	1.04	8.02	2.72	1.00		30	31.1	767	4.61	0.6	50	29.5	4.1	2.7	1.4		4.01	15.3	1.59		
SDC-1 Cert	34.00	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70		
GXR-6 Meas	32.0	0.09	0.56	> 10.0	1.94	0.16	0.1	105	33.2	915	5.45	1.6	70	23.0		1.0		0.12	4.40	11.8	0.68	0.18	< 0.1
GXR-6 Cert	32.0	0.104	0.609	17.7	1.87	0.180	1.00	186	96.0	1010	5.58	4.30	68.0	27.0		1.40		1.30	4.20	13.8	0.760	0.290	0.940
GXR-6 Meas	27.6	0.08	0.56	> 10.0	1.83	0.14	< 0.1	130	49.2	873	5.16	2.1	50	21.3		0.8		0.08	4.22	11.5	0.65	0.17	0.3
GXR-6 Cert	32.0	0.104	0.609	17.7	1.87	0.180	1.00	186	96.0	1010	5.58	4.30	68.0	27.0		1.40		1.30	4.20	13.8	0.760	0.290	0.940
DNC-1a Meas	4.4							140	147					237						48.7	0.57		
DNC-1a Cert	5.2							148	270					247						57	0.59		
DNC-1a Meas	4.0							143	107					225						48.4	0.57		
DNC-1a Cert	5.2							148	270					247						57	0.59		
SBC-1 Meas	156						0.3	212	60.3			3.0		73.0	4.0	2.9	1.3		8.30	19.2	1.85	0.58	
SBC-1 Cert	163.0						0.40	220.0	109			3.7		82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70	
SBC-1 Meas	140						0.3	213	77.7			3.5		73.4	4.0	2.6	1.3		8.38	18.7	1.91	0.56	
SBC-1 Cert	163.0						0.40	220.0	109			3.7		82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70	
OREAS 45d (4-Acid) Meas	20.8	0.10	0.24	7.90	0.43	0.20		80	394	450	13.7	1.1		205	1.6	0.6	0.5		3.78	25.9	0.61	0.36	
OREAS 45d (4-Acid) Cert	21.5	0.101	0.245	8.150	0.412	0.185		235.0	549	490.000	14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31	
OREAS 45d (4-Acid) Meas	19.2	0.09	0.24	7.45	0.40	0.19		100	448	465	14.5	1.6		218	1.6	0.6	0.5		3.94	26.8	0.62	0.31	
OREAS 45d (4-Acid) Cert	21.5	0.101	0.245	8.150	0.412	0.185		235.0	549	490.000	14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31	
SdAR-M2 (U.S.G.S.) Meas	16.3						5.4	26	32.5			0.8	1360	45.8	3.4	6.3	1.1		1.90	11.7	1.44	0.94	
SdAR-M2 (U.S.G.S.) Cert	17.9						5.1	25.2	49.6			7.29	1440.00	48.8	3.58	6.6	1.21		1.82	12.4	1.44	1.05	
SdAR-M2 (U.S.G.S.) Meas	14.2						5.4	23	27.1			3.4	170	40.7	3.0	5.8	1.0		1.75	10.2	1.29	0.87	
SdAR-M2 (U.S.G.S.) Cert	17.9						5.1	25.2	49.6			7.29	1440.00	48.8	3.58	6.6	1.21		1.82	12.4	1.44	1.05	

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
108597 Orig	55.4	1.18	3.85	5.89	0.95	6.59	< 0.1	170	235	1640	8.65	2.2	30	48.4	1.9	1.9	0.6	< 0.05	1.24	28.5	0.78	0.03	< 0.1
108597 Dup	52.6	1.12	3.81	6.03	1.01	6.76	< 0.1	166	270	1550	8.19	2.0	10	50.1	1.8	1.8	0.6	< 0.05	1.15	28.3	0.72	0.02	< 0.1
108635 Orig	6.2	> 3.00	0.34	5.37	0.95	1.52	< 0.1	15	26.7	294	2.86	4.6	20	4.0	2.2	1.2	0.7	< 0.05	0.22	3.7	0.91	0.08	< 0.1
108635 Dup	6.0	> 3.00	0.37	6.26	0.94	1.50	< 0.1	15	19.9	283	2.78	4.6	30	9.8	2.3	1.2	0.8	< 0.05	0.20	3.7	0.99	0.07	< 0.1
108643 Split Orig PREP DUP	12.7	0.26	1.45	5.80	2.45	1.31	< 0.1	13	12.3	270	2.84	4.6	40	4.5	1.9	1.1	0.6	< 0.05	0.40	3.3	0.86	0.19	< 0.1
108643 Split PREP DUP	13.0	0.26	1.47	6.12	2.60	1.40	< 0.1	14	24.8	299	3.05	5.0	20	4.4	1.9	1.1	0.6	< 0.05	0.41	3.5	0.90	0.20	< 0.1
Method Blank																							
Method Blank																							
Method Blank	< 0.5	< 0.01	< 0.01	0.01	< 0.01	< 0.01	< 0.1	< 1	2.0	11	< 0.01	< 0.1	40	0.6	< 0.1	< 0.1	< 0.1	0.23	< 0.05	< 0.1	< 0.05	0.02	< 0.1
Method Blank	< 0.5	< 0.01	< 0.01	0.07	< 0.01	< 0.01	< 0.1	< 1	1.9	21	< 0.01	< 0.1	30	< 0.5	< 0.1	< 0.1	< 0.1	0.10	< 0.05	< 0.1	< 0.05	0.04	< 0.1
Method Blank																							
Method Blank	< 0.5	< 0.01	< 0.01	0.03	< 0.01	< 0.01	< 0.1	< 1	3.0	8	< 0.01	< 0.1	60	< 0.5	< 0.1	< 0.1	< 0.1	0.31	< 0.05	< 0.1	< 0.05	< 0.02	< 0.1
Method Blank																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
GXR-1 Meas	682	1.2	376	3.0	26.5	285	36	0.8	17.4	0.8	26	17.4	7.2	1010	7.9	16.8		9.5	2.5	4.5	0.8	5.0	1030
GXR-1 Cert	760	13.8	427	14.0	32.0	275	38.0	0.800	18.0	0.770	54.0	122	13.0	750	7.50	17.0		18.0	2.70	4.20	0.830	4.30	1110
GXR-1 Meas	651	4.5	347	2.7	25.2	275	39	0.9	16.2	0.8	24	23.7	7.8	1020	7.8	16.2		9.0	2.9	4.4	0.8	5.0	997
GXR-1 Cert	760	13.8	427	14.0	32.0	275	38.0	0.800	18.0	0.770	54.0	122	13.0	750	7.50	17.0		18.0	2.70	4.20	0.830	4.30	1110
DH-1a Meas																							
DH-1a Cert																							
DH-1a Meas																							
DH-1a Cert																							
GXR-4 Meas	65.5	16.8	102	117	13.2	196	43	9.4	331	0.3	8	5.5	1.2	353	59.3	130		47.2	5.3	5.7	0.6	3.1	6180
GXR-4 Cert	73.0	20.0	98.0	160	14.0	221	186	10.0	310	0.270	5.60	4.80	0.970	1640	64.5	102		45.0	6.60	5.25	0.360	2.60	6520
GXR-4 Meas	60.8	19.0	92.9	116	12.0	190	40	8.2	302	0.2	8	5.0	1.0	99	56.6	116		44.1	5.2	5.4	0.6	3.0	5630
GXR-4 Cert	73.0	20.0	98.0	160	14.0	221	186	10.0	310	0.270	5.60	4.80	0.970	1640	64.5	102		45.0	6.60	5.25	0.360	2.60	6520
SDC-1 Meas	96.2	16.0	0.6	92.4		154	36	0.8			1	< 0.1		551	38.4	87.9		42.6	6.8	7.7	1.1	6.7	37.1
SDC-1 Cert	103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70	30.000
SDC-1 Meas	98.0	20.1	< 0.1	106		173	19	0.2			< 1	< 0.1		581	40.7	95.9		45.5	7.9	8.0	1.2	7.1	35.7
SDC-1 Cert	103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70	30.000
GXR-6 Meas	123	17.9	216	71.0	11.6	33.4	55	0.9	0.60	< 0.1	< 1	0.8	< 0.1	1090	13.3	38.2		13.7	2.7	2.8	0.4	2.6	74.7
GXR-6 Cert	118	35.0	330	90.0	14.0	35.0	110	7.50	2.40	0.260	1.70	3.60	0.0180	1300	13.9	36.0		13.0	2.67	2.97	0.415	2.80	66.0
GXR-6 Meas	121	23.8	241	69.3	10.9	32.6	74	0.3	0.76	< 0.1	< 1	0.4	< 0.1	1080	13.0	39.9		13.8	2.7	2.8	0.4	2.6	70.9
GXR-6 Cert	118	35.0	330	90.0	14.0	35.0	110	7.50	2.40	0.260	1.70	3.60	0.0180	1300	13.9	36.0		13.0	2.67	2.97	0.415	2.80	66.0
DNC-1a Meas	55.7	13.9		2.6	14.6	130	35	0.3				0.1		91	3.6			5.4					104
DNC-1a Cert	70	15		5	18.0	144	38.0	3				0.96		118	3.6			5.20					100
DNC-1a Meas	57.8	13.9		3.0	14.5	131	38	1.8				1.1		95	3.7			5.2					90.6
DNC-1a Cert	70	15		5	18.0	144	38.0	3				0.96		118	3.6			5.20					100
SBC-1 Meas	168	19.1	21.5	117	28.1	155	111	10.4	2.78		8	1.4		693	47.8	113	13.6	52.1	8.8	9.4	1.3	7.1	40.1
SBC-1 Cert	186.0	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10	31.0000
SBC-1 Meas	172	22.1	24.3	123	28.8	166	121	14.7	2.41		4	1.2		699	49.8	116	13.7	53.1	9.3	10.1	1.3	7.2	26.6
SBC-1 Cert	186.0	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10	31.0000
OREAS 45d (4-Acid) Meas	36.5	21.3	5.2	36.8	11.1	28.0	44	< 0.1	0.47	< 0.1	< 1	< 0.1		166	17.2	39.1	4.0	15.4	2.7	3.0	0.4	2.6	355
OREAS 45d (4-Acid) Cert	45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26	371
OREAS 45d (4-Acid) Meas	39.8	22.7	5.3	36.2	10.7	28.7	61	0.2	0.35	< 0.1	1	< 0.1		164	17.5	42.2	4.4	15.7	2.8	3.0	0.4	2.7	381
OREAS 45d (4-Acid) Cert	45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26	371
SdAR-M2 (U.S.G.S.) Meas	781	12.3		117	22.8	130	47	3.4	11.9					913	48.6	114	12.0	43.5	6.9	7.0	1.0	5.7	249
SdAR-M2 (U.S.G.S.) Cert	760	17.6		149	32.7	144	259	26.2	13.3					990	46.6	98.8	11.0	39.4	7.18	6.28	0.97	5.88	236.0000
SdAR-M2 (U.S.G.S.) Meas	734	15.4		116	20.8	122	101	5.0	10.6					849	43.0	102	11.3	40.3	6.9	6.4	0.9	5.2	234

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
SdAR-M2 (U.S.G.S.) Cert	760	17.6		149	32.7	144	259	26.2	13.3					990	46.6	98.8	11.0	39.4	7.18	6.28	0.97	5.88	236.00 00
108597 Orig	179	15.7	< 0.1	39.4	13.8	150	84	0.3	0.20	< 0.1	1	< 0.1	< 0.1	220	9.9	24.6	3.2	14.9	3.3	4.3	0.6	3.2	7.6
108597 Dup	170	16.2	< 0.1	37.6	13.0	144	74	0.3	0.28	< 0.1	< 1	< 0.1	< 0.1	199	9.7	23.3	3.0	13.6	3.0	3.8	0.5	3.0	6.9
108635 Orig	21.1	20.5	0.1	21.9	15.9	70.0	132	6.6	1.74	< 0.1	2	0.2	< 0.1	258	23.9	61.2	7.2	29.5	4.9	6.4	0.8	4.0	34.5
108635 Dup	20.7	19.2	< 0.1	23.5	16.7	79.6	123	6.6	1.15	< 0.1	2	0.2	0.2	290	27.4	66.8	8.1	32.4	6.2	7.2	0.8	4.3	36.4
108643 Split Orig PREP DUP	40.0	18.4	< 0.1	56.2	12.9	15.0	119	4.5	0.93	< 0.1	2	0.2	< 0.1	351	26.8	67.3	7.8	32.1	6.5	6.3	0.6	3.3	11.6
108643 Split PREP DUP	44.7	18.3	< 0.1	58.3	14.2	15.9	134	6.2	1.13	0.4	4	0.3	< 0.1	363	27.7	66.3	8.0	33.1	6.9	6.2	0.7	3.5	10.8
Method Blank																							
Method Blank																							
Method Blank	< 0.2	0.2	0.5	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.17	< 0.1	7	0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.8
Method Blank	< 0.2	0.3	< 0.1	0.6	< 0.1	1.0	1	< 0.1	0.09	< 0.1	1	0.1	< 0.1	1	< 0.1	0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	1.4
Method Blank																							
Method Blank	< 0.2	0.2	0.6	< 0.2	< 0.1	< 0.2	1	< 0.1	0.07	< 0.1	< 1	0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	2.2
Method Blank																							

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas		0.4	2.2	0.3	< 0.1	133		0.43	685	1	3.1	30.5	0.0311	0.056	0.22
GXR-1 Cert		0.430	1.90	0.280	0.175	164		0.390	730	1.58	2.44	34.9	0.036	0.0650	0.257
GXR-1 Meas		0.4	2.1	0.3	< 0.1	137		0.38	651		3.0	29.2			
GXR-1 Cert		0.430	1.90	0.280	0.175	164		0.390	730		2.44	34.9			
DH-1a Meas											> 500	2160			
DH-1a Cert											910	2629			
DH-1a Meas											> 500	2290			
DH-1a Cert											910	2629			
GXR-4 Meas		0.2	1.1	0.2	0.5	40.1		3.33	49.7	8	24.3	5.6	0.290	0.131	1.81
GXR-4 Cert		0.210	1.60	0.170	0.790	30.8		3.20	52.0	7.70	22.5	6.20	0.29	0.120	1.77
GXR-4 Meas		0.2	1.0	0.1	0.4	35.7		3.16	45.7		21.7	5.2			
GXR-4 Cert		0.210	1.60	0.170	0.790	30.8		3.20	52.0		22.5	6.20			
SDC-1 Meas		0.6	3.4		< 0.1	< 0.1		0.63	23.1	16	13.1	2.7	0.502	0.058	
SDC-1 Cert		0.65	4.00		1.20	0.80		0.70	25.00	17.00	12.00	3.10	0.606	0.0690	
SDC-1 Meas		0.6	3.4		< 0.1	< 0.1		0.67	23.6		14.9	2.9			
SDC-1 Cert		0.65	4.00		1.20	0.80		0.70	25.00		12.00	3.10			
GXR-6 Meas			1.8	0.3	< 0.1	0.2		2.25	100	31	6.2	1.4		0.038	0.02
GXR-6 Cert			2.40	0.330	0.485	1.90		2.20	101	27.6	5.30	1.54		0.0350	0.0160
GXR-6 Meas			1.6	0.3	< 0.1	< 0.1		2.32	98.0		6.3	1.4			
GXR-6 Cert			2.40	0.330	0.485	1.90		2.20	101		5.30	1.54			
DNC-1a Meas			2.0						5.7	31			0.288		
DNC-1a Cert			2.0						6.3	31			0.29		
DNC-1a Meas			1.9						5.9						
DNC-1a Cert			2.0						6.3						
SBC-1 Meas		0.6	3.4	0.5	0.7	1.3		0.94	34.3	22	17.7	5.3	0.503		
SBC-1 Cert		0.56	3.64	0.54	1.10	1.60		0.89	35.0	20.0	15.8	5.76	0.51		
SBC-1 Meas		0.6	3.3	0.5	1.0	1.6		0.98	33.5		18.6	5.5			
SBC-1 Cert		0.56	3.64	0.54	1.10	1.60		0.89	35.0		15.8	5.76			
OREAS 45d (4-Acid) Meas			1.5	0.2	< 0.1	0.2		0.28	21.1	57	17.8	9.2	0.565	0.038	0.05
OREAS 45d (4-Acid) Cert			1.33	0.18	1.02	1.62		0.27	21.8	49.30	14.5	2.63	0.773	0.042	0.049
OREAS 45d (4-Acid) Meas			1.4	0.2	< 0.1	< 0.1		0.29	20.9		17.7	3.0			
OREAS 45d (4-Acid) Cert			1.33	0.18	1.02	1.62		0.27	21.8		14.5	2.63			
SdAR-M2 (U.S.G.S.) Meas		0.5	3.0	0.4	0.1	< 0.1			770	5	17.9	2.6			
SdAR-M2 (U.S.G.S.) Cert		0.54	3.63	0.54	1.8	2.8			808	4.1	14.2	2.53			
SdAR-M2 (U.S.G.S.) Meas		0.4	2.7	0.4	0.1	< 0.1			721		16.5	2.2			
SdAR-M2 (U.S.G.S.) Cert		0.54	3.63	0.54	1.8	2.8			808		14.2	2.53			

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
108597 Orig	0.3	0.3	1.6	0.3	< 0.1	< 0.1	< 0.001	0.18	1.5	28	2.8	0.9	0.358	0.107	< 0.01
108597 Dup	0.3	0.2	1.6	0.3	< 0.1	< 0.1	< 0.001	0.16	1.5	28	2.7	0.8	0.399	0.108	< 0.01
108635 Orig	< 0.1	0.3	1.9	0.3	0.3	0.6	< 0.001	0.08	1.7	7	8.3	1.4	0.207	0.022	0.09
108635 Dup	< 0.1	0.3	2.1	0.3	0.5	0.5	< 0.001	0.07	1.6	8	7.9	1.4	0.216	0.022	0.10
108643 Split Orig PREP DUP	< 0.1	0.3	1.6	0.2	0.4	0.4	< 0.001	0.17	3.2	8	8.5	1.6	0.179	0.022	0.10
108643 Split PREP DUP	< 0.1	0.3	1.7	0.3	0.4	0.6	< 0.001	0.18	3.8	8	9.9	1.8	0.169	0.023	0.10
Method Blank										< 1			< 0.0005	< 0.001	< 0.01
Method Blank										< 1			< 0.0005	< 0.001	< 0.01
Method Blank	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5		< 0.1	< 0.1			
Method Blank	0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	0.0006	< 0.001	< 0.01
Method Blank										< 1			< 0.0005	< 0.001	< 0.01
Method Blank	0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank										< 1			< 0.0005	< 0.001	< 0.01

Quality Analysis ... *Innovative Technologies*

Date Submitted: 09-May-17
Invoice No.: A17-04541-Au
Invoice Date: 15-Jun-17
Your Reference: Trelawney Augen Acquisition Corp (622)- W

IAMGOLD Corporation, Cote Gold Division
3 Mesomikenda Lake Road
PO Box 100
Gogama ON P0M 1W0
Canada

ATTN: Alan Smith

CERTIFICATE OF ANALYSIS

195 Rock samples were submitted for analysis.

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

REPORT **A17-04541-Au**

Notes:

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

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
1752 Riverside Drive, Timmins, Ontario, Canada, P4R 1N1
TELEPHONE +705 264-0123 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Timmins@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Date Submitted: 09-May-17
Invoice No.: A17-04541-Au
Invoice Date: 15-Jun-17
Your Reference: Trelawney Augen Acquisition Corp (622)- W

IAMGOLD Corporation, Cote Gold Division
3 Mesomikenda Lake Road
PO Box 100
Gogama ON P0M 1W0
Canada

ATTN: Alan Smith

CERTIFICATE OF ANALYSIS

195 Rock samples were submitted for analysis.

The following analytical package(s) were requested: Code UT-6 Total Digestion ICP & ICP/MS

REPORT **A17-04541-Au**

Notes:

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

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control

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

Analyte Symbol	Au	Au
Unit Symbol	ppm	g/tonne
Lower Limit	0.005	0.02
Method Code	FA-AA	FA-GRA
282511	< 0.005	
282512	> 5.000	9.06
282513	< 0.005	
282514	< 0.005	
282515	< 0.005	
282516	< 0.005	
282517	< 0.005	
282518	< 0.005	
282519	< 0.005	
282520	< 0.005	
282521	< 0.005	
282522	< 0.005	
282523	< 0.005	
282524	< 0.005	
282525	< 0.005	
282526	< 0.005	
282527	< 0.005	
282528	< 0.005	
282529	< 0.005	
282530	< 0.005	
282531	< 0.005	
282532	< 0.005	
282533	< 0.005	
282534	< 0.005	
282535	< 0.005	
282536	2.245	
282537	< 0.005	
282538	< 0.005	
282539	< 0.005	
282540	< 0.005	
282541	< 0.005	
282542	< 0.005	
282543	< 0.005	
282544	< 0.005	
282545	< 0.005	
282546	< 0.005	
282547	< 0.005	
282548	< 0.005	
282549	< 0.005	
282550	< 0.005	
282551	< 0.005	

Analyte Symbol	Au	Au
Unit Symbol	ppm	g/tonne
Lower Limit	0.005	0.02
Method Code	FA-AA	FA-GRA
282552	< 0.005	
282553	< 0.005	
282554	< 0.005	
282555	0.023	
282556	< 0.005	
282557	< 0.005	
282558	< 0.005	
282559	< 0.005	
282560	0.246	
282561	< 0.005	
282562	< 0.005	
282563	0.020	
282564	< 0.005	
282565	< 0.005	
282566	< 0.005	
282567	< 0.005	
282568	< 0.005	
282569	< 0.005	
282570	< 0.005	
282571	< 0.005	
282572	< 0.005	
282573	< 0.005	
282574	< 0.005	
282575	< 0.005	
282576	< 0.005	
282577	< 0.005	
282578	< 0.005	
282579	< 0.005	
282580	< 0.005	
282581	< 0.005	
282582	< 0.005	
282583	< 0.005	
282584	1.569	
282585	< 0.005	
282586	0.006	
282587	< 0.005	
282588	< 0.005	
282589	< 0.005	
282590	< 0.005	
282591	< 0.005	
282592	0.007	
282593	0.007	

Analyte Symbol	Au	Au
Unit Symbol	ppm	g/tonne
Lower Limit	0.005	0.02
Method Code	FA-AA	FA-GRA
282594	< 0.005	
282595	< 0.005	
282596	< 0.005	
282597	< 0.005	
282598	< 0.005	
282599	< 0.005	
282600	< 0.005	
282601	< 0.005	
282602	< 0.005	
282603	< 0.005	
282604	< 0.005	
282605	< 0.005	
282606	< 0.005	
282607	< 0.005	
282608	< 0.005	
282609	< 0.005	
282610	< 0.005	
282611	0.006	
282612	> 5.000	10.3
282613	< 0.005	
282614	< 0.005	
282615	< 0.005	
282616	< 0.005	
282617	< 0.005	
282618	0.005	
282619	0.035	
282620	0.021	
282621	0.013	
282622	0.021	
282623	< 0.005	
282624	< 0.005	
282625	< 0.005	
282626	< 0.005	
282627	< 0.005	
282628	< 0.005	
282629	0.022	
282630	0.010	
282631	< 0.005	
282632	0.012	
282633	< 0.005	
282634	0.006	

Analyte Symbol	Au	Au
Unit Symbol	ppm	g/tonne
Lower Limit	0.005	0.02
Method Code	FA-AA	FA-GRA
282635	0.008	
282636	2.237	
282637	0.007	
282638	0.011	
282639	0.005	
282640	0.005	
282641	< 0.005	
282642	< 0.005	
282643	< 0.005	
282644	0.006	
282645	0.021	
282646	0.007	
282647	0.007	
282648	< 0.005	
282649	< 0.005	
282650	< 0.005	
282651	< 0.005	
282652	< 0.005	
282653	< 0.005	
282654	< 0.005	
282655	< 0.005	
282656	< 0.005	
282657	< 0.005	
282658	< 0.005	
282659	< 0.005	
282660	0.255	
282661	< 0.005	
282662	< 0.005	
282663	< 0.005	
282664	< 0.005	
282665	< 0.005	
282666	< 0.005	
282667	< 0.005	
282668	< 0.005	
282669	< 0.005	
282670	< 0.005	
282671	< 0.005	
282672	< 0.005	
282673	< 0.005	
282674	< 0.005	
282675	< 0.005	
282676	< 0.005	

Analyte Symbol	Au	Au
Unit Symbol	ppm	g/tonne
Lower Limit	0.005	0.02
Method Code	FA-AA	FA-GRA
282677	< 0.005	
282678	< 0.005	
282679	0.006	
282680	< 0.005	
282681	< 0.005	
282682	< 0.005	
282683	< 0.005	
282684	1.542	
282685	< 0.005	
282686	< 0.005	
282687	< 0.005	
282688	< 0.005	
282689	< 0.005	
282690	< 0.005	
282691	< 0.005	
282692	< 0.005	
282693	< 0.005	
282694	< 0.005	
282695	< 0.005	
282696	< 0.005	
282697	< 0.005	
282698	< 0.005	
282699	< 0.005	
282700	0.005	
282701	< 0.005	
282702	< 0.005	
282703	< 0.005	
282704	< 0.005	
282705	< 0.005	

Analyte Symbol	Au	Au
Unit Symbol	ppm	g/tonne
Lower Limit	0.005	0.02
Method Code	FA-AA	FA-GRA
OxK110 Meas		3.67
OxK110 Cert		3.602
OXN117 Meas		7.67
OXN117 Cert		7.679
OREAS 203 Meas	0.874	
OREAS 203 Cert	0.871	
OREAS 203 Meas	0.891	
OREAS 203 Cert	0.871	
OREAS 203 Meas	0.862	
OREAS 203 Cert	0.871	
OREAS 203 Meas	0.881	
OREAS 203 Cert	0.871	
OREAS 203 Meas	0.859	
OREAS 203 Cert	0.871	
OREAS 203 Meas	0.870	
OREAS 203 Cert	0.871	
OREAS 223 (Fire Assay) Meas	1.810	
OREAS 223 (Fire Assay) Cert	1.78	
OREAS 223 (Fire Assay) Meas	1.824	
OREAS 223 (Fire Assay) Cert	1.78	
OREAS 223 (Fire Assay) Meas	1.773	
OREAS 223 (Fire Assay) Cert	1.78	
OREAS 223 (Fire Assay) Meas	1.837	
OREAS 223 (Fire Assay) Cert	1.78	
OREAS 223 (Fire Assay) Meas	1.789	
OREAS 223 (Fire Assay) Cert	1.78	
OREAS 223 (Fire Assay) Meas	1.741	
OREAS 223 (Fire Assay) Cert	1.78	
282520 Orig	< 0.005	
282520 Dup	< 0.005	
282530 Orig	< 0.005	
282530 Dup	< 0.005	

Analyte Symbol	Au	Au
Unit Symbol	ppm	g/tonne
Lower Limit	0.005	0.02
Method Code	FA-AA	FA-GRA
282540 Orig	< 0.005	
282540 Dup	< 0.005	
282556 Orig	< 0.005	
282556 Dup	< 0.005	
282561 Split Orig PREP DUP	< 0.005	
282561 Split PREP DUP	< 0.005	
282565 Orig	< 0.005	
282565 Dup	< 0.005	
282575 Orig	< 0.005	
282575 Dup	< 0.005	
282589 Orig	< 0.005	
282589 Dup	< 0.005	
282599 Orig	< 0.005	
282599 Dup	< 0.005	
282609 Orig	< 0.005	
282609 Dup	< 0.005	
282610 Split Orig PREP DUP	< 0.005	
282610 Split PREP DUP	< 0.005	
282623 Orig	< 0.005	
282623 Dup	< 0.005	
282633 Orig	< 0.005	
282633 Dup	0.005	
282643 Orig	< 0.005	
282643 Dup	< 0.005	
282658 Orig	< 0.005	
282658 Dup	< 0.005	
282661 Split Orig PREP DUP	< 0.005	
282661 Split PREP DUP	< 0.005	
282667 Orig	0.008	
282667 Dup	< 0.005	
282677 Orig	< 0.005	
282677 Dup	< 0.005	
282696 Orig	< 0.005	
282696 Dup	< 0.005	
282702 Orig	< 0.005	
282702 Dup	< 0.005	
282705 Split Orig	< 0.005	

Analyte Symbol	Au	Au
Unit Symbol	ppm	g/tonne
Lower Limit	0.005	0.02
Method Code	FA-AA	FA-GRA
PREP DUP		
282705 Split PREP DUP	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank		< 0.02

Quality Analysis ... *Innovative Technologies*

Date Submitted: 09-May-17
Invoice No.: A17-04541-TD
Invoice Date: 15-Jun-17
Your Reference: Trelawney Augen Acquisition Corp (622)- W

IAMGOLD Corporation, Cote Gold Division
3 Mesomikenda Lake Road
PO Box 100
Gogama ON P0M 1W0
Canada

ATTN: Alan Smith

CERTIFICATE OF ANALYSIS

195 Rock samples were submitted for analysis.

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

REPORT **A17-04541-TD**

Notes:

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

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
1752 Riverside Drive, Timmins, Ontario, Canada, P4R 1N1
TELEPHONE +705 264-0123 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Timmins@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Date Submitted: 09-May-17
Invoice No.: A17-04541-TD
Invoice Date: 15-Jun-17
Your Reference: Trelawney Augen Acquisition Corp (622)- W

IAMGOLD Corporation, Cote Gold Division
3 Mesomikenda Lake Road
PO Box 100
Gogama ON P0M 1W0
Canada

ATTN: Alan Smith

CERTIFICATE OF ANALYSIS

195 Rock samples were submitted for analysis.

The following analytical package(s) were requested: Code UT-6 Total Digestion ICP & ICP/MS

REPORT **A17-04541-TD**

Notes:

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

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
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E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
282511	27.5	0.65	0.76	6.58	1.64	2.76	< 0.1	43	11.8	442	2.66	3.3	60	8.6	1.2	1.0	0.4	< 0.05	1.31	8.6	0.57	0.25	< 0.1
282512	34.2	0.25	0.34	3.30	1.34	8.26	0.3	62	11.7	690	1.79	1.0	100	6.8	0.7	0.8	0.2	8.03	5.05	7.4	0.45	0.11	0.2
282513	9.2	0.42	0.47	6.46	1.54	2.61	< 0.1	39	5.2	406	2.47	3.2	70	7.9	1.1	0.9	0.4	< 0.05	0.97	7.8	0.56	0.07	< 0.1
282514	9.9	0.45	0.51	6.76	1.64	2.51	< 0.1	38	11.3	401	2.40	3.4	50	9.5	1.2	1.0	0.4	< 0.05	1.20	8.3	0.56	0.09	< 0.1
282515	11.3	0.50	0.68	6.55	1.87	2.84	< 0.1	36	7.2	505	2.28	3.3	30	7.2	1.2	0.9	0.4	< 0.05	1.06	7.5	0.60	0.14	< 0.1
282516	10.3	0.50	0.82	6.53	1.82	2.38	< 0.1	33	6.7	453	2.37	3.2	150	7.2	1.0	1.0	0.3	< 0.05	1.15	7.5	0.57	0.08	< 0.1
282517	11.4	0.53	0.67	7.46	1.87	2.06	0.1	33	7.8	416	2.40	3.7	100	7.0	1.1	1.0	0.4	< 0.05	1.27	7.8	0.63	0.08	< 0.1
282518	16.3	0.52	0.91	7.13	1.74	1.86	< 0.1	37	9.3	480	2.48	3.7	60	7.8	1.1	1.1	0.4	< 0.05	1.14	7.8	0.61	0.11	< 0.1
282519	14.7	0.43	0.41	4.44	1.58	2.38	0.1	32	7.1	356	2.51	3.2	70	6.7	0.8	0.9	0.2	< 0.05	0.83	6.6	0.36	0.10	0.8
282520	20.2	0.40	1.02	6.58	1.54	1.92	< 0.1	34	15.2	493	2.50	3.4	40	7.6	1.1	1.1	0.3	< 0.05	1.10	7.4	0.60	0.11	< 0.1
282521	24.5	0.41	1.12	6.81	1.75	2.35	< 0.1	39	10.3	534	2.67	3.5	50	8.6	1.2	1.0	0.4	< 0.05	1.01	7.9	0.59	0.08	< 0.1
282522	29.1	0.34	1.01	6.64	1.44	1.75	< 0.1	36	8.2	323	2.72	3.4	70	9.2	1.2	1.1	0.4	< 0.05	0.85	8.4	0.56	0.06	< 0.1
282523	24.2	0.33	1.02	6.83	1.94	3.31	< 0.1	35	5.7	502	2.53	3.4	80	8.2	1.6	0.9	0.6	< 0.05	1.06	7.4	0.75	0.07	< 0.1
282524	20.9	2.96	1.43	9.41	1.73	4.61	< 0.1	112	19.9	910	5.68	3.0	30	13.1	4.0	2.8	1.4	< 0.05	1.22	19.6	1.73	0.03	< 0.1
282525	23.3	0.33	1.06	6.56	2.06	1.97	< 0.1	33	16.5	500	2.70	3.4	80	8.5	1.2	1.0	0.4	< 0.05	1.20	7.6	0.59	0.19	< 0.1
282526	25.4	0.37	0.99	7.04	1.71	1.75	< 0.1	33	9.8	395	2.60	3.3	70	7.9	1.1	1.1	0.4	< 0.05	1.17	8.3	0.62	0.10	< 0.1
282527	19.9	0.38	1.10	6.77	1.76	2.36	< 0.1	33	55.9	456	2.47	3.0	60	8.6	1.1	0.9	0.4	< 0.05	1.02	7.4	0.58	0.18	< 0.1
282528	20.8	0.44	1.11	6.92	1.61	1.93	0.1	42	8.6	514	2.84	3.4	70	12.4	1.2	1.1	0.4	< 0.05	1.25	9.0	0.57	0.12	< 0.1
282529	17.9	0.64	0.92	7.38	1.89	1.71	0.1	51	10.6	566	2.84	3.6	50	12.5	1.3	1.1	0.4	< 0.05	1.54	9.2	0.65	0.10	< 0.1
282530	15.9	0.71	0.57	5.18	1.59	0.86	< 0.1	53	13.3	510	3.01	3.7	60	13.1	1.1	1.2	0.3	< 0.05	1.09	9.9	0.46	0.09	< 0.1
282531	5.0	1.91	0.73	7.46	1.92	2.67	< 0.1	50	14.5	618	2.50	2.3	50	9.4	0.6	1.0	0.2	< 0.05	1.42	9.4	0.68	0.07	< 0.1
282532	15.1	2.81	0.71	5.89	1.12	2.39	< 0.1	52	51.0	521	2.86	2.4	50	16.5	0.6	0.9	0.2	< 0.05	0.96	9.9	0.55	0.11	< 0.1
282533	23.1	2.62	0.87	5.60	1.10	2.27	< 0.1	58	59.3	462	3.60	2.4	40	25.0	0.6	1.3	0.2	< 0.05	1.09	12.1	0.52	0.16	< 0.1
282534	19.5	2.27	0.75	6.92	1.35	1.75	< 0.1	46	43.1	401	2.91	2.3	110	24.2	0.8	1.2	0.3	< 0.05	1.24	10.3	0.61	0.14	< 0.1
282535	16.2	1.72	0.47	6.40	1.25	1.24	< 0.1	40	30.0	344	2.47	2.1	30	15.2	0.9	1.0	0.3	< 0.05	0.94	9.3	0.62	0.23	< 0.1
282536	8.4	1.49	3.48	5.44	0.55	4.71	0.2	94	124	3500	10.3	1.7	40	116	2.2	0.8	0.8	0.18	3.63	32.9	1.51	0.11	1.1
282537	16.1	1.58	0.42	6.36	1.24	2.03	0.9	43	28.2	615	2.59	2.3	80	17.9	1.0	0.7	0.3	< 0.05	0.74	10.2	0.66	0.16	< 0.1
282538	23.8	1.03	0.54	7.37	1.32	1.81	0.3	80	44.2	954	3.57	2.6	60	43.1	1.1	0.8	0.4	0.14	1.24	21.2	0.80	0.27	< 0.1
282539	21.8	0.92	0.54	6.85	1.27	2.22	0.5	78	46.3	1360	3.78	2.4	60	35.1	0.9	0.8	0.3	0.10	0.95	17.5	0.77	0.10	< 0.1
282540	26.9	1.07	0.57	4.59	1.03	2.09	0.2	105	75.9	1280	4.06	2.0	40	54.0	0.9	0.7	0.3	0.07	0.80	26.4	0.52	0.11	0.1
282541	14.4	2.05	0.53	6.88	1.36	3.07	< 0.1	38	14.0	745	1.98	1.9	90	7.9	0.4	0.8	0.1	< 0.05	1.00	4.9	0.49	0.04	< 0.1
282542	11.1	2.15	0.40	7.24	1.49	3.19	0.1	40	15.9	759	1.56	1.9	60	8.3	0.4	0.8	0.2	< 0.05	1.26	5.7	0.56	0.08	< 0.1
282543	24.7	0.45	0.76	5.79	1.21	1.18	< 0.1	62	64.4	1790	7.14	2.7	70	41.5	1.4	0.9	0.4	< 0.05	1.19	13.3	0.74	0.13	< 0.1
282544	21.6	0.56	0.92	5.58	1.10	1.34	< 0.1	60	65.1	2330	7.63	2.8	40	43.8	1.3	0.6	0.4	< 0.05	1.00	16.6	0.70	0.09	< 0.1
282545	19.8	0.66	0.85	6.09	1.33	1.24	0.2	58	59.7	2060	6.83	3.0	50	39.5	1.4	0.8	0.5	< 0.05	1.10	14.9	0.81	0.12	< 0.1
282546	23.9	0.51	0.85	6.39	1.34	1.24	< 0.1	66	78.4	2250	7.61	3.2	50	47.2	1.3	0.7	0.4	< 0.05	1.14	14.0	0.73	0.09	0.5
282547	14.1	0.63	0.78	5.51	1.31	1.43	0.2	54	68.5	2330	6.80	3.0	30	62.6	1.4	0.7	0.5	< 0.05	1.06	17.4	0.74	0.17	< 0.1
282548	21.4	2.81	1.39	8.35	1.58	4.32	< 0.1	94	18.7	917	5.60	2.5	50	15.1	3.8	2.6	1.4	< 0.05	1.23	20.4	1.59	0.09	< 0.1
282549	21.5	0.53	0.84	5.95	1.32	1.21	< 0.1	65	70.2	2260	7.28	3.0	80	50.2	1.5	0.8	0.5	< 0.05	1.11	15.1	0.76	0.08	< 0.1
282550	20.6	0.69	0.97	5.26	0.84	1.69	< 0.1	64	83.9	3320	9.38	2.5	100	61.2	1.3	0.6	0.4	< 0.05	0.76	17.2	0.81	0.13	< 0.1
282551	19.0	1.02	0.89	5.77	1.02	1.38	< 0.1	73	98.7	2530	7.36	3.0	40	62.3	1.4	0.6	0.5	< 0.05	0.88	18.8	0.75	0.44	< 0.1
282552	15.8	2.35	0.58	6.64	1.14	1.59	< 0.1	49	25.6	1240	3.46	2.7	20	17.1	1.1	0.9	0.4	< 0.05	0.81	9.2	0.62	0.05	< 0.1

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
282553	21.0	2.21	0.70	7.66	1.12	1.79	< 0.1	79	38.9	1240	4.09	2.2	90	21.7	1.2	0.8	0.4	< 0.05	0.82	11.9	0.66	0.08	< 0.1
282554	18.8	1.94	0.65	6.88	0.94	1.96	< 0.1	56	32.6	1420	4.53	2.4	70	20.7	1.1	0.9	0.4	< 0.05	0.72	13.6	0.66	0.10	< 0.1
282555	16.8	1.92	0.57	5.95	0.92	1.71	< 0.1	57	27.6	1130	5.67	2.7	60	26.6	1.2	0.8	0.4	< 0.05	0.70	19.0	0.63	1.35	< 0.1
282556	22.5	1.95	0.69	8.08	1.27	1.81	< 0.1	63	39.0	807	4.25	2.8	80	26.5	1.3	3.2	0.5	< 0.05	0.96	11.0	0.83	0.12	< 0.1
282557	19.3	1.86	0.62	6.72	1.05	1.96	< 0.1	77	27.1	621	4.84	2.8	50	25.4	1.4	0.8	0.5	< 0.05	0.85	20.8	0.72	0.25	< 0.1
282558	16.3	2.38	0.54	4.86	0.92	1.70	< 0.1	55	34.4	820	3.26	3.2	60	17.5	1.0	0.9	0.3	< 0.05	0.62	9.7	0.40	0.10	< 0.1
282559	16.1	2.66	0.64	6.54	1.11	1.55	< 0.1	75	31.8	562	3.37	2.9	60	22.9	0.9	1.0	0.3	< 0.05	0.81	17.1	0.40	0.22	< 0.1
282560	29.2	2.02	1.23	7.26	1.71	2.57	< 0.1	113	73.2	529	4.20	2.5	50	36.4	2.4	3.0	0.8	0.52	10.8	14.8	1.14	1.53	2.2
282561	14.0	2.26	0.65	6.30	1.01	2.37	< 0.1	51	24.2	526	2.92	2.5	40	19.4	1.0	0.8	0.3	< 0.05	0.91	10.2	0.52	0.12	< 0.1
282562	15.6	2.52	0.76	6.87	0.93	2.23	< 0.1	64	57.7	524	3.72	2.9	80	30.0	1.2	0.7	0.4	< 0.05	0.80	13.2	0.73	0.17	< 0.1
282563	14.4	2.74	0.59	5.89	0.83	2.55	< 0.1	40	25.4	523	2.94	2.4	70	13.8	0.9	0.7	0.3	< 0.05	0.76	10.0	0.59	0.17	< 0.1
282564	14.7	2.70	0.57	5.99	0.95	2.15	< 0.1	53	36.1	515	3.11	2.7	20	21.4	0.9	0.7	0.3	< 0.05	0.82	12.0	0.56	0.14	< 0.1
282565	15.4	2.63	0.62	5.79	0.75	1.93	< 0.1	43	24.0	511	3.15	2.6	60	15.6	0.8	0.9	0.3	< 0.05	0.66	10.5	0.43	0.12	< 0.1
282566	15.7	2.28	0.70	6.63	0.87	2.84	< 0.1	55	29.6	654	3.05	2.6	30	17.5	0.9	0.9	0.3	< 0.05	0.73	12.0	0.73	0.09	< 0.1
282567	14.0	2.58	0.89	5.70	0.92	2.44	< 0.1	62	56.3	463	3.71	2.8	50	27.9	0.9	0.8	0.3	< 0.05	0.79	15.7	0.43	0.06	< 0.1
282568	13.4	2.72	0.57	5.60	0.88	2.17	0.1	50	22.9	459	2.62	2.8	70	16.9	0.7	0.9	0.2	< 0.05	0.86	11.0	0.36	0.16	< 0.1
282569	12.6	2.82	0.73	6.48	0.83	2.12	< 0.1	53	25.7	579	3.22	2.8	70	19.8	1.0	0.8	0.3	< 0.05	0.70	11.7	0.62	0.12	< 0.1
282570	15.4	2.30	0.80	7.21	1.09	2.07	< 0.1	70	28.6	587	3.46	2.5	60	20.2	1.1	1.0	0.4	< 0.05	1.01	12.8	0.77	0.07	< 0.1
282571	15.0	2.86	0.79	7.01	0.95	1.95	< 0.1	62	24.3	527	3.41	2.8	60	22.4	1.1	0.8	0.4	< 0.05	0.81	12.7	0.62	0.10	< 0.1
282572	20.9	> 3.00	1.48	9.20	1.60	4.51	0.1	81	35.2	951	5.80	2.1	30	14.1	4.2	2.8	1.5	< 0.05	1.21	20.4	1.80	0.03	< 0.1
282573	16.8	2.46	0.81	6.49	0.85	2.33	< 0.1	60	31.8	607	3.81	2.5	60	21.3	1.0	0.8	0.4	1.14	0.70	12.1	0.64	0.13	< 0.1
282574	31.2	0.88	1.91	6.47	0.88	8.11	< 0.1	192	144	1440	6.08	1.3	30	108	1.1	0.4	0.4	< 0.05	0.60	37.7	0.65	0.05	0.1
282575	26.8	1.50	1.98	6.63	0.66	8.05	< 0.1	206	135	1510	6.26	1.6	60	104	1.1	0.3	0.4	< 0.05	0.48	35.9	0.73	0.04	< 0.1
282576	22.3	2.28	3.01	6.70	0.03	8.31	< 0.1	189	155	1430	6.93	0.5	50	126	1.5	0.3	0.5	< 0.05	0.09	39.7	0.61	0.02	0.2
282577	30.9	2.17	4.00	7.41	0.09	6.07	< 0.1	208	177	1360	7.63	0.3	140	137	1.7	0.4	0.6	< 0.05	0.19	47.4	0.70	0.13	< 0.1
282578	18.5	1.78	3.37	5.73	0.01	8.26	< 0.1	227	232	1540	7.18	0.4	100	132	1.5	0.4	0.5	< 0.05	0.07	41.0	0.89	0.03	0.1
282579	23.1	1.73	4.80	7.61	0.02	5.96	< 0.1	223	253	1660	8.94	0.4	90	157	2.0	0.2	0.7	< 0.05	0.10	51.6	0.80	0.04	< 0.1
282580	18.5	1.88	2.59	6.74	0.18	8.00	< 0.1	139	199	1350	6.59	0.3	60	121	1.6	0.2	0.6	< 0.05	0.15	41.0	0.66	0.02	< 0.1
282581	22.5	1.64	2.58	7.25	0.32	7.46	< 0.1	228	243	1500	7.17	0.6	50	136	1.9	0.2	0.6	< 0.05	0.33	44.3	0.72	0.02	< 0.1
282582	29.1	1.69	3.73	7.59	0.49	6.36	0.1	108	144	1310	6.93	0.5	80	143	1.5	0.3	0.5	< 0.05	0.32	46.7	0.61	0.02	< 0.1
282583	22.4	0.99	2.29	6.52	0.54	8.39	0.2	166	153	1920	7.21	0.8	30	111	1.5	0.3	0.5	< 0.05	0.55	41.7	0.66	0.03	0.1
282584	21.2	1.98	1.32	6.10	2.59	2.50	< 0.1	140	62.9	535	6.85	1.9	120	33.4	1.7	1.6	0.6	2.85	4.70	20.1	0.83	4.79	11.3
282585	21.5	1.92	3.34	6.67	0.02	7.82	< 0.1	205	135	1510	6.57	0.7	50	89.2	1.4	0.2	0.5	< 0.05	0.06	42.0	0.52	0.02	0.2
282586	19.1	1.03	2.47	6.13	0.65	8.02	< 0.1	199	145	1330	5.95	1.1	90	104	1.2	0.5	0.4	< 0.05	0.98	38.7	0.58	0.05	< 0.1
282587	21.8	0.93	2.60	5.83	0.65	7.25	0.1	184	153	1170	7.20	1.1	60	60.6	1.4	0.5	0.4	< 0.05	0.81	41.2	0.87	0.13	< 0.1
282588	19.4	1.26	2.36	6.57	1.09	5.59	0.1	121	115	1140	5.82	0.8	60	73.7	0.7	0.4	0.2	< 0.05	1.14	33.7	0.65	0.08	< 0.1
282589	18.9	1.95	1.58	6.99	1.09	3.76	0.4	118	103	922	4.75	1.2	140	80.4	0.6	0.5	0.2	< 0.05	1.18	30.8	0.57	0.11	< 0.1
282590	15.9	1.03	1.60	6.60	1.38	5.37	0.1	149	91.7	1200	4.57	1.9	90	66.6	0.8	0.9	0.3	< 0.05	1.44	25.9	0.78	0.09	0.4
282591	11.9	2.55	1.62	6.50	0.98	3.28	0.2	114	85.7	919	4.37	3.2	70	46.8	1.3	0.9	0.4	< 0.05	1.03	22.6	1.34	0.14	0.4
282592	11.9	1.41	1.83	6.32	1.49	3.34	< 0.1	114	132	969	4.40	2.8	70	65.7	1.0	1.1	0.4	< 0.05	1.67	21.0	1.04	0.09	< 0.1
282593	23.2	1.53	5.98	4.73	0.01	6.18	< 0.1	118	405	1140	5.29	1.8	20	267	0.7	0.6	0.3	< 0.05	0.10	42.0	0.98	0.08	< 0.1
282594	8.9	0.71	2.44	4.81	1.26	7.91	0.2	175	105	1720	5.98	0.9	30	80.9	0.9	0.7	0.3	< 0.05	1.27	35.2	0.58	0.09	0.1

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
282595	17.2	1.91	2.68	5.45	0.01	7.57	< 0.1	243	90.8	1570	7.42	0.9	40	79.3	1.7	0.3	0.6	< 0.05	0.08	43.0	0.65	0.02	0.2
282596	19.7	2.99	1.83	9.26	1.76	4.70	< 0.1	65	22.8	979	6.39	2.7	30	14.5	4.4	2.8	1.6	< 0.05	1.34	22.4	1.72	0.04	< 0.1
282597	18.7	2.16	4.38	7.39	0.02	6.84	0.1	167	89.5	1620	7.84	0.2	130	84.5	2.0	0.3	0.7	< 0.05	0.07	51.4	0.69	0.02	< 0.1
282598	16.9	1.71	5.11	7.49	0.02	6.50	< 0.1	137	176	1370	7.81	0.2	60	131	2.0	0.2	0.7	< 0.05	0.09	52.5	0.81	0.03	< 0.1
282599	24.2	1.20	2.18	6.51	0.78	6.47	0.1	173	142	1240	5.86	1.3	90	97.4	1.6	0.9	0.5	< 0.05	0.92	42.0	0.87	0.09	< 0.1
282600	24.9	1.15	1.54	6.63	0.87	7.89	0.1	181	128	1500	6.00	1.0	60	118	1.7	0.4	0.6	< 0.05	0.98	51.0	0.51	0.09	< 0.1
282601	22.3	1.76	1.86	6.17	0.54	7.34	< 0.1	191	122	1340	5.90	0.5	60	116	1.6	0.3	0.5	< 0.05	0.79	43.9	0.52	0.06	< 0.1
282602	31.0	0.24	5.35	5.51	0.11	8.47	0.1	192	449	1730	6.80	1.0	50	229	0.8	0.2	0.3	< 0.05	0.21	56.2	0.44	0.04	< 0.1
282603	32.0	0.69	4.33	5.64	0.40	7.71	0.1	200	308	1650	6.84	0.9	60	173	0.7	0.2	0.2	< 0.05	0.44	48.5	0.48	0.02	0.3
282604	35.9	1.03	3.77	6.05	0.41	7.79	< 0.1	208	159	1530	6.37	0.9	50	114	0.8	0.2	0.2	< 0.05	0.47	41.9	0.44	0.02	0.2
282605	36.6	0.39	3.20	6.17	0.57	8.80	0.1	212	185	1420	6.49	1.0	30	111	0.8	0.2	0.2	< 0.05	0.81	44.0	0.44	0.03	< 0.1
282606	31.3	0.44	2.91	6.31	0.84	7.24	< 0.1	185	142	1690	7.06	1.7	20	94.3	0.9	0.3	0.3	< 0.05	1.14	36.1	0.63	0.03	0.7
282607	35.1	0.90	4.42	6.05	0.16	7.49	< 0.1	204	231	1570	6.98	0.9	80	100	0.8	0.2	0.2	< 0.05	0.28	40.6	0.45	0.02	< 0.1
282608	11.7	1.64	2.41	6.31	0.02	8.88	< 0.1	203	246	2020	7.37	0.3	70	103	1.6	0.2	0.5	< 0.05	0.14	42.0	0.49	0.03	< 0.1
282609	17.0	1.87	4.35	6.56	0.01	7.15	< 0.1	207	157	1250	6.95	0.8	90	99.6	0.9	0.2	0.3	< 0.05	0.17	44.4	0.30	0.03	< 0.1
282610	32.5	0.73	4.51	6.58	0.83	6.60	< 0.1	199	131	1700	6.72	0.9	40	125	0.6	0.3	0.2	< 0.05	1.09	44.9	0.39	0.02	0.2
282611	30.0	0.72	1.52	5.89	0.59	5.88	0.4	200	98.2	1470	6.82	2.3	50	80.2	1.0	0.4	0.3	< 0.05	0.92	50.4	0.68	0.12	0.6
282612	38.2	0.29	0.60	3.51	1.55	8.53	0.3	65	13.4	720	1.96	1.1	130	5.7	0.8	0.8	0.2	7.96	5.20	7.8	0.48	0.13	0.3
282613	33.0	0.83	1.67	6.47	0.48	6.14	0.6	208	77.7	1740	7.65	2.2	60	61.7	2.0	0.5	0.6	< 0.05	0.77	45.4	1.01	0.02	< 0.1
282614	26.8	1.50	1.85	5.99	0.44	6.85	0.2	179	97.7	2110	8.26	1.7	120	63.3	2.0	0.6	0.7	< 0.05	0.89	43.9	1.01	0.02	< 0.1
282615	24.8	1.48	1.70	6.21	0.63	6.13	0.2	173	91.7	1750	7.82	1.8	100	65.7	2.3	0.6	0.7	< 0.05	1.08	43.3	1.00	0.05	< 0.1
282616	14.7	1.74	1.03	6.68	1.14	4.15	< 0.1	84	39.6	917	4.09	2.7	40	24.7	0.9	0.9	0.3	< 0.05	1.94	18.1	0.61	0.09	0.2
282617	19.9	0.87	1.60	6.73	1.29	5.42	< 0.1	167	88.0	1470	7.67	1.5	60	60.0	2.8	0.6	0.9	< 0.05	2.39	43.6	1.09	0.06	< 0.1
282618	12.6	0.81	1.67	5.37	1.23	6.59	0.2	115	81.0	1760	7.50	0.9	80	55.5	2.0	0.5	0.7	< 0.05	2.15	35.0	0.87	0.19	< 0.1
282619	5.5	1.75	0.29	7.03	1.96	2.01	< 0.1	20	12.2	206	1.04	2.4	140	7.9	0.2	1.0	0.1	< 0.05	2.93	3.4	0.49	0.13	< 0.1
282620	3.3	2.71	0.27	6.87	1.73	1.89	< 0.1	21	12.6	179	0.99	2.5	90	8.4	0.2	1.1	0.1	< 0.05	2.59	3.7	0.45	0.23	< 0.1
282621	4.3	> 3.00	0.31	7.19	1.59	2.09	< 0.1	24	15.4	224	1.05	2.6	50	9.5	0.2	1.3	0.1	< 0.05	2.28	3.8	0.48	0.29	< 0.1
282622	3.9	> 3.00	0.33	7.22	1.75	1.66	0.2	25	16.1	259	1.06	2.5	120	8.2	0.2	1.2	0.1	< 0.05	2.15	4.4	0.43	0.30	< 0.1
282623	20.3	0.31	2.53	5.16	0.44	6.54	0.4	202	71.7	5260	12.3	2.0	110	55.1	2.4	0.6	0.8	< 0.05	0.75	35.6	1.06	0.10	< 0.1
282624	20.3	2.92	1.55	8.96	1.68	4.45	< 0.1	85	22.0	973	6.04	2.0	50	17.2	4.1	2.5	1.5	< 0.05	1.23	22.9	1.84	0.03	< 0.1
282625	25.6	0.75	1.80	5.74	0.51	6.76	0.3	146	97.0	3640	10.3	0.9	150	67.3	2.9	0.6	0.9	< 0.05	0.72	41.4	0.99	0.06	< 0.1
282626	22.6	0.97	1.71	5.55	0.57	8.58	0.2	106	81.2	2230	7.85	0.8	100	58.7	2.4	0.5	0.8	< 0.05	0.98	36.8	0.93	0.04	< 0.1
282627	25.3	1.12	1.90	5.66	0.61	6.24	< 0.1	116	72.8	2130	8.33	0.9	70	61.8	2.4	0.5	0.8	< 0.05	0.89	41.8	1.06	0.04	< 0.1
282628	18.2	0.55	2.00	6.12	1.34	6.39	0.4	116	59.7	2320	8.70	1.0	60	53.1	2.6	0.6	0.9	0.05	2.31	37.8	1.11	0.05	< 0.1
282629	4.0	0.56	1.09	6.43	2.68	3.31	< 0.1	48	139	528	2.25	2.1	20	72.6	0.4	0.9	0.1	< 0.05	3.94	16.3	0.47	0.10	< 0.1
282630	3.0	> 3.00	0.42	6.77	1.23	2.11	< 0.1	22	22.3	214	1.13	2.6	50	13.1	0.3	0.9	0.1	< 0.05	1.24	4.1	0.54	0.20	< 0.1
282631	4.9	> 3.00	0.49	6.61	1.49	2.01	0.1	29	31.9	200	1.11	2.9	20	20.1	0.2	1.0	0.1	< 0.05	1.33	5.3	0.49	0.16	< 0.1
282632	14.1	2.70	1.20	6.70	1.73	2.65	< 0.1	46	96.8	359	2.00	2.4	< 10	65.4	0.3	1.0	0.1	< 0.05	2.79	12.3	0.54	0.16	< 0.1
282633	5.6	> 3.00	0.27	6.25	1.68	1.82	0.2	18	23.1	157	0.78	2.5	100	8.0	0.2	0.9	0.1	< 0.05	1.43	4.4	0.28	0.08	< 0.1
282634	4.3	> 3.00	0.27	6.75	1.35	2.55	< 0.1	14	13.1	209	0.86	2.5	80	8.5	0.2	0.8	0.1	< 0.05	1.26	5.1	0.47	0.10	0.2
282635	4.5	> 3.00	0.21	7.26	1.37	2.13	0.1	15	13.3	169	0.85	2.7	110	7.9	0.2	0.9	0.1	< 0.05	1.14	3.5	0.50	0.11	< 0.1
282636	7.9	1.60	2.70	5.71	0.56	5.12	0.1	86	155	3720	9.97	1.3	50	118	2.3	0.8	0.9	0.18	3.55	33.5	1.54	0.10	0.3

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
282637	5.7	2.96	0.20	6.86	2.02	2.46	< 0.1	22	13.1	180	0.96	2.6	120	8.7	0.2	1.1	0.1	< 0.05	1.94	4.8	0.65	0.14	< 0.1
282638	5.3	> 3.00	0.19	7.03	1.95	2.38	0.1	18	13.5	180	0.96	2.6	< 10	9.5	0.2	1.2	0.1	< 0.05	1.74	4.9	0.46	0.17	< 0.1
282639	5.2	> 3.00	0.18	6.65	1.69	1.89	< 0.1	21	15.3	139	0.89	2.5	70	11.6	0.2	0.9	0.1	< 0.05	1.57	4.4	0.46	0.14	< 0.1
282640	5.4	> 3.00	0.15	4.91	1.38	2.12	< 0.1	21	25.9	160	0.90	2.3	30	9.4	0.1	1.0	< 0.1	< 0.05	1.40	4.0	0.22	0.17	< 0.1
282641	6.7	2.50	0.21	5.67	2.00	2.20	< 0.1	21	14.1	153	0.94	2.4	210	8.2	0.2	1.1	0.1	< 0.05	2.34	3.4	0.37	0.16	0.2
282642	6.0	2.37	0.40	6.70	1.95	2.94	< 0.1	31	15.2	263	1.47	2.5	130	12.0	0.4	1.0	0.1	< 0.05	1.78	6.1	0.49	0.11	1.5
282643	20.3	0.16	2.86	6.51	1.50	5.99	< 0.1	112	85.5	1120	9.21	1.4	20	69.4	3.0	0.7	1.0	< 0.05	1.52	48.8	1.07	0.06	< 0.1
282644	9.6	0.10	2.07	4.88	1.09	10.1	0.9	200	120	1780	7.23	2.1	170	49.0	2.4	0.8	0.8	< 0.05	1.18	35.4	1.09	0.07	< 0.1
282645	12.5	0.06	1.87	5.88	1.44	6.11	< 0.1	221	92.7	1230	8.05	2.4	60	59.7	3.1	0.8	1.0	< 0.05	1.67	40.2	1.02	0.07	< 0.1
282646	14.2	0.55	1.79	5.58	0.84	7.36	0.1	195	106	1500	8.07	1.8	40	69.8	2.6	0.5	0.8	< 0.05	0.94	48.1	0.89	0.05	< 0.1
282647	16.6	1.69	2.86	6.02	0.17	7.60	0.3	178	139	1420	6.69	0.8	50	100	1.7	0.2	0.6	0.06	0.36	42.6	0.58	0.03	< 0.1
282648	19.7	2.92	1.45	9.16	1.57	4.53	< 0.1	70	15.4	960	5.58	2.1	60	14.4	4.4	2.6	1.6	< 0.05	1.34	20.4	1.86	0.04	< 0.1
282649	16.0	1.68	2.94	5.61	0.03	8.03	< 0.1	196	136	1350	6.18	0.6	60	100	1.3	0.2	0.5	< 0.05	0.16	37.5	0.47	0.03	< 0.1
282650	16.9	1.99	2.22	6.50	0.05	8.11	< 0.1	227	126	1700	7.47	0.3	60	102	1.9	0.2	0.6	< 0.05	0.12	48.0	0.61	0.02	< 0.1
282651	19.4	1.93	2.04	6.22	0.05	8.74	< 0.1	197	129	1540	6.69	0.2	70	88.5	1.8	0.3	0.6	< 0.05	0.10	42.0	0.65	0.03	< 0.1
282652	21.5	1.65	2.97	6.20	0.04	7.35	0.1	202	65.4	1770	7.48	0.2	50	77.0	2.0	0.3	0.6	< 0.05	0.11	41.1	0.70	0.02	< 0.1
282653	26.5	1.41	3.19	6.21	0.03	6.29	< 0.1	196	76.4	1670	7.73	0.2	80	81.6	1.8	0.3	0.6	< 0.05	0.15	45.9	0.56	0.08	< 0.1
282654	23.9	1.65	2.74	6.02	0.04	7.67	0.1	208	89.6	1450	6.66	0.6	120	73.7	1.9	0.2	0.7	< 0.05	0.12	39.2	0.53	0.08	< 0.1
282655	22.4	2.31	2.41	6.34	0.13	8.84	0.1	171	209	1270	5.92	0.2	10	126	1.4	0.2	0.5	< 0.05	0.10	40.2	0.43	0.03	0.2
282656	29.2	1.51	3.10	6.63	0.44	7.08	0.1	159	146	1210	6.87	0.4	110	130	1.6	0.3	0.5	< 0.05	0.17	37.6	0.39	0.07	< 0.1
282657	30.6	1.58	2.95	6.42	0.16	7.88	< 0.1	146	63.5	1430	7.39	0.3	40	80.6	1.9	0.2	0.6	< 0.05	0.12	43.8	0.56	0.03	< 0.1
282658	30.4	1.98	3.24	6.48	0.03	7.18	0.2	179	67.7	1480	7.67	0.1	40	84.8	1.8	0.3	0.6	< 0.05	0.13	52.9	0.58	0.05	< 0.1
282659	21.2	2.06	3.03	6.73	0.07	6.67	< 0.1	237	72.2	1610	7.87	0.2	10	85.5	2.0	0.3	0.7	< 0.05	0.14	44.6	0.71	0.02	< 0.1
282660	31.3	2.12	1.47	7.23	3.38	2.82	0.2	103	97.9	566	4.64	2.7	< 10	42.6	2.5	2.8	0.9	0.58	11.5	15.8	1.18	1.52	1.6
282661	23.5	1.84	4.00	6.90	0.06	6.36	< 0.1	247	99.5	1760	9.22	0.3	30	89.0	2.0	0.2	0.7	0.05	0.10	49.7	0.72	0.02	< 0.1
282662	33.8	1.97	3.39	6.83	0.09	6.63	< 0.1	246	108	1690	8.26	0.4	70	83.0	2.0	0.3	0.7	< 0.05	0.10	43.8	0.66	0.03	< 0.1
282663	30.1	1.60	2.48	5.35	0.03	6.82	< 0.1	193	92.5	1300	6.54	0.3	80	59.5	1.6	0.2	0.5	< 0.05	0.06	34.8	0.49	0.04	< 0.1
282664	33.4	2.05	2.65	6.05	0.02	7.60	< 0.1	137	80.1	1500	7.71	0.1	80	77.1	1.6	0.2	0.5	< 0.05	0.05	44.2	0.42	0.06	< 0.1
282665	31.3	1.96	2.60	5.97	0.01	6.90	0.1	113	115	1400	7.12	0.1	50	71.2	1.5	0.2	0.5	< 0.05	0.08	48.1	0.56	0.06	< 0.1
282666	28.5	2.08	3.08	6.56	0.07	4.86	< 0.1	238	62.3	1360	7.67	0.4	20	81.4	1.7	0.3	0.6	< 0.05	0.14	45.0	0.69	0.09	< 0.1
282667	32.4	1.84	2.82	5.94	0.10	6.15	< 0.1	164	87.2	1480	7.70	0.2	110	84.5	1.5	0.3	0.5	0.06	0.06	49.1	0.50	0.11	< 0.1
282668	27.5	2.30	2.89	6.55	0.11	5.47	< 0.1	229	129	1530	7.77	0.5	60	94.8	1.6	0.4	0.5	< 0.05	0.06	45.3	0.71	0.08	< 0.1
282669	34.4	1.57	3.64	6.25	0.17	5.49	0.2	236	128	1580	8.80	0.6	80	90.4	1.6	0.3	0.5	< 0.05	0.13	47.3	0.69	0.03	< 0.1
282670	27.0	2.28	3.04	6.37	0.09	5.45	< 0.1	228	138	1430	8.37	0.5	20	96.0	1.6	0.4	0.5	0.15	0.11	58.2	0.68	0.09	0.6
282671	26.5	2.05	2.66	6.41	0.09	6.91	< 0.1	179	125	1310	6.94	0.3	50	90.1	1.7	0.3	0.6	< 0.05	0.11	42.7	0.70	0.05	< 0.1
282672	18.4	2.56	1.30	4.73	1.33	4.08	0.4	132	26.5	905	5.31	2.9	70	16.6	2.8	2.3	1.0	< 0.05	1.08	20.0	0.90	0.03	< 0.1
282673	27.6	1.95	3.19	6.69	0.12	5.04	< 0.1	236	202	1390	8.45	0.5	110	95.0	1.6	0.3	0.5	< 0.05	0.14	50.2	0.81	0.08	< 0.1
282674	35.2	1.89	3.44	6.25	0.12	5.87	0.3	216	180	1520	8.42	0.5	100	106	1.5	0.2	0.5	0.12	0.25	54.9	0.74	0.06	0.4
282675	29.4	1.85	2.92	5.94	0.03	6.07	< 0.1	127	141	1300	7.32	0.2	60	79.4	1.5	0.2	0.5	0.06	< 0.05	44.5	0.51	0.07	< 0.1
282676	34.4	2.05	3.62	6.56	0.06	6.95	< 0.1	195	118	1300	8.02	0.3	130	115	1.6	0.5	0.5	< 0.05	0.14	48.2	0.58	0.02	< 0.1
282677	28.5	1.74	3.47	7.12	0.15	6.78	< 0.1	212	139	1400	8.24	0.4	80	119	1.7	0.4	0.6	< 0.05	0.10	48.5	0.69	0.03	< 0.1
282678	36.8	2.29	3.85	7.42	0.31	6.93	< 0.1	230	128	1440	7.96	0.5	100	117	1.8	0.3	0.6	0.10	0.13	50.3	0.79	0.02	< 0.1

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
282679	36.6	2.67	3.43	7.07	0.03	7.22	0.2	230	130	1480	8.06	0.5	20	113	1.7	0.3	0.6	0.15	0.22	49.6	0.98	0.14	< 0.1
282680	24.0	2.30	3.39	7.29	0.16	7.29	< 0.1	237	138	1520	8.52	0.4	70	113	1.8	0.4	0.6	< 0.05	0.07	48.8	0.77	0.04	0.2
282681	35.4	2.30	3.53	7.45	0.24	6.48	0.2	228	126	1560	8.93	0.4	110	115	1.7	0.3	0.6	0.09	0.10	50.0	1.20	0.07	0.2
282682	28.7	2.20	3.37	7.07	0.15	7.24	< 0.1	243	129	1540	8.29	0.5	20	117	1.7	0.4	0.6	< 0.05	0.12	44.6	0.85	0.03	< 0.1
282683	23.7	2.59	3.13	5.58	0.30	6.47	0.1	227	182	1490	7.93	0.4	130	115	1.6	0.3	0.5	< 0.05	0.09	47.0	0.72	0.02	0.4
282684	20.8	1.87	1.70	6.37	2.77	2.61	< 0.1	131	80.4	542	7.26	2.2	30	37.5	1.8	1.7	0.6	3.21	4.88	22.5	0.78	4.56	11.2
282685	27.0	2.01	3.36	6.79	0.16	8.14	< 0.1	204	136	1510	8.10	0.4	60	121	1.9	0.3	0.6	< 0.05	0.10	45.8	0.73	< 0.02	< 0.1
282686	27.5	2.06	3.34	6.98	0.16	7.74	< 0.1	160	113	1440	8.02	0.3	130	112	1.7	0.4	0.6	< 0.05	0.08	45.9	0.68	< 0.02	< 0.1
282687	30.1	1.96	3.12	6.73	0.10	7.78	< 0.1	177	111	1400	7.76	0.2	80	108	1.7	0.3	0.6	< 0.05	0.17	43.3	0.66	0.04	< 0.1
282688	33.5	1.59	3.46	6.38	0.02	6.96	< 0.1	213	140	1230	7.41	0.9	70	105	1.9	0.3	0.6	< 0.05	0.12	40.6	0.69	0.04	< 0.1
282689	26.0	1.17	2.59	5.97	0.71	6.36	< 0.1	175	240	989	6.46	1.7	140	98.8	1.7	0.9	0.6	< 0.05	0.37	40.4	0.74	0.08	< 0.1
282690	23.6	1.79	3.27	5.52	0.02	8.41	< 0.1	116	186	1070	5.93	0.8	30	91.9	2.0	0.7	0.7	< 0.05	0.27	40.3	1.44	0.03	< 0.1
282691	20.1	1.75	3.31	5.49	0.01	7.68	0.1	143	187	1020	6.27	1.2	100	92.7	1.9	0.5	0.7	< 0.05	0.18	42.9	1.40	0.08	< 0.1
282692	20.8	1.73	3.41	5.82	0.01	7.66	0.3	176	308	1080	6.50	1.7	70	98.9	1.9	0.6	0.7	< 0.05	0.13	41.5	1.31	0.03	< 0.1
282693	18.7	1.86	3.20	5.34	0.01	9.85	< 0.1	127	286	1150	5.86	1.0	60	93.7	2.4	0.6	0.8	< 0.05	0.17	43.0	1.49	0.05	< 0.1
282694	20.1	1.86	3.27	5.59	0.01	7.46	0.2	131	251	1040	6.05	0.9	40	89.3	1.9	0.7	0.7	< 0.05	0.20	39.9	1.12	0.06	< 0.1
282695	22.5	2.10	3.91	6.47	0.02	7.24	0.1	134	253	1100	7.27	0.8	70	106	2.1	0.9	0.7	< 0.05	0.15	49.4	1.24	0.07	< 0.1
282696	22.6	> 3.00	1.60	9.10	1.69	4.62	< 0.1	80	21.8	1000	6.28	2.0	90	13.9	4.5	2.9	1.6	< 0.05	1.02	21.7	1.89	0.04	< 0.1
282697	19.4	1.87	3.55	5.58	0.01	7.94	< 0.1	119	203	1110	6.38	0.8	80	102	2.1	0.8	0.7	< 0.05	0.16	42.4	1.21	0.07	< 0.1
282698	17.5	1.84	3.54	5.87	0.02	7.75	< 0.1	130	196	1150	6.51	0.8	140	92.5	1.8	0.8	0.7	< 0.05	0.13	43.2	1.17	0.06	< 0.1
282699	14.1	1.73	3.45	5.05	0.02	7.74	< 0.1	119	226	1130	5.99	1.4	90	84.1	1.9	0.7	0.7	< 0.05	0.25	31.1	1.26	0.04	< 0.1
282700	12.8	1.79	3.59	5.23	0.04	7.35	< 0.1	143	298	1250	6.25	1.8	70	77.8	2.0	0.7	0.7	< 0.05	0.39	34.1	1.79	0.03	< 0.1
282701	20.4	2.11	3.04	5.41	0.01	6.02	< 0.1	234	215	1220	7.87	2.7	90	65.0	3.0	0.7	1.0	< 0.05	0.15	41.0	1.52	0.03	< 0.1
282702	18.4	2.42	2.51	5.64	0.01	8.16	< 0.1	160	190	1160	5.99	2.0	100	51.1	2.7	0.7	0.9	< 0.05	0.12	31.7	1.31	0.04	< 0.1
282703	22.1	2.58	2.38	6.25	0.01	5.48	< 0.1	103	59.7	1040	8.46	0.3	70	54.3	3.0	0.6	1.0	< 0.05	0.08	53.9	1.00	0.06	< 0.1
282704	20.2	2.60	2.52	6.23	0.02	5.13	< 0.1	86	57.1	1110	8.24	0.1	100	56.0	3.2	0.5	1.0	< 0.05	0.18	48.6	1.10	0.05	< 0.1
282705	13.9	2.22	2.50	5.47	0.02	6.75	< 0.1	136	32.2	1320	8.30	0.9	110	45.2	3.5	0.6	1.2	< 0.05	0.56	72.1	1.54	0.07	< 0.1

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
282511	23.0	15.5	7.4	43.1	9.9	36.4	124	3.2	0.85	< 0.1	2	0.2	< 0.1	268	17.8	33.1	3.7	13.2	2.6	2.3	0.3	1.8	49.8
282512	37.7	5.2	19.4	55.8	6.4	202	41	1.4	6.58	< 0.1	< 1	2.0	3.5	216	7.3	14.4	1.9	7.8	1.7	1.5	0.2	1.2	65.6
282513	30.5	13.3	2.1	49.9	9.5	43.8	116	4.2	0.91	< 0.1	1	0.2	0.1	369	18.6	34.2	3.8	13.6	2.7	2.1	0.3	1.8	19.5
282514	28.6	13.9	1.1	52.4	9.8	51.6	121	3.7	0.78	< 0.1	1	0.1	< 0.1	389	18.4	33.7	3.8	13.9	2.8	2.3	0.3	1.8	22.9
282515	35.2	14.3	0.6	54.0	10.7	51.0	125	4.9	0.52	< 0.1	1	0.1	< 0.1	318	19.0	34.2	4.0	13.8	2.8	2.5	0.3	2.0	8.1
282516	36.6	12.7	0.3	52.1	8.9	41.8	118	5.1	0.49	< 0.1	1	0.1	0.1	395	18.7	33.6	3.8	13.3	2.7	2.2	0.3	1.6	10.6
282517	37.2	14.2	< 0.1	53.0	9.3	43.2	142	5.0	0.50	< 0.1	2	0.2	< 0.1	461	21.2	38.2	4.4	14.7	3.0	2.6	0.3	1.8	16.3
282518	41.6	14.7	< 0.1	49.2	9.7	36.4	140	5.7	0.51	< 0.1	2	0.2	< 0.1	379	20.1	36.9	4.1	14.9	2.7	2.4	0.3	1.8	20.1
282519	40.4	13.7	9.3	32.9	6.0	23.1	117	5.4	1.29	< 0.1	2	0.2	0.2	288	7.5	20.1	1.9	7.3	1.6	1.5	0.2	1.2	14.4
282520	43.7	14.6	0.6	45.0	9.4	29.1	134	4.7	0.33	< 0.1	2	0.3	< 0.1	295	19.7	35.3	3.8	14.3	2.5	2.4	0.3	1.8	18.5
282521	42.5	15.9	< 0.1	50.9	10.4	31.2	137	4.9	0.44	< 0.1	1	0.3	< 0.1	306	18.7	33.4	3.9	13.7	2.7	2.5	0.3	1.8	16.8
282522	45.2	15.0	0.1	48.3	10.6	23.9	133	2.8	0.51	< 0.1	1	0.2	< 0.1	304	18.7	34.3	3.8	13.4	2.8	2.2	0.3	1.8	5.2
282523	37.9	14.3	< 0.1	59.0	15.3	29.0	127	3.3	0.51	< 0.1	1	0.3	< 0.1	338	19.7	36.0	4.2	15.1	2.9	3.2	0.5	2.8	29.8
282524	88.6	18.0	< 0.1	92.7	36.2	566	119	8.2	0.41	< 0.1	2	< 0.1	< 0.1	714	29.9	66.6	9.4	39.5	9.2	8.8	1.3	7.1	19.4
282525	40.8	13.6	< 0.1	58.4	9.9	24.3	128	3.5	1.86	< 0.1	1	0.2	< 0.1	377	18.7	33.8	3.9	14.3	2.5	2.4	0.3	1.9	28.6
282526	42.0	15.3	0.7	51.5	10.1	24.4	128	3.1	1.09	< 0.1	1	0.3	< 0.1	369	19.9	35.8	3.9	14.9	3.0	2.4	0.3	1.9	17.1
282527	35.0	14.3	< 0.1	50.7	9.6	27.0	113	1.5	0.97	< 0.1	1	0.2	< 0.1	343	17.6	32.1	3.6	13.4	2.6	2.5	0.3	1.8	22.7
282528	40.7	15.6	0.3	51.2	10.3	33.9	132	4.2	0.72	< 0.1	1	0.3	< 0.1	291	17.1	32.0	3.7	13.7	2.5	2.4	0.3	1.8	17.8
282529	44.0	17.1	0.3	55.8	12.3	76.0	142	4.3	0.71	< 0.1	1	0.3	< 0.1	354	18.3	35.5	4.2	15.5	3.1	2.7	0.4	2.1	21.0
282530	46.0	16.4	0.2	35.3	7.4	131	148	5.9	0.87	< 0.1	2	0.5	< 0.1	411	8.5	20.6	2.3	9.5	2.1	1.8	0.3	1.7	12.6
282531	37.2	13.5	1.0	58.4	5.5	245	93	2.8	0.53	< 0.1	< 1	0.6	< 0.1	655	14.4	28.6	3.4	14.1	2.5	1.8	0.2	1.1	12.6
282532	45.2	15.3	1.2	31.5	6.2	236	85	2.2	0.60	< 0.1	< 1	0.6	< 0.1	404	8.9	23.5	2.4	9.6	2.0	1.7	0.2	1.2	17.1
282533	63.7	16.5	1.2	30.8	6.1	216	98	2.4	0.48	< 0.1	< 1	0.5	< 0.1	393	8.6	22.9	2.3	9.6	1.9	2.1	0.2	1.3	22.0
282534	43.6	15.3	2.7	36.6	7.5	212	92	2.2	1.06	< 0.1	< 1	0.4	< 0.1	449	17.0	35.0	3.5	14.0	2.6	2.1	0.3	1.5	35.0
282535	32.6	13.7	19.3	33.3	8.1	181	81	1.6	1.59	< 0.1	1	0.3	< 0.1	357	22.7	43.2	5.2	18.5	2.6	2.2	0.3	1.7	26.0
282536	112	14.5	948	16.6	20.8	281	76	2.7	1.66	< 0.1	1	0.8	< 0.1	238	22.5	35.2	5.6	23.6	5.2	5.3	0.7	4.3	121
282537	267	13.7	14.8	30.9	9.0	178	84	1.9	2.25	< 0.1	1	1.0	< 0.1	313	21.4	41.0	4.8	17.8	3.0	2.2	0.3	1.7	38.6
282538	115	15.5	21.5	32.6	9.4	218	103	3.9	0.74	< 0.1	< 1	1.9	< 0.1	337	17.7	36.0	4.6	17.3	2.7	2.4	0.4	1.9	59.5
282539	166	15.6	18.8	31.7	8.5	181	95	3.8	1.20	< 0.1	1	1.4	< 0.1	274	15.9	32.8	4.1	15.9	2.8	2.0	0.3	1.6	44.2
282540	84.6	16.0	40.3	15.3	6.6	190	83	3.4	0.74	< 0.1	< 1	1.8	< 0.1	221	5.7	15.6	2.0	7.9	1.5	1.6	0.2	1.4	51.0
282541	29.4	17.2	12.2	34.0	3.8	267	66	2.1	0.66	< 0.1	< 1	0.6	< 0.1	308	10.0	23.4	2.7	10.6	1.8	1.3	0.2	0.8	12.6
282542	36.7	16.4	9.1	36.4	4.2	264	69	2.0	0.55	< 0.1	< 1	0.6	< 0.1	357	12.3	26.4	3.3	12.2	2.3	1.5	0.2	0.8	14.1
282543	60.8	12.2	1.0	31.2	11.3	85.0	113	5.4	1.32	< 0.1	2	1.4	< 0.1	229	18.4	36.1	4.6	17.8	3.2	2.9	0.4	2.2	38.0
282544	66.3	12.3	0.7	26.6	10.9	62.5	107	5.5	1.13	< 0.1	1	1.2	0.1	175	17.6	34.8	4.3	16.6	3.2	2.5	0.4	2.2	27.4
282545	62.7	13.3	1.3	31.3	12.0	65.5	119	5.9	1.10	< 0.1	2	1.5	< 0.1	195	21.6	42.2	5.0	19.8	3.8	3.0	0.4	2.3	22.5
282546	65.6	13.8	2.0	32.1	11.3	59.9	117	6.0	1.90	< 0.1	1	1.3	0.3	193	20.1	39.9	5.0	18.9	3.6	2.9	0.4	2.1	138
282547	88.8	12.1	2.3	31.1	12.2	65.8	116	5.6	1.11	< 0.1	1	1.9	0.5	197	19.0	37.7	4.5	17.7	3.3	3.0	0.4	2.3	114
282548	89.6	17.8	< 0.1	80.7	34.3	546	108	2.1	0.23	< 0.1	1	< 0.1	< 0.1	694	27.3	63.7	8.5	37.6	8.7	7.8	1.2	6.9	24.2
282549	71.6	13.4	2.7	30.3	12.2	63.7	117	6.3	1.39	< 0.1	1	1.4	< 0.1	200	19.7	39.0	4.8	18.6	3.6	2.9	0.4	2.3	35.0
282550	63.7	11.4	4.3	20.8	11.9	76.8	100	4.7	1.12	< 0.1	1	2.5	< 0.1	158	16.4	32.8	4.1	15.9	3.4	2.7	0.4	2.2	45.1
282551	65.1	12.0	5.7	24.5	11.7	92.3	115	5.3	0.99	< 0.1	1	4.6	< 0.1	223	18.0	35.3	4.5	17.1	3.1	2.6	0.4	2.3	62.8
282552	34.7	15.3	12.3	26.0	8.4	143	89	1.7	0.96	< 0.1	2	0.5	< 0.1	284	18.9	42.4	4.5	17.0	2.9	2.2	0.3	1.7	15.2

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
282553	42.0	15.9	14.4	28.0	10.2	149	77	0.7	0.89	< 0.1	1	0.3	< 0.1	288	17.9	35.5	4.3	16.3	3.0	2.7	0.3	2.0	24.0
282554	40.6	15.3	12.2	23.5	9.4	132	82	5.2	1.60	< 0.1	1	0.9	< 0.1	248	17.5	34.4	4.2	16.0	2.5	2.4	0.3	1.8	21.1
282555	37.5	15.6	29.5	21.5	10.3	116	93	6.4	1.89	< 0.1	2	0.9	< 0.1	134	16.4	35.7	4.2	15.9	3.0	2.8	0.4	2.0	53.3
282556	50.5	15.7	8.9	33.7	11.4	157	112	6.7	1.51	< 0.1	1	0.6	< 0.1	340	21.4	42.7	5.2	20.0	3.9	2.8	0.4	2.4	53.2
282557	46.2	14.8	15.3	27.9	11.3	101	97	6.2	1.33	< 0.1	1	0.7	< 0.1	258	18.1	36.8	4.5	17.2	3.3	2.9	0.4	2.3	53.5
282558	35.0	15.3	7.1	18.1	9.0	71.4	108	8.3	1.56	< 0.1	2	0.5	< 0.1	200	6.7	23.2	1.9	7.8	1.9	1.7	0.3	1.6	32.7
282559	41.5	16.8	14.8	21.9	7.3	92.8	98	5.5	1.93	< 0.1	1	0.5	< 0.1	264	9.1	26.4	2.4	8.8	1.9	1.6	0.2	1.4	22.6
282560	74.0	4.1	13.8	124	21.0	296	91	8.2	67.3	0.2	25	2.1	0.1	953	30.0	56.6	6.9	26.9	5.6	4.9	0.7	4.2	2380
282561	37.5	13.7	3.6	26.3	8.1	109	80	2.9	1.59	< 0.1	1	0.3	< 0.1	265	11.6	31.5	3.0	11.4	2.3	2.2	0.3	1.6	19.5
282562	51.0	14.9	1.6	25.2	10.8	104	106	6.6	1.43	< 0.1	2	0.7	0.1	253	20.0	40.0	4.8	18.7	3.7	3.0	0.4	2.2	28.0
282563	35.9	14.4	0.3	21.4	7.9	95.2	86	2.2	0.91	< 0.1	1	0.5	< 0.1	222	13.9	33.5	3.6	13.6	2.6	2.4	0.3	1.7	22.0
282564	35.7	14.6	2.2	20.3	6.9	117	109	6.0	2.53	< 0.1	2	0.8	< 0.1	263	13.0	30.0	3.3	12.9	2.3	2.3	0.3	1.6	28.9
282565	37.8	14.9	2.2	16.8	6.5	122	89	5.2	1.34	< 0.1	1	0.6	< 0.1	202	9.0	21.3	2.3	9.2	1.8	1.6	0.3	1.4	16.9
282566	33.1	13.4	3.1	23.3	7.9	167	88	4.9	1.68	< 0.1	1	0.7	< 0.1	245	17.7	39.0	4.3	16.3	3.2	2.8	0.3	1.8	31.2
282567	59.0	17.0	0.3	23.0	7.2	96.5	79	3.0	0.96	< 0.1	2	0.6	< 0.1	194	9.5	18.7	2.1	8.8	1.9	1.8	0.3	1.5	19.4
282568	50.0	15.1	2.3	21.2	5.8	91.2	92	6.7	1.14	< 0.1	1	0.7	0.1	206	7.4	19.4	2.2	8.4	1.5	1.4	0.2	1.2	44.7
282569	44.2	14.3	1.5	23.2	8.7	118	102	4.1	1.57	< 0.1	1	0.4	< 0.1	250	16.1	35.8	4.2	16.1	3.0	2.2	0.3	1.7	24.4
282570	46.6	14.7	2.7	29.9	9.1	187	89	1.9	0.71	< 0.1	1	0.3	< 0.1	347	18.5	39.0	4.8	18.6	3.6	3.0	0.4	2.0	43.1
282571	39.0	15.4	6.7	25.6	8.8	126	103	3.0	0.84	< 0.1	2	0.3	< 0.1	274	16.4	34.0	4.0	15.2	2.8	2.5	0.3	1.8	27.1
282572	96.4	15.0	< 0.1	84.7	38.2	541	86	0.6	0.16	< 0.1	1	< 0.1	< 0.1	719	29.6	68.1	9.3	42.2	9.5	8.4	1.3	7.6	20.3
282573	49.0	14.3	9.4	22.8	9.0	110	100	3.6	1.16	< 0.1	1	0.4	< 0.1	243	17.3	37.3	4.3	16.1	3.1	2.4	0.3	1.7	32.2
282574	60.5	14.1	52.9	24.5	8.5	123	47	1.9	0.52	< 0.1	< 1	< 0.1	< 0.1	142	5.2	11.5	1.6	7.9	2.2	2.1	0.3	1.7	76.7
282575	60.5	12.3	32.9	17.8	8.5	86.1	63	2.3	0.36	< 0.1	< 1	0.1	< 0.1	245	7.6	17.4	2.5	11.6	2.6	2.6	0.3	1.8	89.8
282576	62.4	15.6	19.8	0.7	13.1	78.9	16	0.6	0.17	< 0.1	< 1	0.2	< 0.1	28	2.7	6.6	1.1	5.9	1.8	2.4	0.4	2.5	92.9
282577	65.7	18.3	5.7	3.6	14.0	60.2	19	1.0	0.48	< 0.1	< 1	0.2	0.1	20	5.2	11.2	1.6	7.5	2.0	2.8	0.4	2.8	55.2
282578	71.5	17.4	4.3	< 0.2	11.4	83.5	12	2.3	0.44	< 0.1	< 1	0.5	< 0.1	9	2.9	7.5	1.3	6.1	1.9	2.2	0.4	2.5	77.6
282579	85.3	19.5	2.7	0.3	15.6	84.6	39	0.6	0.17	< 0.1	< 1	< 0.1	< 0.1	14	3.4	8.5	1.3	7.1	2.4	2.9	0.5	3.1	99.8
282580	65.8	12.9	1.4	4.9	13.0	59.7	10	0.1	0.15	< 0.1	< 1	< 0.1	< 0.1	208	2.8	7.0	1.1	6.2	1.8	2.3	0.4	2.6	88.3
282581	70.7	15.3	4.8	8.7	14.7	71.4	22	1.5	0.21	< 0.1	< 1	0.1	< 0.1	132	2.6	6.8	1.1	5.9	1.7	2.7	0.4	2.8	98.0
282582	74.5	17.3	1.3	14.5	12.0	61.4	18	< 0.1	0.05	< 0.1	< 1	< 0.1	< 0.1	74	3.0	7.6	1.2	6.5	2.0	2.3	0.3	2.4	92.7
282583	74.1	13.6	5.4	16.0	11.3	56.5	26	0.2	0.17	< 0.1	< 1	0.2	< 0.1	91	2.8	6.8	1.0	5.7	1.9	2.1	0.4	2.4	97.3
282584	98.9	8.1	7.2	83.5	14.8	350	66	9.2	403	0.6	10	1.0	0.5	495	17.1	33.6	4.0	16.2	3.5	3.2	0.5	2.9	9660
282585	60.1	15.0	2.2	0.4	10.5	99.4	24	0.8	1.80	< 0.1	< 1	0.1	< 0.1	5	2.4	6.0	0.9	5.1	1.6	1.7	0.3	2.1	96.8
282586	64.8	10.5	3.7	24.5	9.0	110	40	0.9	0.99	< 0.1	< 1	0.2	< 0.1	212	3.5	8.1	1.3	6.2	1.7	1.9	0.3	1.8	99.5
282587	82.5	12.3	12.6	22.4	10.7	109	40	0.1	0.46	< 0.1	< 1	0.1	< 0.1	213	6.8	15.7	2.5	11.4	2.8	2.5	0.4	2.3	87.5
282588	67.8	13.7	40.6	34.0	6.1	206	29	0.1	0.29	< 0.1	< 1	0.5	< 0.1	198	7.8	16.6	2.2	9.6	2.2	1.9	0.2	1.3	53.2
282589	92.5	15.3	44.9	33.0	4.9	266	41	0.5	0.50	< 0.1	< 1	0.6	< 0.1	219	7.3	14.5	2.0	8.4	1.6	1.8	0.2	1.1	78.4
282590	65.4	11.8	37.7	41.3	5.9	376	63	2.2	0.60	< 0.1	< 1	1.1	< 0.1	318	11.6	23.4	3.0	13.1	2.7	2.0	0.3	1.4	68.1
282591	78.3	10.6	11.8	30.5	11.9	214	121	3.5	0.96	< 0.1	< 1	1.4	< 0.1	469	25.6	52.5	6.8	27.1	5.3	4.9	0.5	2.5	58.8
282592	62.1	6.4	14.9	48.0	8.9	225	111	3.5	2.56	< 0.1	< 1	1.0	< 0.1	691	20.3	41.4	5.5	21.6	4.0	3.2	0.4	2.0	47.5
282593	84.4	14.7	81.1	0.4	6.3	348	73	1.9	0.77	< 0.1	< 1	0.5	< 0.1	18	18.4	39.0	5.0	21.8	3.8	3.1	0.3	1.5	32.5
282594	51.3	3.0	39.7	39.5	7.1	188	30	1.4	1.17	< 0.1	< 1	1.5	< 0.1	483	3.1	7.1	1.1	5.4	1.7	1.7	0.3	1.4	99.5

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
282595	66.0	16.8	35.6	< 0.2	12.7	66.4	32	1.9	0.35	< 0.1	< 1	0.7	< 0.1	18	2.3	5.9	1.0	5.5	1.5	2.6	0.4	2.7	99.2
282596	110	21.6	< 0.1	92.0	32.7	522	80	0.6	0.18	< 0.1	1	< 0.1	< 0.1	606	28.6	57.9	7.9	37.7	9.2	9.2	1.3	7.8	23.3
282597	87.5	18.0	10.3	0.3	16.7	108	6	< 0.1	0.42	< 0.1	< 1	< 0.1	0.1	18	2.9	7.2	1.1	6.3	2.0	2.4	0.4	3.1	117
282598	81.0	18.8	5.8	0.2	16.3	101	6	0.1	0.18	< 0.1	< 1	0.2	< 0.1	11	3.7	8.7	1.4	7.0	2.0	2.7	0.4	3.0	108
282599	86.5	9.9	19.5	25.0	13.2	73.0	40	0.1	0.28	< 0.1	< 1	0.4	< 0.1	383	9.1	19.9	2.8	13.1	3.0	3.1	0.4	2.6	88.2
282600	83.5	15.6	28.9	26.8	13.9	85.8	32	0.2	0.58	< 0.1	< 1	0.3	< 0.1	133	2.7	6.8	1.3	5.7	1.8	2.4	0.4	2.7	87.8
282601	72.2	15.2	3.9	18.8	12.7	66.3	21	0.6	2.30	< 0.1	< 1	0.2	< 0.1	81	2.6	6.3	1.0	5.0	1.5	1.9	0.3	2.3	93.4
282602	69.2	11.7	4.7	3.6	6.3	55.8	35	0.8	0.73	< 0.1	< 1	0.2	0.1	88	2.2	5.4	0.9	4.5	1.4	1.4	0.2	1.3	88.3
282603	61.2	12.2	6.7	12.6	5.3	68.8	27	0.9	0.29	< 0.1	< 1	1.1	< 0.1	77	2.0	5.1	0.8	4.0	1.2	1.5	0.2	1.1	95.5
282604	64.1	12.8	16.1	13.8	5.5	62.4	33	0.8	0.27	< 0.1	< 1	0.6	< 0.1	52	1.9	4.7	0.7	4.0	1.4	1.4	0.2	1.2	90.6
282605	62.6	12.9	31.5	18.5	5.6	90.9	31	0.8	4.17	< 0.1	< 1	0.4	< 0.1	89	1.9	4.4	0.7	3.8	1.1	1.7	0.2	1.2	99.7
282606	66.5	13.9	10.0	29.3	6.3	86.4	53	0.8	0.41	< 0.1	< 1	0.6	0.1	180	7.0	13.7	1.8	8.3	2.0	2.0	0.3	1.4	146
282607	61.3	12.5	13.9	5.0	5.7	60.0	29	0.4	0.34	< 0.1	< 1	0.6	< 0.1	95	2.1	5.2	0.8	4.2	1.3	1.4	0.2	1.2	118
282608	59.7	14.6	1.8	0.9	12.5	120	6	0.3	0.24	< 0.1	< 1	0.7	< 0.1	14	2.1	4.9	0.8	4.0	1.4	1.9	0.4	2.2	110
282609	59.8	15.3	1.3	< 0.2	6.0	110	31	0.3	0.20	< 0.1	1	0.2	< 0.1	8	1.1	2.7	0.4	2.1	0.8	1.0	0.2	1.2	55.8
282610	68.9	6.6	47.2	25.6	5.1	105	34	0.3	0.16	< 0.1	< 1	0.2	< 0.1	411	1.8	4.3	0.7	3.6	1.2	1.3	0.2	1.0	122
282611	170	14.7	82.8	16.4	7.9	145	86	2.2	0.73	< 0.1	2	1.7	< 0.1	144	6.6	15.0	2.1	10.3	2.4	2.2	0.3	1.7	96.5
282612	39.0	4.1	18.8	62.6	6.7	215	37	1.2	6.04	< 0.1	< 1	2.1	3.6	235	7.6	15.2	2.1	8.3	1.8	1.7	0.2	1.3	67.7
282613	214	17.5	30.2	13.5	13.6	159	70	0.3	0.23	0.1	< 1	0.3	0.1	112	6.5	15.9	2.5	12.5	3.2	3.6	0.5	3.1	70.3
282614	84.4	17.6	18.7	12.6	14.4	177	50	0.9	0.46	< 0.1	1	0.5	< 0.1	115	6.3	15.5	2.5	11.9	3.2	3.5	0.6	3.3	85.8
282615	87.7	15.4	13.3	18.9	16.3	207	58	0.7	0.45	< 0.1	< 1	0.5	< 0.1	214	6.3	15.8	2.5	12.3	3.0	4.0	0.6	3.5	78.7
282616	68.6	20.7	7.9	35.6	6.6	327	69	1.6	0.62	< 0.1	1	2.7	< 0.1	473	6.7	13.2	1.7	8.2	2.1	2.1	0.3	1.5	56.4
282617	94.9	12.7	3.6	42.2	19.7	197	55	0.1	0.11	0.1	< 1	0.2	< 0.1	435	8.1	18.8	2.6	14.0	3.6	3.8	0.7	4.3	87.0
282618	82.3	9.9	3.5	37.6	15.3	250	27	0.1	0.10	< 0.1	< 1	0.3	< 0.1	361	5.5	13.1	2.0	10.0	2.9	3.1	0.5	3.1	66.2
282619	22.5	7.1	< 0.1	55.7	2.4	458	73	1.1	0.63	< 0.1	< 1	2.4	0.1	1050	9.8	19.0	2.8	10.4	1.9	1.5	0.2	0.5	6.4
282620	21.5	5.7	< 0.1	48.8	2.0	578	84	1.3	0.68	< 0.1	< 1	2.2	< 0.1	1100	8.8	17.9	2.3	9.4	1.6	1.1	0.1	0.5	5.3
282621	46.2	6.5	1.0	43.5	2.1	624	80	1.1	0.65	< 0.1	< 1	3.1	< 0.1	1240	9.2	18.9	2.4	9.6	1.7	1.0	0.1	0.5	6.1
282622	86.8	10.2	3.6	44.5	1.8	508	87	1.0	1.61	< 0.1	1	2.3	0.1	1080	7.7	16.8	2.2	8.7	1.6	1.2	0.1	0.4	5.7
282623	240	12.9	18.2	12.5	18.4	249	71	0.6	0.59	0.1	1	2.4	< 0.1	165	6.7	14.8	2.2	10.8	2.8	3.7	0.6	3.6	86.3
282624	103	13.9	< 0.1	88.6	36.4	539	83	0.7	0.23	< 0.1	< 1	< 0.1	< 0.1	708	30.8	67.9	9.4	41.5	8.4	9.3	1.3	7.3	19.4
282625	167	16.9	40.9	14.3	21.6	179	36	< 0.1	0.42	0.1	< 1	1.6	< 0.1	112	5.9	14.8	2.4	11.4	3.4	4.2	0.7	4.2	93.6
282626	111	14.6	18.9	16.6	17.7	171	31	< 0.1	0.14	< 0.1	< 1	< 0.1	< 0.1	120	5.4	13.5	2.1	10.5	3.0	3.1	0.5	3.6	97.5
282627	96.3	15.6	9.4	18.4	18.2	167	32	0.1	0.19	< 0.1	< 1	0.5	< 0.1	120	6.5	15.5	2.6	11.8	3.4	3.8	0.6	3.6	92.3
282628	93.6	12.9	9.1	37.6	20.5	228	35	0.1	0.27	< 0.1	< 1	0.5	< 0.1	281	9.4	20.5	3.2	14.1	3.5	4.3	0.6	4.2	73.6
282629	53.9	9.4	21.2	72.1	3.3	316	65	1.1	0.53	< 0.1	< 1	1.6	< 0.1	740	8.2	16.5	2.1	9.0	1.5	1.2	0.1	0.7	19.7
282630	24.2	24.5	6.9	29.0	2.3	629	81	1.4	0.61	< 0.1	< 1	1.7	0.2	239	11.3	23.1	3.0	11.6	1.8	1.4	0.1	0.6	6.2
282631	61.3	24.8	7.6	33.8	2.5	644	80	1.5	1.02	< 0.1	< 1	1.1	< 0.1	447	10.0	23.9	2.7	10.9	2.0	1.3	0.1	0.6	11.8
282632	27.1	12.0	19.1	41.1	3.3	589	74	1.3	3.13	< 0.1	< 1	1.0	0.1	731	10.0	21.3	2.6	10.6	1.7	1.6	0.1	0.7	15.5
282633	68.0	15.6	4.6	35.8	1.7	393	71	1.2	0.62	< 0.1	< 1	0.8	< 0.1	1070	5.1	12.0	1.3	5.7	1.2	0.8	0.1	0.4	6.9
282634	30.6	8.1	6.3	32.4	2.0	596	67	1.2	0.91	< 0.1	< 1	1.0	0.1	973	9.0	18.9	2.4	9.7	1.9	1.3	0.1	0.5	8.3
282635	21.5	7.8	3.3	33.0	2.2	610	73	1.1	0.70	< 0.1	1	0.9	< 0.1	1040	10.3	21.3	2.8	10.8	2.0	1.3	0.1	0.6	4.7
282636	119	14.3	846	17.1	20.9	286	54	1.1	0.94	< 0.1	1	0.9	< 0.1	183	23.0	36.2	6.2	24.3	5.5	5.7	0.7	4.4	116

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
282637	17.3	12.2	4.0	51.0	2.6	478	71	1.4	0.47	< 0.1	< 1	1.1	< 0.1	832	7.4	15.8	2.2	9.2	2.1	1.5	0.2	0.6	4.5
282638	21.4	16.5	2.0	49.6	2.3	492	83	1.0	0.46	< 0.1	< 1	1.3	0.2	622	8.1	16.8	2.3	9.2	1.6	1.4	0.1	0.6	10.4
282639	16.8	15.5	1.1	43.2	2.0	496	79	1.3	0.78	< 0.1	< 1	1.5	< 0.1	597	9.2	19.0	2.4	10.1	1.9	1.1	0.1	0.5	5.0
282640	16.1	13.3	1.2	33.4	0.9	394	65	1.1	0.56	< 0.1	< 1	1.8	< 0.1	704	3.4	8.0	1.0	4.3	0.8	0.4	0.1	0.2	5.9
282641	21.2	9.9	1.4	54.2	1.8	331	66	1.1	0.90	< 0.1	< 1	1.5	< 0.1	902	6.8	14.6	1.9	7.5	1.5	0.9	0.1	0.4	37.9
282642	31.8	10.4	4.6	57.0	3.1	282	77	1.3	0.52	< 0.1	3	1.1	0.1	801	8.5	20.1	2.3	9.9	1.5	1.6	0.2	0.7	11.0
282643	109	16.6	29.4	47.5	20.0	136	37	0.1	0.05	< 0.1	< 1	< 0.1	< 0.1	180	7.6	15.6	2.3	11.9	3.4	4.5	0.7	4.6	80.3
282644	184	11.6	12.7	35.3	19.9	192	81	2.4	0.79	< 0.1	1	0.8	< 0.1	152	6.3	15.1	2.2	11.0	2.9	3.9	0.6	3.8	131
282645	84.1	17.7	7.3	46.0	22.2	134	84	0.6	0.19	< 0.1	< 1	0.3	< 0.1	153	7.8	18.3	3.1	13.4	3.6	4.2	0.7	4.6	69.2
282646	96.7	14.9	1.3	28.9	20.5	115	56	0.1	0.18	< 0.1	< 1	0.4	< 0.1	102	4.9	12.3	1.8	9.8	2.6	3.8	0.6	3.9	111
282647	92.9	13.5	12.2	6.0	13.0	124	20	0.2	0.22	< 0.1	< 1	0.1	< 0.1	75	2.5	6.2	1.0	5.1	1.6	2.3	0.4	2.6	107
282648	100	12.5	< 0.1	86.8	38.5	573	75	0.4	0.26	< 0.1	1	< 0.1	< 0.1	700	31.5	71.6	10.2	43.9	9.4	8.8	1.4	8.1	23.5
282649	56.9	13.4	8.5	1.5	11.0	99.7	15	0.9	0.51	< 0.1	< 1	0.2	< 0.1	18	2.1	4.9	0.8	4.3	1.3	1.8	0.4	2.1	90.4
282650	78.1	17.2	4.0	0.7	15.1	112	8	1.3	0.42	< 0.1	< 1	0.7	< 0.1	17	2.5	6.4	0.9	5.4	1.6	2.5	0.4	2.8	119
282651	66.1	16.4	4.3	0.9	15.2	105	4	0.7	0.79	< 0.1	< 1	0.4	< 0.1	24	2.6	6.5	1.0	5.3	1.8	2.4	0.4	2.8	117
282652	88.5	16.3	0.4	0.8	16.8	59.2	4	0.6	0.25	< 0.1	< 1	0.2	0.1	21	2.9	7.1	1.0	6.2	1.8	2.4	0.5	3.0	202
282653	82.8	16.8	4.2	0.5	14.5	48.9	6	0.2	0.15	< 0.1	< 1	0.2	< 0.1	20	2.6	6.4	1.0	5.3	1.9	2.7	0.4	2.8	116
282654	90.5	16.0	2.6	0.7	15.4	49.6	22	0.2	0.28	< 0.1	< 1	< 0.1	< 0.1	24	2.6	6.6	0.9	5.3	1.5	2.5	0.5	3.0	108
282655	54.4	13.9	2.2	2.9	10.1	59.0	5	0.4	0.22	< 0.1	< 1	< 0.1	< 0.1	37	1.8	4.4	0.7	3.7	1.1	1.6	0.3	2.0	103
282656	75.0	10.5	15.9	11.0	12.9	47.9	15	0.2	0.33	< 0.1	< 1	< 0.1	< 0.1	234	2.3	6.1	0.9	4.5	1.3	1.8	0.4	2.3	103
282657	74.4	15.8	4.2	3.7	14.5	42.4	10	0.1	0.13	< 0.1	< 1	0.1	< 0.1	85	2.7	6.6	1.0	5.3	2.0	2.7	0.4	2.8	109
282658	104	17.7	< 0.1	0.5	13.8	30.5	3	0.3	0.19	< 0.1	< 1	0.1	< 0.1	9	4.1	9.1	1.0	5.9	1.7	2.2	0.4	2.9	54.4
282659	83.7	17.8	1.4	0.9	15.7	96.2	28	0.2	0.15	< 0.1	< 1	0.1	< 0.1	17	3.0	7.4	1.2	6.1	2.1	2.6	0.4	3.0	112
282660	74.6	5.1	11.9	171	22.8	321	81	5.7	58.7	0.2	5	0.4	< 0.1	996	29.4	62.3	7.1	28.6	5.5	5.2	0.7	4.4	2330
282661	105	16.5	< 0.1	1.1	14.4	117	6	0.1	0.15	< 0.1	< 1	0.1	< 0.1	16	3.8	7.6	1.1	6.0	1.8	2.7	0.5	3.1	337
282662	98.9	18.0	< 0.1	1.6	14.6	38.5	14	0.2	0.22	< 0.1	< 1	< 0.1	< 0.1	32	4.1	9.2	1.4	6.9	2.0	2.4	0.4	2.9	89.2
282663	71.2	15.1	< 0.1	0.7	12.1	32.4	7	0.1	0.31	< 0.1	< 1	< 0.1	< 0.1	13	2.5	5.8	0.9	4.4	1.5	1.9	0.3	2.4	68.7
282664	85.1	16.7	2.0	0.3	11.7	29.3	3	0.1	0.10	< 0.1	< 1	< 0.1	< 0.1	9	4.3	8.8	1.2	5.7	1.9	1.7	0.3	2.3	18.8
282665	90.1	15.8	3.2	0.2	10.8	30.6	3	0.1	0.13	< 0.1	< 1	0.2	< 0.1	7	12.8	24.6	2.7	11.9	2.2	2.1	0.4	2.2	68.9
282666	95.3	17.5	1.1	1.1	12.5	35.3	12	0.9	0.30	< 0.1	< 1	0.1	< 0.1	18	6.2	12.7	1.7	7.9	2.0	2.8	0.4	2.6	74.8
282667	105	17.0	4.3	1.5	9.7	30.0	6	0.2	0.32	< 0.1	< 1	0.5	< 0.1	17	7.7	14.5	2.1	8.4	2.1	1.7	0.3	2.0	286
282668	105	17.3	1.4	1.8	12.8	46.0	13	1.4	0.33	< 0.1	< 1	0.2	< 0.1	21	8.4	16.1	2.1	9.2	2.0	2.4	0.4	2.4	271
282669	136	17.1	< 0.1	2.8	12.8	46.0	13	1.9	0.36	0.1	< 1	0.3	< 0.1	26	4.8	9.9	1.3	6.3	1.8	2.2	0.3	2.3	1610
282670	124	17.3	< 0.1	1.4	12.1	51.8	16	1.7	0.34	0.2	< 1	0.2	< 0.1	20	11.7	21.5	2.8	11.4	1.9	2.4	0.3	2.2	5320
282671	101	16.4	2.0	1.7	14.9	65.3	9	0.6	0.22	< 0.1	< 1	0.1	< 0.1	22	6.4	12.4	1.5	7.8	1.9	2.2	0.3	2.6	407
282672	95.4	10.1	< 0.1	36.1	19.8	403	119	12.7	0.56	< 0.1	2	< 0.1	< 0.1	651	9.2	30.4	3.5	16.6	4.8	4.4	0.8	4.7	21.1
282673	127	18.0	1.1	2.1	13.2	65.6	10	0.8	0.66	< 0.1	< 1	0.1	< 0.1	29	8.1	15.4	2.1	9.3	2.0	2.4	0.4	2.5	617
282674	149	16.9	0.1	1.8	12.5	40.6	11	1.0	0.24	0.2	< 1	< 0.1	< 0.1	22	15.5	28.5	3.4	14.4	2.4	2.6	0.4	2.2	3690
282675	86.3	15.7	< 0.1	0.6	11.8	32.6	3	< 0.1	0.10	< 0.1	< 1	< 0.1	< 0.1	10	3.0	7.0	1.1	5.3	1.3	2.0	0.3	2.1	1220
282676	102	17.5	< 0.1	1.2	13.1	53.3	7	0.4	0.39	< 0.1	< 1	< 0.1	< 0.1	16	3.0	6.5	1.0	5.1	1.5	2.0	0.4	2.3	116
282677	96.1	17.4	< 0.1	3.0	15.1	108	10	0.4	0.27	< 0.1	< 1	< 0.1	0.2	31	3.4	7.7	1.1	5.9	1.7	2.3	0.4	2.6	101
282678	129	18.2	< 0.1	4.7	14.7	74.2	9	1.3	0.31	0.1	< 1	0.3	0.1	32	5.9	13.1	1.7	7.7	1.9	2.5	0.4	2.8	276

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
282679	112	18.3	< 0.1	0.6	15.6	44.4	12	1.8	0.27	0.1	< 1	0.2	< 0.1	12	6.9	13.0	1.8	8.7	2.1	2.9	0.4	2.6	1640
282680	96.9	17.7	0.3	2.2	15.3	92.9	9	1.6	0.35	< 0.1	< 1	0.5	< 0.1	31	3.1	7.1	1.0	5.7	1.5	2.6	0.4	2.7	126
282681	124	19.0	0.7	3.8	15.3	68.7	11	1.3	0.22	0.1	< 1	0.4	0.1	36	18.1	33.9	4.2	17.7	3.0	3.0	0.5	2.8	1410
282682	111	18.0	0.5	2.7	15.1	74.8	16	1.7	0.23	0.1	< 1	0.3	< 0.1	21	4.5	9.1	1.4	6.9	2.0	2.5	0.5	2.7	210
282683	112	15.7	1.0	2.3	12.1	62.4	8	1.5	0.27	< 0.1	< 1	0.4	< 0.1	49	2.7	6.5	1.0	5.2	1.9	2.2	0.4	2.5	251
282684	112	13.3	6.7	88.0	13.3	366	64	8.5	498	0.6	12	1.1	0.3	484	17.2	28.7	3.5	14.9	3.2	3.3	0.5	2.9	> 10000
282685	103	17.6	< 0.1	2.5	15.4	90.8	9	0.1	0.60	< 0.1	< 1	0.1	< 0.1	29	3.2	6.9	1.1	5.8	1.9	2.6	0.4	2.7	278
282686	101	17.5	< 0.1	2.7	14.6	103	7	0.2	0.42	< 0.1	< 1	0.1	< 0.1	31	2.8	6.8	1.0	5.0	2.1	2.3	0.4	2.6	159
282687	98.8	17.1	< 0.1	1.6	14.5	106	7	0.2	0.34	< 0.1	< 1	0.1	< 0.1	18	5.7	12.6	1.8	7.7	2.0	2.3	0.4	2.7	79.6
282688	87.7	17.4	2.5	0.5	15.4	116	33	1.4	0.40	< 0.1	< 1	0.3	< 0.1	10	5.4	11.9	1.8	8.5	2.4	2.8	0.5	2.9	84.5
282689	82.8	4.2	3.2	15.0	14.8	153	62	0.5	0.68	< 0.1	< 1	0.2	< 0.1	553	10.8	24.1	3.2	14.1	3.8	3.1	0.5	2.8	71.7
282690	78.7	16.2	2.0	0.5	18.2	174	29	< 0.1	0.25	< 0.1	< 1	0.1	< 0.1	10	12.5	26.8	3.5	17.0	4.6	4.0	0.6	3.7	60.0
282691	95.9	16.4	4.3	0.4	17.6	190	41	0.1	0.55	< 0.1	< 1	0.1	0.2	8	11.3	25.2	3.7	16.2	4.0	4.1	0.6	3.5	67.0
282692	99.2	17.3	0.8	0.3	16.4	212	59	0.1	0.34	< 0.1	< 1	< 0.1	< 0.1	10	12.9	27.8	3.7	17.2	3.8	3.8	0.6	3.3	77.6
282693	88.8	15.4	2.0	0.3	22.2	161	37	0.1	0.52	< 0.1	< 1	0.1	< 0.1	13	12.4	27.3	3.5	17.4	4.4	4.7	0.7	4.1	292
282694	93.0	16.3	2.1	0.8	16.6	177	36	0.1	0.42	< 0.1	< 1	0.1	< 0.1	10	12.3	26.6	3.8	15.8	4.1	3.5	0.6	3.3	73.6
282695	118	19.2	2.1	0.4	18.0	195	25	< 0.1	0.14	< 0.1	< 1	0.2	0.1	13	13.6	30.0	4.0	17.9	4.0	4.4	0.6	3.6	123
282696	105	11.4	< 0.1	82.4	40.6	559	77	1.1	0.40	0.1	< 1	< 0.1	< 0.1	750	33.4	73.8	10.4	44.5	10.4	8.9	1.4	8.3	20.3
282697	96.4	16.9	1.0	0.4	18.9	189	27	0.1	0.27	< 0.1	< 1	0.3	< 0.1	12	12.4	27.0	3.6	16.8	4.0	4.0	0.6	3.6	95.0
282698	95.5	17.0	0.5	0.4	15.9	219	32	< 0.1	0.22	< 0.1	< 1	0.2	< 0.1	14	14.4	31.4	4.2	18.6	4.3	3.8	0.5	3.2	111
282699	90.8	15.3	0.3	0.5	17.2	156	46	0.1	0.41	< 0.1	< 1	< 0.1	< 0.1	13	16.8	35.8	4.9	21.8	5.1	4.5	0.6	3.5	115
282700	81.0	16.4	0.6	1.0	17.5	195	67	0.1	0.27	< 0.1	< 1	0.2	< 0.1	15	25.9	56.6	7.5	32.8	6.1	5.5	0.8	4.0	89.7
282701	103	18.6	1.5	< 0.2	23.6	154	112	4.7	0.66	< 0.1	1	1.2	0.1	15	15.1	34.3	4.5	21.4	5.2	5.5	0.8	5.1	111
282702	90.9	17.3	0.6	0.2	24.0	137	75	0.5	0.34	< 0.1	< 1	< 0.1	< 0.1	17	15.6	34.4	4.5	20.8	4.4	4.6	0.7	4.6	158
282703	141	20.4	5.4	0.3	24.5	107	11	0.3	0.07	0.1	< 1	0.1	< 0.1	17	9.6	21.2	3.2	14.2	3.8	3.5	0.7	4.8	210
282704	125	21.8	0.9	0.4	24.3	64.8	5	< 0.1	0.26	0.1	< 1	< 0.1	< 0.1	13	8.1	18.5	2.7	13.4	3.5	3.8	0.7	5.0	273
282705	138	20.5	3.1	1.1	28.6	43.1	28	< 0.1	0.27	< 0.1	< 1	< 0.1	0.1	13	14.0	29.3	3.9	17.2	4.0	5.7	0.8	5.5	197

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
282511	< 0.1	0.2	1.3	0.2	0.2	0.4	0.001	0.20	3.9	7	4.6	1.3	0.273	0.029	0.12
282512	< 0.1	0.1	0.6	0.1	< 0.1	5.3	0.001	0.87	16.0	7	1.5	0.4	0.208	0.042	0.72
282513	< 0.1	0.2	1.2	0.2	0.3	0.3	0.001	0.26	3.5	7	4.7	1.2	0.275	0.027	0.04
282514	< 0.1	0.2	1.2	0.2	0.3	0.3	0.001	0.28	3.7	7	4.7	1.3	0.256	0.027	0.04
282515	< 0.1	0.2	1.2	0.2	0.4	0.4	0.001	0.28	3.6	6	4.9	11.6	0.248	0.026	0.05
282516	< 0.1	0.2	1.1	0.2	0.4	0.5	0.001	0.30	3.3	6	5.0	1.3	0.229	0.025	0.03
282517	< 0.1	0.2	1.1	0.2	0.3	0.5	< 0.001	0.32	4.1	5	5.3	1.4	0.231	0.025	0.03
282518	< 0.1	0.2	1.2	0.2	0.4	0.7	0.001	0.27	3.8	6	5.3	1.3	0.266	0.028	0.04
282519	< 0.1	0.1	0.9	0.1	0.5	0.7	0.001	0.26	3.2	5	2.0	0.9	0.219	0.025	0.03
282520	< 0.1	0.2	1.2	0.2	0.4	0.6	0.001	0.26	3.4	6	4.8	1.3	0.246	0.026	0.04
282521	< 0.1	0.2	1.2	0.2	0.4	0.5	< 0.001	0.25	3.5	7	4.8	1.4	0.232	0.028	0.06
282522	< 0.1	0.2	1.2	0.2	0.1	0.2	0.001	0.24	2.7	6	4.8	1.3	0.252	0.028	0.03
282523	0.1	0.2	1.4	0.3	0.3	0.2	0.001	0.28	3.0	6	4.9	1.4	0.229	0.024	0.02
282524	0.2	0.6	3.5	0.5	0.4	0.1	0.001	0.50	13.0	19	3.2	1.4	0.670	0.157	0.14
282525	0.1	0.2	1.2	0.2	0.3	0.3	0.001	0.28	3.3	6	4.7	1.3	0.208	0.027	0.02
282526	0.2	0.2	1.3	0.2	0.3	0.3	0.001	0.29	3.6	6	5.0	1.4	0.227	0.027	0.02
282527	0.1	0.2	1.2	0.1	0.1	0.2	0.001	0.28	3.3	6	4.5	1.2	0.206	0.026	0.02
282528	< 0.1	0.2	1.3	0.2	0.3	0.7	0.002	0.28	3.2	7	4.5	1.2	0.257	0.028	0.07
282529	< 0.1	0.2	1.4	0.2	0.3	0.6	0.001	0.30	4.2	8	4.3	1.2	0.285	0.032	0.07
282530	< 0.1	0.2	1.1	0.2	0.6	0.9	0.001	0.31	5.7	16	2.4	1.1	0.291	0.041	0.07
282531	< 0.1	0.1	0.5	0.1	0.1	0.4	0.001	0.31	6.3	6	2.5	1.0	0.297	0.067	0.04
282532	0.1	0.1	0.6	0.1	0.1	0.3	0.001	0.21	5.9	6	1.7	0.7	0.280	0.056	0.03
282533	0.1	0.1	0.6	0.1	< 0.1	0.3	0.001	0.24	6.4	7	1.5	0.5	0.295	0.066	0.03
282534	0.2	0.1	0.8	0.1	0.2	0.4	0.001	0.27	6.0	7	2.7	0.9	0.244	0.050	0.04
282535	< 0.1	0.1	0.9	0.1	0.1	0.2	0.001	0.25	5.1	5	3.8	0.9	0.225	0.035	0.04
282536	< 0.1	0.3	1.8	0.2	< 0.1	0.2	0.002	0.10	6.6	15	4.1	1.2	0.553	0.181	1.68
282537	< 0.1	0.1	1.0	0.2	0.1	0.2	0.001	0.21	6.9	6	3.4	1.3	0.229	0.033	0.06
282538	< 0.1	0.1	1.0	0.2	0.2	0.3	0.002	0.25	19.3	12	2.2	0.7	0.370	0.058	0.41
282539	< 0.1	0.1	0.9	0.1	0.2	0.4	0.001	0.23	15.0	11	1.9	0.6	0.335	0.055	0.44
282540	0.1	0.1	0.9	0.2	0.2	0.3	0.001	0.19	11.1	31	0.7	0.3	0.392	0.062	0.47
282541	< 0.1	0.1	0.4	0.1	0.1	0.3	0.001	0.25	5.2	5	1.5	0.5	0.215	0.041	0.08
282542	< 0.1	0.1	0.4	0.1	0.1	0.2	0.001	0.28	5.2	5	1.7	0.5	0.232	0.039	0.01
282543	< 0.1	0.2	1.4	0.2	0.4	0.6	0.001	0.24	4.6	10	3.2	0.8	0.268	0.036	0.72
282544	< 0.1	0.2	1.4	0.2	0.4	0.5	0.002	0.22	4.2	10	3.2	0.8	0.252	0.036	0.72
282545	< 0.1	0.2	1.9	0.2	0.5	0.6	0.002	0.25	5.2	9	3.9	1.0	0.262	0.036	0.82
282546	< 0.1	0.2	1.3	0.2	0.5	0.4	0.002	0.29	5.1	10	3.8	1.0	0.302	0.039	0.57
282547	< 0.1	0.2	1.4	0.2	0.5	0.4	0.002	0.27	12.7	8	3.4	0.9	0.260	0.030	1.11
282548	< 0.1	0.5	3.3	0.5	< 0.1	< 0.1	0.001	0.50	12.9	17	3.2	1.2	0.555	0.147	0.14
282549	< 0.1	0.2	1.5	0.2	0.5	0.4	0.001	0.28	4.7	10	3.8	1.0	0.291	0.039	0.60
282550	< 0.1	0.2	1.3	0.2	0.4	0.6	0.001	0.24	4.7	10	2.7	0.8	0.267	0.035	1.40
282551	< 0.1	0.2	1.3	0.2	0.4	0.6	0.002	0.22	4.8	12	3.0	0.8	0.299	0.039	1.32
282552	< 0.1	0.2	1.1	0.2	< 0.1	0.2	0.001	0.23	3.9	8	3.4	0.8	0.278	0.041	0.05

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
282553	0.1	0.2	1.2	0.2	< 0.1	0.1	0.001	0.21	3.9	13	3.3	0.9	0.290	0.036	0.12
282554	< 0.1	0.2	1.1	0.2	0.4	1.2	0.001	0.18	4.9	8	3.0	0.7	0.254	0.037	0.48
282555	< 0.1	0.2	1.2	0.2	0.5	1.2	0.001	0.17	4.8	10	3.1	1.1	0.273	0.035	3.31
282556	< 0.1	0.2	1.2	0.2	0.5	0.9	0.001	0.25	4.7	11	3.9	1.8	0.318	0.046	0.25
282557	< 0.1	0.2	1.3	0.2	0.5	1.1	0.001	0.18	4.3	12	3.3	0.8	0.311	0.040	0.84
282558	0.1	0.2	1.1	0.1	0.6	1.3	0.001	0.17	3.3	6	1.7	0.8	0.297	0.036	0.14
282559	< 0.1	0.2	0.9	0.2	0.4	0.8	0.001	0.21	3.3	8	1.7	0.6	0.348	0.042	0.23
282560	< 0.1	0.3	2.2	0.3	0.3	1.8	0.004	0.89	23.2	13	14.9	4.1	0.513	0.090	0.32
282561	< 0.1	0.1	1.0	0.2	< 0.1	0.5	0.002	0.19	3.1	8	2.8	0.7	0.267	0.033	0.08
282562	< 0.1	0.2	1.2	0.2	0.5	0.5	0.001	0.17	3.0	9	3.8	1.0	0.320	0.041	0.13
282563	0.2	0.1	0.9	0.2	< 0.1	0.2	0.001	0.15	2.8	7	2.2	0.7	0.239	0.036	0.09
282564	< 0.1	0.1	0.9	0.1	0.5	0.7	0.001	0.15	3.1	7	2.0	0.7	0.264	0.036	0.12
282565	0.1	0.1	0.9	0.2	0.3	0.4	0.005	0.13	3.2	6	1.6	0.6	0.237	0.031	0.16
282566	< 0.1	0.2	0.9	0.1	0.3	0.4	0.001	0.12	3.9	7	3.2	0.9	0.257	0.032	0.15
282567	0.4	0.2	0.9	0.2	0.3	0.4	< 0.001	0.09	2.7	9	1.7	0.5	0.269	0.037	0.05
282568	< 0.1	0.1	0.8	0.1	0.6	0.6	0.002	0.16	4.7	6	1.5	0.8	0.275	0.034	0.10
282569	< 0.1	0.1	1.0	0.1	0.2	0.3	0.001	0.15	3.2	8	3.4	0.9	0.288	0.043	0.06
282570	< 0.1	0.1	1.1	0.2	0.2	0.2	0.001	0.17	3.8	11	3.6	0.9	0.357	0.049	0.08
282571	0.1	0.2	1.1	0.2	0.3	0.4	0.001	0.15	3.0	9	3.5	0.9	0.316	0.037	0.04
282572	< 0.1	0.6	3.5	0.5	< 0.1	< 0.1	0.002	0.46	12.9	18	3.9	1.3	0.345	0.154	0.15
282573	0.1	0.1	1.0	0.2	0.3	0.4	0.001	0.13	3.3	9	3.3	0.8	0.293	0.036	0.05
282574	0.2	0.1	1.1	0.2	0.1	0.1	0.002	0.13	1.7	27	0.6	0.2	0.362	0.028	0.08
282575	< 0.1	0.2	1.2	0.2	0.1	0.2	0.002	0.08	1.3	31	0.8	0.2	0.428	0.050	0.15
282576	0.3	0.2	1.4	0.2	< 0.1	< 0.1	0.002	< 0.05	1.1	32	0.3	0.1	0.480	0.024	0.13
282577	0.1	0.3	1.5	0.2	< 0.1	0.1	0.003	< 0.05	0.8	31	0.3	0.1	0.511	0.025	0.17
282578	1.3	0.2	1.4	0.2	0.1	0.3	0.002	< 0.05	0.6	35	0.2	0.1	0.562	0.026	0.07
282579	0.4	0.3	1.7	0.2	< 0.1	< 0.1	0.002	< 0.05	1.2	37	0.3	0.1	0.495	0.028	0.09
282580	0.3	0.2	1.4	0.2	< 0.1	0.1	0.002	< 0.05	1.0	30	0.2	0.1	0.280	0.021	0.10
282581	0.3	0.3	1.6	0.2	< 0.1	0.1	0.003	< 0.05	0.8	30	0.3	0.1	0.531	0.025	0.07
282582	0.2	0.2	1.4	0.2	< 0.1	< 0.1	0.002	0.05	1.0	34	0.3	0.1	0.214	0.025	0.07
282583	0.2	0.2	1.4	0.2	< 0.1	< 0.1	0.002	0.09	1.8	34	0.3	0.1	0.338	0.021	0.24
282584	0.1	0.2	1.6	0.2	0.5	2.8	0.008	0.51	27.4	14	7.1	2.1	0.433	0.091	1.23
282585	0.4	0.2	1.4	0.2	< 0.1	0.1	0.003	< 0.05	0.9	34	0.3	0.1	0.379	0.020	0.14
282586	0.3	0.2	1.3	0.2	< 0.1	0.1	0.003	0.20	29.0	32	0.4	0.2	0.368	0.028	0.11
282587	0.3	0.2	1.3	0.2	< 0.1	< 0.1	0.002	0.15	2.0	36	0.6	0.2	0.419	0.044	0.11
282588	0.2	0.1	0.8	0.1	< 0.1	0.9	0.002	0.22	3.8	27	1.0	0.3	0.228	0.025	0.23
282589	0.2	0.1	0.7	0.1	< 0.1	0.4	0.002	0.26	4.3	26	1.0	0.3	0.341	0.025	0.30
282590	0.1	0.1	0.8	0.1	0.1	0.5	0.002	0.31	6.4	23	1.6	0.4	0.407	0.040	0.58
282591	< 0.1	0.2	1.3	0.2	0.2	0.8	0.002	0.24	5.1	15	4.5	1.2	0.407	0.097	0.48
282592	< 0.1	0.1	1.0	0.1	0.2	1.3	0.004	0.38	4.5	14	3.4	0.8	0.399	0.073	0.22
282593	< 0.1	0.1	0.6	0.2	< 0.1	4.2	0.001	< 0.05	2.8	21	2.5	0.7	0.234	0.085	0.04
282594	0.2	0.1	0.9	0.1	< 0.1	1.6	0.002	0.31	4.0	28	0.2	0.1	0.371	0.028	0.50

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
282595	0.1	0.3	1.6	0.3	0.1	0.3	0.002	< 0.05	0.7	43	0.2	0.1	0.538	0.024	0.11
282596	< 0.1	0.6	3.6	0.5	< 0.1	< 0.1	0.001	0.41	11.5	20	3.0	1.3	0.254	0.139	0.13
282597	0.2	0.3	1.7	0.2	< 0.1	< 0.1	0.004	< 0.05	0.5	38	0.3	0.1	0.278	0.024	0.10
282598	0.3	0.3	1.7	0.2	< 0.1	0.1	0.002	< 0.05	1.0	33	0.3	0.1	0.249	0.023	0.20
282599	0.1	0.2	1.6	0.3	< 0.1	< 0.1	0.002	0.20	3.3	35	1.2	0.4	0.395	0.069	0.41
282600	0.4	0.2	1.6	0.3	< 0.1	< 0.1	0.002	0.22	2.2	39	0.3	0.1	0.730	0.026	0.30
282601	0.4	0.3	1.5	0.2	< 0.1	0.1	0.002	0.14	0.7	35	0.3	0.1	0.493	0.025	0.25
282602	0.2	0.1	0.9	0.2	< 0.1	0.2	0.003	< 0.05	0.8	33	0.2	< 0.1	0.252	0.017	0.07
282603	< 0.1	0.1	0.8	0.1	< 0.1	0.8	0.002	0.14	1.2	32	0.2	0.5	0.273	0.018	0.18
282604	0.4	0.1	0.9	0.2	< 0.1	0.4	0.002	0.14	1.2	35	0.2	0.1	0.317	0.016	0.10
282605	0.3	0.1	0.9	0.2	< 0.1	0.2	0.002	0.16	1.4	35	0.2	0.1	0.349	0.018	0.11
282606	0.1	0.1	0.9	0.1	< 0.1	< 0.1	0.001	0.22	1.1	29	0.8	0.2	0.285	0.038	0.18
282607	0.6	0.1	0.8	0.1	< 0.1	0.1	0.002	0.07	0.9	34	0.2	0.1	0.375	0.019	0.10
282608	0.9	0.2	1.3	0.2	< 0.1	0.1	0.003	< 0.05	0.6	36	0.2	0.1	0.368	0.019	0.10
282609	0.6	0.1	1.0	0.2	< 0.1	0.3	0.002	< 0.05	0.7	40	0.2	0.1	0.353	0.019	0.10
282610	0.6	0.1	0.8	0.1	< 0.1	< 0.1	0.002	0.33	1.4	37	0.2	0.1	0.316	0.016	0.08
282611	0.5	0.2	1.3	0.2	< 0.1	0.1	0.004	0.20	7.0	30	0.8	0.2	0.499	0.040	1.81
282612	< 0.1	0.1	0.7	0.1	< 0.1	5.1	0.002	0.92	16.6	7	1.7	0.5	0.194	0.039	0.67
282613	0.2	0.3	2.1	0.4	< 0.1	0.1	0.004	0.16	2.7	40	0.7	0.2	0.513	0.051	0.39
282614	0.1	0.3	2.1	0.4	< 0.1	0.1	0.004	0.15	3.4	32	0.6	0.2	0.698	0.050	0.65
282615	0.1	0.3	2.3	0.4	< 0.1	0.2	0.004	0.21	5.7	39	0.6	0.2	0.721	0.053	0.71
282616	< 0.1	0.1	0.9	0.1	0.1	1.0	< 0.001	0.27	8.0	13	1.4	1.1	0.280	0.027	0.57
282617	< 0.1	0.4	2.7	0.4	< 0.1	0.1	0.003	0.43	5.0	33	0.8	0.3	0.515	0.049	0.33
282618	0.1	0.3	2.0	0.3	< 0.1	0.1	0.003	0.41	6.5	30	0.6	0.2	0.526	0.044	0.35
282619	< 0.1	< 0.1	0.2	< 0.1	< 0.1	2.1	0.002	0.58	10.6	2	2.1	1.5	0.105	0.025	0.43
282620	< 0.1	< 0.1	0.2	< 0.1	< 0.1	1.3	0.001	0.52	12.3	2	1.9	1.3	0.120	0.026	0.48
282621	< 0.1	< 0.1	0.2	< 0.1	< 0.1	1.2	0.002	0.46	12.9	2	2.1	1.3	0.112	0.025	0.31
282622	0.1	< 0.1	0.2	< 0.1	< 0.1	0.9	0.006	0.51	16.6	2	2.0	1.2	0.104	0.023	0.08
282623	0.1	0.4	2.4	0.4	< 0.1	0.1	0.003	0.14	16.4	29	0.6	0.2	0.585	0.042	0.90
282624	< 0.1	0.5	3.3	0.5	< 0.1	0.3	0.002	0.47	12.5	19	3.2	1.2	0.584	0.181	0.15
282625	0.3	0.4	2.7	0.4	< 0.1	0.1	0.004	0.19	11.8	36	0.6	0.2	0.294	0.049	0.28
282626	0.2	0.4	2.5	0.4	< 0.1	0.2	0.003	0.22	7.5	33	0.5	0.1	0.192	0.046	0.20
282627	< 0.1	0.3	2.4	0.3	< 0.1	0.1	0.002	0.25	6.0	36	0.6	0.8	0.251	0.047	0.38
282628	0.1	0.4	2.8	0.4	< 0.1	< 0.1	0.003	0.49	9.3	33	0.9	0.2	0.302	0.054	0.45
282629	< 0.1	< 0.1	0.3	< 0.1	< 0.1	1.9	0.002	0.77	9.2	8	1.8	1.3	0.160	0.020	0.68
282630	< 0.1	< 0.1	0.2	< 0.1	< 0.1	1.3	0.002	0.30	13.6	3	2.4	1.5	0.107	0.029	0.84
282631	0.2	< 0.1	0.2	< 0.1	< 0.1	1.7	< 0.001	0.26	10.2	3	2.3	1.3	0.129	0.028	0.67
282632	< 0.1	< 0.1	0.3	0.1	< 0.1	9.9	0.001	0.38	10.5	7	2.2	1.3	0.163	0.023	0.62
282633	< 0.1	< 0.1	0.1	< 0.1	< 0.1	1.4	< 0.001	0.34	10.4	2	1.5	1.0	0.0973	0.024	0.27
282634	< 0.1	< 0.1	0.2	< 0.1	< 0.1	1.2	0.001	0.33	12.8	2	2.1	1.4	0.100	0.025	0.48
282635	< 0.1	< 0.1	0.2	< 0.1	< 0.1	3.9	0.002	0.31	11.2	3	2.2	1.5	0.103	0.027	0.45
282636	< 0.1	0.3	1.8	0.3	< 0.1	0.2	0.002	0.11	6.6	17	4.2	1.3	0.468	0.193	1.76

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
282637	< 0.1	< 0.1	0.2	< 0.1	< 0.1	1.8	0.002	0.48	15.6	2	2.1	1.5	0.113	0.027	0.53
282638	< 0.1	< 0.1	0.2	0.1	< 0.1	2.2	0.001	0.45	14.7	2	2.0	1.5	0.107	0.025	0.60
282639	< 0.1	< 0.1	0.2	< 0.1	< 0.1	1.3	0.001	0.42	10.1	2	1.9	1.4	0.102	0.027	0.57
282640	< 0.1	< 0.1	0.1	< 0.1	< 0.1	2.1	0.001	0.37	9.3	1	0.6	0.7	0.104	0.022	0.54
282641	< 0.1	< 0.1	0.1	< 0.1	< 0.1	1.7	0.002	0.54	10.4	2	1.4	0.8	0.107	0.026	0.59
282642	< 0.1	< 0.1	0.3	< 0.1	< 0.1	1.9	0.002	0.53	14.5	4	1.9	1.2	0.175	0.033	0.60
282643	< 0.1	0.5	2.9	0.4	< 0.1	< 0.1	0.002	0.31	7.7	40	0.6	0.2	0.143	0.050	0.26
282644	< 0.1	0.4	2.3	0.4	< 0.1	1.7	0.002	0.45	54.3	29	0.6	0.3	0.650	0.043	1.23
282645	< 0.1	0.5	3.1	0.4	< 0.1	0.4	0.003	0.48	9.9	40	0.7	0.2	0.649	0.054	0.75
282646	< 0.1	0.4	2.6	0.3	< 0.1	< 0.1	0.002	0.22	6.8	36	0.5	0.1	0.460	0.037	0.85
282647	0.5	0.3	1.6	0.2	< 0.1	0.1	0.003	0.05	3.9	35	0.3	0.1	0.334	0.021	0.13
282648	< 0.1	0.6	3.7	0.5	< 0.1	< 0.1	0.002	0.52	13.1	19	3.5	1.3	0.272	0.151	0.14
282649	0.5	0.2	1.3	0.2	< 0.1	0.2	0.003	< 0.05	2.0	36	0.2	0.1	0.366	0.019	0.08
282650	0.3	0.3	1.7	0.3	< 0.1	0.4	0.002	< 0.05	1.8	35	0.2	0.1	0.489	0.022	0.16
282651	0.4	0.2	1.7	0.2	< 0.1	0.2	0.003	< 0.05	1.1	34	0.2	0.1	0.455	0.022	0.11
282652	0.3	0.3	1.7	0.3	< 0.1	0.1	0.002	< 0.05	2.2	38	0.3	0.1	0.424	0.026	0.18
282653	0.4	0.3	1.7	0.2	< 0.1	0.1	0.003	< 0.05	5.1	41	0.3	0.1	0.431	0.026	0.18
282654	0.4	0.3	1.9	0.3	< 0.1	0.2	0.003	< 0.05	8.0	38	0.3	0.1	0.379	0.021	0.08
282655	0.3	0.2	1.3	0.2	< 0.1	0.2	0.003	< 0.05	1.8	36	0.2	< 0.1	0.347	0.016	0.13
282656	0.4	0.2	1.6	0.2	< 0.1	< 0.1	0.002	< 0.05	7.4	38	0.2	0.1	0.314	0.021	0.18
282657	0.3	0.3	1.8	0.2	< 0.1	0.1	0.002	< 0.05	5.2	42	0.3	0.1	0.298	0.023	0.16
282658	0.3	0.3	1.8	0.2	< 0.1	0.2	0.002	< 0.05	2.0	42	0.3	0.1	0.386	0.025	0.17
282659	0.3	0.3	1.8	0.2	< 0.1	0.1	0.004	< 0.05	1.1	39	0.3	0.1	0.450	0.024	0.10
282660	0.2	0.4	2.3	0.3	0.1	2.0	0.001	0.94	22.2	14	17.0	5.2	0.510	0.101	0.36
282661	0.2	0.3	1.7	0.2	< 0.1	< 0.1	0.001	< 0.05	1.2	42	0.3	0.1	0.303	0.021	0.10
282662	0.1	0.3	1.8	0.3	< 0.1	0.1	0.002	< 0.05	1.0	43	0.3	0.1	0.418	0.024	0.05
282663	0.3	0.3	1.4	0.2	< 0.1	< 0.1	0.002	< 0.05	2.3	32	0.2	0.4	0.391	0.019	0.10
282664	0.2	0.3	1.6	0.2	< 0.1	0.1	0.002	< 0.05	3.3	40	0.3	< 0.1	0.263	0.023	0.19
282665	< 0.1	0.2	1.4	0.2	< 0.1	< 0.1	0.003	< 0.05	3.0	41	0.2	< 0.1	0.233	0.021	0.24
282666	0.3	0.3	1.5	0.2	< 0.1	< 0.1	0.002	< 0.05	3.3	42	0.3	0.1	0.548	0.025	0.12
282667	< 0.1	0.2	1.6	0.2	< 0.1	0.2	0.002	< 0.05	6.4	40	0.3	< 0.1	0.362	0.023	0.37
282668	0.4	0.3	1.5	0.2	< 0.1	3.2	0.003	< 0.05	1.2	38	0.3	0.1	0.536	0.024	0.10
282669	< 0.1	0.2	1.5	0.2	0.1	0.4	0.002	< 0.05	1.3	37	0.2	0.1	0.545	0.024	0.19
282670	0.2	0.2	1.6	0.2	< 0.1	1.1	0.003	< 0.05	2.2	38	0.2	0.1	0.526	0.025	0.73
282671	0.3	0.3	1.6	0.2	< 0.1	0.1	0.002	< 0.05	1.7	33	0.2	0.1	0.405	0.023	0.17
282672	0.1	0.4	2.7	0.3	0.6	0.2	0.002	0.43	11.9	11	0.7	0.9	0.813	0.184	0.12
282673	0.1	0.2	1.5	0.1	< 0.1	0.2	0.002	< 0.05	1.9	34	0.2	0.1	0.527	0.025	0.18
282674	0.2	0.2	1.5	0.2	< 0.1	0.1	0.003	< 0.05	2.0	37	0.2	0.1	0.489	0.024	0.47
282675	0.2	0.2	1.4	0.2	< 0.1	< 0.1	0.002	< 0.05	1.9	31	0.3	0.1	0.257	0.026	0.23
282676	0.4	0.3	1.5	0.2	< 0.1	0.1	0.004	< 0.05	5.2	36	0.2	0.2	0.456	0.022	0.11
282677	0.4	0.2	1.6	0.2	< 0.1	< 0.1	0.002	< 0.05	1.5	38	0.2	0.1	0.478	0.023	0.07
282678	0.3	0.3	1.7	0.3	< 0.1	0.1	0.003	< 0.05	7.6	36	0.2	0.1	0.530	0.024	0.11

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
282679	< 0.1	0.2	1.5	0.2	0.2	0.3	0.003	< 0.05	4.3	41	0.2	0.1	0.535	0.026	0.29
282680	0.4	0.3	1.7	0.2	< 0.1	0.2	0.003	< 0.05	1.4	36	0.2	0.1	0.520	0.024	0.10
282681	< 0.1	0.3	1.5	0.2	< 0.1	0.9	0.003	< 0.05	1.3	38	0.2	0.1	0.478	0.025	0.31
282682	0.1	0.2	1.6	0.3	0.2	0.3	0.002	< 0.05	1.1	40	0.2	0.1	0.537	0.025	0.08
282683	0.9	0.2	1.5	0.2	0.1	0.4	0.002	< 0.05	15.2	36	0.1	< 0.1	0.524	0.024	0.17
282684	< 0.1	0.2	1.6	0.2	0.6	3.5	0.008	0.40	22.2	15	6.4	2.1	0.388	0.089	1.26
282685	0.4	0.3	1.8	0.3	< 0.1	0.1	0.002	< 0.05	1.2	36	0.2	0.1	0.403	0.020	0.08
282686	0.3	0.3	1.5	0.2	< 0.1	< 0.1	0.002	< 0.05	1.3	39	0.2	0.1	0.409	0.024	0.11
282687	0.2	0.3	1.6	0.2	< 0.1	< 0.1	0.002	< 0.05	4.4	33	0.2	0.1	0.392	0.021	0.08
282688	0.4	0.2	1.7	0.3	< 0.1	0.4	0.002	< 0.05	9.7	33	0.6	0.2	0.533	0.041	0.07
282689	0.4	0.2	1.7	0.2	< 0.1	1.2	0.002	0.07	7.2	31	1.5	0.5	0.404	0.073	0.15
282690	< 0.1	0.3	1.8	0.3	< 0.1	0.1	0.001	< 0.05	13.0	30	1.6	0.5	0.204	0.069	0.13
282691	0.2	0.3	1.8	0.3	< 0.1	0.1	0.002	< 0.05	18.6	32	1.5	0.5	0.276	0.068	0.18
282692	< 0.1	0.2	1.8	0.2	< 0.1	0.1	0.003	< 0.05	11.7	31	1.6	0.5	0.390	0.074	0.08
282693	0.1	0.3	2.1	0.2	< 0.1	0.2	0.003	< 0.05	6.9	28	1.5	0.5	0.247	0.067	0.21
282694	0.2	0.3	1.7	0.3	< 0.1	< 0.1	0.002	0.05	8.9	34	1.6	0.5	0.245	0.073	0.14
282695	0.1	0.3	1.9	0.3	< 0.1	< 0.1	0.002	< 0.05	27.3	33	1.7	0.6	0.186	0.077	0.16
282696	< 0.1	0.7	3.7	0.5	< 0.1	0.1	0.002	0.52	12.8	19	3.6	1.4	0.436	0.149	0.12
282697	< 0.1	0.3	1.8	0.3	< 0.1	0.1	0.002	< 0.05	10.8	32	1.6	0.5	0.204	0.072	0.15
282698	< 0.1	0.3	1.7	0.3	< 0.1	0.1	< 0.001	< 0.05	10.3	33	1.8	0.7	0.214	0.077	0.16
282699	< 0.1	0.3	1.7	0.2	< 0.1	0.2	0.001	< 0.05	8.3	31	2.0	0.6	0.311	0.094	0.04
282700	< 0.1	0.3	1.8	0.3	< 0.1	0.1	0.003	< 0.05	4.0	26	3.3	0.9	0.361	0.137	0.03
282701	0.3	0.4	2.7	0.4	0.3	1.3	0.003	< 0.05	3.3	30	1.6	0.6	0.742	0.101	0.23
282702	< 0.1	0.4	2.4	0.3	< 0.1	< 0.1	0.002	< 0.05	3.3	28	2.2	0.6	0.479	0.101	0.10
282703	< 0.1	0.4	2.7	0.3	< 0.1	< 0.1	0.004	< 0.05	3.0	35	0.7	0.1	0.290	0.054	0.41
282704	< 0.1	0.4	3.0	0.4	< 0.1	0.1	0.003	< 0.05	2.0	38	0.7	0.2	0.118	0.054	0.14
282705	< 0.1	0.5	3.2	0.5	< 0.1	< 0.1	0.004	< 0.05	11.3	37	1.7	0.4	0.279	0.077	0.28

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
GXR-1 Meas	9.3	0.05	0.21	2.29	0.05	0.88	3.0	85	25.0	936	25.3	0.5	3720	44.8		1.0		33.7	2.84	8.6	0.60	1510	16.9
GXR-1 Cert	8.20	0.0520	0.217	3.52	0.050	0.960	3.30	80.0	12.0	852	23.6	0.960	3900	41.0		1.22		31.0	3.00	8.20	0.690	1380	16.6
GXR-1 Meas	8.1	0.05	0.25	2.37	0.04	0.90	2.9	81	10.5	875	23.3	0.5	2820	38.4		0.9		31.4	2.73	6.8	0.60	1390	14.6
GXR-1 Cert	8.20	0.0520	0.217	3.52	0.050	0.960	3.30	80.0	12.0	852	23.6	0.960	3900	41.0		1.22		31.0	3.00	8.20	0.690	1380	16.6
GXR-1 Meas	8.3	0.05	0.26	2.49	0.04	0.91	2.3	82	12.8	884	24.0	0.5	2470	35.6		1.0		31.5	2.66	7.2	0.58	1400	15.4
GXR-1 Cert	8.20	0.0520	0.217	3.52	0.050	0.960	3.30	80.0	12.0	852	23.6	0.960	3900	41.0		1.22		31.0	3.00	8.20	0.690	1380	16.6
GXR-1 Meas	8.1	0.04	0.17	1.70	0.04	0.80	2.3	67	11.6	823	24.7	0.5	2940	40.2		0.9		32.7	2.70	8.2	0.57	1510	14.4
GXR-1 Cert	8.20	0.0520	0.217	3.52	0.050	0.960	3.30	80.0	12.0	852	23.6	0.960	3900	41.0		1.22		31.0	3.00	8.20	0.690	1380	16.6
DH-1a Meas																							
DH-1a Cert																							
DH-1a Meas																							
DH-1a Cert																							
DH-1a Meas																							
DH-1a Cert																							
GXR-4 Meas	11.7	0.51	1.63	6.17	3.02	0.94	0.1	83	48.3	151	2.86	1.3	30	42.0		2.2		3.39	2.37	13.8	1.30	17.0	5.3
GXR-4 Cert	11.1	0.564	1.66	7.20	4.01	1.01	0.860	87.0	64.0	155	3.09	6.30	110	42.0		1.90		4.00	2.80	14.6	1.63	19.0	5.60
GXR-4 Meas	11.7	0.51	1.87	6.83	3.11	1.00	0.5	89	39.7	146	2.90	1.1	120	40.0		2.0		3.41	2.52	13.0	1.39	18.4	6.3
GXR-4 Cert	11.1	0.564	1.66	7.20	4.01	1.01	0.860	87.0	64.0	155	3.09	6.30	110	42.0		1.90		4.00	2.80	14.6	1.63	19.0	5.60
GXR-4 Meas	10.6	0.51	1.61	6.04	3.66	0.90	0.4	84	38.5	135	2.80	1.0	120	37.5		1.9		3.27	2.44	13.3	1.33	18.1	5.7
GXR-4 Cert	11.1	0.564	1.66	7.20	4.01	1.01	0.860	87.0	64.0	155	3.09	6.30	110	42.0		1.90		4.00	2.80	14.6	1.63	19.0	5.60
GXR-4 Meas	11.2	0.54	1.82	6.49	3.04	1.01	0.3	76	49.8	154	3.28	1.4	20	41.5		2.1		3.82	2.63	14.8	1.41	16.2	5.4
GXR-4 Cert	11.1	0.564	1.66	7.20	4.01	1.01	0.860	87.0	64.0	155	3.09	6.30	110	42.0		1.90		4.00	2.80	14.6	1.63	19.0	5.60
SDC-1 Meas	36.4	1.52	0.98	7.84	2.26	1.00		63	54.4	906	4.80	1.2	50	37.0	3.4	2.7	1.2		3.63	19.0	1.36		
SDC-1 Cert	34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70		
SDC-1 Meas	34.8	1.53	0.87	8.06	1.52	1.00		48	40.0	833	4.53	1.0	70	37.1	3.5	2.8	1.2		3.59	16.4	1.46		
SDC-1 Cert	34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70		
SDC-1 Meas	32.2	1.42	0.82	6.98	1.78	0.84		55	40.6	790	4.26	1.0	60	31.8	3.4	2.6	1.2		3.78	16.5	1.36		
SDC-1 Cert	34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70		
SDC-1 Meas	35.2	1.59	1.08	8.36	2.53	1.10		38	50.1	844	4.94	0.9	30	36.3	3.9	3.0	1.4		4.17	19.4	1.55		
SDC-1 Cert	34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70		
GXR-6 Meas	40.3	0.11	0.64	> 10.0	1.79	0.18	0.1	155	68.0	984	5.12	2.8	80	24.3		1.2		0.13	3.80	12.9	0.57	0.17	0.4
GXR-6 Cert	32.0	0.104	0.609	17.7	1.87	0.180	1.00	186	96.0	1010	5.58	4.30	68.0	27.0		1.40		1.30	4.20	13.8	0.760	0.290	0.940
GXR-6 Meas	32.7	0.08	0.61	> 10.0	1.41	0.12	0.1	135	49.9	976	5.25	2.0	80	24.9		1.0		0.17	3.86	12.6	0.57	0.20	0.2
GXR-6 Cert	32.0	0.104	0.609	17.7	1.87	0.180	1.00	186	96.0	1010	5.58	4.30	68.0	27.0		1.40		1.30	4.20	13.8	0.760	0.290	0.940
GXR-6 Meas	34.8	0.10	0.65	> 10.0	1.34	0.18	0.1	130	42.3	907	4.95	2.1	30	21.5		1.0		0.20	4.27	12.1	0.57	0.18	< 0.1
GXR-6 Cert	32.0	0.104	0.609	17.7	1.87	0.180	1.00	186	96.0	1010	5.58	4.30	68.0	27.0		1.40		1.30	4.20	13.8	0.760	0.290	0.940
GXR-6 Meas	37.1	0.10	0.54	> 10.0	1.81	0.16	0.1	202	87.8	1080	5.96	3.2	70	26.6		1.1		0.18	4.23	14.9	0.55	0.17	0.6
GXR-6 Cert	32.0	0.104	0.609	17.7	1.87	0.180	1.00	186	96.0	1010	5.58	4.30	68.0	27.0		1.40		1.30	4.20	13.8	0.760	0.290	0.940
DNC-1a Meas	5.0							145	275					281						60.1	0.54		
DNC-1a Cert	5.2							148	270					247						57	0.59		
DNC-1a Meas	4.4							143	183					251						53.5	0.55		
DNC-1a Cert	5.2							148	270					247						57	0.59		

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
DNC-1a Meas	4.4							146	174					270						52.8	0.56		
DNC-1a Cert	5.2							148	270					247						57	0.59		
DNC-1a Meas	4.9							124	203					268						61.9	0.57		
DNC-1a Cert	5.2							148	270					247						57	0.59		
SBC-1 Meas	175						0.4	211	95.2			3.2		91.8	3.5	3.2	1.2		7.57	23.5	1.73	0.63	
SBC-1 Cert	163						0.40	220.0	109			3.7		82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70	
SBC-1 Meas	166						0.4	221	91.8			3.2		78.9	3.6	2.7	1.2		7.45	21.6	1.79	0.85	
SBC-1 Cert	163						0.40	220.0	109			3.7		82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70	
SBC-1 Meas	154						0.1	210	64.2			3.1		83.4	3.6	2.9	1.2		8.67	20.2	1.82	0.74	
SBC-1 Cert	163						0.40	220.0	109			3.7		82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70	
SBC-1 Meas	170						0.4	247	95.0			3.5		89.3	3.8	3.4	1.4		8.37	24.2	1.90	0.63	
SBC-1 Cert	163						0.40	220.0	109			3.7		82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70	
OREAS 45d (4-Acid) Meas	22.1	0.09	0.22	7.62	0.40	0.18		148	545	502	13.6	3.0		244	1.4	0.8	0.4		3.56	30.6	0.55	0.34	
OREAS 45d (4-Acid) Cert	21.5	0.101	0.245	8.150	0.412	0.185		235.0	549	490.000	14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31	
OREAS 45d (4-Acid) Meas	21.2	0.10	0.22	7.90	0.38	0.18		88	585	477	15.2	1.3		244	1.5	0.7	0.5		3.83	31.7	0.59	0.31	
OREAS 45d (4-Acid) Cert	21.5	0.101	0.245	8.150	0.412	0.185		235.0	549	490.000	14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31	
OREAS 45d (4-Acid) Meas																							
OREAS 45d (4-Acid) Cert																							
OREAS 45d (4-Acid) Meas																							
OREAS 45d (4-Acid) Cert																							
SdAR-M2 (U.S.G.S.) Meas	18.7						5.4	25	60.6			1.7	1180	53.4	2.8	7.0	0.9		1.64	13.5	1.24	0.96	
SdAR-M2 (U.S.G.S.) Cert	17.9						5.1	25.2	49.6			7.29	1440.00	48.8	3.58	6.6	1.21		1.82	12.4	1.44	1.05	
SdAR-M2 (U.S.G.S.) Meas	17.5						4.8	20	33.9			3.6	760	47.8	2.9	6.1	1.0		1.84	12.4	1.29	1.03	
SdAR-M2 (U.S.G.S.) Cert	17.9						5.1	25.2	49.6			7.29	1440.00	48.8	3.58	6.6	1.21		1.82	12.4	1.44	1.05	
SdAR-M2 (U.S.G.S.) Meas																							
SdAR-M2 (U.S.G.S.) Cert																							
SdAR-M2 (U.S.G.S.) Meas																							
SdAR-M2 (U.S.G.S.) Cert																							
282511 Orig	27.7	0.63	0.76	6.61	1.61	2.80	< 0.1	43	8.6	447	2.68	3.3	60	8.6	1.2	1.0	0.4	< 0.05	1.29	9.0	0.58	0.25	< 0.1
282511 Dup	27.2	0.66	0.77	6.55	1.67	2.72	< 0.1	43	14.9	437	2.64	3.3	60	8.7	1.1	1.0	0.4	< 0.05	1.33	8.3	0.56	0.24	< 0.1

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
282549 Orig	21.5	0.54	0.83	5.77	1.32	1.21	0.1	64	69.7	2240	7.26	3.1	40	51.2	1.5	0.8	0.5	< 0.05	1.09	15.2	0.75	0.08	< 0.1
282549 Dup	21.5	0.52	0.85	6.13	1.31	1.20	< 0.1	66	70.7	2280	7.31	3.0	110	49.2	1.4	0.7	0.5	< 0.05	1.12	15.0	0.77	0.08	< 0.1
282551 Orig	18.4	0.99	0.89	5.65	1.00	1.32	0.1	72	96.2	2510	7.19	2.9	40	60.0	1.4	0.7	0.5	< 0.05	0.84	18.4	0.73	0.44	< 0.1
282551 Dup	19.5	1.05	0.90	5.88	1.04	1.43	< 0.1	73	101	2560	7.52	3.0	40	64.5	1.4	0.6	0.5	< 0.05	0.92	19.2	0.76	0.45	< 0.1
282561 Split Orig PREP DUP	14.0	2.26	0.65	6.30	1.01	2.37	< 0.1	51	24.2	526	2.92	2.5	40	19.4	1.0	0.8	0.3	< 0.05	0.91	10.2	0.52	0.12	< 0.1
282561 Split PREP DUP	14.0	2.35	0.64	6.61	1.05	2.22	< 0.1	51	25.8	522	3.01	2.6	130	20.5	1.1	0.7	0.4	< 0.05	0.95	10.7	0.66	0.16	< 0.1
282567 Orig	14.2	2.63	0.89	5.63	0.92	2.40	< 0.1	63	64.2	465	3.72	2.9	60	27.2	0.9	0.8	0.3	< 0.05	0.79	15.5	0.42	0.06	< 0.1
282567 Dup	13.9	2.54	0.90	5.76	0.91	2.48	< 0.1	61	48.4	461	3.70	2.7	40	28.6	1.0	0.8	0.3	< 0.05	0.79	15.9	0.44	0.06	< 0.1
282586 Orig	19.8	1.06	2.55	6.24	0.67	8.25	< 0.1	208	144	1380	6.13	1.1	70	107	1.2	0.5	0.4	< 0.05	0.93	39.5	0.59	0.04	< 0.1
282586 Dup	18.4	1.00	2.39	6.02	0.64	7.78	< 0.1	189	147	1280	5.78	1.1	110	101	1.1	0.5	0.4	0.05	1.03	37.8	0.58	0.05	0.2
282591 Orig	11.5	2.60	1.64	6.52	0.99	3.40	0.3	115	79.3	928	4.36	3.1	80	47.4	1.3	0.9	0.5	< 0.05	1.03	23.0	1.34	0.12	0.4
282591 Dup	12.2	2.50	1.60	6.48	0.96	3.16	0.1	113	92.0	910	4.38	3.2	50	46.2	1.3	0.8	0.4	< 0.05	1.04	22.2	1.33	0.15	0.4
282610 Split Orig PREP DUP	32.5	0.73	4.51	6.58	0.83	6.60	< 0.1	199	131	1700	6.72	0.9	40	125	0.6	0.3	0.2	< 0.05	1.09	44.9	0.39	0.02	0.2
282610 Split PREP DUP	31.9	0.71	4.58	6.43	0.80	6.55	< 0.1	207	130	1630	6.60	0.9	70	124	0.7	0.2	0.2	< 0.05	1.20	43.9	0.39	< 0.02	0.4
282621 Orig	4.2	> 3.00	0.31	7.19	1.54	2.08	< 0.1	24	15.8	225	1.04	2.7	50	9.7	0.2	1.3	0.1	< 0.05	2.23	3.9	0.49	0.30	< 0.1
282621 Dup	4.3	> 3.00	0.31	7.20	1.63	2.09	< 0.1	24	15.0	223	1.06	2.5	60	9.2	0.2	1.3	0.1	< 0.05	2.34	3.6	0.47	0.27	< 0.1
282631 Orig	4.9	> 3.00	0.49	6.86	1.47	1.99	0.1	28	29.8	200	1.11	2.9	10	20.9	0.2	1.0	0.1	< 0.05	1.36	5.4	0.50	0.15	< 0.1
282631 Dup	5.0	> 3.00	0.49	6.37	1.50	2.04	0.1	29	34.1	199	1.11	2.9	20	19.2	0.2	1.1	0.1	< 0.05	1.30	5.1	0.47	0.17	< 0.1
282633 Orig	5.9	> 3.00	0.27	6.44	1.71	1.82	0.2	18	24.5	149	0.78	2.6	120	7.7	0.2	0.9	0.1	< 0.05	1.42	4.5	0.28	0.08	< 0.1
282633 Dup	5.2	> 3.00	0.27	6.06	1.66	1.82	0.2	18	21.7	164	0.78	2.5	70	8.2	0.1	0.9	0.1	< 0.05	1.45	4.4	0.27	0.07	< 0.1
282633 Orig																							
282633 Dup																							
282660 Orig	31.8	2.14	1.48	7.33	3.25	2.83	0.2	94	89.4	576	4.73	2.5	< 10	39.9	2.6	2.9	0.9	0.57	11.7	16.0	1.19	1.55	1.5
282660 Dup	30.7	2.10	1.45	7.13	3.52	2.81	0.1	112	106	556	4.56	2.9	20	45.2	2.5	2.8	0.9	0.58	11.2	15.6	1.18	1.50	1.8
282661 Split Orig PREP DUP	23.5	1.84	4.00	6.90	0.06	6.36	< 0.1	247	99.5	1760	9.22	0.3	30	89.0	2.0	0.2	0.7	0.05	0.10	49.7	0.72	0.02	< 0.1
282661 Split PREP DUP	24.3	1.95	4.11	7.19	0.07	6.47	< 0.1	269	113	1810	9.80	0.3	20	93.9	2.1	0.2	0.7	< 0.05	0.09	52.1	0.74	0.02	< 0.1
282702 Orig	18.6	2.41	2.52	5.55	0.01	8.18	0.1	174	203	1150	5.94	2.3	70	53.0	2.7	0.7	0.9	< 0.05	0.14	31.6	1.30	0.03	< 0.1
282702 Dup	18.2	2.44	2.51	5.74	0.02	8.14	< 0.1	146	177	1160	6.03	1.7	130	49.3	2.7	0.7	1.0	< 0.05	0.09	31.7	1.32	0.04	< 0.1
282705 Split Orig PREP DUP	13.9	2.22	2.50	5.47	0.02	6.75	< 0.1	136	32.2	1320	8.30	0.9	110	45.2	3.5	0.6	1.2	< 0.05	0.56	72.1	1.54	0.07	< 0.1
282705 Split PREP DUP	14.9	2.30	2.63	5.86	0.03	7.60	0.1	166	30.8	1380	8.69	1.0	60	46.3	3.6	0.7	1.2	< 0.05	0.78	76.2	1.60	0.10	< 0.1
Method Blank	< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	4.9	4	< 0.01	< 0.1	50	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	0.03	< 0.1
Method Blank																							
Method Blank																							
Method Blank	< 0.5	< 0.01	0.01	0.02	< 0.01	0.01	< 0.1	1	1.2	14	< 0.01	< 0.1	30	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	0.02	< 0.1
Method Blank	< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	0.04	< 0.1	< 1	< 0.5	5	< 0.01	< 0.1	60	0.6	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	0.03	< 0.1
Method Blank	< 0.5	< 0.01	< 0.01	0.01	< 0.01	< 0.01	< 0.1	< 1	3.5	22	< 0.01	< 0.1	70	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	0.02	< 0.1

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Method Blank	< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	< 1	3.0	4	< 0.01	< 0.1	50	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	< 0.1
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	5.7	13	< 0.01	< 0.1	20	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	< 0.1
Method Blank	< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	2	10.3	14	< 0.01	< 0.1	20	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	< 0.1

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
GXR-1 Meas	837	4.2	460	2.8	28.8	302	29	1.9	19.4	0.8	26	21.9	7.7	716	7.5	15.6		9.3	3.0	4.4	0.8	5.0	1220
GXR-1 Cert	760	13.8	427	14.0	32.0	275	38.0	0.800	18.0	0.770	54.0	122	13.0	750	7.50	17.0		18.0	2.70	4.20	0.830	4.30	1110
GXR-1 Meas	722	< 0.1	414	2.5	26.8	286	21	0.7	16.0	0.6	23	17.9	7.5	737	7.4	14.0		8.9	2.5	4.0	0.7	4.7	1180
GXR-1 Cert	760	13.8	427	14.0	32.0	275	38.0	0.800	18.0	0.770	54.0	122	13.0	750	7.50	17.0		18.0	2.70	4.20	0.830	4.30	1110
GXR-1 Meas	763	< 0.1	441	2.9	27.4	294	23	0.9	15.7	0.7	23	20.1	9.2	699	7.7	14.0		8.4	2.9	4.3	0.7	4.5	1210
GXR-1 Cert	760	13.8	427	14.0	32.0	275	38.0	0.800	18.0	0.770	54.0	122	13.0	750	7.50	17.0		18.0	2.70	4.20	0.830	4.30	1110
GXR-1 Meas	713	5.5	370	2.6	23.3	278	23	1.1	15.9	0.8	26	23.6	7.7	579	7.3	12.5		7.8	2.6	4.1	0.7	4.6	1220
GXR-1 Cert	760	13.8	427	14.0	32.0	275	38.0	0.800	18.0	0.770	54.0	122	13.0	750	7.50	17.0		18.0	2.70	4.20	0.830	4.30	1110
DH-1a Meas																							
DH-1a Cert																							
DH-1a Meas																							
DH-1a Cert																							
DH-1a Meas																							
DH-1a Cert																							
GXR-4 Meas	69.2	14.7	103	115	12.1	197	38	9.2	313	0.2	7	4.4	0.9	328	51.9	102		40.3	5.9	4.7	0.5	2.6	6560
GXR-4 Cert	73.0	20.0	98.0	160	14.0	221	186	10.0	310	0.270	5.60	4.80	0.970	1640	64.5	102		45.0	6.60	5.25	0.360	2.60	6520
GXR-4 Meas	66.4	18.4	101	115	11.8	214	36	9.5	296	0.2	7	4.2	0.9	150	58.5	107		42.6	6.9	4.4	0.5	2.7	6610
GXR-4 Cert	73.0	20.0	98.0	160	14.0	221	186	10.0	310	0.270	5.60	4.80	0.970	1640	64.5	102		45.0	6.60	5.25	0.360	2.60	6520
GXR-4 Meas	69.5	17.5	98.3	123	12.3	195	38	8.1	278	0.2	7	4.5	1.1	158	56.4	104		40.3	6.5	4.9	0.5	2.6	6180
GXR-4 Cert	73.0	20.0	98.0	160	14.0	221	186	10.0	310	0.270	5.60	4.80	0.970	1640	64.5	102		45.0	6.60	5.25	0.360	2.60	6520
GXR-4 Meas	79.3	17.2	96.8	126	10.9	199	37	8.8	274	0.2	8	4.2	0.9	165	53.8	110		39.3	6.9	5.0	0.5	2.9	7100
GXR-4 Cert	73.0	20.0	98.0	160	14.0	221	186	10.0	310	0.270	5.60	4.80	0.970	1640	64.5	102		45.0	6.60	5.25	0.360	2.60	6520
SDC-1 Meas	98.1	17.2	< 0.1	95.3		163	40	3.2			1	< 0.1		579	34.9	79.7		37.6	7.2	6.7	0.9	5.9	29.3
SDC-1 Cert	103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70	30.000
SDC-1 Meas	95.8	11.5	< 0.1	75.6		173	39	0.1			< 1	< 0.1		586	40.0	81.8		39.6	8.7	7.0	0.9	6.2	28.0
SDC-1 Cert	103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70	30.000
SDC-1 Meas	86.8	11.1	< 0.1	82.6		158	48	2.9			3	< 0.1		568	35.3	77.3		35.4	6.9	6.7	0.9	5.6	26.3
SDC-1 Cert	103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70	30.000
SDC-1 Meas	106	17.0	< 0.1	103		164	27	0.4			< 1	< 0.1		586	39.4	87.8		38.8	8.5	7.6	1.1	6.6	28.0
SDC-1 Cert	103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70	30.000
GXR-6 Meas	115	14.2	273	69.1	11.1	40.0	91	4.2	1.45	< 0.1	1	2.5	< 0.1	1400	11.7	32.5		12.4	2.4	2.3	0.3	2.2	68.4
GXR-6 Cert	118	35.0	330	90.0	14.0	35.0	110	7.50	2.40	0.260	1.70	3.60	0.0180	1300	13.9	36.0		13.0	2.67	2.97	0.415	2.80	66.0
GXR-6 Meas	113	4.5	227	59.4	10.9	32.8	73	1.1	0.62	< 0.1	< 1	0.9	0.3	1100	11.9	31.3		12.1	2.4	1.7	0.3	2.2	67.0
GXR-6 Cert	118	35.0	330	90.0	14.0	35.0	110	7.50	2.40	0.260	1.70	3.60	0.0180	1300	13.9	36.0		13.0	2.67	2.97	0.415	2.80	66.0
GXR-6 Meas	107	3.7	249	56.4	11.2	38.7	63	1.6	0.99	< 0.1	1	1.1	< 0.1	1430	12.2	31.6		12.1	2.0	2.0	0.3	2.2	64.3
GXR-6 Cert	118	35.0	330	90.0	14.0	35.0	110	7.50	2.40	0.260	1.70	3.60	0.0180	1300	13.9	36.0		13.0	2.67	2.97	0.415	2.80	66.0
GXR-6 Meas	126	17.8	283	59.9	8.7	29.6	87	1.6	1.20	< 0.1	1	1.1	< 0.1	990	9.9	23.9		10.3	2.3	2.2	0.3	2.2	64.1
GXR-6 Cert	118	35.0	330	90.0	14.0	35.0	110	7.50	2.40	0.260	1.70	3.60	0.0180	1300	13.9	36.0		13.0	2.67	2.97	0.415	2.80	66.0
DNC-1a Meas	63.2	13.5		4.1	15.4	132	36	1.5				0.8		98	3.6			5.0					95.0
DNC-1a Cert	70	15		5	18.0	144	38.0	3				0.96		118	3.6			5.20					100
DNC-1a Meas	57.0	13.9		3.0	14.7	139	34	1.2				0.7		98	3.4			4.8					87.8
DNC-1a Cert	70	15		5	18.0	144	38.0	3				0.96		118	3.6			5.20					100

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
DNC-1a Meas	60.4	14.4		3.1	15.1	133	36	1.4				0.5		97	3.7			5.0					92.1
DNC-1a Cert	70	15		5	18.0	144	38.0	3				0.96		118	3.6			5.20					100
DNC-1a Meas	63.9	13.7		3.3	13.8	142	35	1.2				0.4		100	3.8			4.7					89.5
DNC-1a Cert	70	15		5	18.0	144	38.0	3				0.96		118	3.6			5.20					100
SBC-1 Meas	189	20.0	25.7	117	29.1	166	144	12.8	2.07		3	1.0		715	45.7	101	12.0	48.4	8.8	8.0	1.0	6.4	30.7
SBC-1 Cert	186	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10	31.0000
SBC-1 Meas	166	13.8	24.6	103	30.1	170	105	15.5	2.10		4	1.2		758	49.6	104	12.3	49.5	10.4	7.4	1.1	6.5	30.7
SBC-1 Cert	186	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10	31.0000
SBC-1 Meas	174	12.6	23.8	125	30.1	168	108	12.1	2.88		3	0.9		769	51.0	105	12.8	48.3	8.4	7.9	1.1	6.2	29.8
SBC-1 Cert	186	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10	31.0000
SBC-1 Meas	193	19.2	21.9	157	25.7	169	115	8.3	2.36		3	0.9		697	47.9	110	10.6	46.0	10.5	8.8	1.2	6.9	28.2
SBC-1 Cert	186	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10	31.0000
OREAS 45d (4-Acid) Meas	40.7	20.4	8.6	37.4	10.3	28.7	104	4.0	0.90	< 0.1	1	0.2		171	15.6	34.7	3.7	14.0	2.8	2.6	0.4	2.3	367
OREAS 45d (4-Acid) Cert	45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26	371
OREAS 45d (4-Acid) Meas	44.6	21.5	5.7	38.5	9.6	31.2	44	0.4	0.23	< 0.1	< 1	< 0.1		173	16.6	30.0	3.4	13.7	2.9	2.8	0.4	2.4	332
OREAS 45d (4-Acid) Cert	45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26	371
OREAS 45d (4-Acid) Meas																							
OREAS 45d (4-Acid) Cert																							
OREAS 45d (4-Acid) Meas																							
OREAS 45d (4-Acid) Cert																							
SdAR-M2 (U.S.G.S.) Meas	808	8.8		114	23.0	131	77	10.0	12.5					908	41.3	91.2	10.1	38.4	6.7	5.7	0.7	4.8	240
SdAR-M2 (U.S.G.S.) Cert	760	17.6		149	32.7	144	259	26.2	13.3					990	46.6	98.8	11.0	39.4	7.18	6.28	0.97	5.88	236.0000
SdAR-M2 (U.S.G.S.) Meas	753	< 0.1		92.6	25.7	147	105	5.3	7.39					991	47.6	98.2	10.5	39.2	6.2	5.4	0.8	4.8	232
SdAR-M2 (U.S.G.S.) Cert	760	17.6		149	32.7	144	259	26.2	13.3					990	46.6	98.8	11.0	39.4	7.18	6.28	0.97	5.88	236.0000
SdAR-M2 (U.S.G.S.) Meas																							
SdAR-M2 (U.S.G.S.) Cert																							
SdAR-M2 (U.S.G.S.) Meas																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
SdAR-M2 (U.S.G.S.) Cert																							
282511 Orig	23.2	15.6	7.7	42.2	9.9	35.5	122	3.7	0.86	< 0.1	2	0.3	< 0.1	272	17.8	33.4	3.7	13.2	2.6	2.4	0.3	1.8	65.7
282511 Dup	22.7	15.5	7.1	43.9	9.9	37.3	127	2.7	0.84	< 0.1	2	0.2	< 0.1	265	17.8	32.8	3.6	13.3	2.5	2.3	0.3	1.8	33.9
282549 Orig	72.0	13.6	3.4	29.3	12.0	61.8	113	6.2	1.23	< 0.1	1	1.4	< 0.1	196	19.2	38.6	4.7	18.2	3.6	2.8	0.4	2.3	35.9
282549 Dup	71.1	13.1	1.9	31.2	12.3	65.5	120	6.5	1.56	< 0.1	1	1.5	0.1	203	20.2	39.5	4.8	19.0	3.7	3.0	0.4	2.4	34.0
282551 Orig	64.2	11.8	6.6	24.1	11.4	92.2	113	5.2	0.91	< 0.1	1	4.9	< 0.1	220	17.8	35.0	4.4	16.7	2.8	2.7	0.4	2.4	61.9
282551 Dup	66.0	12.1	4.8	24.8	11.9	92.5	118	5.3	1.06	< 0.1	1	4.4	< 0.1	226	18.2	35.5	4.6	17.4	3.4	2.5	0.4	2.3	63.7
282561 Split Orig PREP DUP	37.5	13.7	3.6	26.3	8.1	109	80	2.9	1.59	< 0.1	1	0.3	< 0.1	265	11.6	31.5	3.0	11.4	2.3	2.2	0.3	1.6	19.5
282561 Split PREP DUP	36.2	13.4	3.2	29.0	9.5	125	92	2.5	1.83	< 0.1	2	0.2	0.1	288	17.9	36.4	4.3	16.4	2.9	2.6	0.3	1.8	19.8
282567 Orig	58.5	16.8	0.2	22.5	7.0	99.4	80	2.9	1.05	< 0.1	2	0.6	< 0.1	196	9.3	18.5	2.1	8.6	1.8	1.8	0.2	1.5	21.7
282567 Dup	59.5	17.2	0.4	23.4	7.4	93.6	78	3.1	0.87	< 0.1	2	0.6	< 0.1	192	9.6	18.8	2.1	8.9	1.9	1.8	0.3	1.5	17.2
282586 Orig	61.6	10.9	3.8	24.8	9.1	113	43	1.2	1.42	< 0.1	< 1	0.2	< 0.1	214	3.5	8.1	1.4	6.3	1.7	2.1	0.3	1.8	102
282586 Dup	68.1	10.2	3.5	24.1	8.9	107	37	0.6	0.55	< 0.1	< 1	0.2	< 0.1	210	3.5	8.1	1.2	6.1	1.6	1.8	0.3	1.7	97.0
282591 Orig	78.0	10.8	12.0	31.2	11.8	215	125	3.8	0.93	< 0.1	< 1	1.4	0.1	474	25.8	53.3	6.7	27.3	5.4	5.0	0.5	2.5	61.1
282591 Dup	78.7	10.4	11.6	29.9	12.0	213	117	3.3	0.99	< 0.1	< 1	1.4	< 0.1	464	25.4	51.7	6.8	27.0	5.2	4.8	0.5	2.5	56.5
282610 Split Orig PREP DUP	68.9	6.6	47.2	25.6	5.1	105	34	0.3	0.16	< 0.1	< 1	0.2	< 0.1	411	1.8	4.3	0.7	3.6	1.2	1.3	0.2	1.0	122
282610 Split PREP DUP	61.0	6.4	43.1	24.9	4.6	93.8	28	0.6	0.16	< 0.1	< 1	0.3	< 0.1	396	1.8	4.3	0.6	3.4	1.0	1.0	0.2	1.0	112
282621 Orig	46.9	6.9	1.0	43.2	2.1	625	72	1.1	0.70	< 0.1	< 1	3.2	< 0.1	1220	9.1	18.6	2.4	9.4	1.6	1.1	0.1	0.5	4.1
282621 Dup	45.4	6.1	1.1	43.7	2.1	624	89	1.1	0.60	< 0.1	< 1	3.0	0.2	1250	9.3	19.2	2.4	9.9	1.7	0.9	0.1	0.5	8.2
282631 Orig	60.5	25.3	7.7	35.5	2.5	678	80	1.5	0.58	< 0.1	< 1	1.1	< 0.1	470	10.3	24.0	2.7	11.3	2.0	1.4	0.1	0.6	13.0
282631 Dup	62.1	24.4	7.5	32.2	2.5	609	81	1.5	1.46	< 0.1	< 1	1.1	< 0.1	424	9.6	23.8	2.6	10.5	1.9	1.3	0.1	0.5	10.6
282633 Orig	67.9	15.5	4.8	36.6	1.8	397	73	1.2	0.55	< 0.1	< 1	0.8	< 0.1	1070	5.1	11.8	1.4	5.7	1.2	0.8	0.1	0.4	7.3
282633 Dup	68.1	15.7	4.3	34.9	1.6	389	69	1.1	0.68	< 0.1	< 1	0.8	< 0.1	1060	5.1	12.1	1.3	5.7	1.2	0.8	0.1	0.4	6.4
282633 Orig																							
282633 Dup																							
282660 Orig	77.3	4.7	11.2	167	23.3	319	78	6.3	43.4	0.2	5	0.3	< 0.1	1020	29.2	61.6	7.1	28.6	5.5	5.2	0.7	4.5	2340
282660 Dup	71.8	5.6	12.7	175	22.3	323	83	5.0	73.9	0.3	5	0.5	< 0.1	972	29.5	63.0	7.2	28.7	5.5	5.2	0.7	4.3	2310
282661 Split Orig PREP DUP	105	16.5	< 0.1	1.1	14.4	117	6	0.1	0.15	< 0.1	< 1	0.1	< 0.1	16	3.8	7.6	1.1	6.0	1.8	2.7	0.5	3.1	337
282661 Split PREP DUP	106	17.1	< 0.1	1.2	15.0	121	8	0.1	0.53	< 0.1	< 1	0.1	< 0.1	16	3.9	7.9	1.1	6.2	1.8	2.9	0.5	3.1	324
282702 Orig	86.0	17.0	0.8	0.2	24.1	136	92	0.8	0.46	< 0.1	< 1	0.1	< 0.1	17	15.6	34.0	4.5	20.7	4.4	5.1	0.7	4.6	161
282702 Dup	95.8	17.6	0.4	0.2	23.9	139	58	0.1	0.21	< 0.1	< 1	< 0.1	< 0.1	16	15.6	34.8	4.5	20.8	4.5	4.2	0.7	4.6	155
282705 Split Orig PREP DUP	138	20.5	3.1	1.1	28.6	43.1	28	< 0.1	0.27	< 0.1	< 1	< 0.1	0.1	13	14.0	29.3	3.9	17.2	4.0	5.7	0.8	5.5	197
282705 Split PREP DUP	139	21.1	3.3	1.1	30.2	35.7	38	< 0.1	0.16	< 0.1	< 1	< 0.1	< 0.1	14	14.1	30.5	4.0	18.6	4.5	5.2	0.9	5.9	212
Method Blank	< 0.2	0.2	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.09	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.2
Method Blank																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
Method Blank																							
Method Blank	2.8	0.2	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.54	< 0.1	< 1	< 0.1	< 0.1	< 1	0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	2.1
Method Blank	3.1	0.2	0.5	< 0.2	< 0.1	0.5	1	< 0.1	0.25	< 0.1	< 1	< 0.1	0.1	< 1	0.1	0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.8
Method Blank	0.5	0.2	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.33	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Method Blank	0.4	0.3	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.25	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	2.4
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	1.1	0.2	0.6	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.06	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.3
Method Blank	0.5	0.2	0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.16	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.2

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas		0.4	2.4	0.3	< 0.1	139		0.40	802	1	2.7	35.5	0.0311	0.062	0.28
GXR-1 Cert		0.430	1.90	0.280	0.175	164		0.390	730	1.58	2.44	34.9	0.036	0.0650	0.257
GXR-1 Meas		0.3	2.1	0.3	< 0.1	117		0.38	753	2	2.4	31.2	0.0311	0.062	0.27
GXR-1 Cert		0.430	1.90	0.280	0.175	164		0.390	730	1.58	2.44	34.9	0.036	0.0650	0.257
GXR-1 Meas		0.4	2.2	0.3	< 0.1	127		0.43	766		2.5	31.8			
GXR-1 Cert		0.430	1.90	0.280	0.175	164		0.390	730		2.44	34.9			
GXR-1 Meas		0.4	2.1	0.3	< 0.1	144		0.42	797		2.3	27.7			
GXR-1 Cert		0.430	1.90	0.280	0.175	164		0.390	730		2.44	34.9			
DH-1a Meas											> 500	2470			
DH-1a Cert											910	2629			
DH-1a Meas											> 500	2210			
DH-1a Cert											910	2629			
DH-1a Meas											> 500	2660			
DH-1a Cert											910	2629			
GXR-4 Meas		0.2	1.0	0.1	0.5	32.7		3.04	45.6	8	19.0	5.5	0.290	0.129	1.76
GXR-4 Cert		0.210	1.60	0.170	0.790	30.8		3.20	52.0	7.70	22.5	6.20	0.29	0.120	1.77
GXR-4 Meas		0.2	1.0	0.1	0.5	33.2		3.12	49.2	8	18.7	5.2	0.290	0.131	1.78
GXR-4 Cert		0.210	1.60	0.170	0.790	30.8		3.20	52.0	7.70	22.5	6.20	0.29	0.120	1.77
GXR-4 Meas		0.2	1.0	0.1	0.4	33.9		3.07	47.8	7	17.9	5.2	0.290	0.127	1.75
GXR-4 Cert		0.210	1.60	0.170	0.790	30.8		3.20	52.0	7.70	22.5	6.20	0.29	0.120	1.77
GXR-4 Meas		0.2	1.0	0.1	0.6	39.7		2.76	42.1	8	16.9	5.1	0.289	0.123	1.90
GXR-4 Cert		0.210	1.60	0.170	0.790	30.8		3.20	52.0	7.70	22.5	6.20	0.29	0.120	1.77
SDC-1 Meas		0.5	3.2		0.2	0.1		0.59	22.6	15	10.8	2.6	0.309	0.055	
SDC-1 Cert		0.65	4.00		1.20	0.80		0.70	25.00	17.00	12.00	3.10	0.606	0.0690	
SDC-1 Meas		0.5	3.1		< 0.1	0.3		0.66	24.0	16	11.5	2.7	0.166	0.054	
SDC-1 Cert		0.65	4.00		1.20	0.80		0.70	25.00	17.00	12.00	3.10	0.606	0.0690	
SDC-1 Meas		0.5	3.1		0.2	1.1		0.64	23.3	15	10.2	2.4	0.215	0.055	
SDC-1 Cert		0.65	4.00		1.20	0.80		0.70	25.00	17.00	12.00	3.10	0.606	0.0690	
SDC-1 Meas		0.5	3.3		< 0.1	< 0.1		0.54	21.5	15	10.5	2.6	0.361	0.057	
SDC-1 Cert		0.65	4.00		1.20	0.80		0.70	25.00	17.00	12.00	3.10	0.606	0.0690	
GXR-6 Meas			1.7	0.3	0.3	1.3		2.06	90.2	26	5.0	1.5		0.034	0.02
GXR-6 Cert			2.40	0.330	0.485	1.90		2.20	101	27.6	5.30	1.54		0.0350	0.0160
GXR-6 Meas			1.6	0.2	< 0.1	0.6		2.14	99.1	26	4.5	1.3		0.035	< 0.01
GXR-6 Cert			2.40	0.330	0.485	1.90		2.20	101	27.6	5.30	1.54		0.0350	0.0160
GXR-6 Meas			1.5	0.2	< 0.1	1.4		2.06	95.2	28	4.8	1.3		0.035	0.01
GXR-6 Cert			2.40	0.330	0.485	1.90		2.20	101	27.6	5.30	1.54		0.0350	0.0160
GXR-6 Meas			1.5	0.3	0.1	0.7		1.96	84.5	25	3.7	1.2		0.035	0.02
GXR-6 Cert			2.40	0.330	0.485	1.90		2.20	101	27.6	5.30	1.54		0.0350	0.0160
DNC-1a Meas			2.0						5.8	33			0.288		
DNC-1a Cert			2.0						6.3	31			0.29		
DNC-1a Meas			1.8						5.8	31			0.287		
DNC-1a Cert			2.0						6.3	31			0.29		

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
DNC-1a Meas			1.9						5.7	34			0.335		
DNC-1a Cert			2.0						6.3	31			0.29		
DNC-1a Meas			1.9						5.5	31			0.318		
DNC-1a Cert			2.0						6.3	31			0.29		
SBC-1 Meas		0.5	3.4	0.5	0.9	1.4		0.86	33.9	21	15.0	5.7	0.500		
SBC-1 Cert		0.56	3.64	0.54	1.10	1.60		0.89	35.0	20.0	15.8	5.76	0.51		
SBC-1 Meas		0.6	3.4	0.5	0.9	2.8		0.88	40.8	22	14.9	5.5	0.452		
SBC-1 Cert		0.56	3.64	0.54	1.10	1.60		0.89	35.0	20.0	15.8	5.76	0.51		
SBC-1 Meas		0.5	3.3	0.5	0.7	1.5		0.86	35.2	20	15.2	5.6	0.565		
SBC-1 Cert		0.56	3.64	0.54	1.10	1.60		0.89	35.0	20.0	15.8	5.76	0.51		
SBC-1 Meas		0.6	3.5	0.5	0.6	1.6		0.81	31.6	19	13.9	5.3	0.542		
SBC-1 Cert		0.56	3.64	0.54	1.10	1.60		0.89	35.0	20.0	15.8	5.76	0.51		
OREAS 45d (4-Acid) Meas			1.5	0.2	0.3	0.5		0.22	20.2	53	13.8	2.8	0.424	0.036	0.04
OREAS 45d (4-Acid) Cert			1.33	0.18	1.02	1.62		0.27	21.8	49.30	14.5	2.63	0.773	0.042	0.049
OREAS 45d (4-Acid) Meas			1.5	0.2	< 0.1	0.2		0.20	19.7	55	12.9	2.5	0.143	0.034	0.04
OREAS 45d (4-Acid) Cert			1.33	0.18	1.02	1.62		0.27	21.8	49.30	14.5	2.63	0.773	0.042	0.049
OREAS 45d (4-Acid) Meas										45			0.265	0.037	0.05
OREAS 45d (4-Acid) Cert										49.30			0.773	0.042	0.049
OREAS 45d (4-Acid) Meas										52			0.245	0.035	0.04
OREAS 45d (4-Acid) Cert										49.30			0.773	0.042	0.049
SdAR-M2 (U.S.G.S.) Meas		0.4	2.8	0.4	0.6	1.1			769	4	13.4	2.4			
SdAR-M2 (U.S.G.S.) Cert		0.54	3.63	0.54	1.8	2.8			808	4.1	14.2	2.53			
SdAR-M2 (U.S.G.S.) Meas		0.5	2.7	0.4	0.3	0.3			798	4	13.8	2.4			
SdAR-M2 (U.S.G.S.) Cert		0.54	3.63	0.54	1.8	2.8			808	4.1	14.2	2.53			
SdAR-M2 (U.S.G.S.) Meas										3					
SdAR-M2 (U.S.G.S.) Cert										4.1					
SdAR-M2 (U.S.G.S.) Meas										4					
SdAR-M2 (U.S.G.S.) Cert										4.1					
282511 Orig	< 0.1	0.2	1.3	0.2	0.2	0.5	0.001	0.22	3.9	7	4.7	1.3	0.260	0.029	0.12
282511 Dup	< 0.1	0.2	1.3	0.2	0.2	0.4	0.001	0.19	3.9	7	4.6	1.2	0.286	0.028	0.12

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
282549 Orig	< 0.1	0.2	1.5	0.2	0.5	0.5	0.001	0.27	4.7	11	3.8	1.0	0.281	0.039	0.56
282549 Dup	< 0.1	0.2	1.5	0.2	0.5	0.4	0.001	0.28	4.7	9	3.9	1.0	0.301	0.040	0.65
282551 Orig	< 0.1	0.2	1.3	0.2	0.4	0.7	0.001	0.21	4.7	12	2.9	0.8	0.306	0.038	1.28
282551 Dup	< 0.1	0.2	1.4	0.2	0.4	0.4	0.002	0.22	4.9	13	3.0	0.8	0.293	0.040	1.36
282561 Split Orig PREP DUP	< 0.1	0.1	1.0	0.2	< 0.1	0.5	0.002	0.19	3.1	8	2.8	0.7	0.267	0.033	0.08
282561 Split PREP DUP	< 0.1	0.1	1.1	0.2	< 0.1	0.4	0.001	0.19	3.1	8	3.7	0.9	0.277	0.033	0.10
282567 Orig	0.3	0.2	0.9	0.2	0.2	0.4	< 0.001	0.10	2.8	9	1.7	0.5	0.272	0.037	0.05
282567 Dup	0.4	0.2	1.0	0.1	0.3	0.5	< 0.001	0.09	2.7	9	1.7	0.5	0.266	0.036	0.05
282586 Orig	0.2	0.2	1.3	0.2	< 0.1	0.1	0.003	0.15	1.2	32	0.4	0.3	0.369	0.027	0.11
282586 Dup	0.5	0.2	1.2	0.2	< 0.1	0.1	0.003	0.25	56.9	32	0.4	0.1	0.367	0.029	0.11
282591 Orig	< 0.1	0.2	1.3	0.2	0.1	0.8	0.002	0.23	5.2	14	4.5	1.2	0.415	0.096	0.48
282591 Dup	< 0.1	0.2	1.2	0.2	0.2	0.7	0.003	0.25	5.1	16	4.5	1.2	0.398	0.099	0.47
282610 Split Orig PREP DUP	0.6	0.1	0.8	0.1	< 0.1	< 0.1	0.002	0.33	1.4	37	0.2	0.1	0.316	0.016	0.08
282610 Split PREP DUP	0.6	0.1	0.8	0.1	< 0.1	0.1	0.002	0.29	1.3	36	0.2	0.1	0.319	0.017	0.08
282621 Orig	< 0.1	< 0.1	0.2	< 0.1	< 0.1	1.1	0.002	0.47	13.0	2	2.1	1.3	0.113	0.026	0.32
282621 Dup	< 0.1	< 0.1	0.2	< 0.1	< 0.1	1.2	0.002	0.45	12.8	2	2.1	1.3	0.111	0.024	0.31
282631 Orig	0.1	< 0.1	0.2	< 0.1	< 0.1	1.6	< 0.001	0.26	10.5	3	2.4	1.4	0.130	0.029	0.69
282631 Dup	0.2	< 0.1	0.2	< 0.1	< 0.1	1.7	< 0.001	0.27	10.0	3	2.3	1.1	0.128	0.028	0.66
282633 Orig	< 0.1	< 0.1	0.1	< 0.1	0.1	1.4	< 0.001	0.34	10.5	2	1.5	1.1	0.0976	0.024	0.27
282633 Dup	< 0.1	< 0.1	0.1	< 0.1	< 0.1	1.4	< 0.001	0.34	10.3	2	1.4	1.0	0.0970	0.023	0.27
282633 Orig										1			0.108	0.023	0.24
282633 Dup										2			0.112	0.028	0.28
282660 Orig	0.1	0.4	2.4	0.3	0.1	2.1	0.001	0.95	22.3	15	15.7	4.8	0.498	0.102	0.37
282660 Dup	0.2	0.4	2.3	0.3	0.1	1.9	0.001	0.94	22.2	14	18.4	5.5	0.522	0.100	0.36
282661 Split Orig PREP DUP	0.2	0.3	1.7	0.2	< 0.1	< 0.1	0.001	< 0.05	1.2	42	0.3	0.1	0.303	0.021	0.10
282661 Split PREP DUP	0.2	0.3	1.8	0.3	< 0.1	< 0.1	0.001	< 0.05	1.3	43	0.3	0.1	0.343	0.021	0.10
282702 Orig	< 0.1	0.4	2.3	0.3	< 0.1	< 0.1	0.002	< 0.05	3.4	28	2.1	0.6	0.551	0.104	0.11
282702 Dup	< 0.1	0.4	2.5	0.3	< 0.1	< 0.1	0.003	< 0.05	3.3	29	2.2	0.6	0.406	0.099	0.10
282705 Split Orig PREP DUP	< 0.1	0.5	3.2	0.5	< 0.1	< 0.1	0.004	< 0.05	11.3	37	1.7	0.4	0.279	0.077	0.28
282705 Split PREP DUP	< 0.1	0.5	3.3	0.5	< 0.1	< 0.1	0.004	< 0.05	11.7	39	1.8	0.4	0.309	0.082	0.30
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1	0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank										< 1			< 0.0005	< 0.001	< 0.01
Method Blank										< 1			< 0.0005	< 0.001	0.02
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	5.3	0.002	< 0.05	0.6	< 1	< 0.1	< 0.1	<	< 0.001	< 0.01

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
													0.0005		
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.4	0.001	< 0.05	< 0.5	< 1	0.1	0.2	< 0.0005	< 0.001	< 0.01
Method Blank	0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.4	0.001	< 0.05	0.6	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank	0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	0.0005	< 0.001	< 0.01
Method Blank										< 1			< 0.0005	< 0.001	< 0.01
Method Blank										< 1			< 0.0005	< 0.001	< 0.01
Method Blank										< 1			< 0.0005	< 0.001	< 0.01
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01

Quality Analysis ... *Innovative Technologies*

Date Submitted: 09-May-17
Invoice No.: A17-04541-8-4Acid
Invoice Date: 15-Jun-17
Your Reference: Trelawney Augen Acquisition Corp (622)- W

IAMGOLD Corporation, Cote Gold Division
3 Mesomikenda Lake Road
PO Box 100
Gogama ON P0M 1W0
Canada

ATTN: Alan Smith

CERTIFICATE OF ANALYSIS

195 Rock samples were submitted for analysis.

The following analytical package(s) were requested: Code UT-6 Total Digestion ICP & ICP/MS

REPORT **A17-04541-8-4Acid**

Notes:

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

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control

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

Date Submitted: 09-May-17
Invoice No.: A17-04541-8-4Acid
Invoice Date: 15-Jun-17
Your Reference: Trelawney Augen Acquisition Corp (622)- W

IAMGOLD Corporation, Cote Gold Division
3 Mesomikenda Lake Road
PO Box 100
Gogama ON P0M 1W0
Canada

ATTN: Alan Smith

CERTIFICATE OF ANALYSIS

195 Rock samples were submitted for analysis.

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

REPORT **A17-04541-8-4Acid**

Notes:

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

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
1752 Riverside Drive, Timmins, Ontario, Canada, P4R 1N1
TELEPHONE +705 264-0123 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Timmins@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Cu	Na
Unit Symbol	%	%
Lower Limit	0.001	0.01
Method Code	4Acid ICPOES	TD-ICP
282572		3.07
282621		3.55
282622		3.02
282630		4.44
282631		4.42
282633		3.91
282634		4.29
282635		4.25
282638		3.10
282639		3.42
282640		3.81
282684	1.06	
282696		2.94

Analyte Symbol	Cu	Na
Unit Symbol	%	%
Lower Limit	0.001	0.01
Method Code	4Acid ICPOES	TD-ICP
CCU-1C Meas	26.3	
CCU-1C Cert	25.6	
MP-1b Meas	2.99	
MP-1b Cert	3.07	
CZN-4 Meas	0.417	
CZN-4 Cert	0.403	
PTC-1b Meas	7.97	
PTC-1b Cert	7.97	
282696 Orig		2.85
282696 Dup		3.02
Method Blank	< 0.001	< 0.01

Quality Analysis ... *Innovative Technologies*

Date Submitted: 17-May-17
Invoice No.: A17-04917 (i)
Invoice Date: 16-Jun-17
Your Reference: Trelawney Augen Acquisition Corp (622)-W

IAMGOLD Corporation, Cote Gold Division
3 Mesomikenda Lake Road
PO Box 100
Gogama ON P0M 1W0
Canada

ATTN: Alan Smith

CERTIFICATE OF ANALYSIS

174 Rock samples were submitted for analysis.

The following analytical package(s) were requested: Code UT-6 Total Digestion ICP & ICP/MS

REPORT **A17-04917 (i)**

Notes:

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

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control

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

Date Submitted: 17-May-17
Invoice No.: A17-04917 (i)
Invoice Date: 16-Jun-17
Your Reference: Trelawney Augen Acquisition Corp (622)-W

IAMGOLD Corporation, Cote Gold Division
3 Mesomikenda Lake Road
PO Box 100
Gogama ON P0M 1W0
Canada

ATTN: Alan Smith

CERTIFICATE OF ANALYSIS

174 Rock samples were submitted for analysis.

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

REPORT **A17-04917 (i)**

Notes:

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

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control

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TELEPHONE +705 264-0123 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Timmins@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au	Au
Unit Symbol	ppm	g/tonne
Lower Limit	0.005	0.02
Method Code	FA-AA	FA-GRA
282706	< 0.005	
282707	< 0.005	
282708	< 0.005	
282709	< 0.005	
282710	< 0.005	
282711	< 0.005	
282712	> 5.000	8.81
282713	< 0.005	
282714	< 0.005	
282715	< 0.005	
282716	0.005	
282717	< 0.005	
282718	< 0.005	
282719	< 0.005	
282720	< 0.005	
282721	< 0.005	
282722	< 0.005	
282723	< 0.005	
282724	< 0.005	
282725	< 0.005	
282726	< 0.005	
282727	< 0.005	
282728	< 0.005	
282729	< 0.005	
282730	< 0.005	
282731	< 0.005	
282732	< 0.005	
282733	< 0.005	
282734	< 0.005	
282735	< 0.005	
282736	2.162	
282737	< 0.005	
282738	< 0.005	
282739	< 0.005	
282740	< 0.005	
282741	< 0.005	
282742	< 0.005	
282743	< 0.005	
282744	< 0.005	
282745	< 0.005	
282746	< 0.005	

Analyte Symbol	Au	Au
Unit Symbol	ppm	g/tonne
Lower Limit	0.005	0.02
Method Code	FA-AA	FA-GRA
282747	< 0.005	
282748	< 0.005	
282749	< 0.005	
282750	< 0.005	
282751	< 0.005	
282752	< 0.005	
282753	< 0.005	
282754	< 0.005	
282755	< 0.005	
282756	0.006	
282757	0.008	
282758	0.006	
282759	< 0.005	
282760	0.246	
282761	< 0.005	
282762	< 0.005	
282763	< 0.005	
282764	< 0.005	
282765	< 0.005	
282766	< 0.005	
282767	< 0.005	
282768	< 0.005	
282769	< 0.005	
282770	< 0.005	
282771	< 0.005	
282772	< 0.005	
282773	< 0.005	
282774	< 0.005	
282775	< 0.005	
282776	< 0.005	
282777	< 0.005	
282778	< 0.005	
282779	< 0.005	
282780	< 0.005	
282781	< 0.005	
282782	< 0.005	
282783	< 0.005	
282784	1.603	
282785	0.006	
282786	< 0.005	
282787	< 0.005	
282788	< 0.005	

Analyte Symbol	Au	Au
Unit Symbol	ppm	g/tonne
Lower Limit	0.005	0.02
Method Code	FA-AA	FA-GRA
282789	0.007	
282790	< 0.005	
282791	< 0.005	
282792	< 0.005	
282793	< 0.005	
282794	< 0.005	
282795	< 0.005	
282796	< 0.005	
282797	< 0.005	
282798	< 0.005	
282799	< 0.005	
282800	< 0.005	
282801	< 0.005	
282802	< 0.005	
282803	< 0.005	
282804	< 0.005	
282805	< 0.005	
282806	< 0.005	
282807	< 0.005	
282808	< 0.005	
282809	< 0.005	
282810	< 0.005	
282811	< 0.005	
282812	> 5.000	8.60
282813	< 0.005	
282814	< 0.005	
282815	< 0.005	
282816	< 0.005	
282817	< 0.005	
282818	< 0.005	
282819	< 0.005	
282820	0.012	
282821	0.022	
282822	0.007	
282823	0.010	
282824	< 0.005	
282825	0.006	
282826	< 0.005	
282827	< 0.005	
282828	< 0.005	
282829	< 0.005	

Analyte Symbol	Au	Au
Unit Symbol	ppm	g/tonne
Lower Limit	0.005	0.02
Method Code	FA-AA	FA-GRA
282830	< 0.005	
282831	< 0.005	
282832	< 0.005	
282833	< 0.005	
282834	< 0.005	
282835	< 0.005	
282836	2.151	
282837	< 0.005	
282838	< 0.005	
282839	< 0.005	
282840	< 0.005	
282841	< 0.005	
282842	< 0.005	
282843	< 0.005	
282844	< 0.005	
282845	0.005	
282846	< 0.005	
282847	< 0.005	
282848	< 0.005	
282849	< 0.005	
282850	< 0.005	
282851	0.005	
282852	0.104	
282853	< 0.005	
282854	0.018	
282855	< 0.005	
282856	< 0.005	
282857	< 0.005	
282858	< 0.005	
282859	0.018	
282860	0.247	
282861	0.021	
282862	0.275	
282863	< 0.005	
282864	0.024	
282865	< 0.005	
282866	0.065	
282867	< 0.005	
282868	< 0.005	
282869	< 0.005	
282870	< 0.005	
282871	< 0.005	

Analyte Symbol	Au	Au
Unit Symbol	ppm	g/tonne
Lower Limit	0.005	0.02
Method Code	FA-AA	FA-GRA
282872	< 0.005	
282873	< 0.005	
282874	< 0.005	
282875	0.005	
282876	< 0.005	
282877	< 0.005	
282878	< 0.005	
282879	< 0.005	

Analyte Symbol	Au	Au
Unit Symbol	ppm	g/tonne
Lower Limit	0.005	0.02
Method Code	FA-AA	FA-GRA
OxK110 Meas		3.63
OxK110 Cert		3.602
OXN117 Meas		7.88
OXN117 Cert		7.679
Oreas 203 Meas	0.852	
Oreas 203 Cert	0.871	
Oreas 203 Meas	0.852	
Oreas 203 Cert	0.871	
Oreas 203 Meas	0.884	
Oreas 203 Cert	0.871	
OREAS 203 Meas	0.843	
OREAS 203 Cert	0.871	
OREAS 203 Meas	0.921	
OREAS 203 Cert	0.871	
OREAS 203 Meas	0.865	
OREAS 203 Cert	0.871	
OREAS 223 (Fire Assay) Meas	1.802	
OREAS 223 (Fire Assay) Cert	1.78	
OREAS 223 (Fire Assay) Meas	1.790	
OREAS 223 (Fire Assay) Cert	1.78	
OREAS 223 (Fire Assay) Meas	1.725	
OREAS 223 (Fire Assay) Cert	1.78	
OREAS 223 (Fire Assay) Meas	1.779	
OREAS 223 (Fire Assay) Cert	1.78	
OREAS 223 (Fire Assay) Meas	1.769	
OREAS 223 (Fire Assay) Cert	1.78	
OREAS 223 (Fire Assay) Meas	1.797	
OREAS 223 (Fire Assay) Cert	1.78	
282715 Orig	< 0.005	
282715 Dup	< 0.005	
282725 Orig	< 0.005	
282725 Dup	< 0.005	

Analyte Symbol	Au	Au
Unit Symbol	ppm	g/tonne
Lower Limit	0.005	0.02
Method Code	FA-AA	FA-GRA
282735 Orig	< 0.005	
282735 Dup	< 0.005	
282750 Orig	< 0.005	
282750 Dup	< 0.005	
282755 Split Orig PREP DUP	< 0.005	
282755 Split PREP DUP	< 0.005	
282764 Orig	< 0.005	
282764 Dup	< 0.005	
282769 Orig	< 0.005	
282769 Dup	< 0.005	
282787 Orig	< 0.005	
282787 Dup	< 0.005	
282795 Orig	< 0.005	
282795 Dup	< 0.005	
282799 Orig	< 0.005	
282799 Dup	< 0.005	
282805 Split Orig PREP DUP	< 0.005	
282805 Split PREP DUP	< 0.005	
282815 Orig	< 0.005	
282815 Dup	< 0.005	
282826 Orig	< 0.005	
282826 Dup	< 0.005	
282838 Orig	< 0.005	
282838 Dup	< 0.005	
282853 Orig	< 0.005	
282853 Dup	< 0.005	
282855 Split Orig PREP DUP	< 0.005	
282855 Split PREP DUP	< 0.005	
282862 Orig	0.270	
282862 Dup	0.279	
282872 Orig	< 0.005	
282872 Dup	< 0.005	
282879 Split Orig PREP DUP	< 0.005	
282879 Split PREP DUP	< 0.005	
Method Blank	< 0.005	

Analyte Symbol	Au	Au
Unit Symbol	ppm	g/tonne
Lower Limit	0.005	0.02
Method Code	FA-AA	FA-GRA
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank		< 0.02

Quality Analysis ... *Innovative Technologies*

Date Submitted: 17-May-17
Invoice No.: A17-04917-TD+Assay
Invoice Date: 16-Jun-17
Your Reference: 622-Watershed

IAMGOLD Corporation, Cote Gold Division
3 Mesomikenda Lake Road
PO Box 100
Gogama ON P0M 1W0
Canada

ATTN: Alan Smith

CERTIFICATE OF ANALYSIS

174 Rock samples were submitted for analysis.

The following analytical package(s) were requested: Code UT-6 Total Digestion ICP & ICP/MS

REPORT **A17-04917-TD+Assay**

Notes:

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
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TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
282706	27.1	1.80	2.96	7.19	0.42	7.20	< 0.1	227	212	1400	7.44	0.8	100	94.0	1.8	0.3	0.6	< 0.05	0.36	46.3	0.56	< 0.02	< 0.1
282707	33.0	0.78	2.81	6.06	0.84	7.21	< 0.1	240	226	1330	8.03	1.1	150	92.4	1.3	0.5	0.4	< 0.05	0.65	45.5	0.33	0.02	< 0.1
282708	36.0	0.69	2.92	4.61	0.62	7.43	0.1	245	204	1570	8.59	1.2	290	81.4	0.8	0.2	0.2	< 0.05	0.35	41.6	0.18	0.05	< 0.1
282709	38.8	0.87	3.08	5.77	0.35	9.12	< 0.1	225	108	1630	7.55	1.2	320	74.1	1.0	4.3	0.3	< 0.05	0.52	41.6	0.38	0.04	< 0.1
282710	36.6	1.78	3.17	6.60	0.06	8.12	< 0.1	242	115	1480	7.14	1.2	300	71.3	1.1	0.1	0.3	< 0.05	0.08	44.3	0.40	0.02	< 0.1
282711	37.6	0.51	2.92	3.83	0.48	7.33	< 0.1	244	112	1430	8.41	1.2	130	81.8	1.0	0.2	0.3	< 0.05	0.33	47.2	0.25	0.02	< 0.1
282712	40.7	0.31	0.60	3.90	1.77	8.81	0.4	67	20.6	805	2.00	1.0	170	6.9	0.7	0.8	0.2	7.61	4.93	8.0	0.43	0.11	< 0.1
282713	38.1	0.54	2.67	4.39	0.74	6.65	< 0.1	275	128	1360	8.23	1.3	230	88.4	1.2	0.3	0.4	< 0.05	0.50	47.5	0.40	0.02	< 0.1
282714	36.2	1.19	2.24	5.22	0.61	6.61	< 0.1	252	117	1470	7.50	1.2	120	74.4	1.0	0.3	0.3	< 0.05	0.41	42.2	0.35	0.02	< 0.1
282715	30.1	1.22	2.60	6.93	0.43	8.05	< 0.1	218	105	1620	7.60	1.1	90	74.4	1.0	0.2	0.3	< 0.05	0.35	42.8	0.53	0.02	< 0.1
282716	28.1	1.82	3.64	7.53	0.11	6.54	< 0.1	199	79.4	1420	7.65	1.1	60	79.0	1.0	0.3	0.3	< 0.05	0.18	45.4	0.42	0.02	< 0.1
282717	20.5	1.79	3.43	6.68	0.02	7.73	< 0.1	223	85.7	1320	7.11	1.0	180	77.3	1.6	0.3	0.5	< 0.05	0.10	44.1	0.74	0.02	< 0.1
282718	34.3	0.86	3.25	6.20	0.46	7.72	< 0.1	234	110	1260	7.61	1.2	120	78.1	0.8	0.2	0.3	< 0.05	0.41	49.0	0.38	0.03	< 0.1
282719	50.2	0.47	2.80	6.28	0.66	9.46	< 0.1	214	103	1570	7.22	1.2	200	74.3	1.3	0.3	0.4	< 0.05	1.46	42.1	0.48	0.02	< 0.1
282720	10.1	2.04	2.98	6.90	0.43	5.47	< 0.1	207	57.1	1720	10.0	2.5	150	43.8	3.7	0.7	1.2	0.08	1.39	47.0	1.22	0.04	< 0.1
282721	13.8	1.83	3.07	6.87	0.20	10.0	< 0.1	192	256	1540	6.03	0.4	100	133	1.4	0.2	0.4	< 0.05	0.14	44.0	0.49	< 0.02	< 0.1
282722	17.6	1.56	3.12	6.45	0.64	8.51	< 0.1	209	272	1380	6.64	0.6	60	145	1.1	0.1	0.3	< 0.05	0.28	49.1	0.34	< 0.02	< 0.1
282723	21.9	0.29	3.32	6.96	0.90	9.82	< 0.1	196	255	1450	6.31	0.9	40	136	0.7	0.1	0.2	< 0.05	0.52	44.3	0.32	< 0.02	< 0.1
282724	21.0	> 3.00	1.83	9.03	1.89	4.72	< 0.1	98	23.3	989	5.88	2.5	20	15.4	3.7	3.2	1.2	< 0.05	1.25	21.6	1.30	0.03	< 0.1
282725	21.6	0.54	2.91	3.64	0.35	9.93	< 0.1	199	262	1330	6.37	0.7	50	142	0.5	0.2	0.1	< 0.05	0.11	45.6	0.23	< 0.02	< 0.1
282726	20.7	0.70	2.76	7.40	0.63	9.43	< 0.1	198	260	1400	6.38	0.9	110	138	0.6	0.1	0.2	< 0.05	0.34	45.2	0.39	< 0.02	< 0.1
282727	17.9	0.58	2.77	6.26	0.59	10.7	< 0.1	176	209	1640	6.14	0.8	80	129	0.7	0.2	0.2	< 0.05	0.35	41.3	0.41	0.02	< 0.1
282728	27.3	0.37	3.51	6.85	0.59	8.12	< 0.1	197	162	1400	6.71	0.9	60	114	0.6	0.2	0.2	< 0.05	0.34	44.5	0.39	< 0.02	< 0.1
282729	21.7	0.23	3.78	4.71	0.28	9.21	0.1	156	64.5	2370	6.46	0.8	160	60.4	0.5	0.3	0.2	< 0.05	0.22	31.4	0.45	0.02	< 0.1
282730	30.9	0.27	3.63	7.37	0.44	5.71	< 0.1	221	96.4	1300	8.08	1.2	100	80.2	0.7	0.3	0.2	< 0.05	0.26	47.4	0.44	0.03	< 0.1
282731	26.0	0.28	3.27	6.91	0.55	6.58	< 0.1	207	112	1480	7.81	1.1	50	86.8	0.7	0.2	0.2	< 0.05	0.31	47.1	0.40	< 0.02	< 0.1
282732	18.4	0.53	4.11	5.96	0.50	10.6	< 0.1	171	132	2010	7.43	0.9	100	69.7	0.7	0.2	0.2	< 0.05	0.35	42.1	0.56	< 0.02	< 0.1
282733	16.9	0.71	3.10	7.07	0.75	5.86	< 0.1	171	91.9	1280	7.17	0.9	100	78.5	0.7	0.3	0.2	< 0.05	0.44	42.7	0.45	0.02	< 0.1
282734	15.7	0.31	3.16	6.43	0.97	8.29	0.1	220	89.2	1490	8.03	1.1	120	75.1	0.8	0.2	0.2	< 0.05	0.51	43.1	0.43	< 0.02	< 0.1
282735	13.5	1.24	3.38	4.27	0.26	5.86	< 0.1	250	112	1300	7.93	1.0	60	80.3	1.1	0.2	0.3	< 0.05	0.09	45.6	0.34	< 0.02	< 0.1
282736	7.8	1.71	3.23	6.05	0.63	5.00	0.1	143	266	3850	10.8	2.7	40	121	2.3	1.0	0.8	0.20	3.58	37.0	1.37	0.12	1.0
282737	12.4	1.42	3.74	7.34	0.40	7.45	0.2	174	93.4	1650	8.12	0.7	40	87.5	1.8	0.3	0.6	< 0.05	0.35	49.1	0.55	0.03	< 0.1
282738	12.2	1.32	3.31	6.31	0.26	7.83	0.1	153	82.1	1480	6.87	0.7	40	71.0	1.6	0.2	0.5	< 0.05	0.24	41.0	0.46	< 0.02	< 0.1
282739	10.8	2.07	3.82	7.53	0.05	7.25	0.2	166	81.6	1620	8.14	0.3	80	84.0	2.1	0.2	0.6	< 0.05	0.10	50.0	0.64	< 0.02	< 0.1
282740	10.0	1.72	2.80	6.38	0.03	9.74	0.1	157	70.6	1570	6.78	0.1	50	70.0	1.8	0.2	0.6	< 0.05	0.09	41.0	0.74	< 0.02	< 0.1
282741	12.9	1.78	3.32	6.87	0.02	8.03	0.1	153	78.3	1540	7.44	0.2	40	75.0	1.9	0.2	0.6	< 0.05	0.12	44.7	0.57	0.02	< 0.1
282742	15.1	1.89	3.06	6.84	0.06	7.93	0.1	138	78.1	1550	7.41	0.3	70	81.5	1.9	0.3	0.6	< 0.05	0.10	48.2	0.60	< 0.02	< 0.1
282743	20.4	1.52	3.20	6.59	0.26	7.87	< 0.1	194	85.7	1600	7.40	0.9	50	77.3	1.6	0.2	0.5	< 0.05	0.19	45.2	0.48	0.02	< 0.1
282744	21.6	1.42	3.24	6.89	0.32	7.30	< 0.1	168	79.4	1460	7.73	0.6	50	80.4	1.6	0.2	0.5	< 0.05	0.18	47.0	0.53	< 0.02	< 0.1
282745	16.9	0.64	2.88	6.83	1.10	8.71	< 0.1	203	101	1450	7.44	1.0	40	79.3	1.6	0.5	0.5	< 0.05	0.45	46.3	0.57	< 0.02	< 0.1
282746	16.8	0.39	2.76	6.89	1.30	8.54	< 0.1	142	138	1490	7.16	0.6	70	80.5	1.5	0.2	0.5	< 0.05	0.53	52.3	0.47	0.02	< 0.1
282747	26.5	1.60	4.25	7.70	0.07	7.01	0.2	167	157	1230	8.04	0.6	60	111	1.7	0.2	0.6	< 0.05	0.10	50.3	0.59	< 0.02	< 0.1

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
282748	22.9	> 3.00	1.83	9.50	1.87	4.89	0.1	77	19.7	947	5.90	2.4	10	14.9	3.9	3.3	1.3	< 0.05	1.32	22.1	1.39	0.03	< 0.1
282749	10.1	1.50	4.19	8.52	0.06	7.94	0.1	204	152	1410	9.04	0.4	30	127	2.0	0.3	0.6	< 0.05	0.10	56.0	0.61	< 0.02	< 0.1
282750	18.4	1.24	3.46	6.82	0.07	9.89	0.1	167	133	1230	7.52	0.2	40	102	1.6	0.1	0.5	< 0.05	0.14	46.7	0.51	0.02	< 0.1
282751	12.9	1.61	4.98	8.24	0.09	6.71	< 0.1	253	152	1490	9.38	0.6	20	124	2.0	0.2	0.6	< 0.05	0.11	57.9	0.63	< 0.02	< 0.1
282752	18.2	1.74	4.14	7.45	0.06	7.45	0.2	161	140	1350	7.90	0.5	20	109	1.8	0.3	0.6	< 0.05	0.14	47.8	0.59	0.02	< 0.1
282753	18.1	1.91	3.78	6.32	0.14	6.95	0.5	227	279	1390	7.40	1.6	40	101	1.4	0.7	0.5	< 0.05	0.37	45.9	0.68	0.05	< 0.1
282754	21.7	1.77	3.76	6.56	0.20	6.73	0.1	202	323	1240	6.92	1.9	100	108	1.5	0.8	0.5	< 0.05	0.60	43.0	0.76	0.07	< 0.1
282755	23.7	1.38	3.50	6.43	0.49	7.23	0.1	170	256	1060	6.57	1.6	50	97.3	1.8	0.9	0.6	< 0.05	0.65	40.9	1.01	0.08	< 0.1
282756	19.1	0.59	3.70	7.01	1.32	6.63	0.1	132	187	1260	7.10	0.8	80	105	1.5	0.7	0.5	< 0.05	0.62	45.6	0.76	0.07	< 0.1
282757	19.5	0.41	3.74	7.35	1.44	7.29	0.2	170	191	1340	7.58	1.2	50	114	1.4	0.6	0.4	< 0.05	0.49	47.9	0.72	0.03	< 0.1
282758	16.3	0.89	3.86	6.60	1.38	6.95	0.2	206	192	1420	7.02	1.6	40	99.6	1.4	0.8	0.4	< 0.05	0.56	43.6	0.83	0.05	< 0.1
282759	14.6	1.21	3.91	6.73	1.66	6.56	0.3	206	223	1340	6.83	2.0	< 10	101	1.2	1.0	0.4	< 0.05	0.91	43.5	0.95	0.07	< 0.1
282760	30.5	2.35	1.59	7.97	3.33	2.86	0.1	108	110	582	4.59	2.3	40	44.0	2.4	3.1	0.8	0.60	10.9	17.4	1.05	1.53	1.5
282761	18.5	0.59	4.02	7.17	2.03	5.75	0.1	244	252	1130	6.79	2.3	40	93.4	1.4	1.3	0.4	< 0.05	1.05	38.1	1.01	0.02	< 0.1
282762	18.1	0.75	3.95	5.19	1.74	6.01	0.2	232	380	1350	7.31	2.3	130	95.8	1.2	1.2	0.4	< 0.05	0.86	43.5	0.77	0.04	< 0.1
282763	15.7	1.61	3.45	6.71	0.78	6.56	0.2	172	222	1630	8.22	2.0	110	67.7	1.8	1.0	0.6	0.25	0.50	45.6	1.19	0.06	< 0.1
282764	11.2	0.43	2.52	6.07	1.14	7.02	0.1	126	72.4	1980	8.72	1.2	60	48.1	1.5	0.6	0.4	< 0.05	0.35	45.5	0.92	0.04	< 0.1
282765	9.5	0.04	2.65	5.75	1.09	6.54	0.1	137	67.0	1970	9.61	1.3	80	47.8	1.4	0.6	0.4	< 0.05	0.35	46.5	0.90	0.03	< 0.1
282766	11.0	0.35	2.33	6.60	1.42	5.67	0.2	109	66.7	1450	8.60	1.6	50	52.6	1.6	0.8	0.5	< 0.05	0.40	45.9	0.85	0.02	< 0.1
282767	12.2	1.36	2.72	6.25	0.54	6.77	0.2	108	69.0	1730	8.64	1.1	30	53.8	1.8	0.5	0.5	< 0.05	0.21	44.7	1.00	0.03	< 0.1
282768	12.3	2.16	2.99	7.10	0.09	6.58	0.2	181	117	1590	8.66	0.9	30	80.0	1.9	0.4	0.6	< 0.05	0.15	48.8	0.65	0.03	< 0.1
282769	14.1	1.96	3.61	6.63	0.03	6.59	0.3	251	114	1400	8.97	0.7	60	83.0	2.4	0.5	0.8	< 0.05	0.20	48.3	0.87	0.02	< 0.1
282770	13.1	1.92	3.60	6.80	0.05	6.60	0.1	270	120	1450	9.00	0.6	20	85.0	2.4	0.3	0.8	< 0.05	0.30	49.9	0.74	0.02	< 0.1
282771	10.0	1.77	3.99	7.37	0.10	6.14	< 0.1	227	116	1500	9.53	0.6	40	85.7	2.7	0.4	0.8	< 0.05	0.13	51.0	0.84	0.02	< 0.1
282772	21.0	> 3.00	1.80	9.59	1.81	4.77	0.1	77	21.5	928	5.89	1.8	10	14.4	3.9	3.2	1.3	< 0.05	1.27	21.7	1.51	0.05	< 0.1
282773	9.8	1.59	3.97	6.03	0.05	6.65	< 0.1	300	172	1560	9.67	0.6	50	85.4	2.4	0.5	0.7	< 0.05	0.05	52.9	0.71	< 0.02	< 0.1
282774	10.1	1.40	2.46	6.24	0.11	6.96	0.4	219	77.8	1850	9.16	0.3	130	46.9	3.2	0.4	1.0	< 0.05	0.14	46.9	0.98	0.03	< 0.1
282775	12.7	1.74	3.24	7.26	0.08	6.68	< 0.1	155	107	1600	9.06	0.4	40	84.2	2.8	0.4	0.9	< 0.05	0.15	53.4	0.82	0.02	< 0.1
282776	14.0	1.90	3.21	6.66	0.06	6.58	0.2	157	91.5	1340	8.72	0.5	40	64.9	2.6	0.3	0.8	< 0.05	0.19	44.5	0.70	< 0.02	< 0.1
282777	15.4	2.10	3.32	7.15	0.06	6.13	0.2	111	82.1	1300	8.80	0.1	30	85.5	2.5	0.3	0.8	< 0.05	0.19	48.3	0.76	0.02	< 0.1
282778	20.5	1.57	4.05	7.55	0.12	5.75	< 0.1	129	116	1400	8.89	0.2	70	117	2.3	0.3	0.7	< 0.05	0.19	56.4	0.66	0.02	< 0.1
282779	17.9	0.95	3.94	7.73	0.12	7.12	< 0.1	188	95.3	1490	8.98	0.4	40	107	2.5	0.4	0.8	< 0.05	0.14	52.5	0.74	0.02	< 0.1
282780	20.4	1.21	4.04	7.08	0.13	6.48	< 0.1	218	149	1270	7.67	0.4	20	116	1.9	0.4	0.6	< 0.05	0.13	45.3	0.53	< 0.02	< 0.1
282781	15.1	1.45	4.80	7.76	0.10	6.88	< 0.1	239	160	1390	8.35	0.4	< 10	160	2.0	0.2	0.6	< 0.05	0.09	54.1	0.55	0.02	< 0.1
282782	20.0	2.22	3.54	7.62	0.29	6.50	0.1	151	198	1590	7.46	0.2	120	125	2.1	0.3	0.6	< 0.05	0.53	53.8	0.66	0.02	< 0.1
282783	24.5	1.55	4.92	5.34	0.18	6.00	0.4	91	528	1740	7.73	1.2	110	269	1.8	0.9	0.6	< 0.05	0.90	57.6	1.47	0.02	< 0.1
282784	21.6	2.12	1.69	6.73	2.45	2.70	0.1	152	76.7	534	7.10	2.0	60	36.2	1.7	1.7	0.6	2.73	4.72	21.6	0.74	5.04	11.0
282785	36.6	1.77	2.44	6.56	0.33	6.65	< 0.1	205	158	1260	7.28	1.1	60	104	1.7	0.3	0.5	< 0.05	0.51	48.0	0.60	0.05	< 0.1
282786	27.0	1.16	1.83	5.31	0.49	11.6	< 0.1	146	119	1400	4.28	0.7	30	109	1.4	0.4	0.4	< 0.05	0.67	35.0	0.34	0.04	< 0.1
282787	42.4	1.48	2.75	7.51	0.70	5.93	< 0.1	194	203	1290	6.35	1.1	20	128	1.6	0.4	0.5	< 0.05	0.94	53.2	0.32	0.02	< 0.1
282788	37.4	1.65	2.44	8.02	1.18	5.12	0.7	100	192	1100	4.92	0.8	60	135	1.6	0.5	0.5	< 0.05	1.37	57.5	0.40	< 0.02	< 0.1
282789	32.9	1.71	2.03	6.47	0.86	8.33	1.4	227	201	1520	6.65	1.2	40	114	1.9	0.4	0.6	0.16	0.99	49.6	0.99	0.06	< 0.1

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
282790	35.4	1.14	2.15	5.80	0.81	8.18	< 0.1	217	258	1590	7.12	0.9	80	137	1.2	0.3	0.4	< 0.05	0.77	50.2	0.27	0.02	< 0.1
282791	38.1	1.22	2.39	6.80	0.64	7.42	0.2	219	188	1470	6.42	1.1	70	131	1.5	0.4	0.5	< 0.05	0.69	46.2	0.43	0.06	< 0.1
282792	36.7	1.51	2.30	7.15	0.69	6.34	0.2	239	223	1330	6.36	1.2	40	143	1.3	0.3	0.4	< 0.05	0.81	55.1	0.50	0.04	< 0.1
282793	39.2	0.89	2.52	7.41	0.55	6.55	< 0.1	128	160	1300	6.10	0.6	40	124	1.3	0.3	0.4	< 0.05	0.67	47.8	0.44	0.02	< 0.1
282794	36.5	1.01	2.33	7.13	0.49	6.79	0.1	194	174	1490	6.32	0.9	20	142	1.4	0.3	0.4	< 0.05	0.73	44.1	0.52	0.03	< 0.1
282795	21.6	0.65	1.31	6.39	1.26	7.07	0.5	188	161	1400	6.96	1.3	20	136	1.2	0.5	0.4	0.07	1.53	39.7	0.56	0.14	0.3
282796	20.5	> 3.00	1.71	8.50	1.74	4.51	0.1	85	27.0	891	5.80	2.6	10	16.2	3.5	3.0	1.1	< 0.05	1.23	21.4	1.30	0.03	< 0.1
282797	34.1	1.06	2.42	7.28	0.66	6.91	0.3	238	239	1890	8.23	1.0	< 10	145	1.3	0.3	0.4	< 0.05	0.69	50.8	0.50	0.04	< 0.1
282798	29.6	1.60	1.88	7.19	0.64	6.15	0.2	234	199	1810	7.08	1.0	< 10	142	1.3	0.3	0.4	< 0.05	0.61	53.0	0.47	0.03	< 0.1
282799	27.9	1.40	1.60	6.82	0.89	6.18	0.1	224	211	1220	5.73	1.3	40	128	1.6	0.4	0.5	< 0.05	1.05	55.7	0.51	0.07	< 0.1
282800	31.4	2.73	2.16	8.12	0.75	5.41	0.2	177	194	1250	5.82	1.1	30	132	1.8	0.5	0.6	0.15	1.13	57.4	1.12	0.04	< 0.1
282801	12.4	1.91	2.93	5.91	0.27	5.75	0.2	393	41.6	2290	10.8	3.5	70	50.2	4.0	0.8	1.2	< 0.05	1.15	54.9	1.52	0.04	< 0.1
282802	8.8	1.96	3.04	6.27	0.24	5.53	0.2	206	36.5	2280	11.4	1.7	40	45.6	4.0	0.9	1.2	< 0.05	1.05	53.2	1.30	0.05	< 0.1
282803	28.4	2.01	2.04	7.47	0.64	6.21	0.2	160	194	2150	7.08	0.6	40	139	1.9	0.4	0.6	< 0.05	1.31	49.8	0.70	0.03	< 0.1
282804	27.2	1.94	1.60	6.82	0.79	6.14	< 0.1	223	177	1210	6.65	1.2	30	146	1.8	0.4	0.5	< 0.05	1.37	49.3	0.48	0.06	< 0.1
282805	30.9	2.29	2.27	7.63	0.62	5.40	0.3	162	193	1510	6.25	0.4	30	146	1.8	0.3	0.5	0.05	0.46	55.1	0.56	0.02	< 0.1
282806	26.8	1.62	2.14	7.45	0.51	6.63	0.2	223	215	3010	8.26	0.3	< 10	140	2.0	0.3	0.6	0.05	0.32	52.3	0.63	0.02	< 0.1
282807	18.0	0.92	1.58	5.96	0.61	9.03	1.2	196	172	2560	6.38	0.2	60	111	1.5	0.2	0.5	0.16	0.45	36.7	0.52	< 0.02	< 0.1
282808	21.8	1.95	1.87	7.67	0.63	6.85	0.3	226	202	2810	7.40	0.3	40	146	1.9	0.4	0.6	0.07	0.45	50.6	0.64	0.03	< 0.1
282809	21.6	1.89	2.05	7.66	0.51	6.21	0.2	211	220	2620	8.09	0.3	30	147	2.0	0.3	0.6	0.18	0.43	51.9	0.65	0.02	< 0.1
282810	23.3	2.03	2.58	7.50	0.24	7.43	0.5	140	185	2200	7.36	0.1	20	137	2.0	0.3	0.6	< 0.05	0.21	48.0	0.63	0.02	< 0.1
282811	25.4	1.34	2.78	5.75	0.33	7.39	< 0.1	247	281	1970	7.53	0.3	40	159	1.9	0.3	0.6	0.07	0.19	56.8	0.57	0.03	< 0.1
282812	39.4	0.29	0.56	3.52	1.73	8.46	0.3	66	21.9	710	1.99	1.1	180	6.6	0.7	0.8	0.2	7.55	4.87	7.8	0.43	0.11	< 0.1
282813	28.4	1.52	2.95	7.10	0.42	7.84	< 0.1	157	197	1890	6.92	0.2	20	140	1.8	0.3	0.6	0.05	0.25	48.4	0.60	0.02	< 0.1
282814	20.5	2.05	1.96	7.44	0.43	7.22	0.3	152	176	2090	7.04	0.2	30	139	2.0	0.8	0.6	0.09	0.38	47.6	0.63	0.03	< 0.1
282815	19.9	2.50	1.86	7.53	0.35	7.06	0.6	124	170	2100	6.73	0.2	10	143	2.0	0.3	0.6	0.16	0.30	50.5	0.63	0.02	< 0.1
282816	19.5	2.69	1.77	7.51	0.37	7.63	0.2	132	178	2150	6.25	0.1	40	138	1.9	0.4	0.6	< 0.05	0.31	52.4	0.63	0.03	< 0.1
282817	24.0	1.66	2.50	7.89	0.79	6.53	0.2	206	229	2230	7.26	0.5	30	143	2.1	0.4	0.6	0.10	0.85	56.3	0.63	0.02	< 0.1
282818	22.0	2.29	2.05	7.87	0.49	6.08	0.3	230	208	2370	7.94	0.5	10	143	2.1	0.3	0.7	< 0.05	0.60	52.0	0.59	0.02	< 0.1
282819	21.4	2.81	1.73	7.50	0.39	6.86	< 0.1	142	175	2210	6.66	0.2	20	141	2.0	0.3	0.6	< 0.05	0.58	50.4	0.50	0.02	< 0.1
282820	22.2	1.75	1.69	7.43	1.02	6.59	< 0.1	201	197	1610	6.32	1.2	30	125	1.2	0.4	0.4	< 0.05	1.41	45.7	0.42	0.05	< 0.1
282821	3.9	> 3.00	0.25	5.77	1.43	2.36	< 0.1	30	9.6	327	1.49	1.7	10	4.1	0.2	1.0	0.1	< 0.05	1.75	5.6	0.30	0.15	< 0.1
282822	3.4	> 3.00	0.26	6.07	1.06	3.54	< 0.1	27	16.5	457	1.15	1.4	20	3.5	0.2	0.8	0.1	< 0.05	1.25	3.7	0.42	0.08	< 0.1
282823	18.8	2.43	1.57	7.57	1.04	6.16	< 0.1	141	127	1220	4.69	1.2	50	91.3	0.8	0.5	0.3	< 0.05	1.45	31.2	0.49	0.15	< 0.1
282824	20.3	> 3.00	1.83	9.40	1.88	4.71	< 0.1	77	26.6	1040	6.36	2.0	20	15.5	4.1	3.0	1.4	< 0.05	1.15	22.7	1.62	0.03	< 0.1
282825	32.2	1.27	2.62	7.42	0.75	8.19	< 0.1	217	201	1940	7.02	0.8	10	145	1.0	0.3	0.3	0.06	1.20	48.1	0.41	0.03	< 0.1
282826	27.3	1.49	2.03	7.09	0.61	6.56	0.6	146	147	1420	7.14	0.9	60	104	1.1	0.4	0.3	0.06	0.99	43.3	0.54	0.02	< 0.1
282827	29.4	1.56	1.89	7.17	0.58	8.55	0.1	182	135	1510	8.15	1.1	40	85.6	1.8	0.3	0.6	< 0.05	0.93	44.9	0.62	0.02	< 0.1
282828	28.7	1.74	1.68	6.52	0.62	8.27	0.3	257	149	1620	7.57	1.6	30	89.8	2.0	0.4	0.6	< 0.05	0.98	46.8	0.63	< 0.02	< 0.1
282829	30.7	1.61	1.73	6.70	0.60	8.21	0.1	195	111	1430	7.82	1.5	30	80.8	1.9	0.4	0.6	< 0.05	1.10	41.3	0.63	0.05	< 0.1
282830	25.2	1.41	2.64	5.99	0.05	6.14	0.3	143	33.2	1720	10.0	0.7	40	45.9	3.6	0.6	1.1	< 0.05	0.45	44.1	1.31	0.03	< 0.1
282831	22.0	1.65	2.66	6.03	0.05	5.52	< 0.1	161	28.2	1620	9.86	0.5	30	43.5	3.7	0.6	1.2	0.06	0.48	49.9	1.20	0.03	< 0.1

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
282832	33.1	1.63	3.21	7.22	0.33	5.16	0.2	174	138	1150	8.11	0.7	40	92.5	1.7	0.4	0.5	< 0.05	0.52	47.5	0.58	0.05	< 0.1
282833	22.3	0.66	2.34	5.95	0.56	6.77	1.3	195	135	1440	7.83	0.8	110	103	1.8	0.4	0.5	0.09	0.69	50.5	0.68	0.08	< 0.1
282834	22.8	0.36	3.68	6.00	0.07	6.20	< 0.1	196	248	1640	7.49	0.6	40	96.2	2.0	0.6	0.6	< 0.05	0.32	42.0	0.64	0.02	< 0.1
282835	12.4	1.55	4.29	6.78	0.01	6.12	< 0.1	220	344	1450	7.55	0.7	20	177	2.4	0.2	0.7	< 0.05	0.13	56.4	0.63	< 0.02	< 0.1
282836	8.6	1.58	3.16	5.81	0.59	4.74	0.2	128	143	3710	10.8	2.4	< 10	122	2.2	1.0	0.8	0.17	3.61	35.5	1.39	0.11	0.5
282837	20.9	1.15	5.85	7.78	0.01	5.84	< 0.1	199	326	1600	8.65	0.5	10	134	2.5	0.3	0.8	< 0.05	0.23	55.3	0.76	< 0.02	< 0.1
282838	5.8	0.13	0.98	1.92	0.11	2.58	< 0.1	58	137	1260	1.93	0.2	50	37.1	0.4	2.3	0.1	< 0.05	0.26	9.6	0.12	< 0.02	< 0.1
282839	16.7	0.16	2.56	4.94	0.13	4.52	< 0.1	162	279	1280	5.14	0.4	30	85.0	1.3	0.7	0.4	< 0.05	0.46	29.1	0.42	0.02	< 0.1
282840	20.9	0.57	2.89	6.79	0.18	5.67	< 0.1	219	321	1550	8.47	0.4	30	153	2.3	0.4	0.7	0.06	0.55	56.0	0.73	0.06	< 0.1
282841	14.4	0.32	3.65	5.91	0.02	9.48	< 0.1	156	291	1820	7.34	0.3	20	155	2.2	0.2	0.7	< 0.05	0.15	49.8	0.63	< 0.02	< 0.1
282842	16.8	1.40	3.54	6.02	0.01	8.48	< 0.1	114	283	1600	6.38	0.1	< 10	180	2.1	0.2	0.7	< 0.05	0.16	49.6	0.58	< 0.02	< 0.1
282843	10.3	2.81	2.55	6.09	0.01	6.89	< 0.1	85	317	1230	4.62	0.3	60	195	2.0	0.2	0.6	< 0.05	0.14	51.8	0.57	0.02	< 0.1
282844	11.0	1.58	2.32	5.74	0.13	7.82	< 0.1	148	242	1540	4.18	0.6	30	143	1.5	0.5	0.5	< 0.05	0.30	37.9	0.45	< 0.02	< 0.1
282845	16.2	2.26	3.31	6.32	0.02	6.98	< 0.1	190	400	1230	5.68	1.1	< 10	214	1.9	0.2	0.6	< 0.05	0.24	53.7	0.57	< 0.02	< 0.1
282846	21.2	2.62	2.95	6.71	0.04	6.65	< 0.1	206	416	1110	5.51	1.2	10	238	1.4	0.3	0.4	0.05	0.26	62.2	0.57	0.02	< 0.1
282847	20.6	0.55	2.15	5.60	0.37	11.0	< 0.1	163	185	1710	4.50	0.7	< 10	84.0	1.1	0.5	0.3	0.21	0.66	30.0	0.47	0.02	< 0.1
282848	21.3	> 3.00	1.69	9.32	1.77	4.52	0.1	79	27.5	909	5.69	2.5	10	14.6	3.9	3.1	1.3	< 0.05	1.25	20.4	1.55	0.04	< 0.1
282849	9.9	0.25	1.31	5.70	0.40	13.9	0.2	164	260	3350	4.49	0.8	60	88.7	1.1	1.0	0.3	< 0.05	0.56	28.4	0.37	0.03	< 0.1
282850	34.3	1.10	2.88	5.89	0.57	9.37	0.1	176	408	1320	6.77	1.2	40	205	1.1	0.3	0.4	< 0.05	1.06	53.9	0.53	0.06	0.4
282851	6.8	> 3.00	0.73	5.89	1.47	3.76	0.2	51	96.9	442	1.90	2.5	30	34.2	0.4	0.7	0.1	< 0.05	2.79	10.8	0.43	0.08	0.2
282852	14.8	0.39	1.80	3.47	0.81	12.6	0.5	121	193	2050	5.55	0.9	50	85.9	0.9	0.3	0.3	0.08	1.73	34.0	0.44	0.15	0.7
282853	33.2	0.64	2.11	5.19	0.75	11.4	< 0.1	174	261	1890	7.59	1.3	< 10	123	1.0	0.4	0.4	< 0.05	1.68	43.5	0.47	0.05	0.2
282854	19.6	0.49	1.63	4.33	1.00	17.8	0.1	145	213	2180	4.97	1.1	70	96.1	1.3	0.4	0.4	0.09	2.18	32.3	0.65	0.08	0.4
282855	36.8	2.04	3.72	6.79	0.40	7.24	< 0.1	182	215	1160	6.46	1.1	30	95.7	0.9	0.3	0.3	< 0.05	1.03	40.9	0.47	0.02	0.1
282856	36.9	2.01	3.73	6.02	0.51	7.18	< 0.1	198	359	1280	6.48	1.0	40	71.3	0.7	0.2	0.2	0.07	0.93	41.0	0.45	0.02	0.2
282857	35.1	2.08	3.72	7.11	0.70	7.16	< 0.1	209	528	1260	6.35	1.4	40	166	0.8	0.3	0.3	< 0.05	1.49	51.0	0.47	0.03	0.2
282858	36.9	1.40	4.37	5.37	0.37	8.41	< 0.1	172	531	1500	7.03	1.1	10	241	1.0	0.3	0.3	< 0.05	0.99	55.8	0.46	0.04	0.1
282859	34.4	0.21	3.07	4.91	0.67	6.98	0.4	158	281	4840	12.1	1.3	40	110	1.1	0.4	0.4	0.18	1.70	27.7	0.55	0.32	1.5
282860	35.1	2.15	1.52	7.84	3.53	3.04	0.1	95	94.9	565	4.60	2.5	20	44.7	2.6	3.1	0.9	0.64	11.3	16.6	1.16	1.55	2.1
282861	19.7	0.35	2.30	4.02	0.90	11.1	0.5	134	224	2550	6.88	1.0	20	96.0	0.9	0.4	0.3	0.12	2.08	31.3	0.59	0.11	0.5
282862	30.3	1.15	3.31	5.51	0.51	4.67	0.3	196	383	1180	6.63	1.6	40	182	0.7	0.4	0.2	0.13	1.42	56.9	0.47	0.29	0.9
282863	44.4	1.58	3.61	6.02	0.32	7.12	0.1	197	359	1790	7.65	1.4	30	159	0.8	0.3	0.3	< 0.05	0.86	49.3	0.42	0.05	0.1
282864	20.9	0.57	3.53	5.14	1.21	8.83	0.2	180	270	2230	6.77	1.2	10	135	0.7	0.6	0.2	0.07	2.97	39.0	0.55	0.14	0.4
282865	41.4	1.49	4.39	6.32	0.61	7.20	0.2	185	439	1700	6.99	1.5	< 10	248	0.8	0.5	0.3	< 0.05	1.68	55.3	0.54	0.06	0.1
282866	36.3	1.20	2.06	7.41	1.50	6.46	0.2	274	197	1740	7.99	1.6	10	120	1.3	0.6	0.4	0.13	3.31	48.9	0.61	0.10	0.5
282867	15.2	1.84	1.04	5.73	2.41	4.02	< 0.1	127	88.0	897	3.69	3.0	20	51.4	0.8	1.4	0.2	< 0.05	4.69	24.6	0.55	0.07	0.2
282868	10.6	2.26	1.39	8.02	2.22	4.05	< 0.1	99	76.1	859	3.81	2.6	20	39.9	1.0	1.0	0.4	< 0.05	4.16	17.1	1.10	0.10	< 0.1
282869	7.3	2.41	1.31	7.85	2.36	4.03	0.3	82	61.3	769	3.10	2.4	30	33.8	0.9	0.9	0.3	< 0.05	4.09	13.7	1.12	0.09	< 0.1
282870	18.1	1.16	1.70	7.93	2.42	4.86	0.4	116	141	957	5.32	1.9	40	85.8	1.3	0.9	0.4	< 0.05	4.12	32.0	0.97	0.13	0.1
282871	28.0	1.15	2.34	7.13	1.40	8.53	0.1	147	142	1610	6.83	0.7	60	115	1.1	0.3	0.3	0.05	2.54	44.2	0.55	0.02	0.2
282872	23.5	> 3.00	1.80	9.92	2.19	5.09	< 0.1	79	31.5	972	6.07	2.5	40	19.0	4.1	2.7	1.5	< 0.05	1.45	23.3	1.77	0.03	< 0.1
282873	41.1	1.66	4.00	7.12	0.64	6.69	< 0.1	246	201	1210	8.02	2.3	30	112	1.3	0.6	0.4	< 0.05	1.52	44.7	1.53	0.06	0.2

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
282874	34.9	1.22	5.06	6.40	0.60	7.51	< 0.1	233	267	1470	7.95	2.4	10	125	1.5	0.8	0.5	< 0.05	1.44	45.9	2.19	0.05	< 0.1
282875	26.1	> 3.00	4.86	7.30	0.28	7.48	< 0.1	169	232	1130	5.52	3.1	< 10	92.8	1.6	1.4	0.6	< 0.05	0.91	36.0	2.66	0.11	< 0.1
282876	23.8	> 3.00	3.13	9.11	0.83	8.69	0.1	299	17.0	1480	6.19	3.2	< 10	17.1	2.7	2.6	1.1	< 0.05	2.80	33.0	6.81	0.23	< 0.1
282877	24.6	1.71	2.51	7.60	1.63	7.28	0.1	143	223	1290	5.65	2.2	10	74.9	1.3	0.8	0.5	< 0.05	2.48	32.6	0.91	0.06	< 0.1
282878	23.7	1.54	2.35	6.87	0.47	9.52	0.2	278	120	2050	8.59	2.0	30	57.9	2.2	0.5	0.7	< 0.05	0.83	42.7	0.95	0.02	0.1
282879	18.3	2.11	2.12	6.95	0.10	8.57	0.1	165	105	2180	9.22	1.2	70	56.5	1.9	0.5	0.6	< 0.05	0.41	44.9	0.89	0.02	< 0.1

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
282706	78.2	13.0	6.8	12.4	14.8	46.6	24	1.0	0.42	< 0.1	< 1	0.4	< 0.1	145	2.3	5.8	0.9	5.1	1.6	2.0	0.4	2.6	117
282707	82.1	14.1	12.3	19.1	9.1	48.7	40	1.6	0.32	< 0.1	< 1	0.8	< 0.1	97	1.7	4.3	0.7	3.7	1.1	1.4	0.2	1.7	144
282708	116	15.2	12.4	6.3	4.8	52.2	40	1.8	0.29	< 0.1	< 1	1.8	< 0.1	61	0.9	2.4	0.4	2.3	0.7	0.9	0.1	1.0	149
282709	76.0	14.1	2.5	6.0	7.9	57.9	38	4.2	0.24	< 0.1	< 1	3.2	< 0.1	42	1.3	3.7	0.6	3.4	1.1	1.3	0.2	1.5	145
282710	83.5	14.4	3.6	0.6	8.4	51.3	41	1.7	0.25	< 0.1	< 1	4.7	< 0.1	12	1.7	4.4	0.7	4.2	1.3	1.5	0.2	1.6	147
282711	79.4	14.2	9.8	3.9	6.3	44.9	38	1.6	0.27	< 0.1	< 1	4.9	< 0.1	109	0.8	2.5	0.5	2.5	0.9	1.1	0.2	1.3	180
282712	40.4	5.5	23.9	62.4	6.8	196	42	1.3	6.81	< 0.1	< 1	2.0	3.5	208	7.0	14.0	1.8	8.0	1.6	1.3	0.2	1.2	74.1
282713	80.8	15.0	12.1	6.1	6.8	56.8	42	1.9	0.22	< 0.1	< 1	5.9	< 0.1	103	1.9	4.8	0.8	4.4	1.3	1.4	0.2	1.7	165
282714	74.5	14.7	6.5	6.7	6.2	68.9	41	1.8	0.28	< 0.1	2	5.2	< 0.1	73	1.5	4.3	0.7	3.9	1.1	1.3	0.2	1.4	111
282715	76.0	12.8	2.4	15.9	8.0	63.6	39	0.5	0.18	< 0.1	< 1	0.9	< 0.1	125	2.3	5.9	1.0	5.1	1.5	1.7	0.2	1.5	113
282716	77.0	14.8	2.1	3.9	8.0	49.5	40	0.1	< 0.05	< 0.1	< 1	0.2	< 0.1	64	2.3	5.9	0.9	5.3	1.6	1.6	0.2	1.6	117
282717	71.3	14.7	2.3	0.7	13.7	58.2	35	0.2	0.14	< 0.1	< 1	0.3	< 0.1	12	2.9	7.0	1.1	6.1	1.9	2.4	0.4	2.5	116
282718	74.1	12.7	14.1	13.8	6.7	50.6	41	0.9	0.42	< 0.1	< 1	0.7	< 0.1	148	2.5	5.8	0.9	4.9	1.4	1.5	0.2	1.3	111
282719	54.7	12.8	15.1	21.5	10.0	62.9	42	0.3	0.21	< 0.1	< 1	0.9	< 0.1	101	2.4	5.7	0.9	4.8	1.5	1.7	0.3	1.9	109
282720	113	18.1	0.5	15.7	29.7	101	93	0.3	0.07	< 0.1	< 1	0.2	< 0.1	109	12.1	25.8	3.5	16.7	3.9	4.8	0.8	5.4	194
282721	59.7	12.2	3.3	7.0	11.1	62.7	16	0.8	0.65	< 0.1	< 1	0.2	< 0.1	16	1.6	4.2	0.7	3.8	1.2	1.6	0.3	2.0	103
282722	63.7	11.8	21.4	15.7	8.3	41.8	19	1.0	0.17	< 0.1	< 1	0.1	< 0.1	118	1.3	3.5	0.6	3.3	1.0	1.3	0.2	1.6	114
282723	61.6	9.9	17.2	27.9	5.6	49.8	27	0.6	0.44	< 0.1	< 1	0.5	< 0.1	184	1.5	3.9	0.6	3.6	1.1	1.1	0.2	1.1	109
282724	107	14.9	< 0.1	79.8	30.9	483	100	1.2	0.12	< 0.1	< 1	< 0.1	< 0.1	663	20.7	50.0	6.4	30.4	6.7	6.5	0.9	6.2	26.4
282725	61.9	12.5	1.6	1.2	2.8	62.2	23	1.0	0.11	< 0.1	< 1	3.9	< 0.1	45	0.8	2.2	0.3	2.1	0.7	0.7	0.1	0.7	111
282726	60.3	12.3	1.5	19.1	4.3	68.6	36	0.9	0.17	< 0.1	< 1	5.2	< 0.1	52	1.5	3.9	0.6	3.6	1.1	1.0	0.1	0.9	118
282727	53.9	11.5	1.3	17.9	5.2	65.7	24	0.2	0.16	< 0.1	< 1	0.7	< 0.1	43	1.7	4.0	0.6	3.6	1.2	1.2	0.2	1.0	152
282728	63.1	12.6	0.9	16.4	4.6	48.6	30	0.1	0.06	< 0.1	< 1	0.6	< 0.1	33	1.9	4.6	0.7	4.2	1.1	1.1	0.2	0.9	111
282729	53.8	10.1	< 0.1	7.7	4.4	39.7	28	0.1	0.14	< 0.1	< 1	0.7	< 0.1	19	2.0	4.4	0.7	3.6	1.0	1.1	0.1	0.8	106
282730	81.2	15.5	0.7	12.4	5.3	40.1	39	0.2	0.07	< 0.1	< 1	0.8	< 0.1	28	2.5	6.2	1.0	5.3	1.4	1.3	0.2	1.0	122
282731	71.4	14.6	0.6	16.2	5.5	40.2	37	0.1	0.05	< 0.1	< 1	0.4	< 0.1	29	2.2	5.3	0.8	4.6	1.2	1.2	0.2	1.0	119
282732	61.6	11.5	5.7	14.9	6.2	62.1	31	0.1	0.10	< 0.1	< 1	0.3	< 0.1	49	3.0	5.9	0.9	5.1	1.4	1.4	0.2	1.1	113
282733	72.0	14.4	6.4	22.9	5.0	66.1	30	0.2	0.92	< 0.1	< 1	0.9	< 0.1	70	2.7	6.7	1.0	5.5	1.5	1.3	0.2	1.0	109
282734	82.2	6.7	12.4	30.4	5.8	54.7	39	0.2	0.16	< 0.1	< 1	0.5	< 0.1	476	2.6	6.3	0.9	5.3	1.5	1.5	0.2	1.1	109
282735	76.7	15.1	20.8	1.2	6.8	45.9	37	1.8	0.51	< 0.1	< 1	6.0	< 0.1	27	1.4	3.6	0.6	3.4	1.0	1.4	0.2	1.6	139
282736	130	12.6	1160	16.0	20.8	258	110	12.7	2.83	< 0.1	1	0.8	< 0.1	242	21.1	34.3	5.2	22.8	5.0	5.1	0.7	4.2	125
282737	83.2	12.7	14.5	12.3	15.2	49.6	24	0.1	0.05	< 0.1	< 1	0.4	< 0.1	182	2.5	6.4	1.0	5.5	1.7	2.5	0.4	2.7	180
282738	75.1	10.3	20.9	8.1	12.9	43.8	22	0.1	0.07	< 0.1	< 1	0.3	< 0.1	190	1.9	5.1	0.8	4.3	1.4	1.9	0.3	2.3	109
282739	94.4	15.8	8.3	0.9	16.7	76.2	9	0.1	0.06	< 0.1	< 1	0.6	< 0.1	18	2.7	7.0	1.1	5.8	1.8	2.5	0.4	3.0	122
282740	73.0	14.2	12.8	0.6	14.6	74.2	7	0.3	0.20	< 0.1	< 1	0.6	< 0.1	15	2.7	6.4	0.9	5.3	1.6	2.4	0.3	2.6	321
282741	76.1	14.4	13.7	0.5	15.1	52.9	7	0.1	0.06	< 0.1	< 1	0.3	< 0.1	13	2.4	6.3	0.9	5.3	1.6	2.3	0.4	2.7	114
282742	73.5	14.6	6.9	1.8	15.8	67.2	9	0.1	0.10	< 0.1	< 1	0.3	< 0.1	32	2.5	6.2	0.9	5.3	1.6	2.3	0.4	2.8	123
282743	73.0	13.5	2.4	6.4	12.9	58.2	30	0.2	0.09	< 0.1	< 1	0.2	< 0.1	77	2.3	5.7	0.9	5.0	1.4	2.0	0.3	2.3	114
282744	75.4	14.6	< 0.1	8.1	12.4	69.7	21	0.2	0.12	< 0.1	< 1	0.3	< 0.1	41	2.4	6.1	0.9	5.1	1.5	2.0	0.3	2.3	175
282745	70.1	13.9	2.1	25.6	12.8	61.8	32	0.4	0.12	< 0.1	< 1	0.7	< 0.1	96	2.7	6.8	1.0	5.7	1.5	2.2	0.3	2.3	104
282746	79.6	10.3	15.3	31.9	12.3	54.3	21	0.2	0.09	< 0.1	< 1	< 0.1	< 0.1	257	2.5	6.3	0.9	5.4	1.5	2.0	0.3	2.3	135
282747	90.4	14.6	5.2	1.8	14.6	57.9	22	0.1	0.05	< 0.1	< 1	0.2	< 0.1	19	2.2	5.7	0.9	5.0	1.5	2.1	0.4	2.5	129

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
282748	106	14.0	< 0.1	86.7	34.3	514	94	0.9	0.08	< 0.1	< 1	< 0.1	< 0.1	688	24.4	60.4	7.2	34.7	7.0	7.2	1.0	6.5	24.5
282749	90.0	16.5	0.3	0.7	16.1	118	10	0.2	0.27	< 0.1	< 1	< 0.1	< 0.1	19	2.5	6.3	1.0	5.7	1.6	2.4	0.4	2.8	139
282750	79.7	13.9	2.5	1.3	13.2	71.8	7	0.1	0.10	< 0.1	< 1	< 0.1	< 0.1	31	2.0	5.1	0.8	4.5	1.3	1.8	0.3	2.3	121
282751	89.3	16.0	1.1	1.6	16.3	114	12	1.6	0.21	< 0.1	< 1	0.3	< 0.1	29	2.6	6.4	1.0	5.7	1.8	2.4	0.4	2.8	131
282752	85.2	14.5	16.9	0.9	14.8	127	16	0.1	0.06	< 0.1	< 1	< 0.1	< 0.1	32	2.8	6.8	1.0	5.6	1.6	2.2	0.4	2.6	117
282753	149	13.6	16.7	1.5	11.3	183	59	2.4	0.69	< 0.1	< 1	1.1	< 0.1	90	7.6	16.9	2.3	11.6	2.6	2.6	0.4	2.3	107
282754	76.6	13.8	2.5	6.6	12.0	245	65	0.5	0.45	< 0.1	< 1	0.2	< 0.1	78	10.8	23.0	3.1	15.2	3.3	3.3	0.4	2.4	94.7
282755	80.7	11.4	2.4	15.2	14.4	210	57	0.1	0.17	< 0.1	< 1	0.1	< 0.1	203	12.9	27.6	3.6	17.4	3.8	3.6	0.5	2.8	89.9
282756	84.4	5.4	1.8	34.4	11.7	155	28	0.1	0.11	< 0.1	< 1	< 0.1	< 0.1	539	8.1	17.7	2.4	11.8	2.7	3.0	0.4	2.2	111
282757	95.0	9.2	1.2	34.1	11.8	173	43	0.3	0.36	< 0.1	< 1	0.2	< 0.1	367	6.4	14.3	2.1	10.1	2.3	2.6	0.4	2.2	109
282758	95.6	7.1	1.8	37.4	11.6	208	57	1.2	0.39	< 0.1	< 1	0.9	< 0.1	416	9.1	19.3	2.7	12.9	2.6	2.8	0.4	2.3	202
282759	115	5.7	4.0	46.7	10.3	299	71	2.1	0.58	< 0.1	< 1	1.7	< 0.1	531	12.3	26.5	3.6	16.8	3.3	3.2	0.4	2.1	105
282760	82.6	4.2	13.7	168	22.1	302	79	7.6	58.6	0.2	4	0.4	< 0.1	954	30.3	58.2	6.7	26.9	4.6	4.5	0.6	3.9	2670
282761	108	5.9	0.6	57.6	11.8	251	85	2.3	0.40	< 0.1	< 1	0.5	< 0.1	724	14.3	30.1	4.0	18.8	3.7	3.3	0.4	2.3	8.2
282762	113	3.3	0.9	25.4	8.4	265	90	3.6	1.14	< 0.1	< 1	2.8	< 0.1	748	8.2	20.8	2.6	12.4	2.6	2.7	0.3	2.0	41.0
282763	113	11.6	2.3	21.4	14.9	243	74	0.1	0.17	< 0.1	< 1	< 0.1	< 0.1	367	14.8	31.7	4.3	21.0	4.4	4.3	0.5	3.0	90.3
282764	124	12.3	2.5	23.7	10.8	141	42	0.3	0.08	< 0.1	< 1	< 0.1	< 0.1	308	6.9	16.6	2.5	13.0	3.4	3.3	0.4	2.2	197
282765	110	12.4	0.8	22.7	10.0	110	42	0.1	0.09	< 0.1	< 1	< 0.1	< 0.1	263	6.9	16.7	2.4	12.8	3.3	3.2	0.4	2.0	355
282766	126	11.3	3.3	28.6	11.6	102	63	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	432	6.6	16.3	2.4	12.8	3.3	3.4	0.4	2.3	114
282767	125	12.6	11.9	10.4	13.8	110	42	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	324	7.4	17.8	2.6	13.8	3.7	3.7	0.5	2.8	99.3
282768	98.7	16.3	28.8	1.6	15.1	102	28	0.1	0.19	< 0.1	< 1	0.2	< 0.1	55	3.9	9.7	1.5	7.7	2.0	2.6	0.4	2.8	108
282769	91.9	16.5	6.6	0.8	20.8	82.5	22	0.8	0.21	< 0.1	< 1	0.5	< 0.1	14	4.4	11.1	1.8	9.2	2.7	3.4	0.5	3.7	108
282770	82.9	16.7	4.8	1.4	20.8	90.1	29	1.8	0.23	< 0.1	< 1	0.8	< 0.1	17	2.9	7.6	1.2	6.5	2.0	2.9	0.5	3.6	105
282771	91.7	17.7	0.9	1.7	22.5	120	18	0.2	0.09	< 0.1	< 1	0.2	< 0.1	28	4.0	9.9	1.6	8.5	2.3	3.1	0.5	4.0	114
282772	101	13.0	< 0.1	88.4	36.2	525	67	0.7	0.32	< 0.1	< 1	< 0.1	< 0.1	707	26.6	61.7	7.9	37.0	7.7	7.5	1.0	6.8	29.6
282773	96.1	17.8	3.4	0.2	18.4	98.0	16	3.2	0.35	< 0.1	< 1	2.3	< 0.1	20	3.1	8.2	1.2	7.1	2.1	2.8	0.5	3.5	123
282774	145	17.9	3.0	1.6	26.8	80.4	9	0.3	0.07	< 0.1	< 1	0.2	< 0.1	40	5.1	12.6	2.0	10.5	3.0	4.1	0.7	4.8	128
282775	93.5	17.4	12.8	1.3	22.9	105	14	0.1	0.05	< 0.1	< 1	< 0.1	< 0.1	24	4.1	10.1	1.6	8.4	2.4	3.1	0.6	4.0	166
282776	95.3	16.4	10.4	1.0	21.9	50.9	17	0.2	< 0.05	< 0.1	< 1	< 0.1	< 0.1	18	3.4	8.4	1.3	7.3	2.1	3.0	0.5	3.9	91.6
282777	97.0	16.6	8.5	1.1	21.4	62.6	7	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	24	3.6	9.1	1.4	7.5	2.2	3.0	0.5	3.7	124
282778	89.1	14.6	8.6	2.2	18.6	91.1	6	0.1	0.11	< 0.1	< 1	0.3	< 0.1	75	3.6	8.8	1.3	7.0	2.2	2.8	0.4	3.4	133
282779	90.4	16.8	1.6	2.1	20.8	143	12	0.1	0.09	< 0.1	< 1	< 0.1	< 0.1	42	3.8	9.4	1.4	7.7	2.1	3.0	0.5	3.6	97.0
282780	80.0	13.8	9.7	2.0	16.0	82.0	9	1.2	0.21	< 0.1	< 1	0.2	< 0.1	44	2.6	6.3	1.0	5.2	1.7	2.0	0.4	2.8	123
282781	79.2	16.1	10.6	1.7	16.3	95.3	15	1.4	0.32	< 0.1	< 1	0.5	< 0.1	35	2.4	6.1	1.0	5.2	1.6	2.2	0.4	2.8	127
282782	82.6	13.0	3.2	7.1	17.2	184	4	0.2	0.09	< 0.1	< 1	< 0.1	< 0.1	152	3.7	8.6	1.3	6.7	2.0	2.6	0.4	3.1	155
282783	166	14.6	21.5	6.0	16.3	135	48	0.1	0.13	< 0.1	< 1	< 0.1	< 0.1	96	18.5	38.7	5.1	23.3	4.8	4.4	0.6	3.4	173
282784	95.6	9.6	9.5	80.5	15.6	352	65	8.7	433	0.7	10	1.0	0.4	397	16.5	32.0	3.6	16.1	2.9	3.0	0.4	2.8	> 10000
282785	89.6	14.2	129	11.0	13.2	58.2	36	0.7	0.72	< 0.1	< 1	0.2	< 0.1	59	3.6	7.6	1.1	5.8	1.6	2.3	0.4	2.6	88.9
282786	52.1	8.3	76.1	17.5	11.3	68.3	25	0.9	0.44	< 0.1	< 1	0.3	< 0.1	117	2.0	4.7	0.8	4.0	1.3	1.7	0.3	2.1	74.9
282787	89.6	13.5	74.4	24.6	12.3	72.6	36	0.3	0.27	< 0.1	< 1	0.1	< 0.1	143	2.6	6.5	1.0	5.2	1.6	2.0	0.3	2.4	79.2
282788	202	14.1	63.0	40.7	12.6	82.3	25	0.1	0.08	< 0.1	< 1	< 0.1	< 0.1	144	2.8	6.6	1.0	5.3	1.6	1.9	0.3	2.4	117
282789	176	12.7	70.4	28.1	16.9	50.3	42	1.3	0.59	< 0.1	< 1	0.2	< 0.1	144	5.9	12.4	1.7	9.3	2.5	3.1	0.5	3.2	120

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
282790	97.9	11.1	79.4	13.6	8.3	55.8	27	1.2	0.66	< 0.1	< 1	0.5	< 0.1	196	1.3	3.4	0.5	3.0	1.0	1.4	0.2	1.7	116
282791	143	12.4	36.9	20.8	11.7	75.8	38	1.1	0.47	< 0.1	< 1	< 0.1	< 0.1	164	3.0	7.1	1.1	5.9	1.6	2.2	0.3	2.3	116
282792	111	14.0	36.3	20.7	10.0	87.4	39	0.9	0.25	< 0.1	< 1	< 0.1	< 0.1	172	2.8	6.6	1.0	5.4	1.6	1.8	0.3	2.1	136
282793	94.6	14.7	40.7	17.4	9.9	76.7	18	0.1	0.08	< 0.1	< 1	< 0.1	< 0.1	95	2.6	6.4	0.9	5.3	1.6	1.8	0.3	2.0	99.3
282794	136	13.0	53.1	16.7	11.1	61.1	29	0.4	0.28	< 0.1	< 1	< 0.1	< 0.1	114	2.7	6.4	0.9	5.3	1.6	2.1	0.3	2.2	77.4
282795	155	12.0	20.9	46.2	9.9	61.9	44	1.4	0.82	< 0.1	< 1	0.5	< 0.1	193	4.2	9.6	1.3	6.3	1.5	1.9	0.3	1.9	142
282796	95.9	12.8	0.3	74.8	30.6	461	94	1.5	0.12	< 0.1	< 1	< 0.1	< 0.1	654	19.3	50.1	5.8	28.8	6.5	6.6	0.9	6.0	21.9
282797	192	14.2	43.6	20.9	10.7	56.4	34	1.0	0.33	< 0.1	< 1	0.2	< 0.1	119	3.3	7.6	1.2	5.9	1.7	1.8	0.3	2.1	117
282798	110	13.8	47.8	19.1	10.5	64.3	32	1.1	0.60	< 0.1	< 1	0.1	< 0.1	137	2.8	6.1	0.9	5.2	1.6	1.8	0.3	2.0	110
282799	150	13.1	32.6	26.3	13.5	86.3	51	1.3	0.71	< 0.1	< 1	0.1	< 0.1	203	3.0	6.1	1.0	5.2	1.5	1.9	0.3	2.5	120
282800	120	15.1	81.6	25.9	15.8	73.8	39	0.4	0.32	< 0.1	< 1	0.3	< 0.1	144	4.6	9.5	1.4	6.8	1.9	2.7	0.4	2.9	74.0
282801	118	17.5	16.6	4.9	31.8	103	135	6.4	0.65	< 0.1	1	0.5	< 0.1	125	12.4	26.8	3.8	18.0	4.4	5.2	0.8	6.0	245
282802	123	17.5	12.4	7.9	32.8	120	68	0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	105	14.1	28.5	4.0	18.5	4.6	5.4	0.9	6.0	184
282803	112	12.8	33.2	23.6	15.7	181	23	0.4	0.12	< 0.1	< 1	0.1	< 0.1	191	4.1	9.1	1.4	7.2	2.1	2.6	0.4	2.9	114
282804	74.1	12.8	31.5	29.8	14.0	80.8	41	1.6	1.00	< 0.1	< 1	0.7	< 0.1	158	2.2	5.1	0.8	4.0	1.3	2.0	0.4	2.6	102
282805	152	15.6	42.6	17.2	14.1	75.0	13	0.1	< 0.05	< 0.1	< 1	0.5	< 0.1	103	2.3	5.4	0.9	4.6	1.6	1.9	0.3	2.6	115
282806	114	14.0	10.9	16.0	16.3	52.2	6	1.3	0.33	< 0.1	< 1	0.2	< 0.1	118	2.7	6.3	1.0	5.5	1.8	2.3	0.4	3.0	114
282807	319	12.9	2.2	20.2	12.1	63.0	7	0.7	0.66	< 0.1	< 1	0.3	< 0.1	146	2.0	4.9	0.8	4.1	1.2	1.7	0.3	2.3	176
282808	152	13.4	13.2	19.0	16.0	61.5	9	1.0	0.44	< 0.1	< 1	< 0.1	< 0.1	129	2.8	6.9	1.1	5.5	1.7	2.3	0.4	2.9	127
282809	114	14.6	9.4	14.7	16.8	62.6	13	0.6	0.18	< 0.1	< 1	1.2	< 0.1	126	2.6	6.5	1.0	5.6	1.7	2.4	0.4	3.1	128
282810	159	15.2	6.3	6.7	15.8	66.4	5	0.2	0.11	< 0.1	< 1	0.2	< 0.1	46	2.7	6.6	1.0	5.6	1.9	2.4	0.4	2.9	106
282811	107	13.5	8.2	3.0	13.9	68.8	12	2.0	0.71	< 0.1	< 1	1.1	0.2	86	2.3	5.9	0.9	5.2	1.7	2.1	0.4	2.8	173
282812	39.1	3.5	23.0	60.7	6.5	192	38	1.2	6.97	< 0.1	< 1	2.0	3.5	214	7.5	14.8	1.8	7.9	1.6	1.3	0.2	1.2	72.6
282813	83.1	14.4	5.3	11.7	14.7	56.5	6	0.3	0.09	< 0.1	< 1	0.8	< 0.1	53	2.5	6.3	0.9	5.2	1.6	2.2	0.4	2.7	134
282814	134	13.7	4.0	12.8	15.8	64.4	3	0.3	0.12	< 0.1	< 1	0.2	< 0.1	90	2.6	6.6	1.0	5.4	1.7	2.4	0.4	3.0	116
282815	212	14.4	6.8	9.7	16.0	76.3	8	0.1	0.05	< 0.1	< 1	0.6	< 0.1	59	2.7	6.6	1.0	5.5	1.6	2.4	0.4	3.0	116
282816	87.3	14.6	11.3	10.7	16.2	74.4	4	0.1	0.10	< 0.1	< 1	1.3	< 0.1	56	2.5	6.2	0.9	5.2	1.6	2.3	0.4	2.8	116
282817	108	14.7	14.1	26.4	17.1	66.2	19	0.4	0.26	< 0.1	< 1	< 0.1	< 0.1	156	2.9	7.2	1.1	5.8	1.7	2.5	0.4	3.1	92.0
282818	119	15.5	8.9	15.9	17.7	60.8	15	1.1	0.19	< 0.1	< 1	0.2	< 0.1	83	2.5	6.0	0.9	5.1	1.8	2.2	0.4	3.1	130
282819	72.9	14.7	7.1	12.1	17.6	60.9	6	0.2	0.08	< 0.1	< 1	0.1	< 0.1	64	2.1	5.3	0.8	4.6	1.6	2.4	0.4	3.0	258
282820	78.2	14.3	179	27.8	9.5	113	41	0.8	0.26	< 0.1	< 1	0.4	< 0.1	203	2.8	6.1	0.9	4.8	1.4	1.7	0.3	1.8	106
282821	50.1	16.1	4930	32.1	2.1	143	64	0.9	0.46	< 0.1	< 1	2.6	< 0.1	322	4.4	9.6	1.2	5.1	0.9	0.7	0.1	0.4	9.1
282822	11.4	16.3	1100	24.5	2.2	131	49	0.9	2.22	< 0.1	< 1	0.9	< 0.1	151	4.4	9.5	1.2	5.2	0.9	0.8	0.1	0.4	10.9
282823	49.3	13.9	93.5	28.2	7.4	130	41	0.8	0.57	< 0.1	< 1	0.6	< 0.1	178	4.7	10.2	1.4	6.4	1.5	1.6	0.2	1.4	72.8
282824	107	13.6	0.7	90.2	38.7	522	84	1.2	0.06	< 0.1	< 1	< 0.1	< 0.1	653	28.8	68.0	8.7	39.3	8.2	7.8	1.1	7.2	26.6
282825	72.1	11.8	9.2	20.6	8.5	81.1	28	0.7	0.27	< 0.1	< 1	< 0.1	< 0.1	141	2.0	5.0	0.8	4.2	1.2	1.6	0.2	1.6	123
282826	202	14.0	28.9	16.5	9.0	76.3	31	0.2	0.20	< 0.1	< 1	0.1	< 0.1	128	3.6	8.8	1.3	6.7	1.9	2.0	0.3	1.8	103
282827	111	16.5	25.2	15.2	14.3	72.5	41	0.7	0.15	< 0.1	< 1	0.1	< 0.1	104	3.9	9.6	1.5	7.8	2.2	2.7	0.4	2.9	89.0
282828	113	15.9	32.8	13.0	15.5	67.3	60	2.2	0.37	< 0.1	< 1	0.6	< 0.1	124	3.4	8.5	1.3	6.8	2.1	2.7	0.4	3.1	92.9
282829	110	14.5	49.5	15.4	14.8	68.7	49	0.4	0.18	< 0.1	< 1	0.1	< 0.1	134	5.2	11.9	1.7	8.5	2.1	2.8	0.4	2.8	161
282830	136	18.0	8.2	1.6	31.4	48.6	29	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	20	12.5	26.7	3.5	16.7	4.1	4.7	0.8	5.5	181
282831	95.2	18.1	16.0	1.5	32.0	46.0	20	0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	21	13.1	27.9	3.7	17.3	4.2	5.3	0.8	5.6	196

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
282832	128	13.2	127	8.4	14.2	53.9	25	0.3	0.39	< 0.1	< 1	0.1	< 0.1	178	3.3	7.8	1.2	5.7	1.7	2.1	0.3	2.5	95.4
282833	394	5.8	40.9	14.3	14.6	53.3	24	1.0	0.81	0.1	1	0.3	< 0.1	438	4.5	10.7	1.6	7.2	1.9	2.1	0.4	2.7	216
282834	124	13.2	10.6	2.3	17.6	73.4	12	2.5	1.80	< 0.1	< 1	0.7	< 0.1	15	3.9	9.3	1.4	6.9	2.0	2.7	0.4	3.0	78.4
282835	78.1	13.2	9.1	0.2	20.0	86.3	27	2.7	0.18	< 0.1	< 1	0.5	< 0.1	12	3.6	8.8	1.4	7.3	2.1	2.9	0.5	3.6	86.2
282836	121	6.5	998	17.6	21.5	271	95	8.3	2.52	< 0.1	< 1	0.9	< 0.1	489	22.3	35.0	5.2	23.8	4.9	5.1	0.7	4.2	124
282837	103	14.4	5.2	0.2	21.5	85.5	13	1.1	0.33	< 0.1	< 1	0.2	< 0.1	12	4.0	9.9	1.5	7.9	2.4	3.3	0.5	3.8	14.9
282838	30.2	3.7	3.5	4.0	3.5	28.0	4	0.3	0.47	< 0.1	< 1	0.4	< 0.1	19	0.7	1.6	0.2	1.3	0.3	0.5	0.1	0.6	2.0
282839	79.1	12.7	3.6	5.5	11.3	70.1	7	1.2	1.73	< 0.1	< 1	1.0	< 0.1	24	2.0	4.9	0.7	3.9	1.2	1.6	0.3	1.9	13.8
282840	116	8.6	8.4	5.7	18.9	111	13	0.8	0.35	< 0.1	< 1	0.3	< 0.1	346	4.8	11.1	1.6	7.9	2.2	2.8	0.5	3.4	260
282841	68.6	13.6	5.8	0.4	19.2	131	9	0.4	0.28	< 0.1	< 1	0.2	< 0.1	6	3.2	7.9	1.3	6.5	2.0	2.7	0.4	3.2	97.3
282842	68.5	12.9	2.5	0.3	17.8	91.3	5	0.1	0.10	< 0.1	< 1	0.2	< 0.1	16	3.1	7.7	1.2	6.3	1.9	2.6	0.4	3.2	90.5
282843	55.7	12.4	9.0	0.2	16.8	113	9	< 0.1	0.15	< 0.1	< 1	< 0.1	< 0.1	23	2.6	6.8	1.1	5.6	1.9	2.6	0.4	3.0	87.4
282844	65.2	10.4	7.0	5.7	13.1	90.8	21	0.3	0.19	< 0.1	< 1	0.1	< 0.1	26	2.2	5.7	0.8	4.6	1.4	2.0	0.3	2.3	44.5
282845	57.8	13.8	10.3	0.4	15.0	101	35	2.0	0.32	< 0.1	< 1	0.3	< 0.1	18	3.3	8.1	1.3	6.6	1.8	2.6	0.4	2.9	150
282846	66.4	14.5	36.7	0.9	11.0	101	42	1.7	0.21	< 0.1	< 1	0.2	< 0.1	21	3.3	8.5	1.2	6.7	2.0	2.4	0.3	2.3	92.4
282847	59.7	9.2	52.7	10.7	8.2	104	22	0.8	0.95	< 0.1	< 1	0.4	< 0.1	66	2.0	4.8	0.8	4.1	1.2	1.7	0.2	1.6	75.3
282848	95.5	11.6	< 0.1	87.2	35.2	503	91	0.7	0.14	< 0.1	< 1	< 0.1	< 0.1	633	26.8	62.8	8.3	37.3	8.4	7.5	1.1	7.0	19.1
282849	109	7.2	38.5	15.7	8.9	79.2	29	0.8	0.43	< 0.1	< 1	0.6	< 0.1	53	1.9	5.6	0.8	4.1	1.1	1.4	0.2	1.6	10.8
282850	91.7	13.5	184	15.2	8.6	145	45	0.5	0.55	< 0.1	< 1	0.3	< 0.1	141	3.6	9.7	1.3	6.4	1.8	1.9	0.3	1.8	64.1
282851	39.5	19.1	795	36.8	3.5	98.3	94	1.4	0.74	< 0.1	< 1	1.1	< 0.1	386	7.0	17.5	1.9	8.2	1.6	1.3	0.1	0.7	24.9
282852	112	8.1	3710	24.1	7.7	201	41	1.2	4.73	< 0.1	< 1	2.1	0.3	135	2.6	7.3	1.0	4.7	1.3	1.4	0.2	1.4	69.1
282853	85.0	10.8	104	22.0	7.9	207	47	1.6	0.34	< 0.1	< 1	1.2	< 0.1	124	2.8	8.1	1.1	5.8	1.7	1.8	0.2	1.6	70.9
282854	42.6	8.4	392	27.8	11.5	277	38	1.5	0.40	< 0.1	< 1	2.4	< 0.1	162	2.9	7.8	1.1	5.7	1.8	2.1	0.3	2.1	86.7
282855	65.6	12.8	38.2	10.8	6.8	153	37	0.2	0.24	< 0.1	< 1	< 0.1	< 0.1	69	2.8	8.2	1.2	6.1	1.8	1.9	0.3	1.6	66.9
282856	59.8	12.2	65.4	9.2	5.7	165	33	2.1	0.31	< 0.1	< 1	0.8	< 0.1	52	2.6	7.7	1.1	5.5	1.7	1.6	0.2	1.3	78.2
282857	106	12.8	243	19.0	5.9	164	50	0.7	0.36	< 0.1	< 1	0.1	< 0.1	153	3.1	8.8	1.2	6.1	1.7	1.5	0.2	1.3	24.4
282858	83.6	11.1	218	10.6	7.8	127	40	0.4	0.20	< 0.1	< 1	0.2	< 0.1	74	2.6	7.4	1.0	5.2	1.5	1.6	0.2	1.6	47.4
282859	169	11.0	538	19.0	9.2	154	49	1.2	3.97	< 0.1	1	2.7	0.1	134	3.6	9.4	1.2	5.6	1.4	1.5	0.2	1.6	232
282860	86.8	15.6	19.0	164	22.5	302	79	6.3	51.6	0.2	5	0.5	< 0.1	1010	31.0	68.1	7.4	28.6	5.6	5.2	0.7	4.5	2500
282861	143	8.8	647	25.5	7.2	220	39	1.2	1.31	< 0.1	< 1	1.2	< 0.1	221	2.8	7.5	1.0	5.3	1.5	1.6	0.2	1.4	94.6
282862	157	12.3	5780	14.0	5.6	167	65	1.7	2.37	< 0.1	< 1	2.8	0.7	209	4.1	11.2	1.5	7.2	1.7	1.5	0.2	1.1	78.3
282863	101	12.4	121	8.9	5.9	190	49	1.3	0.30	< 0.1	< 1	0.3	< 0.1	56	3.0	8.5	1.2	6.1	1.6	1.5	0.2	1.2	61.9
282864	75.0	10.6	1870	31.9	5.7	269	46	1.4	2.38	< 0.1	1	1.8	0.2	353	2.7	7.7	1.0	5.2	1.5	1.4	0.2	1.2	70.8
282865	125	11.9	359	17.1	6.0	205	55	1.6	0.81	< 0.1	< 1	0.2	< 0.1	184	4.7	12.5	1.7	7.8	2.0	1.7	0.2	1.3	17.5
282866	97.2	15.0	218	36.0	9.7	267	58	1.6	0.50	< 0.1	< 1	0.5	< 0.1	367	4.5	12.0	1.6	7.9	2.2	2.0	0.3	1.9	141
282867	43.4	20.2	50.5	40.5	5.3	210	112	3.0	1.18	< 0.1	< 1	0.5	< 0.1	575	6.8	21.3	2.3	10.2	2.1	1.7	0.2	1.2	42.3
282868	36.6	16.6	27.8	52.9	9.4	220	96	2.5	0.57	< 0.1	< 1	0.5	< 0.1	651	28.2	64.6	7.1	28.1	4.3	3.3	0.4	2.0	33.5
282869	81.4	17.1	20.6	53.1	8.2	234	95	3.0	0.59	< 0.1	< 1	0.5	< 0.1	629	30.8	72.6	7.8	30.6	4.5	3.4	0.3	1.8	29.1
282870	150	17.0	39.8	51.6	10.8	224	74	0.2	0.52	< 0.1	< 1	0.2	< 0.1	466	17.6	41.2	4.7	19.5	3.7	3.0	0.4	2.3	62.3
282871	80.4	13.4	23.9	34.0	8.1	188	27	0.1	0.13	< 0.1	< 1	0.2	< 0.1	185	2.9	8.1	1.1	5.8	1.6	1.7	0.3	1.7	99.3
282872	106	21.0	< 0.1	94.3	36.8	545	91	0.6	0.14	< 0.1	< 1	< 0.1	< 0.1	778	30.1	76.0	9.3	41.2	9.0	8.6	1.2	7.6	22.8
282873	95.9	15.1	14.0	16.7	10.7	287	88	2.1	0.33	< 0.1	< 1	0.3	< 0.1	468	23.3	57.7	7.0	31.4	6.0	4.4	0.5	2.5	83.4

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
282874	91.4	10.9	12.2	16.5	13.0	331	90	1.9	0.39	< 0.1	< 1	0.3	< 0.1	882	38.7	96.8	11.5	52.0	9.1	6.3	0.6	3.2	73.8
282875	81.0	10.4	0.8	8.5	15.4	890	121	2.9	0.38	< 0.1	< 1	1.0	< 0.1	895	57.0	137	15.5	66.8	12.0	7.9	0.8	3.8	53.8
282876	109	4.1	< 0.1	26.2	28.7	878	170	2.5	0.86	< 0.1	< 1	0.7	< 0.1	2450	188	441	49.4	198	31.5	19.0	1.6	7.4	138
282877	86.0	14.8	12.5	41.4	11.0	189	81	0.3	0.45	< 0.1	< 1	0.2	< 0.1	498	14.5	34.6	4.1	17.6	3.6	3.1	0.4	2.3	79.6
282878	108	15.9	5.4	11.7	17.5	156	72	2.1	0.53	< 0.1	< 1	0.4	< 0.1	194	5.3	14.4	2.0	9.9	2.8	3.3	0.5	3.4	84.1
282879	95.2	16.9	0.3	2.3	14.7	153	42	0.1	0.08	< 0.1	< 1	< 0.1	< 0.1	71	4.9	14.2	1.9	10.1	2.8	3.3	0.5	3.0	91.7

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S	Cu	Na
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP	4Acid ICPOES	TD-ICP
282706	0.2	0.3	1.7	0.2	< 0.1	0.1	< 0.001	< 0.05	1.2	35	0.2	0.1	0.428	0.021	0.09		
282707	0.3	0.2	1.3	0.2	0.5	0.5	< 0.001	0.09	1.5	31	0.2	0.1	0.447	0.021	0.04		
282708	0.2	0.1	0.9	0.2	0.3	0.2	< 0.001	0.09	2.7	23	0.1	0.1	0.414	0.021	0.10		
282709	1.2	0.2	1.1	0.2	7.1	0.4	< 0.001	0.06	2.1	34	0.2	0.1	0.424	0.021	0.07		
282710	0.2	0.2	1.2	0.2	0.1	0.2	< 0.001	< 0.05	1.7	37	0.2	0.1	0.470	0.023	0.08		
282711	0.2	0.1	1.0	0.2	0.2	0.7	< 0.001	0.07	1.5	21	0.1	0.1	0.439	0.022	0.08		
282712	< 0.1	0.1	0.6	0.1	< 0.1	5.5	< 0.001	0.91	16.6	8	1.7	0.5	0.185	0.042	0.69		
282713	0.2	0.2	1.2	0.2	0.2	0.8	< 0.001	0.10	3.2	22	0.1	0.1	0.487	0.025	0.08		
282714	0.2	0.1	1.1	0.2	0.2	0.6	< 0.001	0.08	1.3	30	0.1	0.1	0.508	0.027	0.05		
282715	0.3	0.1	1.1	0.2	< 0.1	0.1	< 0.001	0.05	1.0	36	0.3	0.1	0.374	0.019	0.12		
282716	0.1	0.2	1.1	0.2	< 0.1	< 0.1	< 0.001	< 0.05	0.7	41	0.3	0.1	0.313	0.022	0.10		
282717	0.3	0.2	1.5	0.2	< 0.1	< 0.1	< 0.001	< 0.05	0.9	38	0.3	0.1	0.347	0.021	0.11		
282718	0.1	0.1	1.0	0.1	< 0.1	< 0.1	< 0.001	0.06	1.8	37	0.3	0.1	0.406	0.022	0.34		
282719	0.2	0.2	1.3	0.2	< 0.1	0.1	< 0.001	0.08	1.2	37	0.3	0.2	0.368	0.022	0.15		
282720	< 0.1	0.5	3.2	0.5	< 0.1	< 0.1	0.001	0.13	4.3	41	2.1	0.6	0.324	0.057	0.12		
282721	0.3	0.2	1.2	0.2	0.1	0.1	< 0.001	0.05	1.0	36	0.1	< 0.1	0.349	0.016	0.09		
282722	0.1	0.2	1.1	0.2	< 0.1	0.1	< 0.001	0.09	0.5	37	0.1	< 0.1	0.337	0.016	0.09		
282723	0.1	0.1	0.9	0.1	< 0.1	< 0.1	< 0.001	0.08	0.6	36	0.1	0.1	0.328	0.015	0.07		
282724	< 0.1	0.5	3.1	0.4	< 0.1	< 0.1	< 0.001	0.48	13.7	17	2.7	1.2	0.394	0.154	0.13		3.00
282725	0.1	0.1	0.6	0.1	< 0.1	0.2	< 0.001	0.05	0.7	18	< 0.1	< 0.1	0.333	0.016	0.07		
282726	0.3	0.1	0.7	0.1	< 0.1	0.1	< 0.001	0.15	0.9	36	0.1	0.1	0.345	0.016	0.10		
282727	0.3	0.1	0.7	0.1	< 0.1	< 0.1	< 0.001	0.09	0.7	34	0.1	0.1	0.295	0.014	0.06		
282728	0.3	0.1	0.7	0.1	< 0.1	< 0.1	< 0.001	0.09	0.6	37	0.2	0.1	0.285	0.016	0.05		
282729	0.4	0.1	0.6	0.1	< 0.1	< 0.1	< 0.001	0.05	0.8	31	0.2	0.1	0.250	0.015	0.02		
282730	0.3	0.1	0.8	0.1	< 0.1	< 0.1	< 0.001	0.06	0.6	41	0.3	0.1	0.313	0.021	0.08		
282731	0.2	0.1	0.8	0.1	< 0.1	< 0.1	< 0.001	0.07	1.5	41	0.2	0.1	0.273	0.019	0.06		
282732	0.3	0.1	0.7	0.1	< 0.1	< 0.1	< 0.001	0.05	0.7	32	0.2	0.1	0.250	0.016	0.04		
282733	0.3	0.1	0.7	0.1	< 0.1	< 0.1	0.003	0.09	1.0	41	0.2	0.1	0.269	0.021	0.15		
282734	0.4	0.1	0.9	0.1	< 0.1	< 0.1	< 0.001	0.13	8.4	39	0.2	0.1	0.337	0.020	0.12		
282735	0.1	0.2	1.1	0.2	0.1	0.1	< 0.001	0.07	0.9	22	0.1	0.1	0.503	0.025	0.11		
282736	< 0.1	0.3	1.7	0.2	0.4	0.8	< 0.001	0.10	7.0	16	4.0	1.4	0.768	0.192	1.64		
282737	0.2	0.3	1.7	0.3	< 0.1	< 0.1	< 0.001	< 0.05	0.7	44	0.3	0.1	0.247	0.024	0.15		
282738	0.3	0.2	1.5	0.2	< 0.1	< 0.1	< 0.001	< 0.05	0.6	37	0.2	0.1	0.235	0.020	0.14		
282739	0.3	0.3	1.8	0.2	< 0.1	< 0.1	< 0.001	< 0.05	0.9	45	0.3	0.1	0.284	0.023	0.12		
282740	0.5	0.2	1.5	0.2	< 0.1	< 0.1	< 0.001	< 0.05	0.9	37	0.2	0.1	0.253	0.021	0.11		
282741	0.3	0.2	1.6	0.2	< 0.1	< 0.1	< 0.001	< 0.05	0.6	39	0.3	0.1	0.224	0.021	0.13		
282742	0.4	0.3	1.7	0.2	< 0.1	< 0.1	< 0.001	< 0.05	0.6	40	0.3	0.1	0.243	0.022	0.12		
282743	0.5	0.2	1.6	0.2	< 0.1	< 0.1	< 0.001	< 0.05	0.5	40	0.3	0.1	0.351	0.021	0.12		
282744	0.5	0.2	1.5	0.2	< 0.1	< 0.1	< 0.001	< 0.05	0.7	41	0.3	0.1	0.306	0.022	0.12		
282745	0.4	0.2	1.5	0.2	0.1	< 0.1	< 0.001	0.08	0.6	39	0.3	0.1	0.339	0.021	0.19		
282746	0.3	0.2	1.5	0.2	< 0.1	< 0.1	< 0.001	0.10	0.6	39	0.2	0.3	0.197	0.021	0.21		

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S	Cu	Na
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP	4Acid ICPOES	TD-ICP
282747	0.3	0.2	1.6	0.2	< 0.1	< 0.1	< 0.001	< 0.05	0.5	37	0.2	0.1	0.236	0.019	0.09		
282748	< 0.1	0.5	3.2	0.4	< 0.1	< 0.1	< 0.001	0.50	13.6	18	3.0	1.2	0.241	0.143	0.13		3.11
282749	0.5	0.3	1.7	0.2	< 0.1	< 0.1	0.001	< 0.05	0.7	42	0.2	0.1	0.352	0.023	0.11		
282750	0.3	0.2	1.4	0.2	< 0.1	< 0.1	< 0.001	< 0.05	1.1	34	0.2	0.1	0.299	0.018	0.07		
282751	0.5	0.3	1.8	0.2	0.1	< 0.1	0.001	< 0.05	1.1	42	0.2	0.2	0.535	0.026	0.16		
282752	0.3	0.2	1.5	0.2	< 0.1	< 0.1	< 0.001	< 0.05	4.1	37	0.4	0.1	0.288	0.027	0.10		
282753	< 0.1	0.2	1.4	0.2	0.2	0.8	< 0.001	< 0.05	38.5	35	0.8	0.3	0.504	0.059	0.16		
282754	< 0.1	0.2	1.4	0.2	< 0.1	0.3	< 0.001	0.05	4.5	34	1.5	0.5	0.436	0.075	0.16		
282755	< 0.1	0.2	1.6	0.2	< 0.1	0.1	< 0.001	0.09	5.8	34	1.8	0.6	0.326	0.079	0.19		
282756	0.1	0.2	1.4	0.2	< 0.1	0.1	< 0.001	0.16	6.3	36	1.1	0.3	0.172	0.051	0.21		
282757	0.7	0.2	1.4	0.2	< 0.1	0.1	< 0.001	0.16	4.3	39	0.8	0.2	0.328	0.044	0.13		
282758	0.4	0.2	1.3	0.2	< 0.1	0.6	< 0.001	0.18	10.2	34	1.2	0.4	0.449	0.059	0.15		
282759	0.1	0.2	1.3	0.2	< 0.1	0.7	< 0.001	0.24	17.1	33	1.7	0.5	0.472	0.077	0.14		
282760	0.2	0.3	2.1	0.3	0.4	1.5	0.001	0.93	23.0	14	15.8	4.5	0.401	0.088	0.32		
282761	0.4	0.2	1.3	0.2	0.1	0.8	< 0.001	0.28	6.2	33	1.9	0.6	0.468	0.077	0.01		
282762	0.2	0.2	1.2	0.2	0.5	1.7	< 0.001	0.27	8.5	24	0.7	0.6	0.553	0.093	0.06		
282763	< 0.1	0.3	1.9	0.3	< 0.1	< 0.1	< 0.001	0.11	7.8	35	1.9	0.5	0.301	0.086	0.19		
282764	< 0.1	0.2	1.9	0.3	< 0.1	< 0.1	0.001	0.10	11.4	38	0.6	0.2	0.253	0.053	0.26		
282765	0.1	0.2	1.8	0.3	< 0.1	< 0.1	< 0.001	0.10	2.4	38	0.6	0.2	0.274	0.052	0.40		
282766	< 0.1	0.2	1.9	0.3	< 0.1	< 0.1	< 0.001	0.12	2.3	43	0.7	0.2	0.145	0.055	0.09		
282767	< 0.1	0.3	2.1	0.4	< 0.1	< 0.1	0.001	< 0.05	2.1	39	0.8	0.2	0.163	0.055	0.17		
282768	0.2	0.3	1.8	0.3	< 0.1	< 0.1	< 0.001	< 0.05	2.4	39	0.4	0.3	0.344	0.033	0.28		
282769	0.3	0.3	2.1	0.3	< 0.1	< 0.1	< 0.001	< 0.05	1.6	41	0.3	0.1	0.574	0.034	0.16		
282770	0.3	0.3	2.1	0.3	< 0.1	< 0.1	< 0.001	< 0.05	1.3	40	0.3	0.1	0.614	0.034	0.19		
282771	0.2	0.4	2.3	0.3	< 0.1	< 0.1	< 0.001	< 0.05	1.7	44	0.4	0.1	0.411	0.031	0.09		
282772	< 0.1	0.5	3.2	0.5	< 0.1	< 0.1	< 0.001	0.47	12.9	19	3.5	1.3	0.325	0.154	0.13		2.97
282773	1.6	0.3	2.1	0.3	0.8	0.1	< 0.001	< 0.05	1.6	37	0.2	0.1	0.670	0.038	0.11		
282774	0.1	0.4	2.7	0.4	< 0.1	< 0.1	0.001	< 0.05	1.7	41	0.5	0.1	0.349	0.044	0.29		
282775	0.1	0.4	2.4	0.3	< 0.1	< 0.1	< 0.001	< 0.05	1.2	42	0.4	0.1	0.215	0.035	0.13		
282776	0.1	0.4	2.4	0.4	< 0.1	< 0.1	< 0.001	< 0.05	1.1	40	0.4	0.1	0.288	0.034	0.11		
282777	0.1	0.4	2.3	0.3	< 0.1	< 0.1	0.001	< 0.05	1.0	41	0.4	0.1	0.134	0.032	0.14		
282778	0.2	0.3	2.0	0.3	< 0.1	< 0.1	< 0.001	< 0.05	1.1	40	0.3	0.1	0.194	0.027	0.18		
282779	0.3	0.3	2.2	0.3	< 0.1	< 0.1	< 0.001	< 0.05	1.1	41	0.3	0.1	0.318	0.029	0.10		
282780	0.4	0.3	1.7	0.2	0.2	< 0.1	< 0.001	< 0.05	0.8	39	0.2	0.1	0.426	0.024	0.07		
282781	0.6	0.3	1.7	0.2	< 0.1	< 0.1	< 0.001	< 0.05	0.9	41	0.2	0.1	0.456	0.024	0.08		
282782	0.2	0.3	1.8	0.2	< 0.1	< 0.1	< 0.001	0.05	1.5	45	0.3	0.1	0.286	0.025	0.19		
282783	< 0.1	0.2	1.4	0.2	< 0.1	< 0.1	< 0.001	0.06	3.4	25	1.7	0.4	0.176	0.065	0.10		
282784	< 0.1	0.2	1.7	0.2	0.6	2.9	0.007	0.49	26.2	15	7.2	2.3	0.395	0.092	1.33	1.06	
282785	0.5	0.2	1.6	0.2	0.1	0.1	< 0.001	0.16	7.2	35	0.3	0.1	0.404	0.024	0.62		
282786	0.3	0.2	1.3	0.2	< 0.1	0.2	< 0.001	0.19	3.7	25	0.2	0.1	0.278	0.016	0.43		
282787	0.3	0.2	1.6	0.2	< 0.1	< 0.1	< 0.001	0.27	3.8	39	0.5	0.2	0.324	0.032	0.31		

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S	Cu	Na
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP	4Acid ICPOES	TD-ICP
282788	0.1	0.2	1.5	0.2	< 0.1	< 0.1	0.001	0.29	2.3	43	0.3	0.1	0.205	0.027	0.05		
282789	0.2	0.3	1.7	0.2	< 0.1	0.1	0.001	0.27	19.6	35	0.3	0.1	0.412	0.023	0.89		
282790	0.1	0.2	1.2	0.2	0.2	0.3	< 0.001	0.45	2.3	30	0.1	0.1	0.331	0.018	0.21		
282791	< 0.1	0.2	1.5	0.2	< 0.1	0.1	0.001	0.24	3.5	36	0.4	15.1	0.371	0.025	0.43		
282792	0.1	0.2	1.3	0.2	< 0.1	< 0.1	0.001	0.23	5.3	37	0.3	0.2	0.443	0.024	0.57		
282793	0.2	0.2	1.2	0.2	< 0.1	< 0.1	0.001	0.12	2.6	42	0.3	0.1	0.147	0.023	0.19		
282794	0.3	0.2	1.4	0.2	< 0.1	< 0.1	< 0.001	0.14	4.2	37	0.3	0.1	0.299	0.021	0.21		
282795	< 0.1	0.2	1.2	0.2	0.2	0.2	0.001	0.79	44.7	32	0.9	0.3	0.301	0.025	3.02		
282796	< 0.1	0.5	3.0	0.4	< 0.1	< 0.1	< 0.001	0.45	13.4	18	2.3	1.2	0.374	0.149	0.14		3.06
282797	< 0.1	0.2	1.3	0.2	< 0.1	0.1	< 0.001	0.34	7.7	42	0.4	0.1	0.312	0.031	0.36		
282798	< 0.1	0.2	1.3	0.2	< 0.1	0.1	< 0.001	0.27	4.0	41	0.3	0.1	0.328	0.028	0.35		
282799	0.3	0.2	1.5	0.2	< 0.1	0.1	0.001	0.42	8.6	36	0.5	0.2	0.360	0.025	1.45		
282800	0.3	0.3	1.6	0.2	< 0.1	< 0.1	0.002	0.22	124	39	0.7	0.2	0.330	0.037	0.39		
282801	0.3	0.5	3.6	0.5	0.4	0.2	0.002	0.09	5.5	47	1.7	0.6	1.13	0.110	0.29		
282802	< 0.1	0.5	3.6	0.6	< 0.1	< 0.1	0.001	0.07	5.3	46	2.5	0.6	0.262	0.097	0.25		
282803	0.2	0.3	1.7	0.2	< 0.1	< 0.1	< 0.001	0.21	3.5	41	0.4	0.2	0.237	0.032	0.22		
282804	< 0.1	0.2	1.7	0.2	< 0.1	0.1	0.001	0.37	9.6	37	0.4	0.2	0.449	0.024	2.66		
282805	0.2	0.2	1.6	0.2	< 0.1	< 0.1	< 0.001	0.17	31.4	43	0.3	0.1	0.227	0.024	0.35		
282806	0.2	0.3	1.7	0.2	< 0.1	0.1	0.001	0.13	9.8	43	0.2	0.1	0.443	0.023	0.28		
282807	0.4	0.2	1.3	0.2	< 0.1	0.1	0.001	0.16	204	33	0.2	< 0.1	0.357	0.017	0.22		
282808	0.5	0.3	1.7	0.2	< 0.1	0.1	0.001	0.14	29.2	40	0.3	0.1	0.429	0.027	0.12		
282809	0.3	0.3	1.7	0.2	< 0.1	< 0.1	< 0.001	0.12	9.1	42	0.2	0.1	0.373	0.024	0.20		
282810	0.1	0.3	1.7	0.2	< 0.1	< 0.1	0.001	< 0.05	8.9	41	0.3	0.1	0.217	0.023	0.19		
282811	0.8	0.3	1.7	0.2	0.1	0.1	0.001	0.06	10.1	38	0.2	0.1	0.552	0.026	0.41		
282812	< 0.1	0.1	0.6	0.1	< 0.1	5.7	< 0.001	0.85	17.1	9	1.6	0.5	0.183	0.042	0.68		
282813	0.3	0.2	1.6	0.2	< 0.1	< 0.1	< 0.001	0.08	3.1	38	0.2	0.1	0.308	0.022	0.23		
282814	0.3	0.3	1.8	0.2	< 0.1	< 0.1	< 0.001	0.08	31.3	42	0.3	0.1	0.282	0.023	0.13		
282815	0.2	0.3	1.7	0.3	< 0.1	< 0.1	< 0.001	0.07	92.4	40	0.2	0.1	0.221	0.022	0.14		
282816	0.1	0.3	1.6	0.2	< 0.1	< 0.1	< 0.001	0.08	9.8	41	0.2	0.1	0.206	0.023	0.20		
282817	0.5	0.3	1.8	0.2	< 0.1	< 0.1	< 0.001	0.14	6.9	45	0.6	0.5	0.350	0.041	0.08		
282818	0.5	0.3	1.8	0.3	< 0.1	0.1	< 0.001	0.09	7.5	43	0.2	0.1	0.440	0.023	0.18		
282819	0.3	0.2	1.6	0.2	< 0.1	< 0.1	0.002	0.07	12.2	39	0.2	0.1	0.288	0.022	0.10		
282820	0.4	0.2	1.2	0.2	< 0.1	0.2	< 0.001	0.17	6.5	34	0.3	0.1	0.378	0.025	0.18		
282821	< 0.1	< 0.1	0.1	< 0.1	< 0.1	1.4	< 0.001	0.26	13.1	2	0.5	0.3	0.186	0.031	0.36		3.57
282822	< 0.1	< 0.1	0.1	< 0.1	< 0.1	1.6	0.001	0.17	11.8	2	0.6	0.3	0.149	0.026	0.25		3.68
282823	0.3	0.1	0.9	0.1	< 0.1	0.6	< 0.001	0.17	7.5	24	0.5	0.2	0.267	0.023	0.15		
282824	< 0.1	0.5	3.4	0.5	< 0.1	< 0.1	< 0.001	0.45	13.6	20	3.2	1.3	0.254	0.151	0.13		3.01
282825	0.3	0.1	1.0	0.1	< 0.1	0.3	< 0.001	0.12	3.5	39	0.1	< 0.1	0.257	0.017	0.10		
282826	0.2	0.2	1.2	0.2	< 0.1	< 0.1	< 0.001	0.09	3.1	35	0.4	0.1	0.220	0.031	0.20		
282827	0.3	0.3	1.8	0.3	< 0.1	< 0.1	< 0.001	0.09	5.0	36	0.4	0.1	0.333	0.038	0.23		
282828	0.6	0.3	2.0	0.3	0.1	0.3	< 0.001	0.09	4.0	35	0.4	0.1	0.607	0.039	0.12		

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S	Cu	Na
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP	4Acid ICPOES	TD-ICP
282829	< 0.1	0.3	1.8	0.3	< 0.1	0.2	< 0.001	0.10	6.9	31	0.7	0.2	0.429	0.040	0.40		
282830	< 0.1	0.5	3.2	0.5	< 0.1	< 0.1	0.002	< 0.05	6.2	42	2.2	0.6	0.147	0.082	0.15		
282831	< 0.1	0.5	3.3	0.5	< 0.1	< 0.1	0.001	< 0.05	5.1	44	2.3	0.6	0.131	0.089	0.21		
282832	0.4	0.2	1.6	0.2	< 0.1	< 0.1	< 0.001	0.11	3.4	37	0.6	0.1	0.369	0.032	0.45		
282833	0.4	0.2	1.6	0.2	< 0.1	0.4	0.002	0.12	5.3	34	1.1	0.3	0.386	0.025	1.50		
282834	< 0.1	0.3	1.8	0.2	0.2	0.4	0.001	< 0.05	1.9	35	0.6	0.1	0.382	0.026	0.32		
282835	< 0.1	0.3	2.1	0.3	0.2	0.2	< 0.001	< 0.05	1.6	41	0.3	0.1	0.441	0.028	0.22		
282836	< 0.1	0.3	1.7	0.3	0.1	0.5	< 0.001	0.09	7.3	17	4.4	1.4	0.661	0.184	1.62		
282837	0.3	0.3	2.1	0.3	< 0.1	0.1	< 0.001	< 0.05	1.4	43	0.4	0.1	0.383	0.030	0.02		
282838	0.1	0.1	0.5	0.1	< 0.1	0.1	< 0.001	< 0.05	0.7	9	0.1	< 0.1	0.0849	0.007	< 0.01		
282839	0.2	0.2	1.2	0.2	< 0.1	0.2	0.001	< 0.05	1.5	22	0.2	0.1	0.224	0.019	0.06		
282840	0.2	0.3	1.9	0.3	< 0.1	0.1	0.001	0.05	3.6	40	0.5	0.2	0.391	0.027	1.40		
282841	0.5	0.3	1.9	0.3	< 0.1	< 0.1	< 0.001	< 0.05	1.9	36	0.3	0.1	0.291	0.022	0.13		
282842	0.2	0.3	1.8	0.2	< 0.1	< 0.1	< 0.001	< 0.05	1.5	35	0.3	0.1	0.189	0.023	0.12		
282843	0.1	0.3	1.6	0.2	< 0.1	< 0.1	< 0.001	< 0.05	2.3	35	0.3	0.1	0.135	0.024	0.07		
282844	0.4	0.2	1.4	0.2	< 0.1	< 0.1	< 0.001	< 0.05	1.5	29	0.2	0.1	0.236	0.019	0.02		
282845	0.2	0.3	1.7	0.2	0.1	0.4	0.001	< 0.05	1.5	36	0.3	0.1	0.375	0.026	0.06		
282846	0.1	0.2	1.3	0.2	0.1	0.2	< 0.001	< 0.05	1.3	39	0.3	0.1	0.312	0.028	0.07		
282847	< 0.1	0.2	1.1	0.1	< 0.1	0.8	< 0.001	0.07	2.1	23	0.2	< 0.1	0.151	0.016	0.09		
282848	< 0.1	0.5	3.2	0.5	< 0.1	< 0.1	< 0.001	0.47	13.0	19	3.3	1.3	0.356	0.143	0.13		3.04
282849	0.4	0.2	1.1	0.2	< 0.1	0.2	0.001	0.08	1.8	23	0.2	0.1	0.212	0.016	0.05		
282850	0.3	0.2	1.1	0.2	< 0.1	0.1	0.001	0.10	3.9	33	0.4	1.2	0.241	0.024	0.17		
282851	< 0.1	< 0.1	0.3	< 0.1	< 0.1	1.6	< 0.001	0.35	5.6	7	1.3	0.4	0.187	0.030	0.16		3.21
282852	< 0.1	0.1	0.9	0.2	< 0.1	3.9	0.002	0.22	4.3	21	0.3	0.1	0.178	0.017	0.53		
282853	0.3	0.2	1.2	0.2	< 0.1	5.3	0.001	0.19	4.1	32	0.3	0.2	0.252	0.022	0.32		
282854	< 0.1	0.2	1.4	0.2	< 0.1	3.7	0.005	0.25	6.3	26	0.2	0.1	0.222	0.018	0.91		
282855	0.4	0.1	0.9	0.1	< 0.1	0.1	0.001	0.08	5.0	38	0.3	0.1	0.259	0.022	0.03		
282856	0.1	0.1	0.7	0.1	0.1	0.5	0.001	0.09	3.1	35	0.2	0.1	0.332	0.023	0.06		
282857	0.1	0.1	0.9	0.1	< 0.1	0.7	0.001	0.13	3.7	38	0.3	0.1	0.316	0.026	0.02		
282858	0.4	0.1	1.0	0.2	< 0.1	0.1	< 0.001	0.07	2.5	32	0.3	0.1	0.204	0.020	0.04		
282859	0.5	0.2	1.3	0.2	< 0.1	2.2	0.003	0.16	9.7	28	0.4	0.1	0.250	0.019	2.62		
282860	0.1	0.4	2.3	0.3	0.3	4.3	0.005	0.96	22.9	14	17.0	7.6	0.377	0.089	0.36		
282861	< 0.1	0.1	1.0	0.2	< 0.1	4.3	< 0.001	0.21	5.3	23	0.3	0.1	0.182	0.021	0.62		
282862	< 0.1	0.1	0.9	0.2	< 0.1	5.2	0.002	0.11	4.0	29	0.5	0.1	0.345	0.026	0.75		
282863	0.1	0.1	1.0	0.2	< 0.1	0.3	< 0.001	0.05	2.8	36	0.3	0.1	0.230	0.025	0.11		
282864	< 0.1	0.1	0.8	0.1	< 0.1	5.4	0.001	0.27	5.9	28	0.3	0.1	0.232	0.021	0.50		
282865	0.1	0.1	0.9	0.2	< 0.1	1.9	0.004	0.13	3.2	31	0.4	0.1	0.220	0.029	0.06		
282866	0.4	0.2	1.5	0.2	< 0.1	1.0	0.001	0.27	7.1	39	0.4	0.1	0.425	0.036	1.12		
282867	0.1	0.1	0.8	0.1	0.2	3.9	< 0.001	0.48	5.8	10	1.0	0.5	0.381	0.061	0.13		
282868	< 0.1	0.1	1.0	0.2	< 0.1	2.3	< 0.001	0.38	5.4	13	4.2	1.2	0.310	0.060	0.15		
282869	< 0.1	0.1	0.8	0.1	0.1	4.5	< 0.001	0.37	5.6	10	4.5	1.2	0.284	0.062	0.09		

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S	Cu	Na
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP	4Acid ICPOES	TD-ICP
282870	< 0.1	0.2	1.2	0.2	< 0.1	0.5	0.001	0.35	4.7	22	2.6	0.7	0.230	0.047	0.13		
282871	0.2	0.2	1.2	0.2	< 0.1	0.1	0.001	0.21	2.2	35	0.3	0.1	0.228	0.024	0.16		
282872	< 0.1	0.6	3.5	0.5	< 0.1	< 0.1	< 0.001	0.47	12.9	19	4.1	1.4	0.421	0.154	0.13		2.88
282873	< 0.1	0.2	1.3	0.2	0.1	0.6	0.001	0.07	3.4	34	3.1	0.6	0.408	0.079	0.18		
282874	< 0.1	0.2	1.4	0.2	0.1	0.5	0.001	0.07	3.7	35	5.2	0.9	0.412	0.113	0.05		
282875	< 0.1	0.2	1.3	0.2	0.2	0.6	0.001	< 0.05	8.9	24	8.6	1.7	0.319	0.158	0.08		2.75
282876	< 0.1	0.3	1.9	0.3	< 0.1	0.4	0.002	0.11	13.4	6	26.8	4.4	0.431	0.431	0.13		3.59
282877	0.1	0.2	1.4	0.2	< 0.1	< 0.1	< 0.001	0.17	3.5	24	2.2	0.7	0.315	0.064	0.15		
282878	0.8	0.3	2.2	0.4	0.1	0.5	0.001	< 0.05	2.1	37	0.5	0.1	0.650	0.044	0.11		
282879	0.1	0.3	2.1	0.3	< 0.1	< 0.1	0.001	< 0.05	1.6	40	0.5	0.1	0.270	0.040	0.16		

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
GXR-1 Meas	8.0	0.04	0.20	2.11	0.04	0.87	2.6	78	10.3	846	24.0	0.5	3260	41.3		1.0		30.8	2.71	8.1	0.57	1480	15.6
GXR-1 Cert	8.20	0.0520	0.217	3.52	0.050	0.960	3.30	80.0	12.0	852	23.6	0.960	3900	41.0		1.22		31.0	3.00	8.20	0.690	1380	16.6
GXR-1 Meas	8.0	0.05	0.22	2.35	0.04	0.79	2.5	80	11.9	859	24.3	0.5	1790	41.6		1.0		31.5	2.73	8.3	0.53	1440	15.3
GXR-1 Cert	8.20	0.0520	0.217	3.52	0.050	0.960	3.30	80.0	12.0	852	23.6	0.960	3900	41.0		1.22		31.0	3.00	8.20	0.690	1380	16.6
DH-1a Meas																							
DH-1a Cert																							
DH-1a Meas																							
DH-1a Cert																							
GXR-4 Meas	12.1	0.56	1.82	7.04	2.99	1.02	0.1	88	49.6	144	3.03	1.2	20	40.2		2.0		3.34	2.73	13.9	1.32	17.7	5.5
GXR-4 Cert	11.1	0.564	1.66	7.20	4.01	1.01	0.860	87.0	64.0	155	3.09	6.30	110	42.0		1.90		4.00	2.80	14.6	1.63	19.0	5.60
GXR-4 Meas	11.0	0.56	1.78	6.86	4.27	0.96	< 0.1	90	49.1	156	3.11	1.1	20	43.0		2.1		3.71	2.65	15.4	1.27	18.5	5.1
GXR-4 Cert	11.1	0.564	1.66	7.20	4.01	1.01	0.860	87.0	64.0	155	3.09	6.30	110	42.0		1.90		4.00	2.80	14.6	1.63	19.0	5.60
SDC-1 Meas	36.7	1.50	1.01	7.92	2.09	1.06		51	50.0	874	4.77	1.0	30	35.9	3.6	2.9	1.2		4.01	18.2	1.45		
SDC-1 Cert	34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70		
SDC-1 Meas	35.6	1.58	1.04	8.46	1.91	0.96		46	45.4	851	4.77	0.9	60	34.6	3.5	3.2	1.1		3.79	18.9	1.36		
SDC-1 Cert	34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70		
GXR-6 Meas	37.4	0.10	0.62	> 10.0	1.83	0.16	< 0.1	167	77.7	1110	5.65	2.6	160	26.4		1.2		0.17	4.21	14.6	0.57	0.17	0.5
GXR-6 Cert	32.0	0.104	0.609	17.7	1.87	0.180	1.00	186	96.0	1010	5.58	4.30	68.0	27.0		1.40		1.30	4.20	13.8	0.760	0.290	0.940
GXR-6 Meas	36.5	0.11	0.60	> 10.0	1.84	0.18	0.2	120	70.5	969	5.31	1.9	30	23.5		1.2		0.17	3.65	12.7	0.47	0.16	< 0.1
GXR-6 Cert	32.0	0.104	0.609	17.7	1.87	0.180	1.00	186	96.0	1010	5.58	4.30	68.0	27.0		1.40		1.30	4.20	13.8	0.760	0.290	0.940
CCU-1C Meas																							
CCU-1C Cert																							
GBW 07239 (NCS DC 70007) Meas																							
GBW 07239 (NCS DC 70007) Cert																							
SY-4 Meas																							
SY-4 Cert																							
STM-2 Meas																							
STM-2 Cert																							
MP-1b Meas																							
MP-1b Cert																							
DNC-1a Meas	4.9							147	254					279						59.4	0.54		
DNC-1a Cert	5.2							148	270					247						57	0.59		
DNC-1a Meas	4.6							146	154					266						58.5	0.51		
DNC-1a Cert	5.2							148	270					247						57	0.59		
CZN-4 Meas																							
CZN-4 Cert																							
SBC-1 Meas	163						0.3	217	107			3.2		86.0	3.5	3.4	1.1		7.68	23.1	1.65	0.70	
SBC-1 Cert	163						0.40	220.0	109			3.7		82.8	3.80	3.20	1.40		8.2	22.7	1.98	0.70	
SBC-1 Meas																							
SBC-1 Cert																							
OREAS 45d	22.4	0.09	0.23	7.30	0.45	0.18		90	517	474	14.1	1.3		251	1.3	0.8	0.4		3.67	31.4	0.56	0.33	

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
(4-Acid) Meas																							
OREAS 45d (4-Acid) Cert	21.5	0.101	0.245	8.150	0.412	0.185		235.0	549	490.000	14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31	
OREAS 45d (4-Acid) Meas	20.5	0.10	0.24	7.69	0.42	0.17		104	539	493	14.4	1.5		243	1.3	0.8	0.4		3.68	32.2	0.52	0.33	
OREAS 45d (4-Acid) Cert	21.5	0.101	0.245	8.150	0.412	0.185		235.0	549	490.000	14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57	0.31	
PTC-1b Meas																							
PTC-1b Cert																							
SdAR-M2 (U.S.G.S.) Meas	19.8						5.6	27	46.7			2.6	1140	53.8	2.8	7.2	1.0		1.82	13.6	1.26	1.04	
SdAR-M2 (U.S.G.S.) Cert	17.9						5.1	25.2	49.6			7.29	1440.00	48.8	3.58	6.6	1.21		1.82	12.4	1.44	1.05	
SdAR-M2 (U.S.G.S.) Meas																							
SdAR-M2 (U.S.G.S.) Cert																							
282706 Orig	27.0	1.79	2.98	7.45	0.44	7.12	< 0.1	228	212	1410	7.55	0.8	110	96.3	1.8	0.3	0.6	< 0.05	0.37	46.6	0.57	< 0.02	< 0.1
282706 Dup	27.2	1.80	2.94	6.94	0.40	7.28	< 0.1	225	211	1390	7.32	0.7	100	91.8	1.8	0.3	0.6	< 0.05	0.35	46.1	0.56	0.02	< 0.1
282744 Orig	21.5	1.42	3.22	6.90	0.32	7.26	< 0.1	134	76.4	1450	7.66	0.5	50	78.6	1.6	0.2	0.5	< 0.05	0.17	46.0	0.53	0.02	< 0.1
282744 Dup	21.7	1.42	3.27	6.88	0.33	7.33	0.1	202	82.4	1470	7.80	0.8	60	82.2	1.6	0.2	0.5	< 0.05	0.19	48.0	0.53	< 0.02	< 0.1
282746 Orig	16.6	0.39	2.73	6.87	1.31	8.56	< 0.1	154	150	1500	7.18	0.7	70	79.6	1.5	0.2	0.5	< 0.05	0.52	51.9	0.47	0.02	< 0.1
282746 Dup	17.0	0.40	2.78	6.92	1.30	8.52	0.1	129	126	1480	7.15	0.4	70	81.4	1.5	0.2	0.5	< 0.05	0.54	52.7	0.48	0.02	< 0.1
282755 Split Orig PREP DUP	23.7	1.38	3.50	6.43	0.49	7.23	0.1	170	256	1060	6.57	1.6	50	97.3	1.8	0.9	0.6	< 0.05	0.65	40.9	1.01	0.08	< 0.1
282755 Split PREP DUP	24.1	1.46	3.65	6.70	0.49	7.38	< 0.1	159	227	1110	6.62	1.4	60	95.5	1.7	0.9	0.6	< 0.05	0.66	40.3	1.02	0.08	< 0.1
282781 Orig	15.5	1.47	4.87	7.89	0.10	6.90	< 0.1	240	158	1400	8.36	0.5	< 10	161	2.0	0.2	0.6	< 0.05	0.10	52.9	0.55	0.03	< 0.1
282781 Dup	14.8	1.43	4.74	7.63	0.10	6.86	< 0.1	237	162	1380	8.35	0.4	20	158	1.9	0.2	0.6	< 0.05	0.08	55.3	0.55	0.02	< 0.1
282786 Orig	27.1	1.14	1.84	5.31	0.49	11.7	< 0.1	147	120	1420	4.32	0.7	30	111	1.4	0.4	0.4	< 0.05	0.68	35.6	0.35	0.03	< 0.1
282786 Dup	26.9	1.17	1.82	5.31	0.48	11.5	< 0.1	145	118	1380	4.23	0.7	30	107	1.4	0.3	0.4	< 0.05	0.66	34.5	0.34	0.04	< 0.1
282805 Split Orig PREP DUP	30.9	2.29	2.27	7.63	0.62	5.40	0.3	162	193	1510	6.25	0.4	30	146	1.8	0.3	0.5	0.05	0.46	55.1	0.56	0.02	< 0.1
282805 Split PREP DUP	30.3	2.28	2.27	7.38	0.58	5.19	0.2	170	209	1470	5.95	0.4	30	142	1.8	0.3	0.5	0.06	0.45	52.5	0.53	0.03	< 0.1
282816 Orig	19.8	2.69	1.81	7.62	0.37	7.76	0.1	126	178	2170	6.29	0.1	50	138	1.9	0.4	0.6	0.05	0.31	52.3	0.64	0.03	< 0.1
282816 Dup	19.1	2.69	1.74	7.39	0.37	7.49	0.2	138	178	2140	6.21	0.1	30	137	1.9	0.5	0.6	< 0.05	0.31	52.6	0.63	0.03	< 0.1
282826 Orig	26.8	1.46	2.01	7.03	0.61	6.45	0.6	143	140	1410	7.10	0.9	30	102	1.1	0.4	0.3	0.06	0.96	42.7	0.52	0.02	< 0.1
282826 Dup	27.8	1.51	2.06	7.15	0.60	6.68	0.6	148	153	1420	7.18	0.9	80	106	1.1	0.3	0.3	0.07	1.01	43.8	0.56	0.02	< 0.1
282828 Orig	28.8	1.74	1.68	5.98	0.62	8.35	0.3	278	156	1650	7.66	1.5	40	89.9	2.0	0.4	0.6	< 0.05	0.92	44.9	0.61	< 0.02	< 0.1
282828 Dup	28.6	1.73	1.68	7.05	0.62	8.18	0.3	236	143	1590	7.49	1.8	20	89.8	2.1	0.5	0.6	< 0.05	1.04	48.8	0.66	< 0.02	< 0.1
282853 Orig	32.9	0.63	2.07	5.18	0.78	11.5	< 0.1	174	256	1840	7.50	1.3	250	123	1.0	0.4	0.4	0.61	1.65	43.5	0.47	0.05	0.2
282853 Dup	33.4	0.65	2.15	5.21	0.73	11.3	< 0.1	174	265	1930	7.68	1.3	< 10	122	1.0	0.3	0.3	< 0.05	1.71	43.4	0.47	0.04	0.3
282855 Split Orig PREP DUP	36.8	2.04	3.72	6.79	0.40	7.24	< 0.1	182	215	1160	6.46	1.1	30	95.7	0.9	0.3	0.3	< 0.05	1.03	40.9	0.47	0.02	0.1

Analyte Symbol	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu	Bi	Se
Unit Symbol	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05	0.02	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
282855 Split PREP DUP	37.7	2.18	3.95	6.98	0.44	7.62	< 0.1	185	227	1180	6.57	1.1	40	97.9	0.9	0.3	0.3	< 0.05	1.04	44.3	0.47	0.02	< 0.1
282876 Orig																							
282876 Dup																							
282879 Split Orig PREP DUP	18.3	2.11	2.12	6.95	0.10	8.57	0.1	165	105	2180	9.22	1.2	70	56.5	1.9	0.5	0.6	< 0.05	0.41	44.9	0.89	0.02	< 0.1
282879 Split PREP DUP	15.2	2.00	2.01	6.26	0.09	8.70	0.1	135	95.4	2170	8.98	0.9	50	56.4	2.0	0.5	0.6	< 0.05	0.43	44.5	0.92	0.03	< 0.1
Method Blank	< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	29.9	17	< 0.01	< 0.1	30	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	< 0.1
Method Blank	< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	7.0	2	< 0.01	< 0.1	10	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	< 0.1
Method Blank	< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	< 0.5	4	< 0.01	< 0.1	20	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	< 0.1
Method Blank	< 0.5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.1	1	0.6	4	< 0.01	< 0.1	20	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	< 0.1
Method Blank	< 0.5	< 0.01	< 0.01	0.01	< 0.01	< 0.01	< 0.1	2	6.5	15	< 0.01	< 0.1	20	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	< 0.1
Method Blank	< 0.5	< 0.01	< 0.01	0.04	< 0.01	< 0.01	< 0.1	2	9.3	7	0.01	< 0.1	60	< 0.5	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05	< 0.02	< 0.1
Method Blank																							
Method Blank																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
GXR-1 Meas	791	8.8	428	2.5	26.7	283	22	0.8	17.0	0.7	25	13.9	6.4	713	7.1	15.3		8.6	2.8	4.2	0.7	4.7	1140
GXR-1 Cert	760	13.8	427	14.0	32.0	275	38.0	0.800	18.0	0.770	54.0	122	13.0	750	7.50	17.0		18.0	2.70	4.20	0.830	4.30	1110
GXR-1 Meas	740	< 0.1	418	2.5	27.9	277	24	0.8	16.6	0.7	24	27.0	8.8	686	7.2	13.4		8.4	2.8	4.0	0.7	4.4	1210
GXR-1 Cert	760	13.8	427	14.0	32.0	275	38.0	0.800	18.0	0.770	54.0	122	13.0	750	7.50	17.0		18.0	2.70	4.20	0.830	4.30	1110
DH-1a Meas																							
DH-1a Cert																							
DH-1a Meas																							
DH-1a Cert																							
GXR-4 Meas	71.3	17.5	103	110	12.6	202	39	9.6	308	0.2	7	4.5	0.9	129	53.0	111		41.1	6.3	4.5	0.5	2.7	6390
GXR-4 Cert	73.0	20.0	98.0	160	14.0	221	186	10.0	310	0.270	5.60	4.80	0.970	1640	64.5	102		45.0	6.60	5.25	0.360	2.60	6520
GXR-4 Meas	74.3	17.0	103	141	13.6	200	38	9.4	311	0.2	7	4.3	0.9	147	55.5	101		41.4	5.9	4.5	0.5	2.6	6790
GXR-4 Cert	73.0	20.0	98.0	160	14.0	221	186	10.0	310	0.270	5.60	4.80	0.970	1640	64.5	102		45.0	6.60	5.25	0.360	2.60	6520
SDC-1 Meas	105	20.1	< 0.1	91.9		168	35	0.3			< 1	< 0.1		605	37.9	89.9		40.2	7.6	7.3	1.0	6.3	29.2
SDC-1 Cert	103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70	30.000
SDC-1 Meas	96.8	11.5	< 0.1	91.5		164	34	0.6			< 1	< 0.1		596	38.0	80.5		39.6	6.9	6.6	0.9	5.9	31.1
SDC-1 Cert	103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20	6.70	30.000
GXR-6 Meas	137	23.7	284	64.4	11.2	34.7	97	1.2	1.45	< 0.1	< 1	0.8	< 0.1	1180	11.3	34.1		12.3	2.5	2.4	0.3	2.3	67.9
GXR-6 Cert	118	35.0	330	90.0	14.0	35.0	110	7.50	2.40	0.260	1.70	3.60	0.0180	1300	13.9	36.0		13.0	2.67	2.97	0.415	2.80	66.0
GXR-6 Meas	114	5.5	231	62.6	10.2	37.9	68	0.3	0.72	< 0.1	< 1	0.6	< 0.1	1370	9.8	26.4		10.5	2.1	1.8	0.3	2.0	66.4
GXR-6 Cert	118	35.0	330	90.0	14.0	35.0	110	7.50	2.40	0.260	1.70	3.60	0.0180	1300	13.9	36.0		13.0	2.67	2.97	0.415	2.80	66.0
CCU-1C Meas																							
CCU-1C Cert																							
GBW 07239 (NCS DC 70007) Meas																							
GBW 07239 (NCS DC 70007) Cert																							
SY-4 Meas																							
SY-4 Cert																							
STM-2 Meas																							
STM-2 Cert																							
MP-1b Meas																							
MP-1b Cert																							
DNC-1a Meas	67.0	13.8		3.3	15.2	139	37	1.5				0.7		107	3.4			4.8					95.1
DNC-1a Cert	70	15		5	18.0	144	38.0	3				0.96		118	3.6			5.20					100
DNC-1a Meas	60.0	13.1		3.2	15.7	129	33	1.5				0.7		98	3.5			4.9					97.7
DNC-1a Cert	70	15		5	18.0	144	38.0	3				0.96		118	3.6			5.20					100
CZN-4 Meas																							
CZN-4 Cert																							
SBC-1 Meas	186	12.9	25.9	130	30.3	169	112	13.2	2.61		4	1.0		778	48.5	97.8	11.5	47.5	8.8	8.0	1.0	6.3	31.4
SBC-1 Cert	186	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20	7.10	31.0000
SBC-1 Meas																							
SBC-1 Cert																							

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
OREAS 45d (4-Acid) Meas	43.9	21.5	6.2	36.4	10.3	29.7	50	0.4	0.31	< 0.1	< 1	< 0.1		177	14.9	35.0	3.4	13.4	2.8	2.5	0.4	2.3	375
OREAS 45d (4-Acid) Cert	45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26	371
OREAS 45d (4-Acid) Meas	41.5	19.8	6.8	37.9	10.7	27.2	61	0.2	0.32	< 0.1	< 1	< 0.1		173	16.0	32.6	3.5	13.7	2.6	2.2	0.3	2.2	391
OREAS 45d (4-Acid) Cert	45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400	2.26	371
PTC-1b Meas																							
PTC-1b Cert																							
SdAR-M2 (U.S.G.S.) Meas	837	15.9		102	23.5	140	99	7.8	11.7					987	42.7	100	10.1	38.4	6.7	5.9	0.7	4.8	243
SdAR-M2 (U.S.G.S.) Cert	760	17.6		149	32.7	144	259	26.2	13.3					990	46.6	98.8	11.0	39.4	7.18	6.28	0.97	5.88	236.00 00
SdAR-M2 (U.S.G.S.) Meas																							
SdAR-M2 (U.S.G.S.) Cert																							
282706 Orig	77.9	13.1	6.9	13.1	14.8	45.5	25	1.1	0.22	< 0.1	< 1	0.6	< 0.1	146	2.4	6.0	1.0	5.2	1.6	2.0	0.4	2.6	120
282706 Dup	78.4	13.0	6.7	11.6	14.7	47.7	24	0.9	0.61	< 0.1	1	0.2	< 0.1	143	2.3	5.7	0.9	5.0	1.5	2.1	0.4	2.6	114
282744 Orig	73.3	14.4	1.1	8.0	12.2	67.5	16	0.1	0.14	< 0.1	< 1	0.2	< 0.1	41	2.4	6.0	0.9	5.1	1.5	2.1	0.3	2.3	225
282744 Dup	77.4	14.7	< 0.1	8.3	12.5	71.8	27	0.3	0.10	< 0.1	< 1	0.4	< 0.1	41	2.4	6.2	1.0	5.1	1.5	2.0	0.3	2.4	125
282746 Orig	79.5	10.2	15.2	31.5	12.3	54.0	27	0.3	0.13	< 0.1	< 1	0.1	< 0.1	255	2.5	6.3	1.0	5.5	1.6	2.1	0.3	2.2	136
282746 Dup	79.7	10.4	15.4	32.3	12.4	54.7	15	0.1	0.05	< 0.1	< 1	< 0.1	< 0.1	258	2.5	6.2	0.9	5.4	1.5	2.0	0.3	2.3	134
282755 Split Orig PREP DUP	80.7	11.4	2.4	15.2	14.4	210	57	0.1	0.17	< 0.1	< 1	0.1	< 0.1	203	12.9	27.6	3.6	17.4	3.8	3.6	0.5	2.8	89.9
282755 Split PREP DUP	83.3	11.2	4.7	15.4	14.4	217	51	0.1	0.20	< 0.1	< 1	0.2	< 0.1	205	13.0	27.8	3.6	17.5	3.8	3.7	0.4	2.8	99.4
282781 Orig	80.1	16.2	9.9	1.7	16.3	98.1	10	1.5	0.32	< 0.1	< 1	0.6	< 0.1	35	2.4	6.2	1.0	5.3	1.5	2.2	0.4	2.9	127
282781 Dup	78.3	16.1	11.4	1.6	16.2	92.5	21	1.2	0.33	< 0.1	< 1	0.3	< 0.1	35	2.4	6.0	1.0	5.1	1.6	2.1	0.4	2.8	127
282786 Orig	53.2	8.5	78.8	17.6	11.6	69.2	23	0.9	0.42	< 0.1	< 1	0.3	< 0.1	117	2.0	4.8	0.8	4.1	1.3	1.7	0.3	2.1	76.3
282786 Dup	50.9	8.2	73.4	17.3	11.0	67.4	27	0.9	0.45	< 0.1	< 1	0.3	< 0.1	117	2.0	4.6	0.7	3.9	1.3	1.7	0.3	2.1	73.6
282805 Split Orig PREP DUP	152	15.6	42.6	17.2	14.1	75.0	13	0.1	< 0.05	< 0.1	< 1	0.5	< 0.1	103	2.3	5.4	0.9	4.6	1.6	1.9	0.3	2.6	115
282805 Split PREP DUP	157	15.2	40.0	16.2	13.9	70.3	15	0.1	0.08	< 0.1	< 1	0.7	< 0.1	96	2.1	4.9	0.8	4.4	1.3	1.8	0.3	2.5	105
282816 Orig	89.7	14.7	11.9	10.8	16.3	74.0	4	0.1	0.10	< 0.1	< 1	1.6	< 0.1	57	2.5	6.3	0.9	5.2	1.6	2.3	0.4	2.9	119
282816 Dup	84.9	14.5	10.7	10.6	16.0	74.9	4	0.1	0.10	< 0.1	< 1	0.9	< 0.1	54	2.5	6.1	1.0	5.2	1.6	2.3	0.4	2.8	113
282826 Orig	199	13.9	28.4	16.3	8.8	74.6	30	0.1	0.20	< 0.1	< 1	0.1	< 0.1	126	3.4	8.6	1.3	6.5	1.8	1.9	0.3	1.8	101
282826 Dup	205	14.1	29.4	16.7	9.1	77.9	33	0.2	0.21	< 0.1	< 1	0.1	< 0.1	131	3.7	9.1	1.3	6.9	2.0	2.1	0.3	1.9	104
282828 Orig	114	16.2	34.0	9.0	14.4	66.2	53	2.5	0.40	< 0.1	< 1	0.7	< 0.1	124	3.1	7.9	1.2	6.5	1.9	2.5	0.4	3.0	87.2
282828 Dup	113	15.5	31.5	17.0	16.6	68.5	67	1.8	0.33	< 0.1	< 1	0.5	< 0.1	124	3.7	9.0	1.4	7.1	2.2	2.8	0.4	3.2	98.7
282853 Orig	87.7	10.8	107	22.1	7.9	209	48	1.6	0.33	< 0.1	< 1	1.4	< 0.1	125	2.9	8.2	1.1	5.9	1.7	1.8	0.2	1.6	73.4
282853 Dup	82.3	10.8	101	21.8	7.8	206	47	1.6	0.34	< 0.1	< 1	1.0	< 0.1	123	2.8	8.0	1.1	5.7	1.7	1.7	0.2	1.6	68.4
282855 Split Orig	65.6	12.8	38.2	10.8	6.8	153	37	0.2	0.24	< 0.1	< 1	< 0.1	< 0.1	69	2.8	8.2	1.2	6.1	1.8	1.9	0.3	1.6	66.9

Analyte Symbol	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb	Dy	Cu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
PREP DUP																							
282855 Split PREP DUP	67.9	13.4	42.6	11.4	7.0	159	37	0.1	0.66	< 0.1	< 1	< 0.1	< 0.1	69	2.9	8.4	1.2	6.2	1.8	1.7	0.3	1.6	66.0
282876 Orig																							
282876 Dup																							
282879 Split Orig PREP DUP	95.2	16.9	0.3	2.3	14.7	153	42	0.1	0.08	< 0.1	< 1	< 0.1	< 0.1	71	4.9	14.2	1.9	10.1	2.8	3.3	0.5	3.0	91.7
282879 Split PREP DUP	95.4	17.4	1.9	2.4	15.4	161	30	0.1	0.13	< 0.1	< 1	< 0.1	< 0.1	74	5.1	14.9	2.1	10.7	2.9	3.4	0.5	3.1	92.8
Method Blank	0.4	0.2	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.07	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	1.1
Method Blank	0.2	0.2	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Method Blank	< 0.2	0.1	0.3	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.11	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.4
Method Blank	< 0.2	0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	< 0.05	< 0.1	< 1	< 0.1	< 0.1	< 1	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
Method Blank	0.5	0.3	0.2	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.14	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.2
Method Blank	1.1	0.3	0.9	< 0.2	< 0.1	1.4	< 1	< 0.1	0.15	< 0.1	< 1	< 0.1	< 0.1	< 1	0.1	0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.3
Method Blank																							
Method Blank																							

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S	Cu	Na
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP	4Acid ICPOES	TD-ICP
GXR-1 Meas		0.4	2.1	0.3	< 0.1	128		0.37	762	2	2.8	32.9	0.0306	0.060	0.26		
GXR-1 Cert		0.430	1.90	0.280	0.175	164		0.390	730	1.58	2.44	34.9	0.036	0.0650	0.257		
GXR-1 Meas		0.3	2.0	0.2	< 0.1	129		0.38	760	2	2.5	33.6	0.0278	0.059	0.25		
GXR-1 Cert		0.430	1.90	0.280	0.175	164		0.390	730	1.58	2.44	34.9	0.036	0.0650	0.257		
DH-1a Meas											> 500	2530					
DH-1a Cert											910	2629					
DH-1a Meas											> 500	2480					
DH-1a Cert											910	2629					
GXR-4 Meas		0.2	1.0	0.1	0.5	33.1		3.09	46.3	8	18.6	5.5	0.290	0.131	1.76		
GXR-4 Cert		0.210	1.60	0.170	0.790	30.8		3.20	52.0	7.70	22.5	6.20	0.29	0.120	1.77		
GXR-4 Meas		0.2	1.0	0.1	0.6	31.9		3.14	49.3	8	17.7	5.6	0.284	0.131	1.78		
GXR-4 Cert		0.210	1.60	0.170	0.790	30.8		3.20	52.0	7.70	22.5	6.20	0.29	0.120	1.77		
SDC-1 Meas		0.5	3.2		< 0.1	< 0.1		0.59	22.9	16	11.6	2.8	0.348	0.054			
SDC-1 Cert		0.65	4.00		1.20	0.80		0.70	25.00	17.00	12.00	3.10	0.606	0.0690			
SDC-1 Meas		0.5	3.0		< 0.1	< 0.1		0.63	24.6	16	11.6	2.9	0.181	0.054			
SDC-1 Cert		0.65	4.00		1.20	0.80		0.70	25.00	17.00	12.00	3.10	0.606	0.0690			
GXR-6 Meas			1.6	0.3	< 0.1	0.3		2.10	93.8	27	4.8	1.4		0.034	0.01		
GXR-6 Cert			2.40	0.330	0.485	1.90		2.20	101	27.6	5.30	1.54		0.0350	0.0160		
GXR-6 Meas			1.4	0.2	< 0.1	< 0.1		1.98	93.9	26	4.0	1.2		0.031	0.01		
GXR-6 Cert			2.40	0.330	0.485	1.90		2.20	101	27.6	5.30	1.54		0.0350	0.0160		
CCU-1C Meas																24.8	
CCU-1C Cert																25.6	
GBW 07239 (NCS DC 70007) Meas																0.005	
GBW 07239 (NCS DC 70007) Cert																0.005	
SY-4 Meas																0.023	5.27
SY-4 Cert																	5.27
STM-2 Meas																	6.62
STM-2 Cert																	6.61
MP-1b Meas																3.06	
MP-1b Cert																3.07	
DNC-1a Meas			1.8						5.9	31			0.287				
DNC-1a Cert			2.0						6.3	31			0.29				
DNC-1a Meas			1.8						6.3	31			0.285				
DNC-1a Cert			2.0						6.3	31			0.29				
CZN-4 Meas																0.409	
CZN-4 Cert																0.403	
SBC-1 Meas		0.5	3.1	0.5	0.7	1.5		0.88	36.3	29	15.4	5.8	0.509				
SBC-1 Cert		0.56	3.64	0.54	1.10	1.60		0.89	35.0	20.0	15.8	5.76	0.51				
SBC-1 Meas										22			0.503				

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S	Cu	Na
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP	4Acid ICPOES	TD-ICP
SBC-1 Cert										20.0			0.51				
OREAS 45d (4-Acid) Meas			1.4	0.2	< 0.1	0.1		0.23	20.6	57	13.6	2.7	0.201	0.035	0.05		
OREAS 45d (4-Acid) Cert			1.33	0.18	1.02	1.62		0.27	21.8	49.30	14.5	2.63	0.773	0.042	0.049		
OREAS 45d (4-Acid) Meas			1.3	0.2	< 0.1	0.1		0.24	21.0		13.6	2.6					
OREAS 45d (4-Acid) Cert			1.33	0.18	1.02	1.62		0.27	21.8		14.5	2.63					
PTC-1b Meas																7.69	
PTC-1b Cert																7.97	
SdAR-M2 (U.S.G.S.) Meas		0.4	2.6	0.4	0.3	0.7			790	4	13.8	2.4					
SdAR-M2 (U.S.G.S.) Cert		0.54	3.63	0.54	1.8	2.8			808	4.1	14.2	2.53					
SdAR-M2 (U.S.G.S.) Meas										4							
SdAR-M2 (U.S.G.S.) Cert										4.1							
282706 Orig	0.2	0.3	1.7	0.2	< 0.1	0.1	< 0.001	0.05	1.4	35	0.2	0.1	0.429	0.021	0.10		
282706 Dup	0.1	0.2	1.6	0.2	< 0.1	0.1	< 0.001	< 0.05	1.1	34	0.2	0.1	0.427	0.021	0.09		
282744 Orig	0.4	0.2	1.5	0.2	< 0.1	< 0.1	< 0.001	< 0.05	0.7	41	0.3	0.1	0.242	0.022	0.13		
282744 Dup	0.6	0.2	1.5	0.2	< 0.1	< 0.1	< 0.001	< 0.05	0.7	41	0.3	0.1	0.369	0.022	0.12		
282746 Orig	0.3	0.2	1.5	0.2	< 0.1	< 0.1	< 0.001	0.10	0.5	39	0.2	0.1	0.243	0.021	0.22		
282746 Dup	0.2	0.2	1.5	0.2	< 0.1	< 0.1	< 0.001	0.10	0.6	39	0.2	0.4	0.152	0.020	0.21		
282755 Split Orig PREP DUP	< 0.1	0.2	1.6	0.2	< 0.1	0.1	< 0.001	0.09	5.8	34	1.8	0.6	0.326	0.079	0.19		
282755 Split PREP DUP	< 0.1	0.2	1.6	0.2	< 0.1	0.1	< 0.001	0.10	5.9	34	1.9	0.6	0.277	0.080	0.20		
282781 Orig	0.6	0.3	1.7	0.2	0.2	0.1	< 0.001	< 0.05	0.9	40	0.2	0.1	0.457	0.024	0.08		
282781 Dup	0.5	0.3	1.7	0.2	< 0.1	< 0.1	< 0.001	< 0.05	0.9	41	0.2	0.1	0.455	0.024	0.08		
282786 Orig	0.3	0.2	1.2	0.2	< 0.1	0.2	< 0.001	0.21	3.7	25	0.2	0.1	0.280	0.016	0.43		
282786 Dup	0.2	0.2	1.3	0.2	< 0.1	0.2	< 0.001	0.17	3.7	25	0.2	0.1	0.276	0.016	0.44		
282805 Split Orig PREP DUP	0.2	0.2	1.6	0.2	< 0.1	< 0.1	< 0.001	0.17	31.4	43	0.3	0.1	0.227	0.024	0.35		
282805 Split PREP DUP	0.3	0.2	1.6	0.2	< 0.1	< 0.1	< 0.001	0.18	35.4	42	0.2	0.1	0.229	0.024	0.33		
282816 Orig	0.1	0.3	1.6	0.2	< 0.1	< 0.1	< 0.001	0.08	9.8	41	0.2	0.1	0.192	0.023	0.20		
282816 Dup	0.1	0.3	1.6	0.2	< 0.1	< 0.1	0.001	0.08	9.7	40	0.2	0.1	0.220	0.022	0.20		
282826 Orig	0.2	0.2	1.2	0.2	< 0.1	< 0.1	< 0.001	0.09	3.1	36	0.4	0.1	0.208	0.031	0.20		
282826 Dup	0.2	0.2	1.2	0.2	< 0.1	< 0.1	< 0.001	0.10	3.2	35	0.4	0.1	0.231	0.031	0.20		
282828 Orig	0.4	0.3	1.9	0.3	0.2	0.3	< 0.001	0.09	3.9	32	0.3	0.1	0.667	0.039	0.12		
282828 Dup	0.7	0.3	2.2	0.3	0.1	0.2	0.001	0.09	4.0	37	0.4	0.1	0.546	0.039	0.13		

Analyte Symbol	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S	Cu	Na
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP	4Acid ICPOES	TD-ICP
282853 Orig	0.3	0.2	1.2	0.2	< 0.1	5.8	0.001	0.20	4.2	32	0.3	0.2	0.250	0.022	0.32		
282853 Dup	0.2	0.2	1.2	0.2	< 0.1	4.8	0.001	0.18	3.9	32	0.3	0.1	0.254	0.022	0.32		
282855 Split Orig PREP DUP	0.4	0.1	0.9	0.1	< 0.1	0.1	0.001	0.08	5.0	38	0.3	0.1	0.259	0.022	0.03		
282855 Split PREP DUP	0.3	0.1	0.9	0.1	< 0.1	< 0.1	0.002	0.07	2.6	38	0.3	0.1	0.230	0.022	0.03		
282876 Orig																	3.63
282876 Dup																	3.54
282879 Split Orig PREP DUP	0.1	0.3	2.1	0.3	< 0.1	< 0.1	0.001	< 0.05	1.6	40	0.5	0.1	0.270	0.040	0.16		
282879 Split PREP DUP	0.1	0.3	2.1	0.3	< 0.1	< 0.1	0.006	< 0.05	1.8	41	0.5	2.5	0.180	0.041	0.16		
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1	< 0.001	< 0.05	0.6	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01		
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01		
Method Blank	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	0.01		
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.001	< 0.05	5.9	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01		
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01		
Method Blank	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1	0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01		
Method Blank										< 1			< 0.0005	< 0.001	< 0.01		
Method Blank																< 0.001	< 0.01

Quality Analysis ... *Innovative Technologies*

Date Submitted: 04-May-17
Invoice No.: A17-04363-Au
Invoice Date: 23-May-17
Your Reference: Trelawney Augen Acquisition Corp (622)- W

Trelawney Mining and Exploration
3 Mesomikenda Lake Road
PO Box 100
Gogama ON P0M 1W0
Canada

ATTN: Alan Smith

CERTIFICATE OF ANALYSIS

110 Rock samples were submitted for analysis.

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

REPORT **A17-04363-Au**

Notes:

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

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
1752 Riverside Drive, Timmins, Ontario, Canada, P4R 1N1
TELEPHONE +705 264-0123 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Timmins@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au	Au
Unit Symbol	ppm	g/tonne
Lower Limit	0.005	0.02
Method Code	FA-AA	FA-GRA
282401	< 0.005	
282402	0.020	
282403	< 0.005	
282404	< 0.005	
282405	< 0.005	
282406	< 0.005	
282407	0.011	
282408	< 0.005	
282409	< 0.005	
282410	< 0.005	
282411	< 0.005	
282412	> 5.000	9.16
282413	0.007	
282414	0.006	
282415	< 0.005	
282416	< 0.005	
282417	< 0.005	
282418	< 0.005	
282419	< 0.005	
282420	< 0.005	
282421	0.005	
282422	< 0.005	
282423	< 0.005	
282424	< 0.005	
282425	< 0.005	
282426	< 0.005	
282427	< 0.005	
282428	< 0.005	
282429	< 0.005	
282430	< 0.005	
282431	< 0.005	
282432	0.008	
282433	0.008	
282434	< 0.005	
282435	< 0.005	
282436	2.160	
282437	0.006	
282438	< 0.005	
282439	< 0.005	
282440	< 0.005	
282441	< 0.005	

Analyte Symbol	Au	Au
Unit Symbol	ppm	g/tonne
Lower Limit	0.005	0.02
Method Code	FA-AA	FA-GRA
282442	0.010	
282443	0.013	
282444	0.006	
282445	0.005	
282446	0.017	
282447	0.005	
282448	< 0.005	
282449	< 0.005	
282450	< 0.005	
282451	< 0.005	
282452	0.021	
282453	0.019	
282454	0.054	
282455	0.009	
282456	1.587	
282457	0.009	
282458	0.071	
282459	< 0.005	
282460	0.239	
282461	0.008	
282462	0.009	
282463	< 0.005	
282464	< 0.005	
282465	< 0.005	
282466	< 0.005	
282467	< 0.005	
282468	< 0.005	
282469	< 0.005	
282470	< 0.005	
282471	0.019	
282472	< 0.005	
282473	< 0.005	
282474	< 0.005	
282475	< 0.005	
282476	0.008	
282477	0.010	
282478	0.005	
282479	0.007	
282480	0.006	
282481	0.010	
282482	0.007	
282483	0.007	

Analyte Symbol	Au	Au
Unit Symbol	ppm	g/tonne
Lower Limit	0.005	0.02
Method Code	FA-AA	FA-GRA
282484	1.579	
282485	0.145	
282486	0.007	
282487	0.007	
282488	0.008	
282489	0.008	
282490	0.009	
282491	0.009	
282492	0.018	
282493	0.013	
282494	0.009	
282495	< 0.005	
282496	< 0.005	
282497	< 0.005	
282498	< 0.005	
282499	< 0.005	
282500	0.016	
282501	< 0.005	
282502	< 0.005	
282503	< 0.005	
282504	< 0.005	
282505	< 0.005	
282506	0.005	
282507	< 0.005	
282508	< 0.005	
282509	< 0.005	
282510	< 0.005	

Analyte Symbol	Au	Au
Unit Symbol	ppm	g/tonne
Lower Limit	0.005	0.02
Method Code	FA-AA	FA-GRA
OXN117 Meas		7.31
OXN117 Cert		7.679
OxP116 Meas		14.8
OxP116 Cert		14.92
OREAS 251 Meas	0.535	
OREAS 251 Cert	0.504	
OREAS 251 Meas	0.504	
OREAS 251 Cert	0.504	
OREAS 251 Meas	0.485	
OREAS 251 Cert	0.504	
OREAS 251 Meas	0.487	
OREAS 251 Cert	0.504	
OREAS 203 Meas	0.900	
OREAS 203 Cert	0.871	
OREAS 203 Meas	0.900	
OREAS 203 Cert	0.871	
OREAS 203 Meas	0.820	
OREAS 203 Cert	0.871	
OREAS 203 Meas	0.854	
OREAS 203 Cert	0.871	
282410 Orig	< 0.005	
282410 Dup	< 0.005	
282420 Orig	< 0.005	
282420 Dup	< 0.005	
282430 Orig	< 0.005	
282430 Dup	< 0.005	
282445 Orig	0.005	
282445 Dup	0.005	
282455 Orig	0.009	
282455 Dup	0.009	
282465 Orig	< 0.005	
282465 Dup	< 0.005	
282479 Orig	0.007	
282479 Dup	0.007	
282489 Orig	0.008	
282489 Dup	0.008	
282499 Orig	< 0.005	
282499 Dup	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	

Analyte Symbol	Au	Au
Unit Symbol	ppm	g/tonne
Lower Limit	0.005	0.02
Method Code	FA-AA	FA-GRA
Method Blank	< 0.005	
Method Blank	0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank		< 0.02
Method Blank		< 0.02

Quality Analysis ... *Innovative Technologies*

Date Submitted: 04-May-17
Invoice No.: A17-04363-TD
Invoice Date: 06-Jun-17
Your Reference: Trelawney Augen Acquisition Corp (622)- W

IAMGOLD Corporation, Cote Gold Division
3 Mesomikenda Lake Road
PO Box 100
Gogama ON P0M 1W0
Canada

ATTN: Alan Smith

CERTIFICATE OF ANALYSIS

110 Rock samples were submitted for analysis.

The following analytical package(s) were requested: Code UT-6 Total Digestion ICP & ICP/MS

REPORT **A17-04363-TD**

Notes:

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control

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

Analyte Symbol	Al	Na	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu
Unit Symbol	%	%	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05
Method Code	TD-ICP	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
282401		4.22	5.3	> 3.00	0.39	5.85	0.69	0.89	< 0.1	14	20.3	260	2.76	5.1	20	6.2	1.6	2.0	0.6	< 0.05	0.24	3.0	0.58
282402		4.44	4.7	> 3.00	0.49	4.82	0.33	1.76	< 0.1	12	28.0	368	2.43	4.8	20	7.8	1.5	1.5	0.5	< 0.05	0.10	20.2	0.53
282403			36.6	1.21	4.68	5.49	0.93	5.89	< 0.1	136	635	1120	5.89	3.2	60	119	1.4	2.6	0.6	< 0.05	5.89	34.8	1.17
282404			38.4	0.52	5.35	4.93	1.24	5.98	< 0.1	131	739	1120	6.26	2.8	30	151	1.2	2.4	0.5	< 0.05	6.09	39.3	1.03
282405			44.9	0.75	5.00	5.51	1.23	5.47	< 0.1	125	654	1040	6.35	3.4	20	127	1.5	1.9	0.6	< 0.05	1.84	32.0	1.38
282406			47.2	0.29	5.85	5.17	1.23	7.15	< 0.1	120	815	1360	6.14	2.8	20	183	1.3	2.0	0.5	< 0.05	3.82	40.8	1.00
282407		4.31	14.1	> 3.00	1.69	7.26	0.53	1.41	< 0.1	31	47.3	448	6.14	3.8	20	15.0	2.0	1.7	0.7	< 0.05	0.41	22.7	0.66
282408		3.70	6.1	> 3.00	0.44	6.80	1.04	0.94	< 0.1	10	26.3	334	3.76	5.1	20	5.8	2.6	1.7	0.9	< 0.05	0.34	6.9	0.90
282409		3.10	5.6	> 3.00	0.31	5.50	1.05	1.33	< 0.1	10	25.2	372	2.85	4.9	< 10	4.2	2.6	1.6	1.0	< 0.05	0.36	3.9	0.82
282410			5.2	2.90	0.30	5.56	1.24	1.37	< 0.1	10	21.1	373	2.95	4.5	20	4.3	2.3	1.6	0.8	< 0.05	0.37	4.4	0.77
282411			7.9	2.57	0.53	6.16	1.09	1.45	< 0.1	20	32.4	422	3.14	4.7	10	8.2	1.8	1.7	0.7	< 0.05	0.41	5.6	0.74
282412			38.3	0.27	0.55	3.57	1.07	9.13	0.4	68	17.7	724	2.21	1.2	190	9.2	0.7	0.7	0.3	8.94	5.29	8.2	0.49
282413			28.7	2.07	3.62	6.50	0.08	6.12	< 0.1	185	170	1540	8.67	0.9	40	96.7	1.5	0.6	0.5	< 0.05	0.06	43.4	0.44
282414		4.07	19.8	> 3.00	2.23	7.36	0.60	4.26	< 0.1	144	56.4	916	5.62	4.1	30	25.9	2.0	1.5	0.8	< 0.05	1.44	24.0	1.75
282415		3.89	22.3	> 3.00	2.70	6.97	0.81	5.47	0.1	178	73.1	1090	6.55	3.6	20	24.3	1.9	1.8	0.8	< 0.05	2.93	29.9	2.26
282416		3.33	24.6	> 3.00	3.35	5.98	1.08	5.96	0.1	180	138	1220	6.40	3.2	20	39.9	1.6	1.6	0.7	< 0.05	3.02	33.2	1.98
282417			28.3	2.76	3.74	6.97	1.12	6.12	< 0.1	189	168	1170	6.70	3.3	30	51.0	1.7	1.6	0.7	< 0.05	4.12	34.7	2.01
282418			29.4	2.85	3.88	6.81	1.07	6.45	< 0.1	194	158	1250	7.09	3.5	10	52.3	1.7	1.8	0.7	< 0.05	4.21	37.1	2.08
282419		3.07	32.1	> 3.00	3.69	7.24	0.72	6.31	< 0.1	170	77.3	1200	6.87	3.7	20	43.0	1.9	1.5	0.8	< 0.05	0.93	34.4	2.12
282420		3.99	10.1	> 3.00	1.08	6.85	0.43	2.94	< 0.1	39	21.9	516	3.06	4.4	20	10.0	1.8	1.3	0.7	< 0.05	0.13	11.9	1.35
282421			27.6	1.86	3.87	6.49	0.06	5.62	< 0.1	141	136	1260	9.24	0.5	30	98.3	1.4	0.5	0.5	< 0.05	< 0.05	48.4	0.64
282422		3.46	5.7	> 3.00	0.39	6.13	1.16	1.16	< 0.1	21	20.0	211	2.85	5.0	20	4.4	1.7	1.5	0.6	< 0.05	0.32	2.7	0.70
282423			2.6	0.47	0.95	1.93	0.34	3.13	< 0.1	16	25.2	880	2.75	0.6	20	6.5	1.2	0.5	0.4	< 0.05	0.10	5.1	0.42
282424			22.4	2.99	1.71	8.95	1.59	4.90	< 0.1	77	23.6	965	6.42	2.7	20	15.2	4.0	2.9	1.5	< 0.05	1.28	22.4	1.67
282425			19.2	2.85	2.55	7.03	1.19	5.90	< 0.1	165	33.3	1420	8.22	3.5	10	25.1	2.1	1.9	0.8	< 0.05	0.49	25.1	2.03
282426		3.37	4.3	> 3.00	0.39	4.16	0.66	1.76	< 0.1	14	25.2	509	2.99	4.2	10	3.6	1.2	1.4	0.4	< 0.05	0.32	4.3	0.61
282427		3.33	5.8	> 3.00	0.27	6.22	0.89	1.92	< 0.1	11	21.5	291	2.89	4.5	< 10	4.2	1.6	1.6	0.6	< 0.05	0.35	3.7	0.69
282428		3.14	8.1	> 3.00	0.31	6.67	1.18	1.30	< 0.1	11	22.9	238	2.70	4.8	50	4.0	1.9	1.4	0.7	< 0.05	0.33	5.1	0.87
282429			4.0	0.03	0.24	0.75	0.16	0.78	< 0.1	< 1	36.1	219	1.75	0.6	30	3.4	0.4	0.1	0.1	< 0.05	0.08	1.5	0.09
282430			5.4	2.74	0.24	5.08	1.06	1.90	< 0.1	12	21.2	286	1.94	4.6	30	4.2	1.3	1.5	0.5	< 0.05	0.39	4.0	0.46
282431		3.31	6.4	> 3.00	0.45	6.15	0.94	1.19	< 0.1	12	21.2	294	2.48	4.8	20	4.0	1.7	1.5	0.7	< 0.05	0.39	4.4	0.72
282432		3.56	5.6	> 3.00	0.51	5.73	1.11	1.69	< 0.1	21	19.9	497	3.01	4.6	10	8.8	1.8	1.1	0.7	< 0.05	0.35	34.8	0.72
282433			22.4	1.20	2.63	7.02	1.89	4.47	< 0.1	69	18.3	1400	9.58	2.3	20	26.5	3.0	1.7	1.1	< 0.05	0.56	21.6	1.23
282434			29.5	0.41	2.67	7.18	2.20	4.13	< 0.1	57	21.0	979	9.08	2.1	20	37.9	3.7	1.9	1.3	< 0.05	0.65	21.2	1.34
282435			7.0	2.92	0.52	5.89	1.19	1.65	< 0.1	15	19.9	366	2.58	4.6	< 10	5.3	1.7	1.3	0.6	< 0.05	0.38	6.6	0.73
282436			8.8	1.44	3.01	5.55	0.60	4.97	0.2	125	190	3740	10.8	2.4	20	128	2.3	0.9	0.9	0.19	3.80	36.6	1.59
282437			6.6	2.92	0.77	6.23	1.32	1.63	< 0.1	27	19.3	405	3.03	4.6	20	6.0	2.1	1.8	0.8	< 0.05	0.49	6.3	1.07
282438		3.91	19.0	> 3.00	2.36	7.39	1.04	5.11	< 0.1	177	13.8	1090	6.14	3.9	< 10	7.3	1.9	2.0	0.8	< 0.05	0.67	32.2	2.19
282439		3.43	6.9	> 3.00	0.45	6.05	1.24	1.39	< 0.1	13	25.4	241	2.52	4.5	< 10	4.1	2.0	1.4	0.7	< 0.05	0.43	2.9	0.91
282440			16.6	1.02	1.31	7.21	2.06	0.87	< 0.1	11	23.4	221	3.27	4.4	20	7.7	2.0	2.0	0.7	< 0.05	0.58	6.6	0.83
282441			13.2	2.35	1.08	6.46	1.35	1.37	< 0.1	33	33.9	228	3.22	7.0	40	29.9	2.7	1.1	0.9	< 0.05	0.30	11.4	0.68
282442			36.2	0.20	3.23	7.03	1.85	5.39	< 0.1	156	109	787	8.32	2.8	20	135	2.5	1.1	0.9	< 0.05	0.59	34.8	0.77

Analyte Symbol	Al	Na	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu
Unit Symbol	%	%	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05
Method Code	TD-ICP	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
282443			34.9	0.52	2.62	6.76	1.83	6.17	0.1	81	95.1	929	6.50	2.0	20	119	2.0	1.1	0.7	< 0.05	0.66	45.7	0.77
282444			31.8	0.67	2.99	6.06	0.96	5.71	< 0.1	160	128	1140	7.61	2.1	20	144	1.5	0.9	0.5	< 0.05	0.44	42.2	0.56
282445			31.9	1.02	3.95	7.09	1.06	4.13	< 0.1	152	126	1040	8.42	2.5	20	143	1.4	0.7	0.5	< 0.05	0.33	41.4	0.63
282446			24.1	1.22	3.42	7.15	1.10	5.04	< 0.1	122	115	1100	7.27	2.0	20	133	1.5	0.9	0.5	< 0.05	0.43	51.7	0.63
282447			39.5	0.04	4.85	7.16	1.43	3.67	< 0.1	155	115	797	9.24	2.2	< 10	144	1.5	1.0	0.6	< 0.05	0.36	36.6	0.57
282448	9.99		23.3	2.84	1.83	> 10.0	1.81	5.10	< 0.1	93	24.1	1000	6.22	2.8	< 10	17.7	4.4	3.0	1.7	< 0.05	1.43	23.3	1.85
282449			12.6	2.71	0.93	6.96	1.38	1.36	< 0.1	12	15.7	231	2.71	4.9	10	6.2	1.9	1.6	0.7	< 0.05	0.34	7.2	0.89
282450			11.1	2.92	0.95	6.60	1.38	1.28	< 0.1	9	87.3	225	2.62	4.5	50	4.5	1.9	1.4	0.7	< 0.05	0.32	4.9	0.99
282451			23.1	1.26	2.48	5.51	1.21	4.36	< 0.1	68	215	673	4.44	3.5	< 10	78.2	2.1	1.2	0.8	< 0.05	0.33	15.8	0.94
282452			21.1	0.19	2.18	6.04	2.32	1.25	< 0.1	14	22.1	351	4.29	4.3	< 10	9.7	1.6	2.0	0.6	< 0.05	0.46	12.6	0.75
282453			13.2	1.86	1.17	6.24	1.50	0.76	< 0.1	12	21.0	212	3.33	4.8	< 10	8.8	1.8	1.6	0.7	< 0.05	0.37	11.0	0.83
282454			13.9	0.57	1.32	6.63	1.15	0.33	0.3	20	29.0	168	4.27	3.4	< 10	8.8	1.4	1.6	0.5	0.51	0.39	10.9	0.73
282455			13.2	2.10	1.05	6.89	1.24	0.27	< 0.1	21	24.7	143	3.26	4.9	< 10	9.9	1.8	2.1	0.6	0.50	0.38	7.2	0.77
282456			19.5	0.24	2.09	4.30	0.88	5.25	0.2	93	395	814	7.15	2.4	10	73.6	2.2	1.1	0.9	6.25	0.23	23.1	1.22
282457			12.2	0.43	1.47	2.85	0.64	3.88	< 0.1	41	211	744	3.65	0.2	50	24.1	1.6	0.9	0.6	< 0.05	0.24	6.8	0.55
282458			8.0	1.18	1.08	2.94	0.52	6.42	< 0.1	11	26.0	1060	2.56	2.6	30	2.8	2.9	1.4	1.1	< 0.05	0.22	3.8	0.77
282459		4.01	5.7	> 3.00	0.46	6.05	0.76	1.27	< 0.1	11	16.5	242	1.93	4.9	20	7.5	2.9	1.6	1.0	< 0.05	0.23	5.6	0.83
282460			32.5	1.96	1.51	7.06	3.25	2.83	< 0.1	99	89.9	562	4.63	3.0	20	44.8	2.6	3.1	1.0	0.71	11.3	16.7	1.22
282461		3.96	5.1	> 3.00	0.37	5.44	0.93	0.98	< 0.1	10	19.2	203	2.08	4.6	10	8.7	2.4	1.6	0.9	< 0.05	0.28	12.3	0.78
282462		3.60	5.3	> 3.00	0.34	4.56	0.99	1.40	< 0.1	12	27.6	276	2.90	4.3	< 10	4.3	2.7	1.6	1.0	< 0.05	0.29	4.8	0.68
282463		3.90	5.1	> 3.00	0.37	4.87	0.84	1.58	< 0.1	10	18.8	304	2.54	4.5	< 10	4.4	2.5	1.4	0.9	< 0.05	0.29	5.0	0.61
282464		3.51	10.0	> 3.00	0.76	5.35	0.97	1.18	< 0.1	15	26.0	259	2.53	4.4	10	10.0	3.1	1.7	1.1	< 0.05	0.30	6.5	0.76
282465			47.1	0.93	2.64	5.89	0.81	1.94	< 0.1	84	75.9	745	7.80	3.0	< 10	53.7	3.2	1.5	1.1	< 0.05	0.62	18.8	0.61
282466		3.40	10.9	> 3.00	0.65	6.61	1.02	1.15	< 0.1	13	37.4	243	2.75	5.1	50	5.9	3.4	1.8	1.2	< 0.05	0.33	5.2	0.86
282467		3.74	6.4	> 3.00	0.50	6.23	0.92	1.25	< 0.1	12	20.5	302	3.23	4.7	30	13.9	3.0	1.4	1.1	< 0.05	0.25	11.0	0.84
282468		3.84	6.8	> 3.00	0.59	6.34	0.66	1.68	< 0.1	12	24.2	353	2.92	4.8	20	4.1	3.6	1.4	1.4	< 0.05	0.21	5.6	1.01
282469		3.53	14.7	> 3.00	1.29	6.86	0.73	1.65	< 0.1	26	101	580	3.95	4.5	10	34.7	3.8	1.5	1.3	< 0.05	0.38	8.8	1.02
282470		3.49	24.8	> 3.00	1.87	6.32	0.34	2.81	< 0.1	35	90.9	430	3.31	4.2	10	37.6	2.3	1.8	0.8	< 0.05	0.28	14.0	0.93
282471		3.28	11.8	> 3.00	0.84	6.08	0.90	0.82	< 0.1	13	21.1	205	3.34	4.4	< 10	6.3	2.0	1.6	0.7	< 0.05	0.37	23.4	0.72
282472		2.96	21.9	> 3.00	1.82	9.71	2.04	5.24	< 0.1	114	28.1	1030	6.32	3.5	< 10	15.8	4.3	3.0	1.6	< 0.05	1.27	22.8	1.86
282473			18.8	2.37	1.22	6.68	1.68	1.47	< 0.1	13	26.9	364	3.52	4.6	< 10	4.1	2.3	1.8	0.9	< 0.05	0.54	5.3	1.00
282474			15.4	1.17	0.99	7.25	1.29	0.52	< 0.1	13	20.6	148	2.70	5.5	< 10	4.2	3.4	2.3	1.3	< 0.05	0.63	3.8	1.23
282475		3.87	6.5	> 3.00	0.57	5.46	0.64	1.77	< 0.1	13	17.5	216	2.48	4.7	< 10	4.7	2.5	1.3	0.9	< 0.05	0.24	3.5	0.73
282476			30.4	1.37	4.81	4.80	0.67	7.98	< 0.1	157	366	1290	6.14	2.9	20	106	1.9	1.9	0.8	< 0.05	1.87	38.0	1.71
282477		3.52	9.1	> 3.00	1.60	5.76	0.76	2.47	< 0.1	91	137	456	5.31	4.3	< 10	31.4	1.9	2.2	0.7	< 0.05	0.73	116	1.35
282478			38.1	0.66	5.82	4.50	0.63	8.80	< 0.1	161	464	1280	6.27	2.6	30	157	1.8	2.0	0.7	< 0.05	1.84	42.6	1.57
282479			43.2	0.28	3.97	3.87	0.22	6.71	< 0.1	104	279	1190	6.18	1.9	10	84.0	2.5	1.0	1.0	< 0.05	0.80	22.8	0.94
282480		4.45	5.5	> 3.00	0.46	6.49	0.69	0.89	< 0.1	18	28.6	202	2.74	4.8	10	8.9	3.0	1.9	1.1	< 0.05	0.22	9.8	0.85
282481		3.58	5.7	> 3.00	0.32	5.92	1.15	1.05	< 0.1	16	23.8	181	2.94	5.0	10	5.8	3.6	1.7	1.3	< 0.05	0.26	3.3	0.94
282482		3.63	5.1	> 3.00	0.17	4.50	0.66	0.49	< 0.1	21	21.8	130	2.35	5.3	< 10	5.3	1.7	1.8	0.6	< 0.05	0.25	1.4	0.85
282483		3.83	4.8	> 3.00	0.34	6.33	0.91	1.16	< 0.1	14	20.8	233	2.71	4.7	10	5.4	3.2	1.8	1.2	< 0.05	0.28	4.8	1.09
282484			24.3	2.03	1.73	6.38	1.53	2.92	0.2	150	86.8	534	7.47	2.3	30	38.7	1.8	1.7	0.7	3.04	4.78	21.7	0.84

Analyte Symbol	Al	Na	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu
Unit Symbol	%	%	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05
Method Code	TD-ICP	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
282485		3.39	10.3	> 3.00	0.95	5.90	0.81	2.14	< 0.1	34	27.7	462	3.11	4.4	< 10	10.3	3.2	1.7	1.1	< 0.05	0.33	4.4	0.76
282486			50.7	0.21	3.92	7.40	2.99	4.70	< 0.1	84	132	1870	8.91	1.2	50	97.1	3.4	2.5	1.3	< 0.05	1.96	30.1	1.13
282487			71.7	0.09	5.03	9.45	3.51	3.71	< 0.1	137	165	1990	10.6	1.6	20	108	4.0	2.8	1.5	0.62	2.20	46.1	1.38
282488			24.5	0.18	1.97	4.31	1.60	3.56	< 0.1	61	71.1	987	4.61	2.1	10	32.3	2.3	1.5	0.9	0.11	0.75	4.6	0.70
282489			12.7	0.06	0.85	3.47	1.64	0.76	< 0.1	46	32.0	217	2.18	2.6	< 10	13.4	1.3	1.1	0.5	< 0.05	0.40	1.9	0.33
282490			19.7	0.07	1.78	3.39	0.90	1.98	< 0.1	32	97.0	512	4.36	1.4	< 10	33.7	2.6	0.8	1.0	< 0.05	0.32	4.5	0.69
282491			13.1	0.06	0.87	1.47	0.28	4.01	< 0.1	21	58.7	538	2.42	0.9	< 10	11.5	2.2	0.5	0.8	0.25	0.11	2.3	0.27
282492		3.48	10.5	> 3.00	0.65	6.02	1.09	2.45	< 0.1	21	18.2	322	2.01	4.5	< 10	6.5	2.5	1.7	0.9	< 0.05	0.27	1.8	0.80
282493		3.21	14.6	> 3.00	0.91	6.75	0.87	1.65	< 0.1	21	31.3	303	2.52	5.0	< 10	7.1	2.0	1.7	0.7	< 0.05	0.51	3.2	0.91
282494			30.3	0.99	3.45	7.93	1.39	10.3	< 0.1	56	83.7	2020	7.66	3.5	< 10	47.4	4.3	2.2	1.6	< 0.05	0.74	8.5	1.05
282495			37.7	0.04	4.08	6.45	1.91	4.32	< 0.1	68	128	957	9.80	0.3	50	122	3.9	1.7	1.5	< 0.05	0.53	36.7	1.01
282496		3.00	22.5	> 3.00	1.77	9.20	2.02	4.96	0.1	77	22.6	915	6.22	2.6	30	16.6	4.3	3.0	1.7	< 0.05	1.30	22.5	1.72
282497			19.7	0.04	2.32	4.87	1.53	1.60	< 0.1	59	77.8	407	5.61	1.4	20	45.9	2.1	0.9	0.8	< 0.05	0.26	13.4	0.70
282498			13.1	0.09	0.82	7.42	3.32	0.51	< 0.1	13	30.3	137	2.50	4.6	< 10	6.4	2.2	2.0	0.8	0.22	0.53	5.1	1.03
282499			13.3	0.09	0.87	7.31	3.28	1.71	< 0.1	13	27.1	247	2.67	5.0	< 10	4.5	2.8	1.6	1.1	< 0.05	0.53	3.2	1.05
282500			13.8	1.11	1.00	7.17	2.84	2.62	< 0.1	13	26.1	343	2.86	4.8	< 10	4.3	2.5	1.5	1.0	0.38	0.49	3.7	0.94
282501			12.3	2.76	0.77	5.38	1.64	1.87	< 0.1	12	33.0	285	2.79	4.5	< 10	4.9	2.0	1.4	0.7	< 0.05	0.36	4.5	0.62
282502			18.3	1.14	1.13	6.87	2.83	1.97	< 0.1	11	23.2	320	3.39	4.4	< 10	5.6	2.4	2.0	0.9	< 0.05	0.54	5.0	0.84
282503			14.7	0.15	0.93	6.95	3.11	1.21	< 0.1	6	14.3	235	3.09	2.9	< 10	4.3	2.4	2.3	0.9	< 0.05	0.55	4.1	1.00
282504			7.7	0.05	0.40	4.27	1.56	1.82	< 0.1	7	19.4	318	1.72	3.2	50	2.1	1.7	1.5	0.6	< 0.05	0.38	1.6	0.64
282505		3.11	6.8	> 3.00	0.38	6.78	1.18	1.60	< 0.1	11	18.5	340	2.29	5.0	30	3.7	2.1	1.3	0.8	< 0.05	0.39	3.6	0.90
282506		3.52	6.8	> 3.00	0.30	6.75	1.14	1.41	< 0.1	9	16.8	302	2.21	4.6	20	3.4	2.1	1.2	0.8	< 0.05	0.33	4.3	0.84
282507			9.4	2.94	0.52	6.02	1.13	1.46	< 0.1	11	20.8	395	2.81	4.5	10	4.7	2.4	1.4	0.9	< 0.05	0.39	4.3	0.69
282508			9.3	2.42	0.46	6.76	1.62	0.93	< 0.1	11	17.3	392	2.88	4.9	< 10	4.1	3.9	1.8	1.4	< 0.05	0.47	4.0	0.96
282509		3.50	5.1	> 3.00	0.30	5.49	1.26	1.57	< 0.1	10	20.8	473	2.80	4.6	< 10	5.2	3.2	1.5	1.1	< 0.05	0.19	5.3	0.80
282510		3.63	5.5	> 3.00	0.29	5.85	1.18	1.45	0.1	11	24.9	433	2.86	4.6	< 10	3.9	3.2	1.7	1.1	< 0.05	0.18	4.5	0.68

Analyte Symbol	Bi	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.02	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
282401	0.06	< 0.1	22.3	18.5	0.1	15.9	13.7	218	140	12.7	1.28	< 0.1	2	0.1	< 0.1	432	13.9	43.0	3.9	15.9	3.7	3.5	0.5
282402	0.23	< 0.1	21.1	15.0	1.3	6.0	14.0	216	130	12.2	4.44	< 0.1	1	0.2	< 0.1	126	10.0	30.0	2.9	11.9	3.0	2.9	0.4
282403	0.09	0.1	142	14.6	< 0.1	75.7	12.9	305	112	2.8	0.45	< 0.1	3	0.1	< 0.1	420	14.5	34.7	4.5	20.9	4.8	4.2	0.5
282404	0.02	< 0.1	144	12.3	< 0.1	85.8	10.8	268	96	2.4	0.36	< 0.1	1	0.1	< 0.1	387	11.3	27.7	3.7	17.2	4.4	3.8	0.5
282405	0.08	< 0.1	124	16.0	< 0.1	53.8	14.3	219	119	4.8	0.27	< 0.1	1	0.3	< 0.1	282	20.1	46.1	5.9	26.5	6.1	4.9	0.6
282406	0.02	< 0.1	146	12.2	< 0.1	66.7	12.4	256	99	1.8	0.23	< 0.1	< 1	< 0.1	< 0.1	258	12.1	29.3	3.7	17.1	4.1	3.7	0.5
282407	0.65	1.3	49.8	21.9	6.1	14.6	16.7	231	103	10.1	1.57	< 0.1	3	0.2	< 0.1	206	14.7	37.0	4.1	17.6	4.3	3.9	0.5
282408	0.09	< 0.1	14.9	18.4	< 0.1	27.3	20.6	229	139	9.0	1.41	< 0.1	2	< 0.1	< 0.1	554	24.0	62.4	6.6	27.7	6.5	5.7	0.7
282409	0.03	0.2	13.1	18.0	< 0.1	28.9	21.7	192	130	10.8	2.03	< 0.1	2	< 0.1	< 0.1	476	25.8	57.7	6.5	27.2	6.3	5.3	0.8
282410	0.03	< 0.1	12.3	18.1	< 0.1	31.5	19.1	195	123	10.4	1.39	< 0.1	2	< 0.1	< 0.1	538	22.6	52.8	5.9	25.0	5.4	4.8	0.7
282411	0.08	< 0.1	18.8	18.8	< 0.1	32.6	15.6	160	127	9.2	1.60	< 0.1	2	0.1	< 0.1	720	21.1	50.4	5.0	20.8	4.9	4.2	0.6
282412	0.13	0.5	46.6	8.2	23.8	60.2	7.0	220	44	1.5	7.66	< 0.1	< 1	1.9	3.4	211	7.7	16.5	2.0	8.7	1.9	1.6	0.2
282413	0.36	0.3	144	16.4	0.4	1.8	12.7	319	32	0.2	0.96	< 0.1	< 1	< 0.1	< 0.1	26	3.0	7.7	1.1	5.2	1.7	2.2	0.4
282414	0.18	< 0.1	89.2	17.5	< 0.1	27.6	18.4	412	145	6.1	0.62	< 0.1	1	0.1	< 0.1	192	31.7	72.4	9.0	39.4	8.3	5.8	0.7
282415	0.14	< 0.1	106	17.7	< 0.1	45.4	18.3	539	139	4.6	0.40	< 0.1	2	0.2	< 0.1	329	39.0	88.2	11.2	50.7	9.6	6.8	0.8
282416	0.09	< 0.1	111	16.8	< 0.1	35.7	14.4	508	123	5.0	0.26	< 0.1	1	0.3	< 0.1	385	31.3	74.6	9.9	43.3	8.9	6.2	0.7
282417	0.10	< 0.1	130	17.1	< 0.1	61.4	16.1	416	123	3.6	0.21	< 0.1	< 1	0.2	< 0.1	385	34.2	79.2	10.3	45.8	8.6	6.3	0.7
282418	0.10	< 0.1	140	16.8	< 0.1	61.9	16.4	412	126	4.1	0.29	< 0.1	< 1	0.2	< 0.1	393	34.4	81.1	10.5	46.3	9.5	6.4	0.8
282419	0.12	< 0.1	134	17.5	< 0.1	22.7	18.1	357	138	3.8	0.15	< 0.1	1	0.2	< 0.1	138	36.6	84.3	10.7	47.3	9.9	6.7	0.8
282420	0.13	< 0.1	44.7	16.8	< 0.1	10.6	16.3	394	130	9.3	2.06	< 0.1	2	0.1	< 0.1	181	31.6	68.5	8.2	35.0	8.5	6.7	0.8
282421	0.22	0.2	172	15.7	< 0.1	1.1	11.5	384	18	0.2	0.29	< 0.1	< 1	< 0.1	< 0.1	26	3.4	9.0	1.3	6.5	2.0	2.4	0.4
282422	0.03	< 0.1	12.6	17.5	< 0.1	32.8	14.4	110	142	7.2	1.22	< 0.1	2	< 0.1	< 0.1	327	20.6	48.1	5.3	21.3	4.6	3.6	0.5
282423	0.02	< 0.1	25.3	5.0	< 0.1	10.5	10.1	111	21	1.9	1.08	< 0.1	2	0.1	< 0.1	104	6.6	15.4	1.8	7.8	1.9	2.0	0.3
282424	0.04	< 0.1	110	24.1	< 0.1	88.2	34.6	566	99	2.4	0.14	< 0.1	< 1	< 0.1	< 0.1	693	27.6	65.4	8.5	39.7	9.0	8.1	1.2
282425	0.31	< 0.1	82.0	18.3	< 0.1	43.2	19.7	231	128	11.0	0.28	< 0.1	1	0.1	< 0.1	417	43.9	104	12.6	54.2	9.7	7.1	0.8
282426	0.05	< 0.1	12.7	16.6	< 0.1	19.7	10.8	79.0	120	10.9	1.44	< 0.1	2	0.1	< 0.1	236	15.0	37.3	4.0	17.7	4.3	3.4	0.4
282427	0.03	< 0.1	13.2	19.2	< 0.1	29.8	20.1	94.5	131	10.6	1.34	< 0.1	2	< 0.1	< 0.1	331	19.4	48.0	5.1	21.2	5.2	4.1	0.5
282428	0.04	< 0.1	13.0	18.3	< 0.1	37.9	15.9	77.7	134	10.2	1.40	< 0.1	2	< 0.1	< 0.1	349	29.5	64.5	7.1	30.1	6.7	4.9	0.6
282429	0.03	< 0.1	9.9	3.6	0.2	5.8	3.1	10.8	19	1.7	4.25	< 0.1	< 1	0.2	< 0.1	36	1.0	2.2	0.3	1.2	0.4	0.5	0.1
282430	0.05	< 0.1	8.1	18.1	< 0.1	35.4	14.4	41.0	130	9.5	1.62	< 0.1	2	< 0.1	< 0.1	379	11.6	28.6	3.1	13.4	3.1	2.7	0.4
282431	0.05	< 0.1	19.2	18.9	< 0.1	31.9	15.4	96.6	136	7.6	1.31	< 0.1	2	0.1	< 0.1	313	11.9	34.5	4.3	20.7	5.2	4.1	0.5
282432	0.51	0.3	20.5	16.6	17.0	31.5	18.3	112	133	11.9	2.90	< 0.1	2	0.2	< 0.1	262	11.1	31.4	4.2	19.5	5.0	4.2	0.6
282433	0.24	< 0.1	140	19.2	< 0.1	57.1	24.9	86.4	83	0.6	0.06	0.1	4	< 0.1	< 0.1	449	22.8	67.7	9.0	40.6	9.6	7.2	0.9
282434	0.04	< 0.1	145	19.3	< 0.1	66.2	28.2	59.0	71	0.4	0.09	0.1	< 1	< 0.1	< 0.1	494	25.0	70.1	9.1	40.5	9.3	7.6	1.1
282435	0.12	< 0.1	21.4	17.3	< 0.1	38.0	15.8	59.3	135	10.4	1.46	< 0.1	2	< 0.1	< 0.1	339	16.5	43.2	4.9	22.3	5.6	4.3	0.6
282436	0.13	1.8	133	15.9	1060	21.6	21.9	311	109	8.1	1.78	< 0.1	2	0.8	< 0.1	252	22.8	39.0	5.5	25.6	6.3	5.6	0.8
282437	0.06	< 0.1	37.2	18.5	< 0.1	45.2	18.0	161	129	10.5	1.60	< 0.1	2	< 0.1	< 0.1	570	30.7	68.4	7.6	33.6	7.5	5.4	0.7
282438	0.32	< 0.1	88.1	17.8	< 0.1	39.0	18.1	276	149	4.7	0.34	< 0.1	2	0.1	< 0.1	478	35.9	81.2	10.1	46.0	10.0	6.8	0.8
282439	0.04	< 0.1	19.8	18.9	< 0.1	38.3	17.0	150	128	9.4	1.54	< 0.1	2	< 0.1	< 0.1	424	29.1	65.4	7.1	30.0	6.6	5.1	0.8
282440	0.06	< 0.1	37.1	19.6	< 0.1	69.0	17.6	33.2	125	2.3	0.78	< 0.1	2	< 0.1	< 0.1	527	29.2	66.3	7.8	33.8	7.5	5.5	0.6
282441	0.08	< 0.1	35.3	17.5	< 0.1	41.7	21.7	51.5	201	8.9	1.74	< 0.1	3	< 0.1	< 0.1	261	23.2	55.9	5.8	24.9	5.8	4.7	0.7
282442	0.21	< 0.1	88.7	17.7	2.1	56.8	20.6	42.0	87	3.0	0.88	< 0.1	3	< 0.1	< 0.1	367	11.3	25.6	3.0	14.0	3.8	4.4	0.7

Analyte Symbol	Bi	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.02	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
282443	0.31	0.2	96.0	15.2	8.4	57.0	17.0	61.3	61	0.9	1.53	< 0.1	2	< 0.1	< 0.1	346	13.8	30.6	3.6	15.8	4.0	3.7	0.6
282444	0.12	0.3	82.1	15.4	8.3	35.9	11.9	65.4	68	2.8	0.49	< 0.1	2	0.1	< 0.1	304	6.8	15.9	2.0	9.4	2.7	2.5	0.4
282445	0.11	< 0.1	115	16.0	1.2	34.7	11.0	68.2	75	2.2	0.59	< 0.1	2	< 0.1	< 0.1	210	9.0	20.6	2.5	11.7	3.0	2.6	0.4
282446	0.37	0.3	77.1	15.2	19.0	42.9	11.9	80.1	64	0.7	0.18	< 0.1	1	< 0.1	< 0.1	303	8.5	19.6	2.5	11.0	2.8	2.6	0.4
282447	0.09	< 0.1	143	16.5	< 0.1	41.4	13.0	38.5	73	0.6	0.17	< 0.1	< 1	< 0.1	< 0.1	297	7.3	16.8	2.1	9.8	2.6	2.5	0.4
282448	0.03	< 0.1	111	23.6	< 0.1	102	38.5	585	104	3.9	0.18	0.1	< 1	< 0.1	< 0.1	689	30.5	73.6	9.4	44.7	10.6	9.1	1.4
282449	0.07	0.1	29.3	19.2	< 0.1	39.6	16.3	68.7	134	9.6	1.19	< 0.1	3	< 0.1	< 0.1	291	23.8	57.6	6.0	26.0	5.9	5.1	0.6
282450	0.08	< 0.1	27.2	18.6	< 0.1	41.6	17.1	66.5	132	8.4	1.55	< 0.1	3	< 0.1	< 0.1	292	28.9	65.1	7.2	31.2	6.9	5.3	0.6
282451	0.26	< 0.1	60.3	15.4	< 0.1	36.9	17.6	60.1	107	5.7	1.54	< 0.1	2	< 0.1	< 0.1	251	23.0	49.5	5.9	26.8	6.2	5.0	0.6
282452	3.21	< 0.1	51.9	16.5	0.1	64.3	14.2	21.2	120	7.2	1.59	< 0.1	4	0.1	0.1	377	25.3	54.8	6.3	28.2	6.3	4.3	0.5
282453	0.88	0.1	38.4	18.5	0.1	46.1	15.5	49.8	138	9.7	1.42	< 0.1	4	< 0.1	< 0.1	306	21.7	52.1	6.5	28.6	6.8	4.8	0.6
282454	3.12	1.1	74.0	16.9	< 0.1	48.7	12.1	19.3	100	9.2	3.56	0.2	8	< 0.1	0.5	377	26.1	53.3	6.3	27.1	5.7	4.2	0.5
282455	1.58	< 0.1	40.9	17.8	< 0.1	46.4	15.7	29.8	146	11.4	2.90	< 0.1	7	< 0.1	0.5	380	26.6	59.7	7.1	30.1	6.7	4.7	0.6
282456	1.41	3.8	92.4	14.3	2.0	25.0	20.3	51.5	79	5.5	1.54	0.5	4	0.1	< 0.1	193	28.3	62.8	7.6	33.0	7.9	5.9	0.8
282457	0.08	< 0.1	36.9	9.3	< 0.1	17.6	14.3	53.5	33	3.2	1.55	< 0.1	2	< 0.1	< 0.1	140	11.9	27.0	3.1	13.9	3.3	3.1	0.5
282458	0.23	< 0.1	21.0	8.1	< 0.1	15.9	24.8	91.5	72	6.8	2.23	< 0.1	3	0.1	< 0.1	131	16.5	36.5	4.4	19.0	4.5	4.6	0.8
282459	0.12	< 0.1	15.1	16.7	< 0.1	19.6	24.5	92.5	134	8.8	1.76	< 0.1	3	< 0.1	< 0.1	179	21.3	51.0	5.5	23.8	5.6	4.8	0.8
282460	1.76	2.3	74.3	17.5	16.0	177	22.2	318	93	10.2	59.8	0.2	6	0.5	< 0.1	974	30.7	64.2	7.2	29.4	6.6	5.0	0.7
282461	0.13	0.2	13.0	17.7	1.4	21.0	21.7	78.7	124	10.2	1.36	< 0.1	3	< 0.1	< 0.1	204	20.3	48.8	5.0	22.3	4.7	4.6	0.7
282462	0.10	< 0.1	18.4	18.8	< 0.1	19.6	23.7	75.9	116	13.2	1.71	< 0.1	4	0.1	< 0.1	218	17.6	41.3	4.6	19.8	4.6	4.4	0.7
282463	0.05	< 0.1	17.9	18.2	< 0.1	17.9	21.8	83.4	128	10.5	1.32	< 0.1	2	< 0.1	< 0.1	213	15.2	36.1	3.9	16.8	3.9	3.9	0.6
282464	0.13	< 0.1	21.0	18.6	< 0.1	24.0	27.3	60.1	119	7.2	1.61	< 0.1	3	< 0.1	< 0.1	202	20.8	49.7	5.1	21.7	4.7	4.7	0.8
282465	0.48	0.2	66.4	23.5	2.9	33.5	26.7	22.6	85	7.7	1.53	0.1	7	0.1	< 0.1	297	8.4	19.4	2.3	10.2	3.3	4.0	0.8
282466	0.09	< 0.1	22.0	18.2	< 0.1	29.1	27.3	98.7	135	11.3	1.47	< 0.1	3	< 0.1	< 0.1	303	24.6	53.1	6.0	25.4	5.5	5.4	0.9
282467	0.20	< 0.1	23.6	18.5	< 0.1	22.0	25.1	105	130	11.5	1.59	< 0.1	3	< 0.1	< 0.1	250	23.1	51.9	5.9	25.3	6.0	5.2	0.8
282468	0.11	< 0.1	30.9	18.5	< 0.1	14.9	32.2	96.0	131	11.6	1.80	< 0.1	3	< 0.1	< 0.1	181	25.8	59.7	6.5	28.4	7.0	6.0	1.0
282469	0.07	< 0.1	61.6	18.9	< 0.1	19.0	35.1	107	123	9.4	1.20	< 0.1	3	< 0.1	< 0.1	222	25.7	57.8	6.4	28.4	6.4	6.2	1.0
282470	0.15	< 0.1	58.2	15.9	< 0.1	10.8	19.7	103	119	7.3	1.23	< 0.1	2	< 0.1	< 0.1	129	20.4	46.0	5.4	23.9	5.4	4.7	0.7
282471	0.72	0.6	35.7	17.6	1.9	27.1	17.3	81.9	119	11.7	1.52	< 0.1	3	0.1	< 0.1	308	20.3	50.1	4.8	20.9	4.7	4.1	0.6
282472	0.04	< 0.1	104	24.3	< 0.1	100	37.3	598	129	4.3	0.44	0.1	2	< 0.1	< 0.1	716	30.5	73.3	9.5	44.3	10.5	8.4	1.3
282473	0.29	< 0.1	46.1	18.5	< 0.1	48.8	20.5	53.2	124	11.6	1.86	< 0.1	3	< 0.1	< 0.1	541	26.2	58.7	7.0	30.5	7.1	5.9	0.8
282474	0.09	< 0.1	35.0	18.4	0.1	57.6	27.7	39.0	144	11.2	2.12	< 0.1	3	< 0.1	< 0.1	840	36.1	78.1	9.1	37.3	9.0	7.2	1.0
282475	0.07	< 0.1	24.0	16.8	< 0.1	19.3	22.0	113	127	11.1	1.11	< 0.1	2	< 0.1	< 0.1	214	20.6	48.4	5.0	21.4	5.4	4.6	0.7
282476	0.16	< 0.1	153	13.5	< 0.1	38.5	18.2	243	106	2.3	0.28	< 0.1	1	0.1	< 0.1	101	25.4	58.8	7.4	32.2	7.7	5.7	0.7
282477	0.26	0.6	55.9	16.4	2.4	27.1	17.0	176	126	6.2	0.68	< 0.1	2	0.1	< 0.1	268	23.7	56.8	6.9	29.5	7.2	5.7	0.7
282478	0.22	< 0.1	180	12.6	< 0.1	39.0	16.7	171	93	2.5	0.31	< 0.1	1	< 0.1	< 0.1	87	22.4	52.7	6.9	30.4	7.3	5.6	0.7
282479	0.03	< 0.1	165	12.9	< 0.1	12.8	22.9	159	69	3.6	0.83	< 0.1	1	< 0.1	< 0.1	44	13.5	32.2	4.1	18.3	4.9	4.7	0.7
282480	0.14	< 0.1	21.5	14.9	< 0.1	17.8	25.2	136	129	10.4	1.57	< 0.1	2	< 0.1	< 0.1	222	18.7	48.7	5.2	21.4	5.5	5.0	0.8
282481	0.06	< 0.1	15.5	17.3	< 0.1	25.9	30.3	142	139	9.8	1.34	< 0.1	2	< 0.1	< 0.1	377	23.3	53.3	6.3	25.8	6.5	6.1	0.9
282482	0.03	< 0.1	11.9	17.9	< 0.1	16.0	15.7	87.8	149	8.3	1.36	< 0.1	3	< 0.1	< 0.1	346	17.4	47.6	4.7	20.3	5.5	4.3	0.6
282483	0.07	< 0.1	18.8	17.5	< 0.1	25.7	25.8	139	131	10.9	1.58	< 0.1	3	< 0.1	< 0.1	315	26.0	59.7	6.9	28.4	7.0	6.1	0.9
282484	5.45	11.7	114	14.7	9.0	75.5	15.6	393	102	9.8	421	0.7	12	1.1	0.3	644	18.2	37.6	4.3	16.8	3.9	3.3	0.5

Analyte Symbol	Bi	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.02	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
282485	0.04	< 0.1	34.3	17.5	< 0.1	23.6	26.5	98.6	121	8.6	1.53	< 0.1	3	< 0.1	< 0.1	272	16.6	40.3	4.3	17.7	4.4	4.7	0.8
282486	0.40	< 0.1	125	20.1	< 0.1	85.8	28.3	48.6	39	1.1	0.22	0.1	2	< 0.1	< 0.1	801	14.4	34.3	4.3	19.1	5.6	5.4	0.9
282487	0.23	< 0.1	151	26.0	< 0.1	95.8	33.1	40.5	49	5.6	0.32	0.2	4	< 0.1	< 0.1	868	15.5	36.3	4.5	20.1	5.6	6.0	1.0
282488	0.03	< 0.1	55.3	12.1	< 0.1	42.5	19.7	50.3	65	0.7	0.40	< 0.1	1	< 0.1	< 0.1	399	9.5	22.5	2.9	12.7	3.7	3.7	0.6
282489	0.04	< 0.1	25.7	11.1	< 0.1	40.2	10.8	13.5	74	5.5	1.40	< 0.1	3	0.1	< 0.1	390	4.9	12.9	1.7	7.1	1.9	1.8	0.3
282490	0.04	< 0.1	57.2	11.2	< 0.1	22.3	22.7	24.8	44	1.6	1.33	< 0.1	1	< 0.1	< 0.1	229	5.0	11.7	1.5	7.1	2.3	3.3	0.6
282491	0.04	< 0.1	28.2	5.3	< 0.1	7.8	18.4	27.2	29	3.4	6.00	< 0.1	1	0.1	< 0.1	74	3.2	7.1	0.8	3.6	1.3	1.8	0.4
282492	0.03	< 0.1	16.5	15.3	< 0.1	28.2	21.4	95.3	128	5.5	2.06	< 0.1	2	< 0.1	< 0.1	257	15.7	40.6	4.3	18.5	5.0	4.5	0.7
282493	0.04	< 0.1	19.2	17.0	< 0.1	30.7	16.6	88.3	140	9.1	1.75	< 0.1	3	< 0.1	< 0.1	280	21.1	54.6	5.7	24.1	6.3	5.1	0.6
282494	0.05	< 0.1	84.4	21.2	< 0.1	54.1	32.8	123	102	1.1	0.36	0.1	< 1	< 0.1	< 0.1	515	12.9	30.5	3.7	16.5	5.2	5.9	1.0
282495	0.11	< 0.1	159	18.2	0.3	48.6	33.6	35.2	11	0.1	0.11	0.1	1	< 0.1	< 0.1	412	14.6	32.7	4.1	18.4	5.5	6.0	1.0
282496	0.03	< 0.1	107	21.6	< 0.1	100	35.9	552	98	2.6	0.17	0.1	< 1	< 0.1	< 0.1	684	28.5	70.9	9.1	40.6	10.8	8.7	1.3
282497	0.20	< 0.1	105	13.2	0.6	36.2	17.8	15.8	45	0.6	0.52	< 0.1	3	< 0.1	< 0.1	261	12.4	29.5	3.7	16.4	4.3	3.7	0.6
282498	0.07	< 0.1	38.4	18.2	0.7	72.7	18.4	17.4	129	8.4	1.62	< 0.1	3	< 0.1	< 0.1	591	21.9	55.2	7.1	31.6	7.8	5.3	0.8
282499	0.07	< 0.1	28.7	18.5	< 0.1	70.6	23.3	17.3	141	9.9	2.41	< 0.1	2	< 0.1	< 0.1	507	25.5	60.7	7.7	33.4	8.9	6.4	0.8
282500	0.05	< 0.1	31.9	17.7	< 0.1	66.5	21.1	43.1	133	11.5	1.22	< 0.1	2	0.1	< 0.1	415	19.0	48.9	6.2	28.0	7.4	5.8	0.7
282501	0.08	< 0.1	23.3	17.0	< 0.1	35.4	15.9	46.8	124	11.8	1.99	< 0.1	2	0.1	< 0.1	229	15.4	36.7	4.3	17.5	4.7	3.9	0.5
282502	0.02	< 0.1	31.9	17.5	< 0.1	66.2	23.7	32.3	125	11.6	1.11	< 0.1	2	< 0.1	< 0.1	441	22.7	52.7	6.2	26.5	6.3	5.4	0.7
282503	0.02	< 0.1	33.8	17.0	< 0.1	72.4	20.8	16.9	84	3.0	0.36	< 0.1	1	< 0.1	< 0.1	611	28.4	63.7	7.5	32.0	7.4	5.6	0.7
282504	0.03	< 0.1	17.0	11.7	< 0.1	42.7	14.9	18.2	95	7.6	1.81	< 0.1	2	0.1	< 0.1	379	14.7	34.3	4.1	18.2	4.5	3.5	0.5
282505	0.04	< 0.1	18.3	17.1	< 0.1	32.5	17.1	80.5	139	10.7	1.55	< 0.1	2	< 0.1	< 0.1	324	17.7	46.5	5.5	25.8	6.6	5.4	0.7
282506	0.06	< 0.1	15.6	17.0	< 0.1	28.1	17.6	66.2	129	9.5	1.25	< 0.1	2	0.1	< 0.1	294	16.8	43.2	5.5	25.5	6.2	4.7	0.6
282507	0.03	< 0.1	31.0	16.7	< 0.1	28.8	20.0	36.9	128	10.4	1.47	< 0.1	2	< 0.1	< 0.1	314	17.8	44.2	4.7	20.8	5.1	4.6	0.6
282508	0.03	< 0.1	38.4	18.4	< 0.1	42.5	33.5	56.1	135	10.7	1.59	< 0.1	3	< 0.1	< 0.1	539	24.7	60.7	6.4	28.1	6.7	6.2	1.0
282509	0.04	< 0.1	53.8	17.9	< 0.1	21.8	26.6	105	125	9.8	1.16	< 0.1	2	0.2	< 0.1	312	22.1	52.2	5.4	23.0	5.5	5.3	0.8
282510	0.06	< 0.1	50.2	18.4	< 0.1	18.9	26.6	108	129	10.3	1.31	< 0.1	2	0.1	< 0.1	271	18.1	46.6	4.6	20.4	5.3	5.1	0.7

Analyte Symbol	Dy	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
282401	2.8	6.1	< 0.1	0.2	1.8	0.2	0.9	0.4	< 0.001	< 0.05	4.1	7	3.1	1.2	0.231	0.020	0.02
282402	3.4	397	< 0.1	0.2	1.6	0.2	1.0	0.3	< 0.001	< 0.05	5.1	4	2.4	1.6	0.207	0.019	0.34
282403	2.8	51.2	< 0.1	0.2	1.3	0.2	0.2	0.3	< 0.001	0.60	3.6	22	2.6	3.0	0.447	0.135	0.10
282404	2.4	38.4	0.1	0.2	1.1	0.2	0.1	0.2	< 0.001	0.61	2.4	23	2.2	1.0	0.473	0.135	0.03
282405	3.1	22.4	< 0.1	0.2	1.4	0.2	0.3	2.6	< 0.001	0.33	3.0	26	2.7	0.9	0.494	0.137	0.06
282406	2.6	11.7	< 0.1	0.2	1.2	0.2	< 0.1	0.1	< 0.001	0.40	2.2	21	2.4	0.7	0.368	0.118	< 0.01
282407	3.2	295	< 0.1	0.3	2.3	0.3	0.9	0.4	< 0.001	< 0.05	3.3	9	5.4	1.1	0.380	0.052	0.42
282408	4.6	11.4	< 0.1	0.4	2.6	0.3	0.7	0.3	< 0.001	< 0.05	3.3	9	5.9	1.6	0.285	0.034	0.07
282409	4.5	114	< 0.1	0.4	2.6	0.4	0.7	0.3	< 0.001	0.05	3.2	7	6.3	1.6	0.218	0.019	0.02
282410	4.0	11.4	< 0.1	0.3	2.2	0.3	0.7	0.3	< 0.001	0.06	3.0	7	6.4	1.5	0.221	0.020	0.02
282411	3.4	13.6	< 0.1	0.3	1.8	0.2	0.6	0.3	< 0.001	0.08	2.6	7	4.0	1.3	0.238	0.020	0.05
282412	1.3	74.7	< 0.1	0.1	0.7	0.1	< 0.1	6.3	< 0.001	0.89	16.1	9	1.6	0.5	0.187	0.042	0.70
282413	2.5	121	0.2	0.2	1.7	0.2	< 0.1	< 0.1	0.003	< 0.05	2.2	41	0.2	0.1	0.299	0.026	0.16
282414	3.9	71.1	< 0.1	0.3	1.8	0.3	0.3	0.2	< 0.001	0.13	4.6	18	4.5	0.9	0.456	0.137	0.16
282415	4.1	45.5	< 0.1	0.3	1.7	0.2	0.2	0.2	< 0.001	0.27	5.7	19	3.5	0.9	0.469	0.192	0.18
282416	3.5	50.7	< 0.1	0.2	1.5	0.2	0.2	0.2	< 0.001	0.29	4.6	21	2.0	0.7	0.445	0.180	0.20
282417	3.6	56.4	< 0.1	0.2	1.5	0.2	0.1	0.1	< 0.001	0.37	4.0	23	3.1	0.8	0.413	0.180	0.19
282418	3.7	62.2	< 0.1	0.2	1.6	0.2	0.2	0.2	< 0.001	0.37	4.0	23	3.1	0.8	0.425	0.184	0.21
282419	4.0	40.0	< 0.1	0.3	1.7	0.2	0.2	0.2	< 0.001	0.07	3.5	21	3.3	1.0	0.408	0.179	0.18
282420	4.1	88.6	< 0.1	0.2	1.8	0.3	0.6	0.2	< 0.001	< 0.05	2.9	10	6.5	1.5	0.245	0.036	0.10
282421	2.3	119	0.5	0.2	1.4	0.2	< 0.1	< 0.1	0.001	< 0.05	2.3	40	0.2	0.1	0.264	0.025	0.13
282422	2.7	9.9	< 0.1	0.2	1.9	0.2	0.6	0.3	< 0.001	0.07	2.0	7	4.9	1.3	0.233	0.020	< 0.01
282423	2.0	4.7	0.2	0.2	1.4	0.2	0.1	0.2	< 0.001	< 0.05	1.6	4	3.1	0.4	0.0610	0.014	< 0.01
282424	7.1	21.1	< 0.1	0.6	3.6	0.5	0.1	< 0.1	< 0.001	0.44	12.3	19	3.2	1.3	0.296	0.147	0.13
282425	4.3	32.0	< 0.1	0.3	1.9	0.3	0.4	0.3	< 0.001	0.08	2.6	19	4.8	1.2	0.551	0.198	0.02
282426	2.3	15.9	< 0.1	0.2	1.4	0.2	0.8	0.4	< 0.001	0.05	2.3	4	3.6	0.9	0.136	0.011	< 0.01
282427	3.0	6.3	< 0.1	0.2	1.7	0.2	0.6	0.4	< 0.001	0.06	2.3	7	4.6	1.2	0.224	0.019	< 0.01
282428	3.3	7.8	< 0.1	0.3	2.0	0.3	0.6	0.3	< 0.001	0.09	1.9	7	6.5	1.5	0.219	0.020	0.04
282429	0.6	5.1	0.1	0.1	0.5	0.1	< 0.1	0.1	< 0.001	< 0.05	1.5	1	0.3	0.2	0.0257	< 0.001	< 0.01
282430	2.2	15.2	0.1	0.2	1.5	0.2	0.6	0.4	< 0.001	0.11	1.6	5	3.4	0.8	0.171	0.013	0.04
282431	2.9	14.5	< 0.1	0.2	1.7	0.3	0.6	0.3	< 0.001	0.07	1.9	6	4.8	1.0	0.201	0.012	0.04
282432	3.2	160	< 0.1	0.4	1.9	0.3	1.0	0.3	< 0.001	0.06	2.7	8	5.7	1.1	0.252	0.012	0.54
282433	5.2	112	< 0.1	0.4	3.3	0.4	< 0.1	< 0.1	< 0.001	0.12	2.3	21	2.0	0.8	0.231	0.031	0.02
282434	6.2	37.9	< 0.1	0.5	3.7	0.5	< 0.1	< 0.1	< 0.001	0.15	2.3	23	1.9	0.7	0.367	0.040	0.02
282435	3.0	15.0	< 0.1	0.3	1.8	0.3	0.6	0.6	< 0.001	0.09	1.6	7	5.0	2.5	0.220	0.020	0.12
282436	4.5	114	< 0.1	0.3	2.0	0.3	0.3	0.8	< 0.001	0.06	8.6	17	4.4	1.4	0.683	0.186	1.64
282437	3.8	17.9	< 0.1	0.4	2.2	0.3	0.6	0.4	< 0.001	0.21	2.2	9	6.1	1.5	0.252	0.037	0.06
282438	4.1	48.3	< 0.1	0.3	1.7	0.2	0.2	0.4	< 0.001	0.10	2.9	22	4.9	1.5	0.479	0.201	0.27
282439	3.7	9.4	< 0.1	0.3	2.4	0.3	0.7	0.4	< 0.001	0.09	2.2	7	6.1	1.4	0.224	0.021	0.04
282440	3.5	5.5	< 0.1	0.3	2.1	0.3	0.1	0.1	< 0.001	0.17	2.8	8	7.5	1.7	0.241	0.023	0.01
282441	4.1	12.6	< 0.1	0.4	3.0	0.4	0.7	0.6	< 0.001	0.09	2.7	9	8.3	2.2	0.221	0.012	0.09
282442	4.1	46.9	0.8	0.4	2.9	0.4	0.2	1.0	< 0.001	0.13	3.8	27	2.2	0.6	0.461	0.022	0.11

Analyte Symbol	Dy	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
282443	3.3	134	0.2	0.3	2.2	0.3	< 0.1	0.2	0.001	0.12	1.9	23	3.6	1.0	0.285	0.018	0.14
282444	2.4	89.9	0.1	0.2	1.7	0.2	0.2	0.6	< 0.001	0.11	1.2	26	1.2	0.4	0.518	0.021	0.16
282445	2.2	42.9	0.2	0.2	1.5	0.2	0.2	0.3	< 0.001	0.05	1.2	26	2.0	0.5	0.455	0.019	0.06
282446	2.3	141	0.2	0.2	1.6	0.2	< 0.1	0.1	< 0.001	0.10	1.5	28	1.8	0.5	0.313	0.020	0.20
282447	2.5	65.1	0.4	0.2	1.7	0.2	< 0.1	0.1	< 0.001	0.06	1.1	30	1.4	0.5	0.323	0.021	0.01
282448	8.1	31.6	< 0.1	0.6	4.0	0.5	0.2	< 0.1	< 0.001	0.46	11.9	21	3.5	1.3	0.339	0.155	0.14
282449	3.4	40.3	< 0.1	0.3	1.9	0.3	0.6	0.5	< 0.001	0.07	2.5	8	5.4	1.6	0.211	0.021	0.14
282450	3.4	40.2	< 0.1	0.3	2.0	0.3	0.6	0.4	< 0.001	0.09	2.3	8	6.1	1.4	0.188	0.020	0.10
282451	3.6	26.8	< 0.1	0.3	2.1	0.3	0.4	0.9	< 0.001	0.05	2.1	15	4.1	1.1	0.237	0.064	0.07
282452	2.9	74.0	< 0.1	0.2	1.6	0.2	0.6	1.4	< 0.001	0.13	3.8	7	6.0	8.9	0.149	0.019	0.11
282453	3.2	121	< 0.1	0.3	1.8	0.2	0.4	1.1	< 0.001	0.10	2.3	8	6.4	1.5	0.224	0.022	0.20
282454	2.5	2020	< 0.1	0.2	1.4	0.2	0.7	3.4	< 0.001	0.09	2.4	9	5.7	1.2	0.171	0.018	0.26
282455	3.2	80.4	< 0.1	0.3	1.8	0.2	0.8	2.7	< 0.001	0.10	2.6	8	7.1	1.5	0.212	0.021	0.02
282456	4.2	6070	< 0.1	0.3	2.0	0.2	0.3	1.2	< 0.001	< 0.05	3.9	16	4.6	1.0	0.319	0.088	0.84
282457	2.8	7.5	0.1	0.2	1.7	0.2	< 0.1	0.2	< 0.001	< 0.05	4.5	10	2.8	0.9	0.168	0.058	0.01
282458	5.0	36.7	< 0.1	0.4	3.2	0.4	0.5	0.6	< 0.001	< 0.05	7.1	7	3.3	1.0	0.120	0.010	0.09
282459	4.7	89.9	< 0.1	0.4	3.0	0.4	0.5	0.5	< 0.001	< 0.05	5.4	7	4.6	1.3	0.237	0.021	0.13
282460	4.5	2340	0.3	0.4	2.5	0.3	0.6	1.6	0.001	0.96	21.7	15	15.5	4.5	0.466	0.097	0.37
282461	4.1	95.3	< 0.1	0.4	2.5	0.3	0.6	0.4	< 0.001	< 0.05	2.1	6	4.3	1.0	0.221	0.021	0.19
282462	4.3	22.6	< 0.1	0.4	2.9	0.4	0.9	0.6	< 0.001	< 0.05	2.2	6	3.6	0.9	0.245	0.026	0.10
282463	4.0	17.2	0.2	0.4	2.6	0.3	0.6	0.3	< 0.001	< 0.05	2.0	6	3.0	0.9	0.228	0.020	0.05
282464	5.0	49.3	< 0.1	0.5	3.2	0.4	0.5	0.4	< 0.001	< 0.05	1.7	7	4.2	1.1	0.228	0.021	0.09
282465	5.1	37.0	< 0.1	0.5	3.4	0.5	0.5	1.1	< 0.001	0.07	1.9	16	3.1	0.7	0.328	0.022	0.57
282466	5.4	45.4	< 0.1	0.5	3.4	0.4	0.7	0.5	< 0.001	0.05	2.0	8	6.2	1.6	0.228	0.022	0.10
282467	5.0	30.6	< 0.1	0.4	3.1	0.4	0.9	0.5	< 0.001	< 0.05	2.2	8	5.4	1.4	0.231	0.021	0.37
282468	6.0	25.6	< 0.1	0.5	3.6	0.5	0.8	0.3	< 0.001	< 0.05	2.0	7	5.9	1.4	0.228	0.020	0.12
282469	6.0	8.1	< 0.1	0.5	3.8	0.5	0.7	0.3	< 0.001	< 0.05	2.5	9	5.4	1.5	0.270	0.037	0.03
282470	3.9	22.3	< 0.1	0.3	2.5	0.3	0.5	0.3	< 0.001	< 0.05	2.3	10	6.3	1.5	0.234	0.039	0.11
282471	3.5	35.3	< 0.1	0.3	2.1	0.3	0.9	0.5	< 0.001	< 0.05	2.5	7	4.4	1.5	0.213	0.019	1.13
282472	7.8	28.5	0.1	0.6	3.9	0.5	0.1	< 0.1	< 0.001	0.44	12.5	21	3.6	1.4	0.524	0.156	0.15
282473	4.4	10.6	< 0.1	0.3	2.3	0.3	0.8	0.6	< 0.001	0.08	1.4	8	6.4	1.5	0.217	0.020	0.11
282474	5.8	4.2	< 0.1	0.5	3.3	0.4	0.7	1.9	< 0.001	0.17	2.6	9	7.8	1.9	0.238	0.024	0.18
282475	4.2	4.2	< 0.1	0.4	2.5	0.4	0.7	0.8	< 0.001	< 0.05	1.7	6	4.5	1.3	0.215	0.020	0.08
282476	3.9	81.8	< 0.1	0.3	1.7	0.2	0.1	0.2	< 0.001	0.15	2.4	27	3.8	1.1	0.378	0.156	0.25
282477	3.9	56.2	< 0.1	0.3	1.9	0.3	0.5	0.6	< 0.001	0.06	2.9	17	5.4	1.0	0.268	0.103	1.09
282478	3.7	23.7	< 0.1	0.2	1.5	0.2	0.1	0.4	< 0.001	0.16	2.1	28	3.8	0.9	0.376	0.154	0.19
282479	4.5	23.8	0.1	0.3	2.2	0.3	0.2	0.4	< 0.001	< 0.05	2.3	21	2.3	0.9	0.346	0.137	0.01
282480	5.1	6.1	0.1	0.4	3.0	0.4	0.8	0.3	< 0.001	< 0.05	3.0	7	4.9	1.5	0.238	0.025	0.09
282481	6.0	25.7	< 0.1	0.5	3.6	0.5	0.7	0.3	< 0.001	< 0.05	2.2	8	5.9	1.6	0.230	0.020	0.02
282482	3.2	13.4	< 0.1	0.3	1.7	0.2	0.5	0.4	< 0.001	< 0.05	2.2	6	2.4	0.7	0.252	0.019	< 0.01
282483	5.5	55.8	< 0.1	0.5	3.1	0.4	0.7	0.6	< 0.001	< 0.05	2.7	8	5.8	1.6	0.230	0.021	0.06
282484	3.1	9760	< 0.1	0.3	1.8	0.2	0.7	3.5	0.008	0.45	29.4	16	7.7	2.3	0.392	0.091	1.30

Analyte Symbol	Dy	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
282485	5.1	17.3	0.4	0.5	3.2	0.4	0.7	0.7	< 0.001	< 0.05	2.0	9	5.3	1.2	0.321	0.022	0.02
282486	5.6	15.8	0.1	0.5	3.2	0.4	< 0.1	0.1	< 0.001	0.27	1.8	33	0.7	0.7	0.310	0.037	0.11
282487	6.4	22.8	0.3	0.6	3.7	0.5	0.2	0.5	< 0.001	0.28	2.0	38	0.7	0.8	0.531	0.040	0.20
282488	3.9	4.3	0.2	0.3	2.5	0.3	< 0.1	0.1	< 0.001	0.06	2.0	15	1.5	0.6	0.325	0.009	0.02
282489	2.1	70.7	0.4	0.2	1.3	0.2	0.3	1.2	< 0.001	0.05	1.3	7	3.0	0.6	0.126	0.009	< 0.01
282490	4.1	6.8	0.2	0.4	2.5	0.3	< 0.1	0.1	< 0.001	< 0.05	1.5	10	0.9	0.6	0.336	0.044	< 0.01
282491	3.1	90.9	0.1	0.4	2.3	0.3	0.2	0.7	< 0.001	< 0.05	1.3	5	0.6	0.3	0.152	0.007	0.03
282492	4.3	48.6	0.3	0.4	2.5	0.4	0.5	0.7	< 0.001	< 0.05	1.5	7	4.2	0.9	0.214	0.025	0.01
282493	3.5	31.9	< 0.1	0.3	2.0	0.3	0.7	0.8	< 0.001	0.07	1.6	8	4.3	1.1	0.230	0.023	0.03
282494	6.7	63.8	< 0.1	0.6	4.6	0.6	< 0.1	0.2	< 0.001	0.12	1.8	22	2.6	0.8	0.398	0.057	0.02
282495	6.6	6.3	< 0.1	0.5	3.4	0.4	< 0.1	< 0.1	< 0.001	0.09	1.1	29	0.5	0.3	0.135	0.033	0.15
282496	7.8	21.5	< 0.1	0.6	3.8	0.5	0.1	< 0.1	< 0.001	0.46	12.1	20	3.8	1.3	0.256	0.138	0.13
282497	3.4	11.4	0.3	0.3	1.9	0.3	< 0.1	0.2	< 0.001	< 0.05	2.8	16	2.4	0.6	0.250	0.018	0.14
282498	4.0	7.1	0.4	0.3	2.1	0.3	0.7	2.7	< 0.001	0.19	1.9	9	7.6	1.6	0.243	0.022	0.04
282499	4.8	17.4	0.1	0.4	2.7	0.4	0.7	2.1	< 0.001	0.17	5.2	8	6.9	1.6	0.223	0.021	0.07
282500	4.4	13.4	< 0.1	0.4	2.7	0.3	0.9	1.6	< 0.001	0.13	3.1	8	7.5	1.6	0.213	0.020	0.08
282501	3.3	10.8	< 0.1	0.3	2.0	0.3	0.9	0.5	< 0.001	0.06	1.9	6	3.6	1.1	0.206	0.019	0.08
282502	4.2	6.4	0.3	0.4	2.4	0.3	1.0	0.8	< 0.001	0.12	1.6	8	6.5	1.5	0.214	0.019	0.01
282503	4.2	3.2	< 0.1	0.3	2.3	0.3	0.2	0.3	< 0.001	0.15	1.7	7	6.8	1.5	0.102	0.017	< 0.01
282504	2.9	5.4	< 0.1	0.3	1.7	0.2	0.6	1.1	< 0.001	0.09	2.5	5	4.3	1.0	0.141	0.016	0.11
282505	3.7	46.3	< 0.1	0.3	2.1	0.3	0.7	0.5	< 0.001	0.06	3.0	8	7.0	1.6	0.226	0.018	0.08
282506	3.6	21.5	< 0.1	0.3	2.1	0.3	0.5	0.8	< 0.001	< 0.05	3.0	7	6.3	2.4	0.221	0.018	0.10
282507	4.0	5.6	< 0.1	0.4	2.3	0.3	0.6	0.4	< 0.001	< 0.05	2.0	7	4.6	1.2	0.220	0.020	0.01
282508	6.1	7.5	< 0.1	0.6	3.8	0.5	0.7	0.8	< 0.001	0.10	3.4	8	5.7	1.4	0.232	0.022	0.03
282509	5.1	10.2	0.4	0.5	3.3	0.4	0.7	0.3	< 0.001	< 0.05	4.7	5	4.6	1.0	0.208	0.016	0.02
282510	4.9	3.1	0.5	0.5	3.2	0.4	0.7	0.3	< 0.001	< 0.05	4.5	6	4.0	1.0	0.209	0.016	< 0.01

Analyte Symbol	Al	Na	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu
Unit Symbol	%	%	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05
Method Code	TD-ICP	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
GXR-1 Meas	2.38	0.05	7.9	0.04	0.19	1.97	0.04	0.82	2.4	73	94.8	776	23.1	0.6	2440	39.1		0.8		32.3	2.58	7.6	0.58
GXR-1 Cert	3.52	0.0520	8.20	0.0520	0.217	3.52	0.050	0.960	3.30	80.0	12.0	852	23.6	0.960	3900	41.0		1.22		31.0	3.00	8.20	0.690
GXR-1 Meas			7.9	0.04	0.18	1.86	0.04	0.85	2.4	77	15.4	810	23.1	0.6	1940	41.8		0.8		33.5	2.59	7.9	0.58
GXR-1 Cert			8.20	0.0520	0.217	3.52	0.050	0.960	3.30	80.0	12.0	852	23.6	0.960	3900	41.0		1.22		31.0	3.00	8.20	0.690
DH-1a Meas																							
DH-1a Cert																							
DH-1a Meas																							
DH-1a Cert																							
GXR-4 Meas			11.2	0.48	1.62	6.25	3.75	1.01	0.2	83	45.4	140	3.07	1.4	< 10	41.5		2.0		3.83	2.53	13.3	1.43
GXR-4 Cert			11.1	0.564	1.66	7.20	4.01	1.01	0.860	87.0	64.0	155	3.09	6.30	110	42.0		1.90		4.00	2.80	14.6	1.63
GXR-4 Meas			11.9	0.53	1.74	6.34	4.20	1.01	0.2	88	49.3	138	2.96	1.4	< 10	42.4		2.1		3.84	2.66	13.5	1.42
GXR-4 Cert			11.1	0.564	1.66	7.20	4.01	1.01	0.860	87.0	64.0	155	3.09	6.30	110	42.0		1.90		4.00	2.80	14.6	1.63
SDC-1 Meas			36.8	1.44	1.02	7.72	1.49	1.06		74	57.5	839	4.76	1.5	50	35.6	3.7	3.0	1.3		3.85	18.3	1.56
SDC-1 Cert			34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70
SDC-1 Meas			36.8	1.52	1.00	8.66	1.67	1.07		80	55.0	879	5.18	1.5	30	37.0	3.7	3.3	1.4		4.01	18.2	1.54
SDC-1 Cert			34.0	1.52	1.02	8.34	2.72	1.00		102.00	64.00	880.00	4.82	8.30	200.00	38.0	4.10	3.00	1.50		4.00	18.0	1.70
GXR-6 Meas			36.6	0.09	0.61	> 10.0	1.98	0.17	0.1	140	57.9	1010	5.70	2.5	50	26.6		1.1		0.20	4.10	14.5	0.65
GXR-6 Cert			32.0	0.104	0.609	17.7	1.87	0.180	1.00	186	96.0	1010	5.58	4.30	68.0	27.0		1.40		1.30	4.20	13.8	0.760
GXR-6 Meas			36.1	0.10	0.60	> 10.0	1.97	0.16	0.1	142	63.3	1040	5.69	2.5	60	27.8		1.1		0.20	4.16	14.5	0.65
GXR-6 Cert			32.0	0.104	0.609	17.7	1.87	0.180	1.00	186	96.0	1010	5.58	4.30	68.0	27.0		1.40		1.30	4.20	13.8	0.760
STM-2 Meas	8.19	6.46																					
STM-2 Cert	9.72	6.61																					
DNC-1a Meas			4.8							138	188					271						57.9	0.56
DNC-1a Cert			5.2							148	270					247						57	0.59
DNC-1a Meas			4.8							147	162					274						57.7	0.56
DNC-1a Cert			5.2							148	270					247						57	0.59
CZN-4 Meas	0.09																						
CZN-4 Cert	0.0715																						
SBC-1 Meas			167						0.3	207	95.0			3.6		85.8	3.5	3.2	1.3		7.78	22.1	1.81
SBC-1 Cert			163						0.40	220.0	109			3.7		82.8	3.80	3.20	1.40		8.2	22.7	1.98
SBC-1 Meas			170						0.4	214	98.7			3.6		89.1	3.6	3.2	1.3		8.03	22.7	1.87
SBC-1 Cert			163						0.40	220.0	109			3.7		82.8	3.80	3.20	1.40		8.2	22.7	1.98
OREAS 45d (4-Acid) Meas			21.0	0.08	0.21	7.35	0.42	0.18		107	572	461	14.1	2.1		239	1.4	0.6	0.5		3.60	29.3	0.58
OREAS 45d (4-Acid) Cert			21.5	0.101	0.245	8.150	0.412	0.185		235.0	549	490.000	14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57
OREAS 45d (4-Acid) Meas			21.1	0.09	0.21	6.87	0.42	0.18		119	588	467	13.4	2.3		231	1.3	0.7	0.5		3.59	28.3	0.56
OREAS 45d (4-Acid) Cert			21.5	0.101	0.245	8.150	0.412	0.185		235.0	549	490.000	14.5	3.830		231.0	1.38	0.79	0.46		3.910	29.50	0.57
SdAR-M2 (U.S.G.S.) Meas			18.7						5.6	24	41.7			3.7	1130	51.8	3.0	7.3	1.1		1.69	12.5	1.36
SdAR-M2 (U.S.G.S.) Cert			17.9						5.1	25.2	49.6			7.29	1440.00	48.8	3.58	6.6	1.21		1.82	12.4	1.44

Analyte Symbol	Al	Na	Li	Na	Mg	Al	K	Ca	Cd	V	Cr	Mn	Fe	Hf	Hg	Ni	Er	Be	Ho	Ag	Cs	Co	Eu
Unit Symbol	%	%	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.5	0.01	0.01	0.01	0.01	0.01	0.1	1	0.5	1	0.01	0.1	10	0.5	0.1	0.1	0.1	0.05	0.05	0.1	0.05
Method Code	TD-ICP	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
SdAR-M2 (U.S.G.S.) Meas			18.7						5.4	22	44.4			3.8	1040	52.8	2.7	7.2	1.0		1.74	12.2	1.24
SdAR-M2 (U.S.G.S.) Cert			17.9						5.1	25.2	49.6			7.29	1440.00	48.8	3.58	6.6	1.21		1.82	12.4	1.44
282427 Orig		3.33																					
282427 Dup		3.33																					
282435 Orig			7.1	2.92	0.51	5.79	1.22	1.67	< 0.1	15	17.7	365	2.57	4.7	< 10	5.5	1.6	1.4	0.6	< 0.05	0.39	6.6	0.67
282435 Dup			6.9	2.92	0.53	5.98	1.16	1.64	< 0.1	15	22.1	367	2.59	4.6	< 10	5.1	1.8	1.2	0.7	< 0.05	0.38	6.7	0.78
282437 Orig			6.6	2.95	0.77	6.35	1.42	1.65	< 0.1	27	18.4	412	3.02	4.7	20	5.7	2.2	1.9	0.8	< 0.05	0.50	6.4	1.12
282437 Dup			6.5	2.89	0.78	6.11	1.22	1.61	< 0.1	26	20.3	398	3.04	4.4	20	6.3	2.0	1.8	0.8	< 0.05	0.47	6.1	1.01
282468 Orig		3.81																					
282468 Dup		3.87																					
282473 Orig			18.8	2.39	1.21	6.74	1.67	1.45	< 0.1	13	21.7	356	3.49	4.6	< 10	3.9	2.3	1.8	0.9	< 0.05	0.54	5.2	0.98
282473 Dup			18.7	2.36	1.23	6.62	1.69	1.48	< 0.1	13	32.0	371	3.55	4.6	< 10	4.2	2.3	1.9	0.9	< 0.05	0.54	5.3	1.01
282478 Orig			38.9	0.67	5.89	4.58	0.64	8.98	< 0.1	164	468	1310	6.43	2.6	40	159	1.8	2.0	0.7	< 0.05	1.88	43.6	1.58
282478 Dup			37.2	0.65	5.76	4.42	0.63	8.62	< 0.1	157	460	1250	6.11	2.6	20	154	1.7	1.9	0.7	< 0.05	1.80	41.6	1.56
282509 Orig			5.1	> 3.00	0.30	5.52	1.25	1.58	0.1	10	18.8	472	2.77	4.7	10	5.1	3.4	1.5	1.2	< 0.05	0.20	5.3	0.87
282509 Dup			5.2	> 3.00	0.29	5.46	1.27	1.55	< 0.1	9	22.7	473	2.83	4.5	< 10	5.3	3.0	1.6	1.0	< 0.05	0.18	5.3	0.72
282510 Orig		3.63																					
282510 Dup		3.64																					
Method Blank			< 0.5	< 0.01	< 0.01	0.01	< 0.01	< 0.01	< 0.1	< 1	1.6	9	< 0.01	< 0.1	30	0.9	< 0.1	0.1	< 0.1	< 0.05	< 0.05	< 0.1	< 0.05
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	0.02	< 0.01																					
Method Blank	< 0.01	< 0.01																					

Analyte Symbol	Bi	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.02	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
GXR-1 Meas	1570	15.6	709	6.5	408	2.8	25.8	295	22	1.0	17.0	0.8	28	31.1	8.7	693	7.2	15.1		8.8	2.8	4.0	0.7
GXR-1 Cert	1380	16.6	760	13.8	427	14.0	32.0	275	38.0	0.800	18.0	0.770	54.0	122	13.0	750	7.50	17.0		18.0	2.70	4.20	0.830
GXR-1 Meas	1650	15.7	730	8.6	418	2.8	26.9	300	24	1.0	17.6	0.8	30	31.3	8.8	702	7.4	15.2		8.7	2.8	4.1	0.7
GXR-1 Cert	1380	16.6	760	13.8	427	14.0	32.0	275	38.0	0.800	18.0	0.770	54.0	122	13.0	750	7.50	17.0		18.0	2.70	4.20	0.830
DH-1a Meas																							
DH-1a Cert																							
DH-1a Meas																							
DH-1a Cert																							
GXR-4 Meas	19.8	5.8	72.5	15.9	108	131	12.9	216	40	10.0	301	0.2	8	4.2	0.8	547	55.0	107		43.9	7.2	4.7	0.5
GXR-4 Cert	19.0	5.60	73.0	20.0	98.0	160	14.0	221	186	10.0	310	0.270	5.60	4.80	0.970	1640	64.5	102		45.0	6.60	5.25	0.360
GXR-4 Meas	20.0	5.8	71.0	14.1	107	139	12.3	221	40	9.4	299	0.2	8	4.3	0.8	820	55.7	107		43.9	7.0	5.1	0.5
GXR-4 Cert	19.0	5.60	73.0	20.0	98.0	160	14.0	221	186	10.0	310	0.270	5.60	4.80	0.970	1640	64.5	102		45.0	6.60	5.25	0.360
SDC-1 Meas			111	19.0	< 0.1	89.6		178	49	10.5			2	0.5		625	39.0	87.6		43.0	8.3	7.2	1.0
SDC-1 Cert			103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20
SDC-1 Meas			102	20.5	< 0.1	93.6		175	49	12.6			2	0.3		627	39.6	87.8		42.8	9.2	7.5	1.0
SDC-1 Cert			103.00	21.00	0.220	127.00		180.00	290.00	21.00			3.00	0.54		630	42.00	93.00		40.00	8.20	7.00	1.20
GXR-6 Meas	0.20	0.5	128	21.3	286	79.5	11.9	38.5	81	3.1	1.36	< 0.1	1	1.6	< 0.1	1170	12.9	36.5		13.8	2.8	2.4	0.4
GXR-6 Cert	0.290	0.940	118	35.0	330	90.0	14.0	35.0	110	7.50	2.40	0.260	1.70	3.60	0.0180	1300	13.9	36.0		13.0	2.67	2.97	0.415
GXR-6 Meas	0.21	0.6	132	24.7	283	79.5	11.8	36.3	76	2.3	1.12	< 0.1	< 1	1.4	< 0.1	1180	12.9	36.2		13.8	2.9	2.6	0.4
GXR-6 Cert	0.290	0.940	118	35.0	330	90.0	14.0	35.0	110	7.50	2.40	0.260	1.70	3.60	0.0180	1300	13.9	36.0		13.0	2.67	2.97	0.415
STM-2 Meas																							
STM-2 Cert																							
DNC-1a Meas			62.4	13.7		3.6	15.2	152	38	1.5				0.6		106	3.6			5.2			
DNC-1a Cert			70	15		5	18.0	144	38.0	3				0.96		118	3.6			5.20			
DNC-1a Meas			63.6	14.1		3.8	15.7	148	39	1.5				0.7		110	3.7			5.2			
DNC-1a Cert			70	15		5	18.0	144	38.0	3				0.96		118	3.6			5.20			
CZN-4 Meas																							
CZN-4 Cert																							
SBC-1 Meas	0.73		183	21.3	26.7	135	29.5	173	117	14.6	2.32		4	1.0		752	45.8	100	11.8	49.0	10.0	7.7	1.1
SBC-1 Cert	0.70		186	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20
SBC-1 Meas	0.74		185	24.0	26.5	136	29.2	183	115	14.3	2.33		4	1.0		788	47.7	103	12.2	50.8	10.1	8.9	1.1
SBC-1 Cert	0.70		186	27.0	25.7	147	36.5	178.0	134.0	15.3	2.40		3.3	1.01		788.0	52.5	108.0	12.6	49.2	9.6	8.5	1.20
OREAS 45d (4-Acid) Meas	0.37		39.8	21.2	7.5	41.5	10.4	31.9	73	1.9	0.68	< 0.1	1	0.1		186	16.1	35.9	3.8	14.4	3.0	2.5	0.4
OREAS 45d (4-Acid) Cert	0.31		45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400
OREAS 45d (4-Acid) Meas	0.36		46.9	20.9	11.8	40.5	9.9	29.9	76	1.8	0.77	< 0.1	1	< 0.1		179	15.9	35.3	3.7	14.2	3.1	2.5	0.4
OREAS 45d (4-Acid) Cert	0.31		45.7	21.20	13.8	42.1	9.53	31.30	141	14.50	2.500	0.096	2.78	0.82		183.0	16.9	37.20	3.70	13.4	2.80	2.42	0.400
SdAR-M2 (U.S.G.S.) Meas	1.16		758	11.7		116	24.0	146	101	18.3	13.5					997	44.0	96.8	10.4	41.1	7.7	5.7	0.8
SdAR-M2 (U.S.G.S.) Cert	1.05		760	17.6		149	32.7	144	259	26.2	13.3					990	46.6	98.8	11.0	39.4	7.18	6.28	0.97

Analyte Symbol	Bi	Se	Zn	Ga	As	Rb	Y	Sr	Zr	Nb	Mo	In	Sn	Sb	Te	Ba	La	Ce	Pr	Nd	Sm	Gd	Tb
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.02	0.1	0.2	0.1	0.1	0.2	0.1	0.2	1	0.1	0.05	0.1	1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
SdAR-M2 (U.S.G.S.) Meas	1.15		758	14.2		117	22.2	136	106	18.8	11.5					972	40.3	87.7	9.5	37.0	7.1	5.8	0.8
SdAR-M2 (U.S.G.S.) Cert	1.05		760	17.6		149	32.7	144	259	26.2	13.3					990	46.6	98.8	11.0	39.4	7.18	6.28	0.97
282427 Orig																							
282427 Dup																							
282435 Orig	0.13	< 0.1	22.6	17.1	< 0.1	36.0	14.9	57.1	134	10.3	1.29	< 0.1	3	< 0.1	< 0.1	326	14.7	40.8	4.3	20.1	5.2	3.9	0.5
282435 Dup	0.11	< 0.1	20.2	17.5	< 0.1	40.0	16.7	61.6	136	10.4	1.64	< 0.1	2	0.1	< 0.1	352	18.3	45.6	5.5	24.5	6.0	4.6	0.6
282437 Orig	0.06	< 0.1	38.8	18.5	< 0.1	47.1	18.5	166	131	9.7	1.50	< 0.1	2	0.1	< 0.1	588	31.8	70.2	7.9	35.5	7.8	5.6	0.7
282437 Dup	0.06	< 0.1	35.5	18.6	< 0.1	43.2	17.4	155	127	11.3	1.69	< 0.1	2	< 0.1	< 0.1	551	29.6	66.7	7.3	31.7	7.2	5.3	0.7
282468 Orig																							
282468 Dup																							
282473 Orig	0.29	< 0.1	46.6	18.3	< 0.1	48.8	20.3	53.7	121	11.8	1.63	< 0.1	3	< 0.1	< 0.1	540	26.0	57.8	6.9	30.0	7.0	6.0	0.8
282473 Dup	0.29	< 0.1	45.6	18.7	< 0.1	48.7	20.6	52.6	128	11.4	2.08	< 0.1	3	< 0.1	< 0.1	541	26.4	59.7	7.1	31.1	7.1	5.9	0.8
282478 Orig	0.22	< 0.1	185	12.8	< 0.1	39.4	17.0	173	94	2.7	0.42	< 0.1	1	0.2	< 0.1	87	22.5	53.2	6.9	30.7	7.5	5.6	0.7
282478 Dup	0.22	< 0.1	175	12.4	< 0.1	38.5	16.5	170	93	2.3	0.19	< 0.1	1	< 0.1	< 0.1	86	22.2	52.2	6.8	30.1	7.1	5.6	0.7
282509 Orig	0.04	< 0.1	53.7	17.8	< 0.1	22.1	28.6	106	129	10.3	1.17	< 0.1	2	0.2	< 0.1	316	24.9	57.4	6.0	25.8	6.1	5.7	0.9
282509 Dup	0.04	< 0.1	53.9	18.1	< 0.1	21.4	24.6	103	122	9.2	1.15	< 0.1	2	0.1	< 0.1	309	19.4	47.0	4.8	20.3	4.8	4.8	0.7
282510 Orig																							
282510 Dup																							
Method Blank	< 0.02	< 0.1	0.9	0.3	< 0.1	< 0.2	< 0.1	< 0.2	< 1	< 0.1	0.07	< 0.1	< 1	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Dy	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
GXR-1 Meas	4.6	1030		0.3	2.3	0.3	< 0.1	149		0.35	726	2	2.4	29.8	0.0271	0.062	0.25
GXR-1 Cert	4.30	1110		0.430	1.90	0.280	0.175	164		0.390	730	1.58	2.44	34.9	0.036	0.0650	0.257
GXR-1 Meas	4.6	962		0.4	2.3	0.3	< 0.1	150		0.36	764	1	2.6	31.9	0.0263	0.060	0.25
GXR-1 Cert	4.30	1110		0.430	1.90	0.280	0.175	164		0.390	730	1.58	2.44	34.9	0.036	0.0650	0.257
DH-1a Meas													> 500	2500			
DH-1a Cert													910	2629			
DH-1a Meas													> 500	2560			
DH-1a Cert													910	2629			
GXR-4 Meas	2.8	6950		0.2	1.1	0.1	0.6	37.1		3.24	46.4	8	18.7	5.5	0.290	0.130	1.78
GXR-4 Cert	2.60	6520		0.210	1.60	0.170	0.790	30.8		3.20	52.0	7.70	22.5	6.20	0.29	0.120	1.77
GXR-4 Meas	2.8	6060		0.2	1.1	0.1	0.6	37.7		3.31	47.0	8	20.3	5.6	0.279	0.127	1.75
GXR-4 Cert	2.60	6520		0.210	1.60	0.170	0.790	30.8		3.20	52.0	7.70	22.5	6.20	0.29	0.120	1.77
SDC-1 Meas	6.4	36.9		0.5	3.6		0.7	0.6		0.60	25.0	16	11.3	2.7	0.259	0.054	
SDC-1 Cert	6.70	30.000		0.65	4.00		1.20	0.80		0.70	25.00	17.00	12.00	3.10	0.606	0.0690	
SDC-1 Meas	6.5	28.2		0.5	3.5		0.8	0.6		0.60	23.1	17	11.6	3.1	0.345	0.057	
SDC-1 Cert	6.70	30.000		0.65	4.00		1.20	0.80		0.70	25.00	17.00	12.00	3.10	0.606	0.0690	
GXR-6 Meas	2.4	68.0			1.8	0.3	0.2	0.9		2.22	91.3	28	5.1	1.4		0.032	0.01
GXR-6 Cert	2.80	66.0			2.40	0.330	0.485	1.90		2.20	101	27.6	5.30	1.54		0.0350	0.0160
GXR-6 Meas	2.4	66.1			1.8	0.3	0.2	0.7		2.30	92.4	30	5.2	1.5		0.036	0.02
GXR-6 Cert	2.80	66.0			2.40	0.330	0.485	1.90		2.20	101	27.6	5.30	1.54		0.0350	0.0160
STM-2 Meas																	
STM-2 Cert																	
DNC-1a Meas		122			2.0						5.6	32			0.291		
DNC-1a Cert		100			2.0						6.3	31			0.29		
DNC-1a Meas		90.8			2.0						6.4						
DNC-1a Cert		100			2.0						6.3						
CZN-4 Meas																	
CZN-4 Cert																	
SBC-1 Meas	6.4	29.2		0.5	3.5	0.5	0.8	1.7		0.86	35.6	21	14.5	5.3	0.510		
SBC-1 Cert	7.10	31.0000		0.56	3.64	0.54	1.10	1.60		0.89	35.0	20.0	15.8	5.76	0.51		
SBC-1 Meas	6.5	30.0		0.5	3.6	0.5	0.9	1.6		0.90	33.6	22	15.0	5.8	0.502		
SBC-1 Cert	7.10	31.0000		0.56	3.64	0.54	1.10	1.60		0.89	35.0	20.0	15.8	5.76	0.51		
OREAS 45d (4-Acid) Meas	2.3	361			1.5	0.2	0.1	0.3		0.21	20.0	56	13.2	2.6	0.243	0.034	0.04
OREAS 45d (4-Acid) Cert	2.26	371			1.33	0.18	1.02	1.62		0.27	21.8	49.30	14.5	2.63	0.773	0.042	0.049
OREAS 45d (4-Acid) Meas	2.2	327			1.4	0.2	0.1	0.2		0.21	19.8	59	13.4	2.6	0.311	0.036	0.05
OREAS 45d (4-Acid) Cert	2.26	371			1.33	0.18	1.02	1.62		0.27	21.8	49.30	14.5	2.63	0.773	0.042	0.049
SdAR-M2 (U.S.G.S.) Meas	5.2	246		0.4	3.0	0.4	1.1	1.9			758	5	14.4	2.8			

Analyte Symbol	Dy	Cu	Ge	Tm	Yb	Lu	Ta	W	Re	Tl	Pb	Sc	Th	U	Ti	P	S
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Lower Limit	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.001	0.05	0.5	1	0.1	0.1	0.0005	0.001	0.01
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP	TD-ICP
SdAR-M2 (U.S.G.S.) Cert	5.88	236.0000		0.54	3.63	0.54	1.8	2.8			808	4.1	14.2	2.53			
SdAR-M2 (U.S.G.S.) Meas	4.6	220		0.4	2.8	0.3	1.2	2.3			763	4	12.7	2.2			
SdAR-M2 (U.S.G.S.) Cert	5.88	236.0000		0.54	3.63	0.54	1.8	2.8			808	4.1	14.2	2.53			
282427 Orig																	
282427 Dup																	
282435 Orig	2.8	13.6	< 0.1	0.2	1.7	0.2	0.6	0.5	< 0.001	0.08	1.7	7	4.5	3.7	0.223	0.019	0.11
282435 Dup	3.2	16.3	< 0.1	0.3	1.9	0.3	0.6	0.6	< 0.001	0.09	1.6	7	5.5	1.2	0.218	0.021	0.13
282437 Orig	3.9	18.5	< 0.1	0.3	2.2	0.3	0.6	0.3	< 0.001	0.30	2.3	9	6.6	1.6	0.256	0.038	0.06
282437 Dup	3.7	17.2	< 0.1	0.5	2.2	0.3	0.6	0.4	< 0.001	0.11	2.1	9	5.7	1.4	0.249	0.036	0.05
282468 Orig																	
282468 Dup																	
282473 Orig	4.3	16.6	< 0.1	0.3	2.3	0.3	0.9	0.6	< 0.001	0.08	1.4	8	6.5	1.5	0.219	0.020	0.11
282473 Dup	4.4	4.5	< 0.1	0.3	2.4	0.3	0.7	0.5	< 0.001	0.08	1.4	8	6.4	1.5	0.216	0.020	0.11
282478 Orig	3.7	24.7	< 0.1	0.2	1.5	0.2	0.1	0.4	< 0.001	0.17	2.1	28	4.5	1.0	0.376	0.150	0.18
282478 Dup	3.6	22.6	< 0.1	0.2	1.5	0.2	0.1	0.3	< 0.001	0.15	2.2	28	3.1	0.9	0.376	0.157	0.20
282509 Orig	5.5	9.9	0.4	0.5	3.5	0.5	0.8	0.2	< 0.001	< 0.05	4.7	6	5.2	1.1	0.213	0.017	0.03
282509 Dup	4.6	10.5	0.5	0.5	3.0	0.4	0.7	0.3	< 0.001	< 0.05	4.7	5	4.1	0.9	0.203	0.015	0.02
282510 Orig																	
282510 Dup																	
Method Blank	< 0.1	0.9	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1	< 0.001	< 0.05	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01
Method Blank												< 1			< 0.0005	< 0.001	< 0.01
Method Blank												< 1			< 0.0005	< 0.001	< 0.01
Method Blank												< 1			< 0.0005	< 0.001	< 0.01
Method Blank																	
Method Blank																	

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CHESTER #1, MINE SITE, P.O. BOX 100
GOGAMA, ON P0M1W0
(705) 269-0010

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

PROJECT: Watershed East - 259

AGAT WORK ORDER: 17B296297

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Feb 13, 2018

PAGES (INCLUDING COVER): 39

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

*NOTES
VERSION 1:Version 2: This corrected report super cedes the original results sent on January 23rd at 4:23pm

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.

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Certificate of Analysis

AGAT WORK ORDER: 17B296297

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(200-) Sample Login Weight

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Feb 13, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Sample Login Weight
Unit:	kg
Sample ID (AGAT ID) RDL:	0.01
455501 (8983049)	1.04
455502 (8983050)	1.18
455503 (8983051)	0.84
455504 (8983052)	1.16
455505 (8983053)	1.12
455506 (8983054)	2.36
455507 (8983055)	0.72
455508 (8983056)	1.32
455509 (8983057)	0.64
455510 (8983058)	0.64
455511 (8983059)	0.64
455512 (8983060)	0.08
455513 (8983061)	1.88
455514 (8983062)	2.18
455515 (8983063)	2.24
455516 (8983064)	2.42
455517 (8983065)	2.44
455518 (8983066)	0.96
455519 (8983067)	1.82
455520 (8983068)	1.94
455521 (8983069)	2.46
455522 (8983070)	0.86
455523 (8983071)	0.96
455524 (8983072)	0.40
455525 (8983073)	2.58
455526 (8983074)	2.38
455527 (8983075)	1.86
455528 (8983076)	1.78
455529 (8983077)	1.08
455530 (8983078)	1.08
455531 (8983079)	1.34

Certified By: Sherin Moussa

AGAT Laboratories
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Certificate of Analysis

AGAT WORK ORDER: 17B296297

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(200-) Sample Login Weight

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Feb 13, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Sample Login Weight
Unit:	kg
Sample ID (AGAT ID) RDL:	0.01
455532 (8983080)	1.24
455533 (8983081)	3.06
455534 (8983082)	2.38
455535 (8983083)	2.68
455536 (8983084)	0.08
455537 (8983085)	2.88
455538 (8983086)	1.10
455539 (8983087)	2.54
455540 (8983088)	2.02
455541 (8983089)	2.02
455542 (8983090)	2.42
455543 (8983091)	1.64
455544 (8983092)	2.54
455545 (8983093)	2.76
455546 (8983094)	1.34
455547 (8983095)	2.74
455548 (8983096)	0.40
455549 (8983097)	2.72
455550 (8983098)	2.42
455551 (8983099)	1.18
455552 (8983100)	1.38
455553 (8983101)	1.34
455554 (8983102)	1.54
455555 (8983103)	3.02
455556 (8983104)	2.74
455557 (8983105)	3.58
455558 (8983106)	1.28
455559 (8983107)	1.34
455560 (8983108)	0.08
455561 (8983109)	1.34
455562 (8983110)	1.74

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Certificate of Analysis

AGAT WORK ORDER: 17B296297

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(200-) Sample Login Weight

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Feb 13, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Sample Login Weight
Unit:	kg
Sample ID (AGAT ID) RDL:	0.01
455563 (8983111)	1.98
455564 (8983112)	1.90
455565 (8983113)	0.98
455566 (8983114)	1.24
455567 (8983115)	1.68
455568 (8983116)	2.24
455569 (8983117)	2.42
455570 (8983118)	1.52
455571 (8983119)	1.64
455572 (8983120)	0.40
455573 (8983121)	2.60
455574 (8983122)	0.84
455575 (8983123)	1.94
455576 (8983124)	1.10
455577 (8983125)	1.92
455578 (8983126)	1.04
455579 (8983127)	2.52
455580 (8983128)	0.96
455581 (8983129)	0.62
455582 (8983130)	2.00
455583 (8983131)	0.82
455584 (8983132)	0.08
455585 (8983133)	1.74
455586 (8983134)	2.46
455587 (8983135)	1.44
455588 (8983136)	1.76
455589 (8983137)	2.08
455590 (8983138)	2.32
455591 (8983139)	1.48
455592 (8983140)	1.02
455593 (8983141)	1.54

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AGAT WORK ORDER: 17B296297

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(200-) Sample Login Weight

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Feb 13, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Sample Login Weight
Unit:	kg
Sample ID (AGAT ID) RDL:	0.01
455594 (8983142)	1.38
455595 (8983143)	1.56
455596 (8983144)	0.38
455597 (8983145)	1.72
455598 (8983146)	1.24
455599 (8983147)	1.14
455600 (8983148)	2.18
455601 (8983149)	2.72
455602 (8983150)	1.32
455603 (8983151)	2.04
455604 (8983152)	1.58
455605 (8983153)	1.22
455606 (8983154)	1.26
455607 (8983155)	1.82
455608 (8983156)	2.46
455609 (8983157)	2.36

Comments: RDL - Reported Detection Limit

Certified By: Sherin Moussa

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Certificate of Analysis

AGAT WORK ORDER: 17B296297

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Feb 13, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
Sample ID (AGAT ID) RDL:	0.01	0.01	0.2	1	0.05	0.01	0.01	0.02	0.01	0.05	0.5	0.01	0.5	0.01
455501 (8983049)	0.14	7.63	4.5	123	1.47	0.03	4.49	0.04	29.6	31.0	87.9	0.09	41.8	7.34
455502 (8983050)	0.14	7.71	6.1	295	1.39	0.02	4.71	0.04	27.1	34.1	46.8	0.12	101	5.64
455503 (8983051)	0.14	7.54	3.8	287	1.55	0.04	5.63	0.04	26.3	20.8	52.2	0.11	42.7	5.79
455504 (8983052)	0.19	7.65	4.7	308	1.82	0.04	3.14	0.02	39.9	15.7	20.4	0.14	16.8	5.39
455505 (8983053)	0.17	7.51	1.9	150	1.58	0.05	4.39	0.04	38.8	13.1	21.6	0.07	5.3	5.45
455506 (8983054)	0.20	8.11	10.1	149	1.67	0.10	3.18	0.04	50.4	47.8	31.1	0.07	13.4	6.83
455507 (8983055)	0.16	7.91	4.9	27	1.50	0.17	4.26	0.05	29.2	30.9	14.7	0.12	53.3	8.57
455508 (8983056)	0.15	7.01	3.4	77	1.29	0.10	3.02	<0.02	27.1	30.4	14.3	0.25	80.6	7.76
455509 (8983057)	0.50	7.86	21.3	106	1.52	0.54	2.41	<0.02	29.7	91.5	15.0	0.13	418	9.77
455510 (8983058)	0.31	7.88	9.1	77	1.54	0.14	3.33	<0.02	36.6	43.5	20.5	0.15	144	8.16
455511 (8983059)	0.17	8.05	7.3	23	1.48	0.18	4.02	0.03	33.4	38.4	15.9	0.06	52.9	9.27
455512 (8983060)	0.25	7.33	3.5	148	0.94	0.04	7.09	0.13	10.2	49.3	190	0.14	148	8.35
455513 (8983061)	0.21	8.07	9.0	35	1.53	0.15	5.00	0.07	39.8	31.5	19.3	0.04	48.7	7.93
455514 (8983062)	0.13	7.55	2.9	142	1.26	0.02	3.13	<0.02	38.8	29.7	32.1	0.13	27.9	6.60
455515 (8983063)	0.11	7.07	5.2	283	1.27	0.03	4.97	0.03	32.7	30.7	76.3	0.18	78.2	6.48
455516 (8983064)	0.07	7.39	4.2	394	0.96	<0.01	5.05	0.03	33.3	29.9	128	0.31	19.8	5.61
455517 (8983065)	0.09	7.14	8.3	312	0.99	0.03	4.53	0.02	37.3	32.0	168	0.22	1.5	5.95
455518 (8983066)	0.27	6.57	30.5	222	1.17	0.08	4.00	0.05	22.9	28.9	37.7	0.43	21.4	4.12
455519 (8983067)	0.10	7.96	12.0	250	1.27	0.03	4.07	0.04	50.0	29.6	119	0.34	72.9	5.64
455520 (8983068)	0.11	7.69	7.7	165	1.35	0.02	3.49	0.02	33.8	28.1	127	0.27	177	6.36
455521 (8983069)	0.30	7.81	14.5	108	1.18	0.03	4.18	0.04	38.8	32.6	147	0.17	141	5.76
455522 (8983070)	0.12	6.24	40.3	89	1.40	0.09	5.29	0.09	40.9	67.5	450	0.64	153	6.98
455523 (8983071)	0.07	3.16	14.2	32	1.34	0.05	7.53	0.09	31.8	74.2	857	0.62	13.7	9.20
455524 (8983072)	0.26	10.2	2.2	725	3.63	0.02	4.83	0.07	78.1	22.5	31.6	1.18	15.6	6.00
455525 (8983073)	0.08	3.12	9.0	54	1.52	0.02	6.28	0.12	33.7	76.6	833	0.95	119	9.74
455526 (8983074)	0.11	3.11	56.9	49	1.42	0.06	5.20	0.07	31.5	91.6	861	0.75	128	10.6
455527 (8983075)	0.15	3.11	530	98	1.34	0.06	7.04	0.09	31.1	87.2	817	0.36	192	9.66
455528 (8983076)	0.13	3.09	788	109	1.44	0.05	6.18	0.09	30.7	81.0	798	0.36	111	9.97
455529 (8983077)	0.43	3.64	519	171	1.16	0.15	5.62	0.07	28.0	59.6	581	0.21	236	8.03
455530 (8983078)	0.35	1.35	330	108	0.69	0.07	2.90	0.06	13.8	27.0	211	0.10	5.3	3.09
455531 (8983079)	0.74	6.29	149	162	1.39	0.31	3.34	0.05	25.8	61.8	127	0.62	1.6	11.0
455532 (8983080)	0.61	6.84	181	255	1.68	0.18	3.53	0.04	24.6	48.9	27.9	0.57	24.2	7.70

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Certificate of Analysis

AGAT WORK ORDER: 17B296297

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Feb 13, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
Sample ID (AGAT ID) RDL:	0.01	0.01	0.2	1	0.05	0.01	0.01	0.02	0.01	0.05	0.5	0.01	0.5	0.01
455533 (8983081)	0.34	3.16	341	74	1.44	0.09	6.43	0.09	28.8	74.1	778	0.86	276	10.6
455534 (8983082)	0.20	3.09	34.5	68	1.48	0.05	5.78	0.09	30.4	70.8	795	0.77	96.0	10.4
455535 (8983083)	0.10	3.09	8.9	27	1.34	<0.01	5.52	0.10	30.4	79.2	917	0.69	123	10.5
455536 (8983084)	0.72	8.36	32.0	1180	3.85	0.66	2.80	0.26	80.0	18.1	87.3	11.4	2740	4.84
455537 (8983085)	0.10	3.04	12.5	17	1.41	<0.01	5.23	0.09	30.7	88.8	953	0.44	40.9	10.5
455538 (8983086)	0.09	3.34	6.5	11	0.89	<0.01	5.37	0.10	29.7	67.6	434	0.11	158	7.60
455539 (8983087)	0.36	7.59	25.0	80	1.59	0.03	2.09	0.03	33.8	79.2	18.8	0.09	38.0	8.03
455540 (8983088)	0.13	6.78	26.3	137	1.53	<0.01	2.56	0.05	30.3	42.5	29.8	0.10	51.1	5.80
455541 (8983089)	0.13	6.47	35.3	292	1.87	<0.01	1.98	0.04	34.7	64.3	27.1	0.16	9.0	3.80
455542 (8983090)	0.16	7.19	20.7	293	2.09	<0.01	3.29	0.03	37.1	26.7	18.1	0.15	110	6.80
455543 (8983091)	0.13	6.80	11.2	215	2.18	<0.01	2.48	0.03	36.1	31.5	20.4	0.14	46.1	6.12
455544 (8983092)	0.10	2.76	84.8	4	0.99	<0.01	6.48	0.09	30.0	89.3	903	0.04	38.6	10.1
455545 (8983093)	0.08	2.88	12.0	2	1.05	<0.01	6.21	0.07	31.0	86.2	922	0.04	2.9	10.3
455546 (8983094)	0.06	2.61	10.2	1	0.97	<0.01	5.83	0.08	29.7	94.1	812	0.04	1.4	9.91
455547 (8983095)	0.07	2.77	16.8	2	1.04	<0.01	6.70	0.12	29.9	116	776	0.05	1.9	10.4
455548 (8983096)	0.34	10.6	3.4	793	3.64	0.02	5.39	0.09	80.1	24.2	43.6	1.26	17.5	6.32
455549 (8983097)	0.12	3.03	12.2	12	1.10	<0.01	6.24	0.08	32.4	84.2	797	0.09	54.2	10.4
455550 (8983098)	0.10	2.81	38.8	3	1.17	0.06	6.45	0.08	29.1	94.0	730	0.08	26.3	10.2
455551 (8983099)	0.28	3.19	164	9	1.37	0.09	7.70	0.09	32.3	68.5	714	0.15	163	10.3
455552 (8983100)	0.27	3.30	387	51	1.48	0.21	7.26	0.15	32.8	90.9	849	0.53	333	10.4
455553 (8983101)	0.27	2.99	324	12	1.10	0.19	7.37	0.17	31.8	87.6	871	0.38	77.1	10.4
455554 (8983102)	0.33	3.26	414	42	1.15	0.24	9.40	0.21	32.0	68.5	711	1.10	34.6	10.5
455555 (8983103)	0.25	7.02	17.2	222	1.38	0.03	5.33	0.23	29.5	50.3	87.2	4.01	124	11.5
455556 (8983104)	0.21	6.75	7.9	242	1.39	0.02	5.09	0.13	30.8	52.2	77.3	4.13	120	9.86
455557 (8983105)	0.21	7.40	4.6	362	1.70	0.02	5.40	0.11	29.6	49.8	78.8	4.10	133	11.6
455558 (8983106)	0.51	6.80	49.3	256	1.51	0.13	4.98	0.10	27.7	27.0	59.4	0.89	54.5	7.04
455559 (8983107)	0.49	7.24	56.8	253	1.21	0.10	4.05	0.33	36.2	17.0	25.8	0.39	140	5.27
455560 (8983108)	3.68	7.05	14.0	746	2.25	4.83	2.90	0.64	39.1	23.8	69.3	4.83	>10000	7.12
455561 (8983109)	0.71	7.09	74.6	273	1.50	0.22	3.36	0.07	33.8	39.9	38.4	0.31	47.3	6.05
455562 (8983110)	0.84	7.49	86.0	367	1.79	0.27	3.78	0.04	31.4	32.4	22.6	0.34	81.0	5.37
455563 (8983111)	0.31	7.02	47.8	241	1.41	0.08	4.24	0.05	29.2	42.3	30.7	0.23	42.6	6.20
455564 (8983112)	0.13	6.48	35.6	239	1.35	0.02	4.67	0.09	26.6	49.8	13.5	0.25	55.2	7.35

Certified By: Sherin Moussa

AGAT Laboratories

Certificate of Analysis

AGAT WORK ORDER: 17B296297

PROJECT: Watershed East - 259

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CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Feb 13, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
Sample ID (AGAT ID) RDL:	0.01	0.01	0.2	1	0.05	0.01	0.01	0.02	0.01	0.05	0.5	0.01	0.5	0.01
455565 (8983113)	0.29	6.69	32.4	220	1.31	<0.01	3.10	0.03	50.1	42.3	16.5	0.17	323	4.60
455566 (8983114)	0.14	6.81	46.3	158	1.61	0.03	4.44	0.04	32.8	71.6	8.1	0.13	69.0	7.76
455567 (8983115)	0.21	7.38	10.6	202	1.38	<0.01	4.35	0.05	46.7	21.5	13.9	0.15	24.8	5.64
455568 (8983116)	0.13	6.00	6.9	164	0.81	<0.01	3.07	0.05	31.7	17.8	9.9	0.14	22.6	4.84
455569 (8983117)	0.23	6.88	9.4	197	1.15	0.05	4.35	0.09	28.4	35.7	9.1	0.12	122	7.19
455570 (8983118)	0.09	7.31	0.8	279	1.21	0.01	3.16	<0.02	20.2	47.0	21.0	0.64	16.7	8.52
455571 (8983119)	0.18	7.11	6.7	300	1.76	0.01	4.39	0.05	26.9	49.0	41.4	2.87	121	8.77
455572 (8983120)	0.35	9.70	2.3	735	3.31	0.02	4.76	0.08	80.8	23.3	27.1	1.36	17.4	5.44
455573 (8983121)	0.22	7.11	3.3	156	1.56	0.02	5.98	0.07	25.4	53.9	63.5	2.41	179	9.95
455574 (8983122)	0.09	5.53	7.7	199	0.83	0.02	7.50	0.06	21.7	28.8	21.0	0.47	29.8	5.05
455575 (8983123)	0.07	8.24	1.7	276	1.02	<0.01	4.31	0.03	19.0	35.1	21.9	0.32	8.6	5.47
455576 (8983124)	0.09	7.52	2.6	277	1.02	<0.01	3.94	0.04	21.4	30.6	21.9	0.25	9.2	4.88
455577 (8983125)	0.08	7.84	4.0	293	1.43	<0.01	5.27	0.04	17.9	50.9	44.5	0.21	51.3	6.65
455578 (8983126)	0.08	2.50	66.0	4	0.96	<0.01	11.8	0.09	30.2	87.7	979	0.09	92.5	5.94
455579 (8983127)	0.13	2.82	50.5	2	1.19	0.05	9.78	0.12	31.4	80.9	810	0.03	47.3	7.01
455580 (8983128)	0.15	5.73	7.3	75	1.43	0.02	4.54	0.04	37.7	48.3	239	0.06	323	6.77
455581 (8983129)	0.12	6.30	16.6	237	1.57	0.04	2.01	0.02	29.3	37.2	29.2	0.12	10.4	3.08
455582 (8983130)	0.11	6.61	13.1	261	1.73	0.02	4.80	0.04	19.0	49.9	24.8	0.16	40.4	7.19
455583 (8983131)	0.21	7.06	18.3	221	1.34	<0.01	3.78	0.03	106	30.1	20.2	0.16	17.5	3.04
455584 (8983132)	3.75	7.00	13.7	723	2.25	4.78	2.84	0.65	39.8	24.0	66.8	4.74	>10000	6.80
455585 (8983133)	0.13	7.79	9.0	195	1.28	0.02	1.94	0.02	33.4	52.8	43.8	0.25	8.5	8.95
455586 (8983134)	0.13	7.18	21.4	345	1.49	<0.01	3.99	0.03	36.2	19.4	57.5	0.24	6.7	3.77
455587 (8983135)	0.10	7.80	5.6	318	1.63	<0.01	2.84	<0.02	38.7	20.3	53.3	0.23	<0.5	4.67
455588 (8983136)	0.15	7.28	33.4	212	1.71	<0.01	4.12	0.03	34.5	26.4	20.0	0.13	38.6	4.09
455589 (8983137)	0.06	7.28	40.7	115	1.00	<0.01	3.22	<0.02	35.9	41.2	20.2	0.11	5.7	5.20
455590 (8983138)	0.08	7.04	27.7	133	1.10	<0.01	3.48	0.02	28.3	29.1	22.6	0.11	1.1	4.70
455591 (8983139)	0.55	15.3	51.8	251	2.62	0.25	8.27	0.02	79.5	71.6	64.1	0.63	17.2	10.4
455592 (8983140)	0.43	7.23	2.4	27	2.12	0.05	4.28	<0.02	41.4	32.7	45.0	0.06	<0.5	7.07
455593 (8983141)	0.07	3.08	2.0	5	0.71	<0.01	8.87	<0.02	28.2	18.5	31.7	0.05	<0.5	4.35
455594 (8983142)	0.17	7.58	1.0	9	0.98	<0.01	1.13	<0.02	17.5	50.1	27.0	0.11	<0.5	10.6
455595 (8983143)	0.11	8.14	1.1	57	2.25	<0.01	1.34	<0.02	31.9	47.7	1.0	0.11	<0.5	9.23
455596 (8983144)	0.35	9.74	4.1	695	3.60	0.02	4.82	0.09	75.8	25.8	32.6	1.23	14.5	6.07

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Certificate of Analysis

AGAT WORK ORDER: 17B296297

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Feb 13, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
Sample ID (AGAT ID) RDL:	0.01	0.01	0.2	1	0.05	0.01	0.01	0.02	0.01	0.05	0.5	0.01	0.5	0.01
455597 (8983145)	0.12	7.04	1.1	21	1.39	0.01	6.20	<0.02	8.21	42.2	223	0.06	32.1	7.43
455598 (8983146)	0.04	4.39	1.2	11	0.69	<0.01	5.75	<0.02	16.2	38.0	100	0.07	<0.5	6.76
455599 (8983147)	0.06	7.81	1.3	17	1.76	0.01	4.05	<0.02	24.8	45.9	1.6	0.05	<0.5	8.77
455600 (8983148)	0.15	6.88	18.4	99	1.48	0.02	4.41	<0.02	35.8	42.3	14.6	0.12	49.3	5.75
455601 (8983149)	0.11	7.00	15.1	65	1.27	0.02	6.26	<0.02	17.9	59.6	12.3	0.20	58.9	8.54
455602 (8983150)	0.27	7.27	21.9	187	1.71	0.06	2.23	0.02	64.0	19.6	13.6	0.11	111	2.98
455603 (8983151)	0.22	7.41	9.2	126	1.26	0.04	4.93	<0.02	25.4	42.2	19.9	0.21	169	6.65
455604 (8983152)	0.10	7.63	3.8	109	1.38	0.01	4.10	<0.02	32.9	31.5	19.9	0.15	16.7	5.81
455605 (8983153)	0.17	6.85	3.2	111	1.38	<0.01	3.66	0.03	51.2	11.0	17.0	0.07	17.7	2.47
455606 (8983154)	0.22	6.94	6.2	174	1.41	0.02	3.02	0.06	58.7	10.9	16.8	0.07	69.0	2.13
455607 (8983155)	0.14	7.47	1.5	104	1.13	<0.01	4.61	<0.02	24.7	40.9	300	0.18	56.2	5.15
455608 (8983156)	0.40	6.15	3.4	3	0.66	0.03	6.61	0.05	7.62	68.7	711	0.15	646	6.61
455609 (8983157)	0.11	8.67	2.0	54	1.45	<0.01	4.72	<0.02	16.8	44.2	237	0.11	153	4.70

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AGAT WORK ORDER: 17B296297

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Feb 13, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Unit:	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.05	0.05	0.1	0.005	0.01	0.5	0.1	0.01	1	0.05	0.01	0.1	0.5	10
455501 (8983049)	18.2	0.17	1.4	<0.005	0.29	12.8	16.5	2.64	1210	1.84	2.32	6.1	62.7	356
455502 (8983050)	19.6	0.17	1.2	<0.005	0.64	12.7	10.0	1.66	1100	2.88	2.94	6.3	37.4	436
455503 (8983051)	17.9	0.21	1.3	<0.005	0.63	11.9	11.7	1.76	1200	2.62	2.76	5.5	37.5	443
455504 (8983052)	22.0	0.12	1.9	<0.005	0.66	18.3	8.3	1.13	795	2.98	3.22	9.0	17.6	598
455505 (8983053)	18.7	0.15	1.5	<0.005	0.32	18.7	9.3	1.33	1030	3.13	3.16	9.7	17.4	1010
455506 (8983054)	23.2	0.22	1.6	<0.005	0.33	22.2	10.8	1.65	959	2.34	3.10	11.7	27.5	639
455507 (8983055)	20.2	0.18	1.3	<0.005	0.08	14.0	11.2	2.17	1320	2.41	2.55	7.2	37.2	630
455508 (8983056)	19.9	0.19	1.3	<0.005	0.20	12.6	13.8	2.63	1170	4.07	2.21	6.6	35.5	489
455509 (8983057)	19.8	0.21	1.8	<0.005	0.24	14.2	17.2	3.25	990	2.75	2.45	6.8	43.5	594
455510 (8983058)	21.3	0.20	2.0	<0.005	0.21	16.9	13.2	2.53	1240	4.72	2.82	8.6	34.5	550
455511 (8983059)	21.1	0.22	1.4	<0.005	0.07	15.1	12.2	2.30	1310	2.96	2.46	7.4	35.9	524
455512 (8983060)	16.3	0.24	1.6	<0.005	0.21	3.9	12.8	4.35	1510	0.85	2.33	3.9	89.0	448
455513 (8983061)	23.2	0.27	1.8	<0.005	0.11	18.5	8.8	1.60	1150	4.00	2.54	7.9	26.6	753
455514 (8983062)	19.4	0.21	1.6	<0.005	0.52	17.4	11.2	2.06	814	2.20	3.26	5.2	32.7	478
455515 (8983063)	17.6	0.22	1.3	<0.005	1.15	14.6	8.0	2.90	1360	1.53	2.52	3.7	62.4	538
455516 (8983064)	15.2	0.22	1.6	<0.005	1.74	13.8	10.9	3.46	924	1.35	1.97	1.6	116	686
455517 (8983065)	16.0	0.20	2.2	<0.005	1.46	14.1	12.1	3.51	818	3.47	2.13	2.2	115	694
455518 (8983066)	14.0	0.18	1.6	<0.005	1.36	10.6	6.5	2.27	783	3.01	3.00	3.3	50.2	266
455519 (8983067)	17.2	0.17	3.2	<0.005	1.38	21.2	10.1	3.05	745	3.33	2.98	3.2	106	781
455520 (8983068)	17.9	0.20	2.2	<0.005	0.96	14.0	14.4	3.44	659	2.65	2.89	3.0	92.3	639
455521 (8983069)	15.8	0.16	2.4	<0.005	0.65	14.9	11.2	3.48	718	4.78	3.80	2.9	103	764
455522 (8983070)	15.0	0.25	2.4	<0.005	0.79	16.5	14.9	4.73	875	2.79	2.41	1.4	305	789
455523 (8983071)	10.3	0.34	1.6	<0.005	0.54	14.9	18.4	7.33	1610	1.46	0.04	1.0	726	508
455524 (8983072)	24.9	0.28	2.8	<0.005	1.97	33.9	24.3	1.85	1010	2.98	2.99	15.0	19.4	1840
455525 (8983073)	10.1	0.35	1.7	<0.005	0.90	15.1	17.5	8.01	1630	1.23	0.21	1.2	712	488
455526 (8983074)	10.2	0.36	1.6	<0.005	0.78	14.7	16.0	8.32	1650	0.98	0.38	0.9	757	493
455527 (8983075)	10.3	0.35	1.7	<0.005	0.92	14.6	15.4	7.60	1710	1.33	0.03	0.9	692	485
455528 (8983076)	10.5	0.34	1.7	<0.005	1.02	14.0	13.0	7.63	1720	1.28	0.03	1.0	687	458
455529 (8983077)	10.6	0.34	1.9	<0.005	1.51	12.9	16.1	5.40	1200	5.35	0.15	0.9	554	338
455530 (8983078)	4.90	0.39	0.5	<0.005	0.63	6.4	3.4	1.84	463	9.87	0.03	0.6	227	26
455531 (8983079)	17.3	0.34	2.3	<0.005	1.21	11.9	21.3	4.89	664	7.27	1.21	1.9	237	318
455532 (8983080)	16.8	0.32	1.5	<0.005	1.70	11.0	7.2	2.45	674	2.57	3.23	1.9	48.2	367

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Certificate of Analysis

AGAT WORK ORDER: 17B296297

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Feb 13, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Unit:	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.05	0.05	0.1	0.005	0.01	0.5	0.1	0.01	1	0.05	0.01	0.1	0.5	10
455533 (8983081)	10.6	0.36	1.7	<0.005	0.88	13.4	17.6	7.93	1680	1.14	0.07	1.2	684	404
455534 (8983082)	9.94	0.37	1.8	<0.005	0.77	13.8	14.6	8.20	1630	0.95	0.35	1.1	718	500
455535 (8983083)	9.65	0.36	1.7	<0.005	0.41	14.1	17.4	8.62	1660	0.79	0.26	0.8	781	487
455536 (8983084)	20.5	0.18	2.5	<0.005	3.71	39.3	37.5	1.69	624	110	2.12	18.6	62.3	1130
455537 (8983085)	10.2	0.36	1.6	<0.005	0.24	14.2	18.9	8.52	1690	1.96	0.08	1.3	779	458
455538 (8983086)	10.8	0.33	2.2	<0.005	0.08	14.1	10.2	5.43	1220	1.39	1.02	1.4	368	344
455539 (8983087)	18.5	0.24	2.6	<0.005	0.30	16.1	10.2	2.90	580	2.12	4.26	2.8	83.0	524
455540 (8983088)	16.7	0.25	2.4	<0.005	0.46	13.6	6.6	2.24	599	2.82	3.65	4.2	63.7	312
455541 (8983089)	16.9	0.18	2.5	<0.005	1.00	15.9	4.7	1.23	465	4.82	3.43	4.8	52.7	491
455542 (8983090)	18.8	0.32	2.7	<0.005	1.07	17.4	5.1	2.01	842	2.59	3.55	4.5	50.7	395
455543 (8983091)	18.9	0.14	2.8	<0.005	0.80	16.3	9.1	2.52	576	3.21	2.87	5.9	72.3	426
455544 (8983092)	9.25	0.23	1.7	<0.005	0.01	13.8	13.2	7.48	2000	1.45	0.04	1.5	744	453
455545 (8983093)	9.50	0.24	1.9	<0.005	<0.01	14.2	14.8	8.11	1830	0.79	<0.01	1.1	790	454
455546 (8983094)	9.34	0.23	1.8	<0.005	<0.01	13.7	12.6	7.45	1760	0.64	<0.01	1.0	717	424
455547 (8983095)	10.0	0.26	1.9	<0.005	<0.01	13.5	14.6	7.34	1750	0.87	<0.01	0.9	708	436
455548 (8983096)	26.2	0.18	2.8	<0.005	2.01	35.0	23.5	2.02	1100	4.85	3.20	17.0	45.9	2100
455549 (8983097)	10.6	0.23	1.9	<0.005	0.03	14.7	16.9	7.42	1730	2.20	0.05	1.6	717	495
455550 (8983098)	10.3	0.24	1.8	<0.005	0.02	13.4	16.1	6.98	1670	1.58	0.01	1.3	666	438
455551 (8983099)	10.6	0.30	1.9	<0.005	0.08	14.6	16.4	7.43	1740	0.97	<0.01	1.2	625	476
455552 (8983100)	11.0	0.28	2.1	<0.005	0.26	14.9	15.2	7.52	1770	1.24	0.02	2.6	702	515
455553 (8983101)	10.8	0.27	2.0	<0.005	0.11	14.6	18.0	7.95	2030	1.62	0.01	5.9	704	395
455554 (8983102)	10.6	0.28	2.1	<0.005	0.31	14.5	25.6	5.19	1590	1.74	0.05	4.7	589	391
455555 (8983103)	18.8	0.23	3.6	<0.005	0.97	13.4	18.1	3.70	1580	1.29	1.75	7.2	72.6	815
455556 (8983104)	19.2	0.27	3.7	<0.005	1.02	13.8	24.5	3.54	1550	1.30	1.58	6.9	63.9	789
455557 (8983105)	19.7	0.30	3.6	<0.005	1.10	12.9	21.3	3.67	1710	1.52	1.85	6.8	67.6	867
455558 (8983106)	18.6	0.19	2.9	<0.005	1.46	12.6	23.0	2.64	1060	2.37	1.84	5.4	58.5	413
455559 (8983107)	20.3	0.14	2.9	<0.005	1.49	16.3	10.7	1.73	755	2.09	2.68	7.3	40.9	473
455560 (8983108)	17.9	0.09	1.8	0.580	3.05	20.3	23.1	1.74	564	1130	2.04	10.7	36.4	1040
455561 (8983109)	19.0	0.12	3.1	<0.005	1.69	15.3	8.4	1.93	735	5.86	2.12	6.2	52.6	530
455562 (8983110)	19.9	0.11	2.7	<0.005	2.26	14.9	4.6	1.62	877	3.56	2.29	7.1	30.5	924
455563 (8983111)	18.1	0.09	2.4	<0.005	1.60	13.9	4.6	2.08	1040	3.51	2.19	5.4	47.2	595
455564 (8983112)	17.7	0.16	1.9	<0.005	1.64	12.1	5.9	2.17	1190	2.33	1.28	4.9	43.4	492

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AGAT WORK ORDER: 17B296297

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Feb 13, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Unit:	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.05	0.05	0.1	0.005	0.01	0.5	0.1	0.01	1	0.05	0.01	0.1	0.5	10
455565 (8983113)	18.7	0.07	4.4	<0.005	1.39	22.8	3.3	1.22	757	3.15	2.43	8.8	27.5	395
455566 (8983114)	18.7	0.17	2.5	<0.005	0.98	15.2	7.4	2.05	1180	2.25	2.37	6.5	36.4	719
455567 (8983115)	19.1	0.16	3.4	<0.005	1.20	22.1	5.3	1.76	1100	2.91	2.88	9.5	21.3	589
455568 (8983116)	19.8	0.15	1.5	<0.005	0.88	14.5	5.6	1.34	753	2.69	2.53	7.6	14.9	438
455569 (8983117)	18.9	0.19	2.2	<0.005	0.84	13.4	6.4	2.22	1200	2.36	2.88	4.8	35.1	542
455570 (8983118)	19.2	0.32	1.9	<0.005	1.36	9.5	22.2	4.03	809	1.84	0.44	3.3	59.2	335
455571 (8983119)	19.3	0.14	2.1	<0.005	1.88	12.7	47.8	3.57	880	1.10	0.88	4.3	60.3	429
455572 (8983120)	26.8	0.11	2.7	<0.005	1.86	35.1	21.8	1.76	942	2.65	2.85	18.2	15.2	1660
455573 (8983121)	18.9	0.22	2.4	<0.005	0.97	11.3	18.7	3.49	1260	1.46	1.31	5.7	60.0	560
455574 (8983122)	12.8	0.17	1.3	<0.005	1.45	10.2	8.6	2.78	1320	6.98	1.28	2.1	40.2	172
455575 (8983123)	18.6	0.11	1.5	<0.005	1.91	8.6	7.0	2.68	934	1.51	2.32	3.2	67.1	254
455576 (8983124)	17.7	0.10	2.4	<0.005	1.63	9.8	6.3	2.41	920	1.62	2.37	3.9	57.1	238
455577 (8983125)	17.6	0.10	1.4	<0.005	1.40	8.0	13.4	3.45	1150	1.27	2.13	2.3	96.1	275
455578 (8983126)	9.16	0.24	1.7	<0.005	0.01	15.0	4.0	5.81	1590	0.98	0.02	1.1	823	411
455579 (8983127)	9.50	0.25	2.0	<0.005	<0.01	15.2	7.1	6.45	1550	0.86	0.01	2.2	681	367
455580 (8983128)	14.1	0.19	3.2	<0.005	0.29	17.3	12.8	4.01	926	1.59	1.74	2.8	245	336
455581 (8983129)	15.3	<0.05	4.3	<0.005	1.04	13.5	5.6	1.47	390	3.21	2.65	4.5	39.7	275
455582 (8983130)	18.0	0.20	1.8	<0.005	1.32	8.8	8.2	3.20	1090	2.78	1.60	3.1	73.4	303
455583 (8983131)	17.1	0.11	4.8	<0.005	1.21	53.7	1.5	1.60	727	2.54	3.54	6.6	24.2	230
455584 (8983132)	17.3	0.09	1.8	0.564	3.01	20.2	22.9	1.71	556	1100	1.98	10.7	35.3	1010
455585 (8983133)	23.0	0.58	3.1	<0.005	1.06	15.9	21.6	4.45	503	6.73	0.60	3.7	107	313
455586 (8983134)	18.7	0.06	3.3	<0.005	1.71	17.5	6.4	2.56	779	4.21	2.13	2.5	48.8	312
455587 (8983135)	20.4	0.05	3.9	<0.005	1.51	17.7	15.0	3.57	574	2.35	1.78	2.2	43.5	656
455588 (8983136)	18.9	0.09	3.3	<0.005	0.82	16.1	4.0	1.88	926	2.18	3.54	5.8	35.2	569
455589 (8983137)	17.3	0.10	3.3	<0.005	0.55	17.6	12.6	2.94	765	1.65	2.83	1.5	46.3	266
455590 (8983138)	18.3	0.09	3.3	<0.005	0.61	12.8	11.1	3.14	894	1.63	2.79	2.2	41.3	307
455591 (8983139)	38.9	0.43	7.6	0.009	1.23	35.8	22.3	5.12	1610	3.67	5.90	15.1	83.3	868
455592 (8983140)	18.6	0.20	2.5	<0.005	0.16	17.8	15.8	4.31	1040	1.47	1.95	5.9	43.8	619
455593 (8983141)	8.61	0.24	0.9	<0.005	0.02	13.1	10.9	3.01	1160	2.06	0.04	1.7	26.4	283
455594 (8983142)	22.6	0.24	3.2	<0.005	0.09	7.4	28.1	7.33	1230	1.63	0.05	7.3	43.5	564
455595 (8983143)	22.3	0.27	2.8	<0.005	0.11	14.8	22.2	5.93	1190	1.73	1.41	4.2	29.3	432
455596 (8983144)	27.2	0.19	2.6	<0.005	1.76	32.2	21.3	2.05	1000	3.66	2.78	17.3	29.7	2010

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Certificate of Analysis

AGAT WORK ORDER: 17B296297

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Feb 13, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Unit:	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.05	0.05	0.1	0.005	0.01	0.5	0.1	0.01	1	0.05	0.01	0.1	0.5	10
455597 (8983145)	16.4	0.15	0.6	<0.005	0.09	3.2	15.5	4.25	1240	1.26	1.66	2.5	93.3	387
455598 (8983146)	12.8	0.20	1.0	<0.005	0.07	7.2	14.5	3.88	1100	1.68	0.03	1.5	40.7	195
455599 (8983147)	19.8	0.45	1.9	<0.005	0.05	9.8	16.8	4.68	1520	1.06	1.85	1.5	20.6	412
455600 (8983148)	19.1	0.17	2.8	<0.005	0.32	17.7	6.6	2.00	751	1.80	2.76	5.2	69.5	327
455601 (8983149)	19.1	0.22	0.9	<0.005	0.23	8.4	10.8	2.87	1300	1.20	1.84	2.3	93.7	266
455602 (8983150)	19.0	0.06	4.5	<0.005	0.56	32.6	4.3	0.74	385	3.10	3.95	8.8	95.5	400
455603 (8983151)	19.4	0.18	1.7	<0.005	0.47	12.3	9.1	2.36	926	1.83	2.39	4.5	125	395
455604 (8983152)	20.8	0.16	2.5	<0.005	0.37	16.6	8.1	2.28	800	1.64	2.94	4.9	54.7	317
455605 (8983153)	17.9	0.11	4.9	<0.005	0.35	24.9	3.5	0.94	496	2.75	4.00	7.0	28.8	317
455606 (8983154)	16.6	0.07	4.6	<0.005	0.52	30.0	3.0	0.71	344	3.86	4.08	7.2	52.2	346
455607 (8983155)	16.6	<0.05	1.5	<0.005	0.30	11.7	16.9	4.50	744	1.72	2.16	2.1	184	313
455608 (8983156)	11.7	0.10	0.5	<0.005	0.02	3.4	25.5	7.71	1050	2.28	0.04	0.7	700	169
455609 (8983157)	14.0	<0.05	0.8	<0.005	0.19	7.4	18.8	4.88	724	1.23	3.06	1.2	181	271

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Certificate of Analysis

AGAT WORK ORDER: 17B296297

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Feb 13, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
Unit:	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
Sample ID (AGAT ID) RDL:	0.1	0.1	0.002	0.01	0.05	0.1	0.5	0.2	0.2	0.05	0.01	0.1	0.01	0.01
455501 (8983049)	1.6	8.6	<0.002	0.09	0.18	22.7	0.8	1.0	191	1.08	<0.01	1.9	0.48	0.03
455502 (8983050)	1.5	18.3	<0.002	0.19	0.12	16.4	1.0	1.3	160	0.75	<0.01	2.2	0.48	0.06
455503 (8983051)	1.4	16.4	<0.002	0.12	0.11	17.8	0.8	1.2	170	0.58	<0.01	2.0	0.49	0.05
455504 (8983052)	1.7	20.2	<0.002	0.06	0.21	13.4	0.9	1.4	183	1.02	<0.01	3.0	0.46	0.06
455505 (8983053)	2.1	9.5	<0.002	0.05	0.28	14.8	0.8	0.9	227	0.79	<0.01	2.5	0.59	0.03
455506 (8983054)	2.1	9.9	<0.002	0.17	0.30	17.6	1.1	1.6	241	1.22	<0.01	2.4	0.55	0.03
455507 (8983055)	2.7	3.5	<0.002	0.11	0.51	24.2	1.1	2.0	296	1.00	<0.01	2.1	0.70	0.01
455508 (8983056)	1.4	8.9	<0.002	0.16	0.32	22.3	1.1	10.5	140	0.65	<0.01	1.7	0.72	0.04
455509 (8983057)	1.4	7.4	<0.002	2.52	0.27	25.0	3.9	12.4	94.8	0.90	0.16	1.7	0.85	0.03
455510 (8983058)	1.7	7.5	<0.002	0.68	0.31	22.0	1.9	6.7	156	0.85	<0.01	3.0	0.74	0.03
455511 (8983059)	2.5	2.3	<0.002	0.24	0.49	25.7	1.4	4.3	244	1.12	<0.01	1.8	0.75	<0.01
455512 (8983060)	3.0	3.5	<0.002	0.25	0.50	44.5	1.1	0.6	117	0.35	<0.01	0.3	0.72	0.02
455513 (8983061)	4.0	3.4	<0.002	0.16	0.84	20.7	1.1	3.0	328	1.02	<0.01	2.9	0.65	0.01
455514 (8983062)	1.4	15.7	<0.002	0.09	0.36	19.3	0.7	1.4	178	0.49	<0.01	2.3	0.41	0.05
455515 (8983063)	1.3	36.0	<0.002	0.15	0.33	23.9	0.5	2.5	196	0.42	<0.01	1.6	0.41	0.12
455516 (8983064)	1.2	53.5	<0.002	0.12	0.26	22.0	0.6	3.6	172	0.21	<0.01	1.5	0.18	0.17
455517 (8983065)	1.2	44.8	<0.002	0.25	0.31	20.9	0.5	3.8	149	0.27	<0.01	2.6	0.21	0.14
455518 (8983066)	2.4	43.3	<0.002	0.48	0.79	16.1	0.5	3.7	142	0.21	<0.01	1.4	0.25	0.17
455519 (8983067)	1.4	45.5	<0.002	0.13	0.48	21.9	0.7	4.4	163	0.44	<0.01	3.4	0.27	0.15
455520 (8983068)	1.2	31.0	<0.002	0.15	0.43	20.1	0.6	4.0	163	0.35	<0.01	2.2	0.28	0.10
455521 (8983069)	1.8	20.0	<0.002	0.40	0.47	21.8	0.6	3.0	250	0.30	<0.01	2.6	0.31	0.07
455522 (8983070)	1.4	34.4	<0.002	0.76	0.37	24.1	<0.5	2.4	261	0.17	0.06	2.4	0.22	0.18
455523 (8983071)	1.0	25.4	<0.002	0.51	0.41	22.3	0.7	0.5	233	0.07	<0.01	1.2	0.18	0.16
455524 (8983072)	12.2	101	<0.002	0.21	<0.05	19.4	1.2	2.8	600	1.06	<0.01	3.7	0.74	0.46
455525 (8983073)	1.1	39.0	<0.002	0.41	0.38	21.2	0.5	0.3	276	0.09	<0.01	1.2	0.20	0.28
455526 (8983074)	1.0	34.6	<0.002	0.85	0.37	21.5	0.6	<0.2	228	0.06	<0.01	1.2	0.16	0.22
455527 (8983075)	1.3	29.5	<0.002	1.14	0.41	21.6	0.6	0.3	251	0.06	0.10	1.1	0.12	0.14
455528 (8983076)	1.3	32.2	<0.002	0.74	0.53	22.1	<0.5	0.4	229	0.07	0.09	1.2	0.11	0.15
455529 (8983077)	3.3	36.5	<0.002	1.57	0.95	18.7	<0.5	<0.2	203	<0.05	0.49	1.3	0.08	0.19
455530 (8983078)	1.6	15.8	<0.002	1.44	0.39	7.9	<0.5	0.4	116	<0.05	0.31	0.4	0.04	0.06
455531 (8983079)	3.0	36.2	<0.002	4.48	0.41	20.6	<0.5	1.3	141	0.21	0.82	1.4	0.23	0.21
455532 (8983080)	2.5	49.5	<0.002	5.30	2.58	22.9	0.6	0.8	200	0.19	0.39	1.3	0.43	0.24

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Certificate of Analysis

AGAT WORK ORDER: 17B296297

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Feb 13, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
Unit:	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
Sample ID (AGAT ID) RDL:	0.1	0.1	0.002	0.01	0.05	0.1	0.5	0.2	0.2	0.05	0.01	0.1	0.01	0.01
455533 (8983081)	1.3	34.5	<0.002	0.94	0.41	23.0	0.5	0.3	206	0.09	0.29	1.1	0.19	0.24
455534 (8983082)	1.3	30.9	<0.002	0.64	0.55	21.2	<0.5	0.2	192	0.08	0.03	1.2	0.16	0.22
455535 (8983083)	1.2	20.4	<0.002	0.23	0.45	20.3	0.6	<0.2	204	0.05	<0.01	1.2	0.11	0.15
455536 (8983084)	21.4	206	0.002	0.43	2.74	14.0	2.4	3.7	330	1.54	0.25	20.9	0.52	0.98
455537 (8983085)	0.9	13.4	<0.002	0.18	0.42	18.9	0.6	0.4	167	0.07	<0.01	1.2	0.11	0.09
455538 (8983086)	1.1	3.6	<0.002	0.33	0.62	19.4	0.6	0.4	157	0.26	<0.01	1.7	0.13	0.02
455539 (8983087)	1.7	8.0	<0.002	0.87	0.68	22.6	0.9	0.8	193	0.34	<0.01	3.1	0.53	0.04
455540 (8983088)	1.8	13.2	<0.002	0.30	0.42	21.1	0.5	1.3	173	0.32	<0.01	2.7	0.47	0.05
455541 (8983089)	2.1	29.1	<0.002	0.34	0.40	18.0	0.6	3.1	201	0.34	<0.01	3.2	0.46	0.11
455542 (8983090)	1.8	28.8	<0.002	0.09	0.22	22.8	0.5	2.4	251	0.32	<0.01	3.4	0.66	0.11
455543 (8983091)	1.8	24.9	<0.002	0.13	0.39	19.1	0.7	2.4	209	0.63	<0.01	2.6	0.53	0.10
455544 (8983092)	0.9	0.6	<0.002	0.22	0.29	19.2	<0.5	0.2	199	0.15	<0.01	1.2	0.12	<0.01
455545 (8983093)	0.8	0.6	<0.002	0.25	0.41	18.8	<0.5	<0.2	177	0.11	<0.01	1.2	0.08	<0.01
455546 (8983094)	0.8	0.8	<0.002	0.28	0.45	17.2	<0.5	<0.2	166	0.09	<0.01	1.1	0.09	<0.01
455547 (8983095)	0.8	0.4	<0.002	0.61	0.44	18.0	1.0	<0.2	182	0.08	<0.01	1.1	0.09	<0.01
455548 (8983096)	12.0	105	<0.002	0.23	0.11	22.0	1.2	3.0	637	1.61	<0.01	4.2	0.80	0.45
455549 (8983097)	0.9	1.8	<0.002	0.27	0.49	17.2	0.6	<0.2	174	0.13	<0.01	1.2	0.11	<0.01
455550 (8983098)	0.9	0.8	<0.002	0.93	0.73	23.2	0.7	<0.2	180	0.10	<0.01	1.1	0.12	<0.01
455551 (8983099)	1.0	3.7	<0.002	0.60	0.60	22.3	0.6	0.3	210	0.08	0.01	1.1	0.12	0.02
455552 (8983100)	1.5	12.8	<0.002	1.02	0.84	22.5	0.8	0.5	194	0.18	0.17	1.3	0.20	0.09
455553 (8983101)	2.8	7.3	<0.002	1.18	1.19	25.6	0.6	0.6	205	0.35	0.17	1.2	0.42	0.09
455554 (8983102)	5.5	14.3	<0.002	3.63	1.29	19.2	0.9	0.8	182	0.36	0.30	1.3	0.33	0.11
455555 (8983103)	4.7	53.9	0.003	0.34	0.69	36.9	1.6	1.4	165	0.61	<0.01	2.0	0.94	0.37
455556 (8983104)	4.4	57.2	0.003	0.22	0.66	37.1	1.3	1.3	147	0.54	<0.01	2.1	0.87	0.37
455557 (8983105)	4.0	53.2	0.002	0.23	0.80	39.6	1.3	1.3	161	0.54	<0.01	2.0	0.97	0.37
455558 (8983106)	10.9	46.3	<0.002	1.25	0.62	19.2	0.9	2.1	140	0.52	0.17	3.2	0.65	0.22
455559 (8983107)	4.9	49.7	<0.002	1.12	0.34	15.1	0.7	2.0	149	1.05	0.14	4.2	0.58	0.21
455560 (8983108)	24.5	106	0.009	1.36	1.36	15.9	13.1	13.0	372	1.00	0.44	8.3	0.38	0.48
455561 (8983109)	3.5	52.7	<0.002	2.48	0.31	17.2	1.1	2.0	110	0.63	0.25	2.7	0.53	0.22
455562 (8983110)	2.7	72.1	<0.002	2.42	0.28	18.5	0.9	2.3	128	0.87	0.24	3.6	0.62	0.29
455563 (8983111)	1.6	53.3	<0.002	1.15	0.22	21.7	0.7	2.6	135	0.59	0.03	2.7	0.60	0.22
455564 (8983112)	1.2	55.0	<0.002	0.64	0.20	24.1	0.6	2.3	128	0.53	<0.01	2.6	0.64	0.22

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Certificate of Analysis

AGAT WORK ORDER: 17B296297

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Feb 13, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
Unit:	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
Sample ID (AGAT ID) RDL:	0.1	0.1	0.002	0.01	0.05	0.1	0.5	0.2	0.2	0.05	0.01	0.1	0.01	0.01
455565 (8983113)	1.4	46.4	<0.002	0.57	0.23	16.3	0.9	2.1	123	0.79	<0.01	4.8	0.53	0.18
455566 (8983114)	1.0	32.3	<0.002	0.89	0.14	26.4	0.9	1.4	170	0.60	<0.01	2.6	0.86	0.12
455567 (8983115)	1.5	38.4	<0.002	0.20	0.16	20.8	0.7	1.6	192	0.93	<0.01	4.0	0.61	0.15
455568 (8983116)	1.1	34.4	<0.002	0.05	0.14	13.5	0.6	1.3	200	0.68	<0.01	1.6	0.48	0.14
455569 (8983117)	0.9	23.4	<0.002	0.16	0.12	26.2	0.7	5.1	119	0.47	<0.01	2.1	0.78	0.08
455570 (8983118)	0.7	37.9	<0.002	0.04	0.26	24.6	0.5	5.6	59.0	0.67	<0.01	1.6	0.38	0.13
455571 (8983119)	2.3	56.4	0.002	0.14	1.09	32.6	1.3	3.5	70.9	0.34	<0.01	1.4	0.55	0.23
455572 (8983120)	12.5	110	<0.002	0.20	0.08	19.8	1.4	3.0	521	2.00	<0.01	4.0	0.68	0.44
455573 (8983121)	3.0	37.5	0.003	0.23	0.65	42.3	1.4	1.1	113	0.36	<0.01	1.3	0.79	0.20
455574 (8983122)	1.0	41.3	<0.002	0.17	0.29	14.1	0.5	2.8	107	0.19	<0.01	2.1	0.22	0.15
455575 (8983123)	1.0	59.3	<0.002	0.08	0.15	19.6	<0.5	4.0	131	0.42	<0.01	2.3	0.33	0.20
455576 (8983124)	1.1	50.6	<0.002	0.06	0.88	16.5	<0.5	3.5	135	0.45	<0.01	2.5	0.30	0.17
455577 (8983125)	0.9	42.4	<0.002	0.11	0.18	23.3	0.7	2.7	131	0.31	<0.01	1.1	0.38	0.14
455578 (8983126)	1.7	0.5	<0.002	0.20	0.31	22.1	1.0	0.4	159	0.16	0.04	1.2	0.19	<0.01
455579 (8983127)	1.4	0.3	<0.002	0.44	0.24	22.6	0.8	0.3	198	0.22	0.04	1.2	0.33	<0.01
455580 (8983128)	1.2	8.6	<0.002	0.21	0.19	18.7	0.6	1.0	124	0.39	<0.01	3.3	0.24	0.03
455581 (8983129)	1.2	33.5	<0.002	0.26	0.22	9.8	0.6	2.5	104	0.45	<0.01	4.3	0.21	0.11
455582 (8983130)	0.8	40.2	<0.002	0.27	0.14	28.5	0.6	3.6	115	0.36	<0.01	1.4	0.69	0.12
455583 (8983131)	1.6	40.2	<0.002	0.17	0.23	15.8	0.8	3.4	129	0.77	<0.01	8.4	0.36	0.12
455584 (8983132)	24.6	107	0.010	1.35	1.40	15.4	13.3	12.9	398	1.04	0.40	8.1	0.38	0.47
455585 (8983133)	0.9	34.8	<0.002	0.14	0.28	23.0	0.6	2.6	41.2	1.15	<0.01	3.2	0.23	0.11
455586 (8983134)	1.2	56.7	<0.002	0.05	0.30	17.8	0.6	3.9	106	0.27	<0.01	3.5	0.13	0.17
455587 (8983135)	1.0	47.5	<0.002	0.04	0.20	19.4	<0.5	5.9	86.7	0.21	<0.01	3.5	0.18	0.15
455588 (8983136)	1.2	26.1	<0.002	0.08	0.23	19.3	0.8	4.1	151	0.42	<0.01	3.1	0.46	0.07
455589 (8983137)	1.1	18.5	<0.002	0.04	0.13	20.6	0.6	3.6	116	0.22	<0.01	5.0	0.15	0.04
455590 (8983138)	1.2	20.0	<0.002	0.04	0.19	18.7	0.6	6.0	121	0.16	<0.01	3.0	0.19	0.05
455591 (8983139)	3.4	50.2	<0.002	0.13	1.34	40.5	1.6	13.4	257	6.72	0.04	8.4	0.80	0.18
455592 (8983140)	1.1	5.2	<0.002	0.05	0.11	21.0	1.0	7.3	40.9	0.54	<0.01	2.6	0.67	0.01
455593 (8983141)	0.6	0.6	<0.002	0.10	<0.05	11.0	0.8	1.5	31.3	0.09	<0.01	0.9	0.27	<0.01
455594 (8983142)	0.6	3.5	<0.002	0.02	1.97	22.7	0.7	5.0	5.2	0.78	<0.01	3.3	0.80	<0.01
455595 (8983143)	0.7	4.0	<0.002	0.02	0.09	33.6	1.1	7.1	34.7	0.48	<0.01	2.4	1.07	<0.01
455596 (8983144)	13.5	106	<0.002	0.20	<0.05	21.3	1.3	3.2	560	1.67	<0.01	3.2	0.77	0.42

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AGAT WORK ORDER: 17B296297

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Feb 13, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
Unit:	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
Sample ID (AGAT ID) RDL:	0.1	0.1	0.002	0.01	0.05	0.1	0.5	0.2	0.2	0.05	0.01	0.1	0.01	0.01
455597 (8983145)	0.7	3.0	<0.002	0.07	0.06	37.1	1.0	5.1	53.7	0.18	<0.01	0.3	0.60	<0.01
455598 (8983146)	0.5	2.5	<0.002	0.06	0.06	21.4	0.7	7.2	24.2	<0.05	0.01	0.5	0.45	<0.01
455599 (8983147)	0.8	1.5	<0.002	0.05	0.06	35.8	0.8	19.1	36.4	0.12	<0.01	1.4	1.52	<0.01
455600 (8983148)	1.6	10.5	<0.002	0.14	0.10	21.8	1.0	3.3	81.6	0.38	<0.01	3.3	0.57	0.02
455601 (8983149)	1.3	8.1	<0.002	0.19	0.06	32.2	0.9	4.8	107	0.19	<0.01	1.3	0.79	0.02
455602 (8983150)	2.8	18.1	<0.002	0.21	0.13	9.7	1.7	3.0	102	0.83	0.04	7.0	0.34	0.04
455603 (8983151)	2.0	16.3	<0.002	0.22	0.11	24.5	1.3	3.9	135	0.43	0.02	2.3	0.57	0.04
455604 (8983152)	1.5	12.0	<0.002	0.07	0.15	21.9	0.8	3.4	132	0.44	<0.01	3.7	0.45	0.03
455605 (8983153)	1.6	11.0	<0.002	0.07	0.06	9.1	0.6	1.3	99.0	0.72	<0.01	7.3	0.28	0.02
455606 (8983154)	2.6	14.1	<0.002	0.19	0.10	7.6	1.1	2.3	105	0.72	<0.01	6.7	0.30	0.03
455607 (8983155)	1.3	11.6	<0.002	0.07	0.07	23.3	<0.5	2.1	113	0.18	<0.01	1.9	0.27	0.02
455608 (8983156)	2.4	1.2	<0.002	0.14	0.13	17.3	1.5	1.4	38.7	<0.05	0.26	0.4	0.15	<0.01
455609 (8983157)	1.1	7.4	<0.002	0.07	0.06	21.6	0.8	1.1	140	0.13	<0.01	0.8	0.23	0.01

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AGAT WORK ORDER: 17B296297

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Feb 13, 2018 | SAMPLE TYPE: Drill Core

Analyte:	U	V	W	Y	Zn	Zr
Unit:	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.005	0.5	0.1	0.1	0.5	0.5
455501 (8983049)	0.369	143	0.6	22.6	102	41.6
455502 (8983050)	0.469	101	0.5	19.3	69.0	41.7
455503 (8983051)	0.431	112	0.4	18.6	73.5	47.4
455504 (8983052)	0.762	70.5	0.4	26.2	55.6	75.0
455505 (8983053)	0.541	72.9	0.3	22.3	65.2	64.5
455506 (8983054)	0.556	86.0	0.3	35.7	80.6	66.8
455507 (8983055)	0.504	180	0.4	27.6	84.3	50.3
455508 (8983056)	0.442	175	0.5	27.3	102	56.6
455509 (8983057)	0.438	190	0.8	25.9	118	67.1
455510 (8983058)	0.633	165	0.6	31.0	99.1	74.6
455511 (8983059)	0.474	197	0.4	29.8	89.9	55.7
455512 (8983060)	0.096	297	0.9	20.9	76.7	54.0
455513 (8983061)	0.712	135	0.6	31.3	64.5	69.2
455514 (8983062)	0.451	133	0.6	16.4	64.1	57.1
455515 (8983063)	0.323	171	1.3	10.3	47.2	50.3
455516 (8983064)	0.602	145	2.5	7.2	45.3	77.2
455517 (8983065)	0.804	126	4.1	9.2	48.0	103
455518 (8983066)	0.470	95.0	5.8	7.0	21.9	68.6
455519 (8983067)	0.977	141	4.6	10.2	43.9	128
455520 (8983068)	0.612	125	5.4	8.8	60.3	99.4
455521 (8983069)	0.878	138	4.1	8.5	52.5	112
455522 (8983070)	0.606	151	2.6	6.7	70.8	109
455523 (8983071)	0.196	164	1.0	6.3	92.8	73.5
455524 (8983072)	1.37	137	0.3	41.2	103	116
455525 (8983073)	0.195	159	0.3	4.7	93.9	74.0
455526 (8983074)	0.181	159	0.6	4.4	97.7	73.6
455527 (8983075)	0.170	157	1.6	5.7	74.1	76.5
455528 (8983076)	0.177	158	2.2	5.7	71.0	77.4
455529 (8983077)	0.290	132	3.4	7.0	68.1	81.4
455530 (8983078)	0.123	65.2	3.5	2.9	19.2	19.8
455531 (8983079)	0.348	192	8.4	4.1	102	100
455532 (8983080)	0.263	215	7.8	5.9	29.2	55.6

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AGAT WORK ORDER: 17B296297

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Feb 13, 2018 | SAMPLE TYPE: Drill Core

Analyte:	U	V	W	Y	Zn	Zr
Unit:	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.005	0.5	0.1	0.1	0.5	0.5
455533 (8983081)	0.211	184	2.9	4.4	103	72.1
455534 (8983082)	0.206	166	1.5	4.1	106	75.7
455535 (8983083)	0.189	150	<0.1	4.0	123	71.7
455536 (8983084)	5.37	126	4.2	27.7	86.5	92.5
455537 (8983085)	0.201	133	0.1	4.7	124	75.8
455538 (8983086)	0.263	128	0.8	4.3	78.5	80.2
455539 (8983087)	0.536	205	1.4	6.0	70.7	93.2
455540 (8983088)	0.563	177	1.8	4.9	49.2	88.9
455541 (8983089)	0.471	130	3.7	5.8	25.6	95.5
455542 (8983090)	0.707	203	2.9	6.5	37.9	99.0
455543 (8983091)	0.514	155	2.2	6.8	66.1	105
455544 (8983092)	0.236	131	0.8	6.2	104	78.9
455545 (8983093)	0.199	127	0.3	6.1	108	83.3
455546 (8983094)	0.186	126	0.2	7.1	100	79.5
455547 (8983095)	0.195	160	0.2	6.7	102	84.1
455548 (8983096)	1.29	147	0.4	45.7	109	118
455549 (8983097)	0.203	152	0.2	6.1	108	86.0
455550 (8983098)	0.170	190	0.5	5.8	87.3	80.2
455551 (8983099)	0.194	165	1.2	6.3	91.0	83.6
455552 (8983100)	0.226	168	3.5	6.6	118	94.2
455553 (8983101)	0.310	166	13.3	7.7	135	82.9
455554 (8983102)	0.444	156	13.8	9.8	124	94.4
455555 (8983103)	0.512	300	1.2	34.2	133	155
455556 (8983104)	0.518	287	0.6	34.6	116	154
455557 (8983105)	0.491	322	0.5	35.6	141	154
455558 (8983106)	0.592	145	14.2	9.5	73.4	96.3
455559 (8983107)	0.963	117	20.7	7.9	100	98.4
455560 (8983108)	2.27	147	3.9	18.6	105	69.6
455561 (8983109)	0.640	123	16.5	8.0	47.2	124
455562 (8983110)	0.847	127	17.6	7.3	27.1	100
455563 (8983111)	0.620	147	8.7	6.1	47.6	88.0
455564 (8983112)	0.562	185	4.1	5.5	66.3	65.0

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AGAT WORK ORDER: 17B296297

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Feb 13, 2018 | SAMPLE TYPE: Drill Core

Analyte:	U	V	W	Y	Zn	Zr
Unit:	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.005	0.5	0.1	0.1	0.5	0.5
455565 (8983113)	1.11	126	2.6	8.9	33.5	177
455566 (8983114)	0.592	219	1.7	5.7	57.5	99.7
455567 (8983115)	0.847	125	2.0	8.8	45.1	131
455568 (8983116)	0.340	77.8	1.3	4.8	39.1	53.4
455569 (8983117)	0.506	248	22.6	6.3	56.0	79.8
455570 (8983118)	0.320	214	4.8	5.7	104	69.3
455571 (8983119)	0.361	242	3.7	27.6	80.7	92.2
455572 (8983120)	1.44	134	0.7	44.8	94.3	122
455573 (8983121)	0.327	308	0.9	30.4	104	113
455574 (8983122)	0.434	101	1.1	10.4	32.4	48.8
455575 (8983123)	0.543	137	1.5	6.3	48.1	48.6
455576 (8983124)	0.539	110	1.3	8.5	42.4	95.0
455577 (8983125)	0.238	173	1.3	9.8	67.6	55.2
455578 (8983126)	0.167	145	0.8	12.5	52.1	68.3
455579 (8983127)	0.215	149	2.0	9.9	63.2	81.3
455580 (8983128)	0.626	132	3.3	8.2	84.9	117
455581 (8983129)	0.848	62.0	4.0	8.8	34.0	179
455582 (8983130)	0.363	341	15.1	5.1	65.7	62.1
455583 (8983131)	1.07	132	23.6	11.0	19.2	192
455584 (8983132)	2.27	143	4.2	18.5	103	69.7
455585 (8983133)	0.616	229	4.2	8.4	119	118
455586 (8983134)	0.690	138	2.5	7.7	35.9	139
455587 (8983135)	0.789	109	1.4	8.3	66.4	178
455588 (8983136)	0.715	110	0.6	11.5	34.8	152
455589 (8983137)	0.823	117	0.6	10.0	68.7	138
455590 (8983138)	0.649	111	1.4	10.4	60.6	143
455591 (8983139)	2.26	246	22.5	48.5	119	315
455592 (8983140)	1.12	147	1.6	36.5	92.3	106
455593 (8983141)	0.245	76.5	0.3	24.1	58.9	35.9
455594 (8983142)	0.746	210	0.9	24.5	151	137
455595 (8983143)	0.583	358	1.3	29.4	129	112
455596 (8983144)	1.20	151	0.7	47.2	102	119

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AGAT WORK ORDER: 17B296297

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Feb 13, 2018 | SAMPLE TYPE: Drill Core

Analyte:	U	V	W	Y	Zn	Zr
Unit:	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.005	0.5	0.1	0.1	0.5	0.5
455597 (8983145)	0.096	250	0.7	20.9	94.7	26.4
455598 (8983146)	0.168	143	0.9	18.9	83.9	34.6
455599 (8983147)	0.728	171	0.2	27.3	111	72.5
455600 (8983148)	0.730	266	0.6	30.6	54.4	119
455601 (8983149)	0.302	451	<0.1	20.7	77.7	35.0
455602 (8983150)	1.63	63.6	0.4	37.0	22.5	201
455603 (8983151)	0.549	162	0.3	24.5	56.1	78.0
455604 (8983152)	0.870	142	0.2	26.0	50.8	117
455605 (8983153)	1.65	40.6	0.4	27.1	22.2	216
455606 (8983154)	1.30	41.5	0.6	25.5	15.6	192
455607 (8983155)	0.378	107	0.6	14.3	44.8	69.5
455608 (8983156)	0.086	77.6	0.2	6.5	59.3	22.1
455609 (8983157)	0.171	107	0.2	9.9	42.1	34.0

Comments: RDL - Reported Detection Limit

8983049-8983157 As, Sb values may be low due to digestion losses.

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AGAT WORK ORDER: 17B296297

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(202-551) Fire Assay - Trace Au, AAS finish (50g Charge)

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Feb 13, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Au	Au-Rep
Unit:	ppm	ppm
Sample ID (AGAT ID) RDL:	0.002	0.002
455501 (8983049)	0.011	
455502 (8983050)	0.008	
455503 (8983051)	0.007	
455504 (8983052)	0.007	
455505 (8983053)	0.007	
455506 (8983054)	0.006	
455507 (8983055)	0.007	
455508 (8983056)	0.009	
455509 (8983057)	0.027	
455510 (8983058)	0.012	
455511 (8983059)	0.009	
455512 (8983060)	0.549	
455513 (8983061)	0.009	
455514 (8983062)	0.009	
455515 (8983063)	0.016	
455516 (8983064)	0.009	
455517 (8983065)	0.049	
455518 (8983066)	0.636	
455519 (8983067)	0.033	
455520 (8983068)	0.062	
455521 (8983069)	0.169	
455522 (8983070)	0.118	
455523 (8983071)	0.012	
455524 (8983072)	0.007	
455525 (8983073)	0.048	
455526 (8983074)	0.024	
455527 (8983075)	0.077	
455528 (8983076)	0.037	
455529 (8983077)	0.232	
455530 (8983078)	0.189	
455531 (8983079)	0.824	
455532 (8983080)	1.86	

Certified By: Sherin Moussa

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Certificate of Analysis

AGAT WORK ORDER: 17B296297

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(202-551) Fire Assay - Trace Au, AAS finish (50g Charge)

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Feb 13, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Au	Au-Rep
Unit:	ppm	ppm
Sample ID (AGAT ID) RDL:	0.002	0.002
455533 (8983081)	0.114	
455534 (8983082)	0.032	
455535 (8983083)	0.013	
455536 (8983084)	0.228	
455537 (8983085)	0.006	
455538 (8983086)	0.021	
455539 (8983087)	0.012	
455540 (8983088)	0.028	
455541 (8983089)	0.016	
455542 (8983090)	0.022	
455543 (8983091)	0.004	
455544 (8983092)	0.005	
455545 (8983093)	<0.002	<0.002
455546 (8983094)	<0.002	0.002
455547 (8983095)	<0.002	0.009
455548 (8983096)	<0.002	0.004
455549 (8983097)	0.004	0.014
455550 (8983098)	0.024	0.020
455551 (8983099)	0.059	0.058
455552 (8983100)	0.085	0.092
455553 (8983101)	0.040	0.055
455554 (8983102)	0.556	0.528
455555 (8983103)	0.009	0.011
455556 (8983104)	<0.002	0.003
455557 (8983105)	<0.002	<0.002
455558 (8983106)	0.878	0.829
455559 (8983107)	1.37	1.34
455560 (8983108)	1.59	0.241
455561 (8983109)	2.67	2.80
455562 (8983110)	2.15	2.09
455563 (8983111)	0.652	0.675
455564 (8983112)	0.020	0.031

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AGAT WORK ORDER: 17B296297

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(202-551) Fire Assay - Trace Au, AAS finish (50g Charge)

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Feb 13, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Au	Au-Rep
Unit:	ppm	ppm
Sample ID (AGAT ID) RDL:	0.002	0.002
455565 (8983113)	0.038	0.045
455566 (8983114)	0.012	0.021
455567 (8983115)	<0.002	0.006
455568 (8983116)	<0.002	0.006
455569 (8983117)	0.019	0.021
455570 (8983118)	<0.002	0.007
455571 (8983119)	<0.002	0.011
455572 (8983120)	0.004	N.s.s
455573 (8983121)	0.005	0.005
455574 (8983122)	0.006	0.007
455575 (8983123)	0.005	0.007
455576 (8983124)	0.005	0.006
455577 (8983125)	0.010	0.008
455578 (8983126)	0.014	0.014
455579 (8983127)	0.018	0.015
455580 (8983128)	0.035	0.046
455581 (8983129)	0.083	0.063
455582 (8983130)	0.014	0.018
455583 (8983131)	0.007	0.006
455584 (8983132)	1.49	1.461
455585 (8983133)	0.008	0.007
455586 (8983134)	0.008	0.006
455587 (8983135)	0.006	<0.002
455588 (8983136)	0.012	0.006
455589 (8983137)	0.006	<0.002
455590 (8983138)	0.006	<0.002
455591 (8983139)	1.66	1.70
455592 (8983140)	2.24	2.57
455593 (8983141)	0.039	0.041
455594 (8983142)	0.005	0.018
455595 (8983143)	0.029	0.008
455596 (8983144)	0.005	N.S.S

Certified By: Sherin Moussa

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AGAT WORK ORDER: 17B296297

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(202-551) Fire Assay - Trace Au, AAS finish (50g Charge)

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Feb 13, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Au	Au-Rep
Unit:	ppm	ppm
Sample ID (AGAT ID) RDL:	0.002	0.002
455597 (8983145)	0.007	0.008
455598 (8983146)	0.004	0.013
455599 (8983147)	0.006	<0.002
455600 (8983148)	0.009	0.006
455601 (8983149)	0.008	
455602 (8983150)	0.015	
455603 (8983151)	0.020	
455604 (8983152)	0.005	
455605 (8983153)	0.006	
455606 (8983154)	0.028	
455607 (8983155)	0.006	
455608 (8983156)	0.024	
455609 (8983157)	0.012	

Comments: RDL - Reported Detection Limit

Certified By: Sherin Moussa

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Quality Assurance - Replicate

AGAT WORK ORDER: 17B296297

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

	REPLICATE #1				REPLICATE #2				REPLICATE #3				REPLICATE #4			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Ag	8983049	0.14	0.14	0.0%	8983060	0.25	0.24	4.1%	8983067	0.10	0.10	0.0%	8983072	0.262	0.296	12.2%
Al	8983049	7.63	7.70	0.9%	8983060	7.33	7.46	1.8%	8983067	7.96	7.94	0.3%	8983072	10.2	10.3	1.0%
As	8983049	4.5	6.1		8983060	3.5	6.5		8983067	12.0	8.9	29.7%	8983072	2.2	2.8	24.0%
Ba	8983049	123	127	3.2%	8983060	148	152	2.7%	8983067	250	244	2.4%	8983072	725	739	1.9%
Be	8983049	1.47	1.39	5.6%	8983060	0.943	1.03	8.8%	8983067	1.27	1.14	10.8%	8983072	3.63	3.60	0.8%
Bi	8983049	0.031	0.036	14.9%	8983060	0.04	0.04	0.0%	8983067	0.03	0.01		8983072	0.02	0.02	0.0%
Ca	8983049	4.49	4.57	1.8%	8983060	7.09	7.11	0.3%	8983067	4.07	4.04	0.7%	8983072	4.83	4.96	2.7%
Cd	8983049	0.04	0.04	0.0%	8983060	0.126	0.118	6.6%	8983067	0.037	0.031	17.6%	8983072	0.07	0.07	0.0%
Ce	8983049	29.6	30.1	1.7%	8983060	10.2	10.8	5.7%	8983067	50.0	50.5	1.0%	8983072	78.1	78.0	0.1%
Co	8983049	31.0	32.3	4.1%	8983060	49.3	50.1	1.6%	8983067	29.6	28.9	2.4%	8983072	22.5	23.4	3.9%
Cr	8983049	87.9	83.0	5.7%	8983060	190	195	2.6%	8983067	119	112	6.1%	8983072	31.6	32.2	1.9%
Cs	8983049	0.09	0.09	0.0%	8983060	0.14	0.15	6.9%	8983067	0.343	0.325	5.4%	8983072	1.18	1.21	2.5%
Cu	8983049	41.8	43.5	4.0%	8983060	148	152	2.7%	8983067	72.9	71.5	1.9%	8983072	15.6	16.0	2.5%
Fe	8983049	7.34	7.48	1.9%	8983060	8.35	8.42	0.8%	8983067	5.64	5.62	0.4%	8983072	6.00	6.11	1.8%
Ga	8983049	18.2	18.3	0.5%	8983060	16.3	16.7	2.4%	8983067	17.2	16.8	2.4%	8983072	24.9	26.0	4.3%
Ge	8983049	0.17	0.18	5.7%	8983060	0.240	0.276	14.0%	8983067	0.167	0.195	15.5%	8983072	0.28	0.28	0.0%
Hf	8983049	1.4	1.0		8983060	1.6	1.6	0.0%	8983067	3.18	2.63	18.9%	8983072	2.77	2.54	8.7%
In	8983049	< 0.005	< 0.005	0.0%	8983060	< 0.005	< 0.005	0.0%	8983067	< 0.005	< 0.005	0.0%	8983072	< 0.005	< 0.005	0.0%
K	8983049	0.29	0.30	3.4%	8983060	0.21	0.21	0.0%	8983067	1.38	1.38	0.0%	8983072	1.97	1.98	0.5%
La	8983049	12.8	13.4	4.6%	8983060	3.94	4.19	6.2%	8983067	21.2	21.1	0.5%	8983072	33.9	34.0	0.3%
Li	8983049	16.5	16.6	0.6%	8983060	12.8	13.0	1.6%	8983067	10.1	10.3	2.0%	8983072	24.3	23.7	2.5%
Mg	8983049	2.64	2.65	0.4%	8983060	4.35	4.40	1.1%	8983067	3.05	3.06	0.3%	8983072	1.85	1.89	2.1%
Mn	8983049	1210	1220	0.8%	8983060	1510	1560	3.3%	8983067	745	726	2.6%	8983072	1010	1010	0.0%
Mo	8983049	1.84	1.77	3.9%	8983060	0.853	0.939	9.6%	8983067	3.33	2.97	11.4%	8983072	2.98	3.11	4.3%
Na	8983049	2.32	2.39	3.0%	8983060	2.33	2.34	0.4%	8983067	2.98	2.98	0.0%	8983072	2.99	3.03	1.3%
Nb	8983049	6.1	6.1	0.0%	8983060	3.86	3.52	9.2%	8983067	3.20	3.11	2.9%	8983072	15.0	16.5	9.5%
Ni	8983049	62.7	62.0	1.1%	8983060	89.0	91.6	2.9%	8983067	106	102	3.8%	8983072	19.4	19.4	0.0%
P	8983049	356	351	1.4%	8983060	448	456	1.8%	8983067	781	720	8.1%	8983072	1840	1910	3.7%
Pb	8983049	1.65	2.09	23.5%	8983060	2.99	3.26	8.6%	8983067	1.44	1.24	14.9%	8983072	12.2	11.6	5.0%
Rb	8983049	8.6	8.4	2.4%	8983060	3.5	3.5	0.0%	8983067	45.5	43.1	5.4%	8983072	101	106	4.8%
Re	8983049	< 0.002	< 0.002	0.0%	8983060	0.002	0.002	0.0%	8983067	< 0.002	< 0.002	0.0%	8983072	< 0.002	< 0.002	0.0%

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ATTENTION TO: ALAN SMITH, STEPHEN ROACH

S	8983049	0.091	0.096	5.3%	8983060	0.25	0.25	0.0%	8983067	0.13	0.13	0.0%	8983072	0.21	0.21	0.0%
Sb	8983049	0.176	0.167	5.2%	8983060	0.50	0.50	0.0%	8983067	0.482	0.412	15.7%	8983072	< 0.05	0.06	
Sc	8983049	22.7	23.0	1.3%	8983060	44.5	44.4	0.2%	8983067	21.9	20.9	4.7%	8983072	19.4	19.7	1.5%
Se	8983049	0.8	1.0	22.2%	8983060	1.1	1.1	0.0%	8983067	0.7	0.7	0.0%	8983072	1.2	1.3	8.0%
Sn	8983049	0.97	0.91	6.4%	8983060	0.6	0.6	0.0%	8983067	4.4	4.3	2.3%	8983072	2.8	3.0	6.9%
Sr	8983049	191	198	3.6%	8983060	117	119	1.7%	8983067	163	170	4.2%	8983072	600	605	0.8%
Ta	8983049	1.08	1.00	7.7%	8983060	0.35	0.27	25.8%	8983067	0.44	0.37	17.3%	8983072	1.06	1.11	4.6%
Te	8983049	< 0.01	< 0.01	0.0%	8983060	< 0.01	< 0.01	0.0%	8983067	< 0.01	< 0.01	0.0%	8983072	< 0.01	< 0.01	0.0%
Th	8983049	1.9	1.8	5.4%	8983060	0.33	0.36	8.7%	8983067	3.4	2.9	15.9%	8983072	3.7	3.6	2.7%
Ti	8983049	0.48	0.51	6.1%	8983060	0.72	0.72	0.0%	8983067	0.266	0.285	6.9%	8983072	0.74	0.75	1.3%
Tl	8983049	0.03	0.03	0.0%	8983060	0.02	0.02	0.0%	8983067	0.151	0.142	6.1%	8983072	0.46	0.43	6.7%
U	8983049	0.369	0.396	7.1%	8983060	0.096	0.107	10.8%	8983067	0.977	0.945	3.3%	8983072	1.37	1.32	3.7%
V	8983049	143	144	0.7%	8983060	297	299	0.7%	8983067	141	135	4.3%	8983072	137	139	1.4%
W	8983049	0.6	0.4		8983060	0.9	0.9	0.0%	8983067	4.65	4.81	3.4%	8983072	0.28	0.23	19.6%
Y	8983049	22.6	22.3	1.3%	8983060	20.9	21.0	0.5%	8983067	10.2	9.84	3.6%	8983072	41.2	43.4	5.2%
Zn	8983049	102	102	0.0%	8983060	76.7	80.4	4.7%	8983067	43.9	43.7	0.5%	8983072	103	107	3.8%
Zr	8983049	41.6	34.0	20.1%	8983060	54.0	54.4	0.7%	8983067	128	120	6.5%	8983072	116	117	0.9%
	REPLICATE #5				REPLICATE #6				REPLICATE #7				REPLICATE #8			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Ag	8983073	0.08	0.08	0.0%	8983084	0.723	0.782	7.8%	8983096	0.34	0.31	9.2%	8983098	0.104	0.130	22.2%
Al	8983073	3.12	3.04	2.6%	8983084	8.36	8.29	0.8%	8983096	10.6	9.81	7.7%	8983098	2.81	2.95	4.9%
As	8983073	9.0	11.5	24.4%	8983084	32.0	28.2	12.6%	8983096	3.4	3.5	2.9%	8983098	38.8	41.9	7.7%
Ba	8983073	54	51	5.7%	8983084	1180	1180	0.0%	8983096	793	760	4.2%	8983098	3	3	0.0%
Be	8983073	1.52	1.52	0.0%	8983084	3.85	3.92	1.8%	8983096	3.64	3.57	1.9%	8983098	1.17	1.15	1.7%
Bi	8983073	0.02	0.02	0.0%	8983084	0.66	0.64	3.1%	8983096	0.02	0.02	0.0%	8983098	0.06	0.06	0.0%
Ca	8983073	6.28	6.20	1.3%	8983084	2.80	2.78	0.7%	8983096	5.39	4.86	10.3%	8983098	6.45	6.86	6.2%
Cd	8983073	0.116	0.101	13.8%	8983084	0.26	0.24	8.0%	8983096	0.09	0.09	0.0%	8983098	0.078	0.087	10.9%
Ce	8983073	33.7	33.3	1.2%	8983084	80.0	72.8	9.4%	8983096	80.1	85.7	6.8%	8983098	29.1	29.5	1.4%
Co	8983073	76.6	82.3	7.2%	8983084	18.1	17.3	4.5%	8983096	24.2	24.7	2.0%	8983098	94.0	91.9	2.3%
Cr	8983073	833	836	0.4%	8983084	87.3	86.7	0.7%	8983096	43.6	41.7	4.5%	8983098	730	747	2.3%
Cs	8983073	0.95	0.99	4.1%	8983084	11.4	11.0	3.6%	8983096	1.26	1.28	1.6%	8983098	0.085	0.087	2.3%
Cu	8983073	119	118	0.8%	8983084	2840	2800	1.4%	8983096	17.5	15.8	10.2%	8983098	26.3	27.5	4.5%
Fe	8983073	9.74	9.71	0.3%	8983084	4.84	4.78	1.2%	8983096	6.32	6.34	0.3%	8983098	10.2	10.7	4.8%
Ga	8983073	10.1	10.4	2.9%	8983084	20.5	20.0	2.5%	8983096	26.2	27.3	4.1%	8983098	10.3	10.3	0.0%

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Ge	8983073	0.349	0.358	2.5%	8983084	0.18	0.20	10.5%	8983096	0.18	0.18	0.0%	8983098	0.242	0.272	11.7%
Hf	8983073	1.7	1.7	0.0%	8983084	2.45	2.25	8.5%	8983096	2.79	2.51	10.6%	8983098	1.81	1.87	3.3%
In	8983073	< 0.005	< 0.005	0.0%	8983084	< 0.005	< 0.005	0.0%	8983096	< 0.005	< 0.005	0.0%	8983098	< 0.005	< 0.005	0.0%
K	8983073	0.90	0.89	1.1%	8983084	3.71	3.70	0.3%	8983096	2.01	1.92	4.6%	8983098	0.02	0.02	0.0%
La	8983073	15.1	15.6	3.3%	8983084	39.3	36.9	6.3%	8983096	35.0	36.3	3.6%	8983098	13.4	13.5	0.7%
Li	8983073	17.5	17.0	2.9%	8983084	37.5	38.0	1.3%	8983096	23.5	23.0	2.2%	8983098	16.1	16.5	2.5%
Mg	8983073	8.01	7.84	2.1%	8983084	1.69	1.68	0.6%	8983096	2.02	1.91	5.6%	8983098	6.98	7.32	4.8%
Mn	8983073	1630	1640	0.6%	8983084	624	615	1.5%	8983096	1100	1030	6.6%	8983098	1670	1750	4.7%
Mo	8983073	1.23	1.04	16.7%	8983084	110	111	0.9%	8983096	4.85	4.91	1.2%	8983098	1.58	0.95	
Na	8983073	0.207	0.202	2.4%	8983084	2.12	2.12	0.0%	8983096	3.20	2.97	7.5%	8983098	0.01	0.01	0.0%
Nb	8983073	1.2	1.2	0.0%	8983084	18.6	19.6	5.2%	8983096	17.0	17.7	4.0%	8983098	1.3	1.1	16.7%
Ni	8983073	712	727	2.1%	8983084	62.3	62.5	0.3%	8983096	45.9	43.2	6.1%	8983098	666	672	0.9%
P	8983073	488	482	1.2%	8983084	1130	1110	1.8%	8983096	2100	1910	9.5%	8983098	438	446	1.8%
Pb	8983073	1.1	1.0	9.5%	8983084	21.4	19.9	7.3%	8983096	12.0	12.9	7.2%	8983098	0.9	1.1	20.0%
Rb	8983073	39.0	40.9	4.8%	8983084	206	201	2.5%	8983096	105	110	4.7%	8983098	0.81	0.74	9.0%
Re	8983073	< 0.002	< 0.002	0.0%	8983084	0.002	0.002	0.0%	8983096	< 0.002	< 0.002	0.0%	8983098	< 0.002	< 0.002	0.0%
S	8983073	0.410	0.404	1.5%	8983084	0.43	0.43	0.0%	8983096	0.226	0.209	7.8%	8983098	0.935	0.992	5.9%
Sb	8983073	0.38	0.52		8983084	2.74	2.64	3.7%	8983096	0.111	0.115	3.5%	8983098	0.727	0.600	19.1%
Sc	8983073	21.2	21.8	2.8%	8983084	14.0	13.8	1.4%	8983096	22.0	19.8	10.5%	8983098	23.2	23.6	1.7%
Se	8983073	0.53	0.59	10.7%	8983084	2.4	2.4	0.0%	8983096	1.2	1.4	15.4%	8983098	0.7	0.7	0.0%
Sn	8983073	0.3	0.3	0.0%	8983084	3.67	3.64	0.8%	8983096	3.0	3.0	0.0%	8983098	< 0.2	< 0.2	0.0%
Sr	8983073	276	264	4.4%	8983084	330	334	1.2%	8983096	637	636	0.2%	8983098	180	200	10.5%
Ta	8983073	0.09	0.09	0.0%	8983084	1.54	1.57	1.9%	8983096	1.61	1.62	0.6%	8983098	0.097	0.089	8.6%
Te	8983073	< 0.01	< 0.01	0.0%	8983084	0.25	0.23	8.3%	8983096	< 0.01	< 0.01	0.0%	8983098	< 0.01	< 0.01	0.0%
Th	8983073	1.2	1.2	0.0%	8983084	20.9	19.1	9.0%	8983096	4.24	4.39	3.5%	8983098	1.1	1.1	0.0%
Ti	8983073	0.203	0.206	1.5%	8983084	0.516	0.515	0.2%	8983096	0.80	0.74	7.8%	8983098	0.116	0.108	7.1%
Tl	8983073	0.284	0.274	3.6%	8983084	0.980	0.921	6.2%	8983096	0.448	0.467	4.2%	8983098	< 0.01	< 0.01	0.0%
U	8983073	0.195	0.188	3.7%	8983084	5.37	4.91	8.9%	8983096	1.29	1.34	3.8%	8983098	0.170	0.161	5.4%
V	8983073	159	162	1.9%	8983084	126	123	2.4%	8983096	147	138	6.3%	8983098	190	192	1.0%
W	8983073	0.3	0.3	0.0%	8983084	4.2	6.8		8983096	0.4	0.2		8983098	0.5	0.5	0.0%
Y	8983073	4.7	4.8	2.1%	8983084	27.7	27.2	1.8%	8983096	45.7	47.0	2.8%	8983098	5.8	5.7	1.7%
Zn	8983073	93.9	94.8	1.0%	8983084	86.5	85.6	1.0%	8983096	109	110	0.9%	8983098	87.3	92.4	5.7%
Zr	8983073	74.0	77.8	5.0%	8983084	92.5	90.0	2.7%	8983096	118	109	7.9%	8983098	80.2	78.6	2.0%

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Quality Assurance - Replicate

AGAT WORK ORDER: 17B296297

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

	REPLICATE #9				REPLICATE #10				REPLICATE #11				REPLICATE #12			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Ag	8983101	0.27	0.23	16.0%	8983108	3.68	3.72	1.1%	8983120	0.35	0.31	12.1%	8983123	0.07	0.11	
Al	8983101	2.99	2.97	0.7%	8983108	7.05	7.02	0.4%	8983120	9.70	9.68	0.2%	8983123	8.24	8.08	2.0%
As	8983101	324	296	9.0%	8983108	14.0	15.3	8.9%	8983120	2.3	3.5		8983123	1.7	3.3	
Ba	8983101	12	13	8.0%	8983108	746	729	2.3%	8983120	735	728	1.0%	8983123	276	268	2.9%
Be	8983101	1.10	1.33	18.9%	8983108	2.25	2.21	1.8%	8983120	3.31	3.40	2.7%	8983123	1.02	1.10	7.5%
Bi	8983101	0.19	0.18	5.4%	8983108	4.83	4.73	2.1%	8983120	0.02	0.03		8983123	< 0.01	< 0.01	0.0%
Ca	8983101	7.37	7.19	2.5%	8983108	2.90	2.82	2.8%	8983120	4.76	4.74	0.4%	8983123	4.31	4.27	0.9%
Cd	8983101	0.17	0.17	0.0%	8983108	0.644	0.662	2.8%	8983120	0.08	0.18		8983123	0.03	0.02	
Ce	8983101	31.8	30.0	5.8%	8983108	39.1	40.0	2.3%	8983120	80.8	86.1	6.4%	8983123	19.0	20.5	7.6%
Co	8983101	87.6	79.2	10.1%	8983108	23.8	23.7	0.4%	8983120	23.3	24.5	5.0%	8983123	35.1	36.4	3.6%
Cr	8983101	871	911	4.5%	8983108	69.3	65.5	5.6%	8983120	27.1	27.9	2.9%	8983123	21.9	23.0	4.9%
Cs	8983101	0.379	0.351	7.7%	8983108	4.83	4.79	0.8%	8983120	1.36	1.36	0.0%	8983123	0.32	0.33	3.1%
Cu	8983101	77.1	77.0	0.1%	8983108	10600	10300	2.9%	8983120	17.4	18.0	3.4%	8983123	8.6	8.3	3.6%
Fe	8983101	10.4	10.2	1.9%	8983108	7.12	6.94	2.6%	8983120	5.44	5.44	0.0%	8983123	5.47	5.47	0.0%
Ga	8983101	10.8	10.0	7.7%	8983108	17.9	17.7	1.1%	8983120	26.8	28.3	5.4%	8983123	18.6	19.2	3.2%
Ge	8983101	0.267	0.306	13.6%	8983108	0.09	0.10	10.5%	8983120	0.111	0.138	21.7%	8983123	0.11	0.06	
Hf	8983101	2.0	1.9	5.1%	8983108	1.8	1.8	0.0%	8983120	2.73	3.02	10.1%	8983123	1.5	1.6	6.5%
In	8983101	< 0.005	< 0.005	0.0%	8983108	0.580	0.580	0.0%	8983120	< 0.005	< 0.005	0.0%	8983123	< 0.005	< 0.005	0.0%
K	8983101	0.11	0.11	0.0%	8983108	3.05	3.03	0.7%	8983120	1.86	1.87	0.5%	8983123	1.91	1.87	2.1%
La	8983101	14.6	13.8	5.6%	8983108	20.3	20.2	0.5%	8983120	35.1	36.6	4.2%	8983123	8.58	9.67	11.9%
Li	8983101	18.0	16.9	6.3%	8983108	23.1	22.8	1.3%	8983120	21.8	21.5	1.4%	8983123	7.01	6.53	7.1%
Mg	8983101	7.95	7.88	0.9%	8983108	1.74	1.73	0.6%	8983120	1.76	1.75	0.6%	8983123	2.68	2.62	2.3%
Mn	8983101	2030	2010	1.0%	8983108	564	551	2.3%	8983120	942	949	0.7%	8983123	934	898	3.9%
Mo	8983101	1.62	1.43	12.5%	8983108	1130	1120	0.9%	8983120	2.65	2.71	2.2%	8983123	1.51	1.75	14.7%
Na	8983101	0.01	0.01	0.0%	8983108	2.04	1.99	2.5%	8983120	2.85	2.85	0.0%	8983123	2.32	2.32	0.0%
Nb	8983101	5.9	5.4	8.8%	8983108	10.7	11.0	2.8%	8983120	18.2	17.7	2.8%	8983123	3.2	3.3	3.1%
Ni	8983101	704	724	2.8%	8983108	36.4	34.7	4.8%	8983120	15.2	16.6	8.8%	8983123	67.1	66.4	1.0%
P	8983101	395	401	1.5%	8983108	1040	989	5.0%	8983120	1660	1670	0.6%	8983123	254	247	2.8%
Pb	8983101	2.77	2.62	5.6%	8983108	24.5	24.7	0.8%	8983120	12.5	13.0	3.9%	8983123	1.0	1.0	0.0%
Rb	8983101	7.30	6.93	5.2%	8983108	106	108	1.9%	8983120	110	113	2.7%	8983123	59.3	62.4	5.1%
Re	8983101	< 0.002	< 0.002	0.0%	8983108	0.0095	0.0098	3.1%	8983120	< 0.002	< 0.002	0.0%	8983123	< 0.002	< 0.002	0.0%
S	8983101	1.18	1.14	3.4%	8983108	1.36	1.34	1.5%	8983120	0.20	0.20	0.0%	8983123	0.085	0.087	2.3%

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CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

Sb	8983101	1.19	1.06	11.6%	8983108	1.36	1.44	5.7%	8983120	0.08	< 0.05		8983123	0.151	0.158	4.5%
Sc	8983101	25.6	26.7	4.2%	8983108	15.9	14.9	6.5%	8983120	19.8	19.9	0.5%	8983123	19.6	19.0	3.1%
Se	8983101	0.6	0.8	28.6%	8983108	13.1	13.4	2.3%	8983120	1.38	1.30	6.0%	8983123	< 0.5	0.7	
Sn	8983101	0.6	0.4		8983108	13.0	13.2	1.5%	8983120	3.0	3.3	9.5%	8983123	4.04	4.32	6.7%
Sr	8983101	205	207	1.0%	8983108	372	369	0.8%	8983120	521	516	1.0%	8983123	131	130	0.8%
Ta	8983101	0.35	0.31	12.1%	8983108	1.00	1.01	1.0%	8983120	2.00	1.58	23.5%	8983123	0.423	0.460	8.4%
Te	8983101	0.173	0.213	20.7%	8983108	0.442	0.447	1.1%	8983120	< 0.01	< 0.01	0.0%	8983123	< 0.01	< 0.01	0.0%
Th	8983101	1.2	1.1	8.7%	8983108	8.3	8.3	0.0%	8983120	4.0	4.3	7.2%	8983123	2.30	2.24	2.6%
Ti	8983101	0.416	0.403	3.2%	8983108	0.38	0.38	0.0%	8983120	0.68	0.68	0.0%	8983123	0.33	0.34	3.0%
Tl	8983101	0.086	0.082	4.8%	8983108	0.483	0.486	0.6%	8983120	0.44	0.48	8.7%	8983123	0.205	0.218	6.1%
U	8983101	0.310	0.306	1.3%	8983108	2.27	2.32	2.2%	8983120	1.44	1.52	5.4%	8983123	0.543	0.548	0.9%
V	8983101	166	172	3.6%	8983108	147	139	5.6%	8983120	134	136	1.5%	8983123	137	134	2.2%
W	8983101	13.3	12.2	8.6%	8983108	3.90	3.63	7.2%	8983120	0.7	0.5		8983123	1.54	1.62	5.1%
Y	8983101	7.7	7.2	6.7%	8983108	18.6	18.5	0.5%	8983120	44.8	46.1	2.9%	8983123	6.3	6.7	6.2%
Zn	8983101	135	123	9.3%	8983108	105	101	3.9%	8983120	94.3	107	12.6%	8983123	48.1	47.4	1.5%
Zr	8983101	82.9	79.4	4.3%	8983108	69.6	71.5	2.7%	8983120	122	131	7.1%	8983123	48.6	54.0	10.5%
	REPLICATE #13				REPLICATE #14				REPLICATE #15				REPLICATE #16			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Ag	8983132	3.75	3.55	5.5%	8983137	0.06	0.06	0.0%	8983144	0.35	0.32	9.0%	8983148	0.15	0.15	0.0%
Al	8983132	7.00	6.93	1.0%	8983137	7.28	7.32	0.5%	8983144	9.74	9.59	1.6%	8983148	6.88	7.12	3.4%
As	8983132	13.7	13.5	1.5%	8983137	40.7	34.8	15.6%	8983144	4.14	4.68	12.2%	8983148	18.4	16.8	9.1%
Ba	8983132	723	710	1.8%	8983137	115	114	0.9%	8983144	695	688	1.0%	8983148	99	104	4.9%
Be	8983132	2.25	2.14	5.0%	8983137	1.00	1.01	1.0%	8983144	3.60	3.49	3.1%	8983148	1.48	1.21	20.1%
Bi	8983132	4.78	4.88	2.1%	8983137	< 0.01	< 0.01	0.0%	8983144	0.02	0.02	0.0%	8983148	0.02	0.02	0.0%
Ca	8983132	2.84	2.85	0.4%	8983137	3.22	3.20	0.6%	8983144	4.82	4.70	2.5%	8983148	4.41	4.42	0.2%
Cd	8983132	0.646	0.623	3.6%	8983137	< 0.02	0.03		8983144	0.09	0.08	11.8%	8983148	< 0.02	< 0.02	0.0%
Ce	8983132	39.8	38.6	3.1%	8983137	35.9	33.4	7.2%	8983144	75.8	79.6	4.9%	8983148	35.8	37.7	5.2%
Co	8983132	24.0	23.3	3.0%	8983137	41.2	33.4	20.9%	8983144	25.8	26.5	2.7%	8983148	42.3	43.3	2.3%
Cr	8983132	66.8	66.4	0.6%	8983137	20.2	23.4	14.7%	8983144	32.6	30.4	7.0%	8983148	14.6	16.7	13.4%
Cs	8983132	4.74	4.62	2.6%	8983137	0.11	0.11	0.0%	8983144	1.23	1.19	3.3%	8983148	0.12	0.12	0.0%
Cu	8983132	10400	10400	0.0%	8983137	5.74	6.01	4.6%	8983144	14.5	15.3	5.4%	8983148	49.3	48.0	2.7%
Fe	8983132	6.80	6.82	0.3%	8983137	5.20	5.19	0.2%	8983144	6.07	5.91	2.7%	8983148	5.75	5.79	0.7%
Ga	8983132	17.3	17.2	0.6%	8983137	17.3	17.1	1.2%	8983144	27.2	26.9	1.1%	8983148	19.1	19.5	2.1%
Ge	8983132	0.087	0.073	17.5%	8983137	0.097	0.106	8.9%	8983144	0.194	0.213	9.3%	8983148	0.169	0.176	4.1%

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Hf	8983132	1.8	1.8	0.0%	8983137	3.3	3.0	9.5%	8983144	2.6	2.6	0.0%	8983148	2.82	2.87	1.8%
In	8983132	0.564	0.590	4.5%	8983137	< 0.005	< 0.005	0.0%	8983144	< 0.005	< 0.005	0.0%	8983148	< 0.005	< 0.005	0.0%
K	8983132	3.01	2.98	1.0%	8983137	0.55	0.55	0.0%	8983144	1.76	1.75	0.6%	8983148	0.325	0.342	5.1%
La	8983132	20.2	20.2	0.0%	8983137	17.6	16.1	8.9%	8983144	32.2	33.5	4.0%	8983148	17.7	18.4	3.9%
Li	8983132	22.9	22.9	0.0%	8983137	12.6	12.8	1.6%	8983144	21.3	20.9	1.9%	8983148	6.6	7.5	12.8%
Mg	8983132	1.71	1.69	1.2%	8983137	2.94	2.96	0.7%	8983144	2.05	2.00	2.5%	8983148	2.00	2.02	1.0%
Mn	8983132	556	553	0.5%	8983137	765	760	0.7%	8983144	1000	997	0.3%	8983148	751	774	3.0%
Mo	8983132	1100	1080	1.8%	8983137	1.65	1.86	12.0%	8983144	3.66	3.65	0.3%	8983148	1.80	2.07	14.0%
Na	8983132	1.98	1.98	0.0%	8983137	2.83	2.81	0.7%	8983144	2.78	2.75	1.1%	8983148	2.76	2.88	4.3%
Nb	8983132	10.7	10.7	0.0%	8983137	1.50	1.35	10.5%	8983144	17.3	15.2	12.9%	8983148	5.2	5.4	3.8%
Ni	8983132	35.3	35.3	0.0%	8983137	46.3	47.3	2.1%	8983144	29.7	28.8	3.1%	8983148	69.5	72.3	3.9%
P	8983132	1010	1010	0.0%	8983137	266	287	7.6%	8983144	2010	1900	5.6%	8983148	327	334	2.1%
Pb	8983132	24.6	24.6	0.0%	8983137	1.07	1.02	4.8%	8983144	13.5	11.9	12.6%	8983148	1.57	1.49	5.2%
Rb	8983132	107	107	0.0%	8983137	18.5	18.1	2.2%	8983144	106	108	1.9%	8983148	10.5	10.6	0.9%
Re	8983132	0.0099	0.0106	6.8%	8983137	< 0.002	< 0.002	0.0%	8983144	< 0.002	< 0.002	0.0%	8983148	< 0.002	< 0.002	0.0%
S	8983132	1.35	1.32	2.2%	8983137	0.04	0.04	0.0%	8983144	0.196	0.189	3.6%	8983148	0.144	0.152	5.4%
Sb	8983132	1.40	1.30	7.4%	8983137	0.13	0.13	0.0%	8983144	< 0.05	< 0.05	0.0%	8983148	0.097	0.073	28.2%
Sc	8983132	15.4	15.4	0.0%	8983137	20.6	20.8	1.0%	8983144	21.3	20.9	1.9%	8983148	21.8	22.2	1.8%
Se	8983132	13.3	13.2	0.8%	8983137	0.6	0.5	18.2%	8983144	1.3	1.3	0.0%	8983148	1.0	1.2	18.2%
Sn	8983132	12.9	12.7	1.6%	8983137	3.6	3.5	2.8%	8983144	3.2	3.2	0.0%	8983148	3.26	3.20	1.9%
Sr	8983132	398	394	1.0%	8983137	116	114	1.7%	8983144	560	561	0.2%	8983148	81.6	81.4	0.2%
Ta	8983132	1.04	0.97	7.0%	8983137	0.22	0.16		8983144	1.67	0.94		8983148	0.380	0.385	1.3%
Te	8983132	0.403	0.406	0.7%	8983137	< 0.01	< 0.01	0.0%	8983144	< 0.01	< 0.01	0.0%	8983148	< 0.01	< 0.01	0.0%
Th	8983132	8.1	8.1	0.0%	8983137	5.0	4.3	15.1%	8983144	3.25	3.42	5.1%	8983148	3.27	3.45	5.4%
Ti	8983132	0.38	0.38	0.0%	8983137	0.146	0.145	0.7%	8983144	0.77	0.75	2.6%	8983148	0.573	0.593	3.4%
Tl	8983132	0.471	0.476	1.1%	8983137	0.04	0.04	0.0%	8983144	0.42	0.44	4.7%	8983148	0.02	0.02	0.0%
U	8983132	2.27	2.24	1.3%	8983137	0.823	0.841	2.2%	8983144	1.20	1.26	4.9%	8983148	0.730	0.726	0.5%
V	8983132	143	142	0.7%	8983137	117	119	1.7%	8983144	151	149	1.3%	8983148	266	273	2.6%
W	8983132	4.2	3.6	15.4%	8983137	0.60	0.53	12.4%	8983144	0.7	0.1		8983148	0.6	0.6	0.0%
Y	8983132	18.5	18.7	1.1%	8983137	10.0	10.0	0.0%	8983144	47.2	47.0	0.4%	8983148	30.6	32.0	4.5%
Zn	8983132	103	99.9	3.1%	8983137	68.7	68.4	0.4%	8983144	102	101	1.0%	8983148	54.4	54.4	0.0%
Zr	8983132	69.7	69.9	0.3%	8983137	138	122	12.3%	8983144	119	118	0.8%	8983148	119	122	2.5%
	REPLICATE #17															
Parameter	Sample ID	Original	Replicate	RPD												

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CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

Ag	8983156	0.400	0.448	11.3%												
Al	8983156	6.15	6.17	0.3%												
As	8983156	3.43	3.24	5.7%												
Ba	8983156	3	3	0.0%												
Be	8983156	0.665	0.685	3.0%												
Bi	8983156	0.025	0.022	12.8%												
Ca	8983156	6.61	6.53	1.2%												
Cd	8983156	0.05	0.03													
Ce	8983156	7.62	7.71	1.2%												
Co	8983156	68.7	65.4	4.9%												
Cr	8983156	711	691	2.9%												
Cs	8983156	0.15	0.15	0.0%												
Cu	8983156	646	634	1.9%												
Fe	8983156	6.61	6.53	1.2%												
Ga	8983156	11.7	11.3	3.5%												
Ge	8983156	0.10	0.09	10.5%												
Hf	8983156	0.5	0.5	0.0%												
In	8983156	< 0.005	< 0.005	0.0%												
K	8983156	0.02	0.02	0.0%												
La	8983156	3.36	3.33	0.9%												
Li	8983156	25.5	25.1	1.6%												
Mg	8983156	7.71	7.72	0.1%												
Mn	8983156	1050	1040	1.0%												
Mo	8983156	2.28	2.54	10.8%												
Na	8983156	0.04	0.04	0.0%												
Nb	8983156	0.7	0.7	0.0%												
Ni	8983156	700	697	0.4%												
P	8983156	169	162	4.2%												
Pb	8983156	2.4	2.4	0.0%												
Rb	8983156	1.2	1.2	0.0%												
Re	8983156	< 0.002	< 0.002	0.0%												
S	8983156	0.14	0.14	0.0%												
Sb	8983156	0.13	0.13	0.0%												
Sc	8983156	17.3	17.2	0.6%												

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ATTENTION TO: ALAN SMITH, STEPHEN ROACH

Se	8983156	1.5	1.6	6.5%												
Sn	8983156	1.4	1.4	0.0%												
Sr	8983156	38.7	31.7	19.9%												
Ta	8983156	< 0.05	< 0.05	0.0%												
Te	8983156	0.26	0.23	12.2%												
Th	8983156	0.4	0.4	0.0%												
Ti	8983156	0.15	0.15	0.0%												
Tl	8983156	< 0.01	< 0.01	0.0%												
U	8983156	0.086	0.081	6.0%												
V	8983156	77.6	77.0	0.8%												
W	8983156	0.2	0.2	0.0%												
Y	8983156	6.5	6.4	1.6%												
Zn	8983156	59.3	60.6	2.2%												
Zr	8983156	22.1	22.5	1.8%												

(202-551) Fire Assay - Trace Au, AAS finish (50g Charge)

	REPLICATE #1				REPLICATE #2				REPLICATE #3				REPLICATE #4			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Au	8983072	0.0067	0.0059	12.7%	8983123	0.005	0.005	0.0%	8983096	< 0.002	< 0.002	0.0%	8983148	0.009	0.011	20.0%
	REPLICATE #5															
Parameter	Sample ID	Original	Replicate	RPD												
Au	8983156	0.0242	0.0223	8.2%												
Au-Rep					8983098	0.020	0.023	14.0%	8983123	0.0072	0.0081	11.8%	8983134	0.006	0.003	
	REPLICATE #6															
Parameter	Sample ID	Original	Replicate	RPD												
Au-Rep	8983148	0.006	0.016													

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Quality Assurance - Certified Reference materials

AGAT WORK ORDER: 17B296297

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

	CRM #1 (ref.GTS-2a)				CRM #2 (ref.TILL-2)				CRM #3 (ref.SY-4)				CRM #4 (ref.TILL-2)			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Al	6.96	6.90	99%	90% - 110%									8.17	8.51	104%	90% - 110%
As	124	136	109%	90% - 110%									26	27	106%	90% - 110%
Ba	186	186	100%	90% - 110%									540	562	104%	90% - 110%
Be					4.0	4.1	102%	90% - 110%	2.6	2.8	107%	90% - 110%				
Ca	4.01	3.90	97%	90% - 110%									0.907	0.935	103%	90% - 110%
Ce	24	24	100%	90% - 110%									98	106	108%	90% - 110%
Co	22.1	23.1	105%	90% - 110%												
Cr													60.3	57.7	96%	90% - 110%
Cs													12	11	91%	90% - 110%
Cu	88.6	81.5	92%	90% - 110%									150	148	99%	90% - 110%
Fe	7.56	7.26	96%	90% - 110%									3.77	3.81	101%	90% - 110%
K	2.021	2.06	102%	90% - 110%												
La													44	47	106%	90% - 110%
Li													47	49.4	105%	90% - 110%
Mg	2.412	2.42	100%	90% - 110%									1.10	1.15	104%	90% - 110%
Mn	1510	1464	97%	90% - 110%									780	794	102%	90% - 110%
Mo													14	15	109%	90% - 110%
Na	0.617	0.595	96%	90% - 110%									1.624	1.69	104%	90% - 110%
Nb													20	20	98%	90% - 110%
Ni	77.1	74.4	97%	90% - 110%									32	35.1	110%	90% - 110%
P	892	944	106%	90% - 110%												
Pb													31	29	93%	90% - 110%
Rb													143	147	103%	90% - 110%
S	0.348	0.387	111%	90% - 110%												
Sb													0.8	0.9	118%	90% - 110%
Sc													12	13	105%	90% - 110%
Sr	92.8	94.4	102%	90% - 110%									144	157	109%	90% - 110%
Ta													1.9	2.1	109%	90% - 110%
Th													18.4	17.9	98%	90% - 110%
Ti													0.53	0.49	92%	90% - 110%
U													5.7	4.4	77%	90% - 110%

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ATTENTION TO: ALAN SMITH, STEPHEN ROACH

V													77	81	105%	90% - 110%
W													5	5	97%	90% - 110%
Zn	208	200	96%	90% - 110%									130	124	95%	90% - 110%
	CRM #5 (ref.GTS-2a)				CRM #6 (ref.SY-4)				CRM #7 (ref.GTS-2a)				CRM #8 (ref.SY-4)			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Al	6.96	6.94	100%	90% - 110%									10.95	11.4	104%	90% - 110%
As									124	135	108%	90% - 110%				
Ba	186	196	105%	90% - 110%									340	360	106%	90% - 110%
Be					2.6	2.8	107%	90% - 110%								
Ca	4.01	3.94	98%	90% - 110%									5.72	5.97	104%	90% - 110%
Ce					122	134	109%	90% - 110%	24	24	100%	90% - 110%				
Co					2.8	2.7	97%	90% - 110%	22.1	24.6	111%	90% - 110%				
Cs					1.5	1.6	104%	90% - 110%								
Cu	88.6	84.8	96%	90% - 110%									7	6.42	91%	90% - 110%
Fe	7.56	7.84	104%	90% - 110%									4.34	4.18	96%	90% - 110%
Ga					35	39	111%	90% - 110%								
K	2.021	2.14	106%	90% - 110%									1.37	1.47	107%	90% - 110%
La					58	65	112%	90% - 110%								
Li													37	40.9	111%	90% - 110%
Mg	2.412	2.48	103%	90% - 110%									0.325	0.320	99%	90% - 110%
Mn	1510	1485	98%	90% - 110%												
Na	0.617	0.619	100%	90% - 110%									5.267	5.47	104%	90% - 110%
Ni	77.1	75.2	98%	90% - 110%									9	8.18	91%	90% - 110%
P	892	957	107%	90% - 110%												
Pb					10	10	95%	90% - 110%								
Rb					55	55	99%	90% - 110%								
S	0.348	0.381	109%	90% - 110%												
Sc													1.1	0.834	76%	90% - 110%
Sr	92.8	97	104%	90% - 110%									1191	1120	94%	90% - 110%
Th					1.4	1.5	110%	90% - 110%								
Ti													0.172	0.175	102%	90% - 110%
U					0.8	0.6	74%	90% - 110%								
V					8	8	101%	90% - 110%					8	7.48	94%	90% - 110%
Y					119	121	102%	90% - 110%								

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CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

Zn	208	225	108%	90% - 110%									93	92.8	100%	90% - 110%
	CRM #9 (ref.SY-4)				CRM #10 (ref.TILL-2)				CRM #11 (ref.GTS-2a)				CRM #12 (ref.SY-4)			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Al					8.17	8.80	108%	90% - 110%					10.95	10.7	98%	90% - 110%
As									124	133	108%	90% - 110%				
Ba					540	559	104%	90% - 110%					340	332	98%	90% - 110%
Be	2.6	2.7	103%	90% - 110%												
Ca					0.907	0.977	108%	90% - 110%					5.72	5.64	99%	90% - 110%
Ce	122	134	110%	90% - 110%					24	24	98%	90% - 110%				
Co	2.8	2.9	103%	90% - 110%					22.1	24.2	109%	90% - 110%				
Cr					60.3	55.8	92%	90% - 110%								
Cs	1.5	1.5	102%	90% - 110%												
Cu					150	148	99%	90% - 110%								
Fe					3.77	3.74	99%	90% - 110%					4.34	3.97	92%	90% - 110%
Ga	35	38	108%	90% - 110%												
K													1.37	1.41	103%	90% - 110%
La	58	64	111%	90% - 110%												
Li					47	49.5	105%	90% - 110%					37	37.8	102%	90% - 110%
Mg					1.10	1.18	107%	90% - 110%					0.325	0.302	93%	90% - 110%
Mn					780	780	100%	90% - 110%								
Na					1.624	1.73	107%	90% - 110%					5.267	5.15	98%	90% - 110%
Ni					32	32.6	102%	90% - 110%					9	8.19	91%	90% - 110%
Pb	10	10	96%	90% - 110%												
Rb	55	60	108%	90% - 110%												
Sc					12	13	108%	90% - 110%					1.1	0.8	72%	90% - 110%
Sr					144	150	104%	90% - 110%					1191	1150	96%	90% - 110%
Th	1.4	1.3	92%	90% - 110%												
Ti					0.53	0.49	92%	90% - 110%					0.172	0.167	97%	90% - 110%
V					77	78	102%	90% - 110%					8	7	87%	90% - 110%
Y	119	127	106%	90% - 110%												
Zn					130	126	97%	90% - 110%					93	87	94%	90% - 110%
	CRM #13 (ref.GTS-2a)															
Parameter	Expect	Actual	Recovery	Limits												
Al	6.96	6.74	97%	90% - 110%												

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CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

Ba	186	181	97%	90% - 110%												
Ca	4.01	3.96	99%	90% - 110%												
Cu	88.6	81.3	92%	90% - 110%												
Fe	7.56	6.88	91%	90% - 110%												
K	2.021	1.98	98%	90% - 110%												
Mg	2.412	2.35	97%	90% - 110%												
Mn	1510	1446	96%	90% - 110%												
Na	0.617	0.599	97%	90% - 110%												
Ni	77.1	70.5	91%	90% - 110%												
P	892	925	104%	90% - 110%												
S	0.348	0.383	110%	90% - 110%												
Sr	92.8	85.6	92%	90% - 110%												
Zn	208	202	97%	90% - 110%												

(202-551) Fire Assay - Trace Au, AAS finish (50g Charge)

	CRM #1 (ref.GS45)				CRM #2 (ref.WW07)				CRM #3				CRM #4			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Au	2.89	3.13	108%	90% - 110%	6.56	6.94	106%	90% - 110%	2.89	2.86	98%	90% - 110%				
Au-Rep													0.36	0.36	100%	90% - 110%
	CRM #5				CRM #6											
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Au-Rep	1.44	1.35	93%	90% - 110%	6.06	6.14	101%	90% - 110%								

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Method Summary

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION
AGAT WORK ORDER: 17B296297
PROJECT: Watershed East - 259
ATTENTION TO: ALAN SMITH, STEPHEN ROACH
SAMPLING SITE:
SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12020		ICP-MS
Al	MIN-200-12020		ICP/OES
As	MIN-200-12020		ICP-MS
Ba	MIN-200-12020		ICP-MS
Be	MIN-200-12020		ICP-MS
Bi	MIN-200-12020		ICP-MS
Ca	MIN-200-12020		ICP/OES
Cd	MIN-200-12020		ICP-MS
Ce	MIN-200-12020		ICP-MS
Co	MIN-200-12020		ICP-MS
Cr	MIN-200-12020		ICP/OES
Cs	MIN-200-12020		ICP-MS
Cu	MIN-200-12020		ICP-MS
Fe	MIN-200-12020		ICP/OES
Ga	MIN-200-12020		ICP-MS
Ge	MIN-200-12020		ICP-MS
Hf	MIN-200-12020		ICP-MS
In	MIN-200-12020		ICP-MS
K	MIN-200-12020		ICP/OES
La	MIN-200-12020		ICP-MS
Li	MIN-200-12020		ICP-MS
Mg	MIN-200-12020		ICP/OES
Mn	MIN-200-12020		ICP/OES
Mo	MIN-200-12020		ICP-MS
Na	MIN-200-12020		ICP/OES
Nb	MIN-200-12020		ICP-MS
Ni	MIN-200-12020		ICP-MS
P	MIN-200-12020		ICP/OES
Pb	MIN-200-12020		ICP-MS
Rb	MIN-200-12020		ICP-MS
Re	MIN-200-12020		ICP-MS
S	MIN-200-12020		ICP/OES
Sb	MIN-200-12020		ICP-MS
Sc	MIN-200-12020		ICP-MS
Se	MIN-200-12020		ICP-MS
Sn	MIN-200-12020		ICP-MS
Sr	MIN-200-12020		ICP-MS
Ta	MIN-200-12020		ICP-MS
Te	MIN-200-12020		ICP-MS
Th	MIN-200-12020		ICP-MS
Ti	MIN-200-12020		ICP/OES
Tl	MIN-200-12020		ICP-MS
U	MIN-200-12020		ICP-MS
V	MIN-200-12020		ICP/OES
W	MIN-200-12020		ICP-MS
Y	MIN-200-12020		ICP-MS
Zn	MIN-200-12020		ICP-MS
Zr	MIN-200-12020		ICP-MS

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Method Summary

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

AGAT WORK ORDER: 17B296297

PROJECT: Watershed East - 259

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Au	MIN-200-12004	BUGBEE, E: A Textbook of Fire Assaying	AA
Au-Rep			AA

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CHESTER #1, MINE SITE, P.O. BOX 100
GOGAMA, ON P0M1W0
(705) 269-0010

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

PROJECT: Watershed East - 259

AGAT WORK ORDER: 17B296302

SOLID ANALYSIS REVIEWED BY: Kevin Motomura, Data Review Supervisor

DATE REPORTED: Jan 08, 2018

PAGES (INCLUDING COVER): 61

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.

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Certificate of Analysis

AGAT WORK ORDER: 17B296302

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(200-) Sample Login Weight

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Jan 08, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Sample Login Weight
Unit:	kg
Sample ID (AGAT ID) RDL:	0.01
455610 (8983576)	2.38
455611 (8983577)	1.16
455612 (8983578)	0.08
455613 (8983579)	2.54
455614 (8983580)	1.98
455615 (8983581)	2.56
455616 (8983582)	2.32
455617 (8983583)	2.38
455618 (8983584)	2.30
455619 (8983585)	2.36
455620 (8983586)	1.72
455621 (8983587)	3.02
455622 (8983588)	1.88
455623 (8983589)	1.62
455624 (8983590)	0.40
455625 (8983591)	1.46
455626 (8983592)	1.56
455627 (8983593)	1.16
455628 (8983594)	2.58
455629 (8983595)	1.92
455630 (8983596)	1.16
455631 (8983597)	1.72
455632 (8983598)	1.36
455633 (8983599)	1.60
455634 (8983600)	1.14
455635 (8983601)	1.54
455636 (8983602)	0.08
455637 (8983603)	1.74
455638 (8983604)	1.48
455639 (8983605)	1.10
455640 (8983606)	1.02

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Certificate of Analysis

AGAT WORK ORDER: 17B296302

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(200-) Sample Login Weight

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Jan 08, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Sample Login Weight
Unit:	kg
Sample ID (AGAT ID) RDL:	0.01
455641 (8983607)	3.12
455642 (8983608)	2.02
455643 (8983609)	2.18
455644 (8983610)	1.88
455645 (8983611)	1.44
455646 (8983612)	1.30
455647 (8983613)	2.46
455648 (8983614)	0.44
455649 (8983615)	2.32
455650 (8983616)	2.52
455651 (8983617)	1.78
455652 (8983618)	1.30
455653 (8983619)	1.40
455654 (8983620)	2.62
455655 (8983621)	2.54
455656 (8983622)	1.50
455657 (8983623)	1.82
455658 (8983624)	0.66
455659 (8983625)	2.08
455660 (8983626)	0.08
455661 (8983627)	2.06
455662 (8983628)	2.42
455663 (8983629)	0.60
455664 (8983630)	1.74
455665 (8983631)	2.82
455666 (8983632)	2.58
455667 (8983633)	2.42
455668 (8983634)	1.38
455669 (8983635)	1.42
455670 (8983636)	0.80
455671 (8983637)	2.32

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PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(200-) Sample Login Weight

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Jan 08, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Sample Login Weight
Unit:	kg
Sample ID (AGAT ID) RDL:	0.01
455672 (8983638)	0.44
455673 (8983639)	2.14
455674 (8983640)	2.12
455675 (8983641)	2.40
455676 (8983642)	1.68
455677 (8983643)	1.22
455678 (8983644)	2.00
455679 (8983645)	2.58
455680 (8983646)	1.82
455681 (8983647)	1.36
455682 (8983648)	2.16
455683 (8983649)	0.92
455684 (8983650)	0.10
455685 (8983651)	0.82
455686 (8983652)	1.10
455687 (8983653)	0.48
455688 (8983654)	2.24
455689 (8983655)	1.18
455690 (8983656)	1.46
455691 (8983657)	1.08
455692 (8983658)	0.86
455693 (8983659)	1.52
455694 (8983660)	1.26
455695 (8983661)	1.16
455696 (8983662)	0.36
455697 (8983663)	1.28
455698 (8983664)	2.12
455699 (8983665)	2.44
455700 (8983666)	1.06
455701 (8983667)	2.10
455702 (8983668)	1.88

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AGAT WORK ORDER: 17B296302

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(200-) Sample Login Weight

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Jan 08, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Sample Login Weight
Unit:	kg
Sample ID (AGAT ID) RDL:	0.01
455703 (8983669)	2.00
455704 (8983670)	1.18
455705 (8983671)	1.26
455706 (8983672)	1.14
455707 (8983673)	0.88
455708 (8983674)	3.18
455709 (8983675)	2.12
455710 (8983676)	1.36
455711 (8983677)	0.52
455712 (8983678)	0.10
455713 (8983679)	3.00
455714 (8983680)	1.26
455715 (8983681)	2.52
455716 (8983682)	0.92
455717 (8983683)	0.88
455718 (8983684)	1.96
455719 (8983685)	1.60
455720 (8983686)	1.36
455721 (8983687)	2.46
455722 (8983688)	2.50
455723 (8983689)	1.70
455724 (8983690)	0.36
455725 (8983691)	0.88
455726 (8983692)	1.36
455727 (8983693)	2.28
455728 (8983694)	1.80
455729 (8983695)	1.70
455730 (8983696)	1.00
455731 (8983697)	1.30
455732 (8983698)	1.36
455733 (8983699)	1.72

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Certificate of Analysis

AGAT WORK ORDER: 17B296302

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(200-) Sample Login Weight

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Jan 08, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Sample Login Weight
Unit:	kg
Sample ID (AGAT ID) RDL:	0.01
455734 (8983700)	1.10
455735 (8983701)	1.48
455736 (8983702)	0.10
455737 (8983703)	1.38
455738 (8983704)	0.64
455739 (8983705)	1.94
455740 (8983706)	1.44
455741 (8983707)	1.92
455742 (8983708)	1.82
455743 (8983709)	2.32
455744 (8983710)	1.24
455745 (8983711)	1.10
455746 (8983712)	1.20
455747 (8983713)	1.56
455748 (8983714)	0.42
455749 (8983715)	1.96
455750 (8983716)	2.12
455751 (8983717)	1.90
455752 (8983718)	2.54
455753 (8983719)	0.98
455754 (8983720)	2.22
455755 (8983721)	1.66
455756 (8983722)	2.40
455757 (8983723)	2.12
455758 (8983724)	1.20
455759 (8983725)	2.28
455760 (8983726)	0.10
455761 (8983727)	1.26
455762 (8983728)	1.42
455763 (8983729)	2.24
455764 (8983730)	1.34

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AGAT WORK ORDER: 17B296302

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(200-) Sample Login Weight

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Jan 08, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Sample Login Weight
Unit:	kg
Sample ID (AGAT ID) RDL:	0.01
455765 (8983731)	1.52
455766 (8983732)	1.04
455767 (8983733)	2.26
455768 (8983734)	0.76
455769 (8983735)	0.98
455770 (8983736)	1.48
455771 (8983737)	1.68
455772 (8983738)	0.36
455773 (8983739)	1.92
455774 (8983740)	2.30
455775 (8983741)	2.50
455776 (8983742)	2.22
455777 (8983743)	1.20
455778 (8983744)	1.88
455779 (8983745)	2.50
455780 (8983746)	2.56
455781 (8983747)	3.16
455782 (8983748)	3.20
455783 (8983749)	1.10
455784 (8983750)	0.10
455785 (8983751)	1.72
455786 (8983752)	2.08
455787 (8983753)	2.22
455788 (8983754)	2.14
455789 (8983755)	1.96
455790 (8983756)	1.64
455791 (8983757)	2.52
455792 (8983758)	2.36
455793 (8983759)	2.56
455794 (8983760)	2.84
455795 (8983761)	2.26

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AGAT WORK ORDER: 17B296302

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(200-) Sample Login Weight

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Jan 08, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Sample Login Weight
Unit:	kg
Sample ID (AGAT ID) RDL:	0.01
455796 (8983762)	0.44
455797 (8983763)	3.10
455798 (8983764)	2.64
455799 (8983765)	2.30
455800 (8983766)	2.84
455801 (8983767)	1.14
455802 (8983768)	2.00
455803 (8983769)	0.90
455804 (8983770)	2.00
455805 (8983771)	3.08
455806 (8983772)	1.72
455807 (8983773)	2.06
455808 (8983774)	3.14
455809 (8983775)	1.10
455810 (8983776)	2.34
455811 (8983777)	1.58
455812 (8983778)	0.10
455813 (8983779)	2.04
455814 (8983780)	2.32

Comments: RDL - Reported Detection Limit

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AGAT WORK ORDER: 17B296302

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Jan 08, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
Sample ID (AGAT ID) RDL:	0.01	0.01	0.2	1	0.05	0.01	0.01	0.02	0.01	0.05	0.5	0.01	0.5	0.01
455610 (8983576)	0.13	7.52	4.5	338	1.57	0.10	4.68	0.07	41.7	20.2	74.3	0.18	32.9	4.19
455611 (8983577)	0.14	8.13	2.5	408	1.46	0.08	4.24	0.08	44.0	25.1	27.7	0.26	53.8	4.42
455612 (8983578)	0.25	6.94	5.8	138	0.90	0.05	6.67	0.14	9.25	44.7	159	0.14	146	7.80
455613 (8983579)	0.16	7.36	1.3	514	1.38	0.04	3.51	0.04	39.3	21.7	44.6	0.25	6.2	4.61
455614 (8983580)	0.36	6.50	1.7	495	1.22	0.42	2.57	0.09	46.8	25.9	33.8	0.26	252	5.50
455615 (8983581)	0.19	7.22	0.9	700	1.62	1.08	1.55	0.03	34.8	13.8	17.3	0.20	44.4	4.09
455616 (8983582)	0.16	7.34	1.6	436	1.48	0.06	2.51	0.13	45.3	10.2	21.7	0.15	18.6	2.88
455617 (8983583)	0.16	7.82	0.3	447	1.34	0.04	1.99	0.06	41.3	6.82	16.4	0.16	2.1	1.90
455618 (8983584)	0.13	7.66	0.8	592	1.46	0.02	1.87	0.04	40.4	7.46	21.2	0.22	0.6	2.07
455619 (8983585)	0.19	7.73	1.7	461	1.41	0.05	2.61	0.11	45.3	9.99	17.1	0.16	39.6	2.32
455620 (8983586)	0.11	7.78	0.4	383	1.20	0.04	1.69	0.07	33.2	7.75	22.5	0.13	10.4	2.10
455621 (8983587)	0.15	7.95	0.7	311	1.46	0.07	2.77	0.11	34.4	13.0	33.3	0.11	16.6	3.14
455622 (8983588)	0.13	7.30	1.6	176	1.12	0.04	1.95	0.07	41.9	9.25	19.5	0.06	1.3	2.20
455623 (8983589)	0.15	7.32	1.0	147	1.20	0.15	5.32	0.08	18.0	42.6	70.1	0.49	60.4	8.89
455624 (8983590)	0.28	9.51	2.5	683	3.21	0.03	4.61	0.09	75.7	21.5	25.0	1.21	19.4	5.80
455625 (8983591)	0.21	7.46	1.3	242	1.59	0.06	3.55	0.04	50.3	15.4	34.0	0.34	20.9	4.21
455626 (8983592)	0.17	7.51	1.5	165	1.60	0.03	2.31	0.03	46.6	20.4	41.6	0.24	<0.5	4.41
455627 (8983593)	0.13	11.4	0.4	2210	2.35	0.04	2.27	0.04	21.8	12.7	52.2	0.31	1.7	3.29
455628 (8983594)	0.21	8.47	1.1	292	1.44	0.05	3.46	0.05	46.2	21.1	25.4	0.35	3.3	4.50
455629 (8983595)	0.20	7.96	2.2	140	1.59	0.09	5.92	0.06	31.6	35.1	137	0.26	58.3	6.38
455630 (8983596)	0.11	8.42	0.9	313	1.39	0.05	3.22	0.05	29.6	15.9	33.0	0.13	7.3	3.19
455631 (8983597)	0.12	8.33	0.9	246	1.62	0.05	2.83	0.03	36.2	19.7	24.7	0.18	11.9	4.02
455632 (8983598)	0.12	7.22	0.5	374	0.96	0.01	2.31	0.03	29.5	13.0	21.2	0.07	80.3	2.42
455633 (8983599)	0.08	6.41	2.4	186	2.05	0.05	6.72	0.10	24.7	43.6	337	0.08	40.0	7.35
455634 (8983600)	0.23	7.58	2.6	307	1.88	0.03	3.58	0.06	66.0	14.2	29.1	0.56	12.4	4.75
455635 (8983601)	0.31	7.62	3.0	322	1.90	0.03	3.64	0.10	77.8	18.4	33.5	0.61	28.3	5.36
455636 (8983602)	0.86	6.88	31.0	987	3.45	0.92	2.59	0.30	72.2	16.1	93.5	13.3	2410	3.88
455637 (8983603)	0.22	7.17	1.7	358	1.31	0.03	5.96	0.19	30.8	48.4	78.7	0.97	131	10.5
455638 (8983604)	0.43	7.64	3.2	221	1.75	0.03	2.96	0.10	76.6	11.3	18.8	0.16	12.3	3.72
455639 (8983605)	0.34	8.10	3.5	278	2.03	0.04	2.34	0.04	78.8	20.8	13.9	0.21	84.8	3.97
455640 (8983606)	0.45	7.65	3.7	360	2.07	0.03	2.32	0.04	69.1	18.0	13.8	0.18	104	3.36
455641 (8983607)	0.34	7.93	3.3	292	1.77	0.05	3.13	0.07	76.9	12.1	21.0	0.32	14.2	3.96

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Certificate of Analysis

AGAT WORK ORDER: 17B296302

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

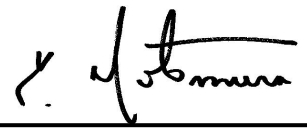
ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Jan 08, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
Sample ID (AGAT ID) RDL:	0.01	0.01	0.2	1	0.05	0.01	0.01	0.02	0.01	0.05	0.5	0.01	0.5	0.01
455642 (8983608)	0.14	7.86	6.4	37	1.13	0.03	4.56	0.04	15.9	44.7	61.4	0.06	57.6	7.86
455643 (8983609)	0.16	8.33	1.3	34	1.30	0.01	3.37	0.03	19.1	35.9	60.6	0.04	21.6	7.26
455644 (8983610)	0.15	8.21	0.8	43	1.46	0.02	2.52	0.03	23.0	26.4	62.8	0.06	<0.5	5.69
455645 (8983611)	0.11	7.57	10.5	142	1.35	0.09	4.84	0.03	21.2	49.5	93.8	0.40	76.4	7.73
455646 (8983612)	0.11	7.46	12.9	110	1.20	0.05	5.03	0.04	15.0	61.8	76.7	0.35	103	7.94
455647 (8983613)	0.08	7.01	1.2	167	1.56	0.02	6.61	0.04	16.8	32.8	60.6	0.10	14.6	7.30
455648 (8983614)	0.28	9.96	1.9	714	3.43	0.02	5.06	0.13	78.3	23.0	24.4	1.19	17.9	6.41
455649 (8983615)	0.12	7.56	1.2	26	1.11	<0.01	4.27	<0.02	20.0	36.4	51.8	0.05	<0.5	7.86
455650 (8983616)	0.21	6.97	1.8	327	1.60	0.01	3.81	<0.02	43.7	15.3	29.0	0.05	<0.5	3.33
455651 (8983617)	0.20	7.73	4.0	71	1.21	0.03	4.60	<0.02	38.4	24.1	41.3	0.05	5.1	4.99
455652 (8983618)	0.09	5.38	1.3	126	1.01	0.02	2.61	<0.02	27.8	9.69	10.7	0.04	<0.5	2.48
455653 (8983619)	0.17	7.63	3.0	87	1.69	0.06	4.26	<0.02	49.0	19.6	20.4	0.09	6.2	4.92
455654 (8983620)	0.23	7.40	2.9	105	1.71	0.07	4.21	<0.02	44.2	20.0	29.0	0.21	22.8	6.11
455655 (8983621)	0.32	7.14	5.4	222	1.69	0.08	2.93	0.05	75.6	10.9	14.7	0.17	232	4.37
455656 (8983622)	0.23	6.76	6.0	287	1.69	0.04	3.95	0.04	78.4	20.1	28.1	0.15	38.8	4.33
455657 (8983623)	0.20	7.32	2.7	182	1.00	0.02	3.99	0.02	29.1	26.7	32.4	0.09	29.8	6.02
455658 (8983624)	0.16	7.13	1.0	68	0.84	0.01	3.77	<0.02	20.4	22.8	31.5	0.06	<0.5	6.30
455659 (8983625)	0.11	7.49	1.3	209	0.99	0.01	6.73	<0.02	20.8	26.4	163	0.17	<0.5	6.80
455660 (8983626)	1.20	8.11	19.9	1060	3.37	1.65	2.89	0.23	74.1	15.9	65.4	12.1	2670	4.65
455661 (8983627)	0.13	7.59	1.1	160	0.86	0.03	5.04	<0.02	44.6	19.0	85.9	0.20	7.0	5.54
455662 (8983628)	0.18	6.68	2.3	583	1.28	0.02	2.61	<0.02	62.4	10.3	17.2	0.23	14.5	3.19
455663 (8983629)	0.10	7.71	1.4	294	1.00	0.02	5.49	0.03	37.4	21.8	108	0.23	<0.5	6.37
455664 (8983630)	0.14	8.29	0.6	199	1.10	0.02	4.37	<0.02	45.2	19.5	69.9	0.16	9.8	5.49
455665 (8983631)	0.13	6.87	1.6	486	1.31	0.01	2.27	<0.02	55.5	10.6	21.7	0.21	6.8	3.56
455666 (8983632)	0.48	7.07	1.4	367	1.40	0.01	3.52	<0.02	57.3	16.9	47.7	0.22	1.8	4.53
455667 (8983633)	0.19	6.79	2.1	424	1.30	0.01	2.54	<0.02	48.0	13.2	9.3	0.18	13.1	3.41
455668 (8983634)	0.21	6.80	2.0	614	1.55	0.01	2.16	<0.02	56.6	10.4	11.2	0.20	8.8	4.97
455669 (8983635)	0.22	6.96	3.2	513	1.37	0.01	2.23	<0.02	53.0	11.4	7.9	0.15	12.5	4.82
455670 (8983636)	0.27	6.71	6.7	472	1.31	0.08	2.13	<0.02	76.2	25.4	4.0	0.12	138	5.10
455671 (8983637)	0.44	6.84	4.2	545	1.65	0.02	2.05	<0.02	73.2	11.8	14.4	0.19	45.0	4.45
455672 (8983638)	0.35	9.70	2.8	674	3.15	0.03	4.58	0.06	73.5	18.0	15.5	1.46	17.8	5.54
455673 (8983639)	0.17	7.48	2.6	281	1.50	0.03	2.83	<0.02	51.6	18.0	15.8	0.12	40.6	4.85

Certified By:



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Certificate of Analysis

AGAT WORK ORDER: 17B296302

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Jan 08, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
Sample ID (AGAT ID) RDL:	0.01	0.01	0.2	1	0.05	0.01	0.01	0.02	0.01	0.05	0.5	0.01	0.5	0.01
455674 (8983640)	0.14	7.18	3.6	253	1.47	0.02	2.72	<0.02	41.0	20.0	9.6	0.12	25.7	5.42
455675 (8983641)	0.09	7.28	1.2	43	1.05	0.01	3.62	0.02	23.8	35.5	61.1	0.10	24.0	7.17
455676 (8983642)	0.09	7.09	1.7	108	1.38	0.01	4.62	0.02	22.4	33.4	40.3	0.10	43.3	6.78
455677 (8983643)	0.09	6.74	2.2	43	1.52	0.01	3.23	0.04	38.5	28.9	55.7	0.08	22.5	7.75
455678 (8983644)	0.56	3.01	19.3	3	1.14	0.01	7.71	0.15	30.0	88.0	680	0.11	107	8.51
455679 (8983645)	0.16	2.49	10.3	1	1.38	0.04	7.22	0.16	26.7	74.1	733	0.05	245	8.91
455680 (8983646)	0.16	2.92	9.4	9	1.58	0.04	7.43	0.18	31.6	77.0	930	0.12	262	8.66
455681 (8983647)	0.12	3.57	5.8	5	1.66	0.04	6.25	0.16	30.8	67.3	705	0.20	212	9.90
455682 (8983648)	0.12	3.05	4.7	4	1.18	0.01	7.81	0.18	33.8	70.8	709	0.09	195	8.42
455683 (8983649)	0.12	2.84	5.5	4	1.14	0.01	8.24	0.19	32.0	66.8	601	0.06	503	7.87
455684 (8983650)	3.52	7.04	11.5	712	1.86	5.15	2.86	0.63	37.6	18.0	70.9	5.04	>10000	7.35
455685 (8983651)	0.12	2.99	1.7	4	1.11	0.02	8.63	0.15	31.2	56.0	716	0.06	176	8.02
455686 (8983652)	0.12	3.07	3.2	4	1.21	0.01	8.50	0.16	30.4	62.1	704	0.10	229	8.34
455687 (8983653)	0.16	3.12	21.0	5	1.10	0.16	6.59	0.16	24.6	70.5	527	0.19	316	7.95
455688 (8983654)	0.14	5.09	23.2	230	1.25	0.16	6.13	0.12	43.5	41.7	318	0.19	76.9	6.92
455689 (8983655)	0.11	6.17	11.8	204	1.26	0.06	3.60	0.07	28.8	28.8	16.6	0.20	36.4	7.99
455690 (8983656)	0.20	6.23	20.3	237	1.29	0.23	3.48	0.06	28.7	27.0	7.8	0.16	74.8	6.90
455691 (8983657)	0.14	6.65	14.1	248	1.41	0.03	3.25	0.07	33.0	20.9	11.2	0.20	41.5	7.45
455692 (8983658)	0.38	6.33	21.3	214	1.29	0.13	3.78	0.09	33.6	33.6	8.3	0.20	44.4	7.53
455693 (8983659)	0.16	6.63	8.3	248	1.37	0.02	3.46	0.08	30.0	14.6	13.3	0.20	38.5	6.26
455694 (8983660)	0.14	6.85	16.0	223	1.25	0.04	2.69	0.04	23.1	23.3	14.9	0.16	4.9	3.40
455695 (8983661)	0.35	6.54	22.6	261	1.33	0.06	4.79	0.06	50.2	33.4	10.2	0.21	168	7.99
455696 (8983662)	0.26	9.74	1.6	678	3.38	0.03	4.89	0.10	80.2	18.1	24.6	1.32	19.0	5.97
455697 (8983663)	0.19	6.67	14.6	229	1.40	0.11	4.56	0.04	45.5	20.5	8.1	0.20	115	7.03
455698 (8983664)	0.16	6.64	16.0	208	1.32	0.07	4.85	0.05	41.5	25.3	7.3	0.18	57.3	7.90
455699 (8983665)	0.16	6.61	22.4	226	1.32	0.05	4.41	0.08	37.6	22.7	6.7	0.20	63.5	7.07
455700 (8983666)	0.18	6.54	24.2	236	1.42	0.09	4.39	0.07	31.2	26.0	6.6	0.22	69.6	7.77
455701 (8983667)	0.60	6.64	78.3	309	1.36	0.56	4.86	0.06	30.0	24.6	6.2	0.32	95.6	8.12
455702 (8983668)	0.18	7.01	53.3	230	1.02	0.26	5.03	0.06	17.0	36.7	19.7	0.29	60.1	7.86
455703 (8983669)	0.15	6.69	21.1	222	1.16	0.09	2.98	0.05	45.8	17.0	17.4	0.29	38.8	4.18
455704 (8983670)	0.28	7.65	23.7	317	1.56	0.76	2.72	0.03	23.1	47.1	11.3	0.37	595	7.93
455705 (8983671)	0.38	6.89	14.5	161	1.15	0.38	2.29	0.03	29.5	34.1	4.5	0.24	1300	8.84

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Certificate of Analysis

AGAT WORK ORDER: 17B296302

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Jan 08, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
Sample ID (AGAT ID) RDL:	0.01	0.01	0.2	1	0.05	0.01	0.01	0.02	0.01	0.05	0.5	0.01	0.5	0.01
455706 (8983672)	0.24	6.61	213	288	1.65	0.98	3.70	0.04	35.0	60.3	4.1	0.33	129	7.17
455707 (8983673)	0.14	6.66	6.3	309	1.54	0.03	1.47	<0.02	65.3	1.91	13.3	0.32	9.3	1.55
455708 (8983674)	0.12	6.58	26.5	212	1.31	0.05	4.25	0.04	30.2	29.0	3.4	0.28	67.0	8.07
455709 (8983675)	0.41	6.31	145	290	1.41	0.63	5.32	0.03	36.1	31.3	11.3	0.35	145	6.52
455710 (8983676)	0.35	5.02	92.9	218	0.99	1.04	11.9	0.03	41.4	30.2	85.8	0.47	11.6	5.11
455711 (8983677)	0.28	7.09	59.0	273	1.38	0.79	2.48	0.03	39.9	19.6	39.7	0.73	8.4	6.72
455712 (8983678)	0.24	7.18	5.5	142	0.78	0.05	7.09	0.13	9.40	41.8	163	0.14	151	8.18
455713 (8983679)	0.05	7.75	25.8	190	1.20	0.01	1.85	<0.02	32.8	25.5	27.5	0.53	<0.5	8.04
455714 (8983680)	0.13	7.25	27.4	234	1.29	<0.01	3.55	0.07	36.0	18.5	19.0	0.47	33.2	5.32
455715 (8983681)	0.17	6.75	20.8	185	1.21	0.02	3.52	0.04	41.2	18.0	17.0	0.28	50.0	5.44
455716 (8983682)	0.14	6.24	9.0	185	1.17	0.03	2.79	0.03	52.5	12.1	10.8	0.19	31.7	4.09
455717 (8983683)	0.22	6.77	23.0	161	1.29	0.04	4.02	0.04	64.8	24.0	6.3	0.16	54.6	6.91
455718 (8983684)	0.17	6.88	48.5	244	1.40	0.07	3.83	0.04	41.0	28.3	12.8	0.28	38.4	5.87
455719 (8983685)	0.21	7.25	20.9	296	1.51	0.07	3.57	0.04	48.3	20.7	8.2	0.30	34.8	6.36
455720 (8983686)	0.18	6.55	20.6	259	1.42	0.04	3.29	0.05	52.5	16.4	11.1	0.22	65.6	5.01
455721 (8983687)	0.11	6.57	16.9	136	1.26	0.02	4.00	0.06	42.5	20.4	11.4	0.14	82.0	8.16
455722 (8983688)	0.14	7.24	20.2	134	1.35	0.03	3.90	0.04	37.7	23.9	15.6	0.14	56.5	7.69
455723 (8983689)	0.18	7.03	22.0	162	1.25	0.02	3.67	0.05	41.8	18.3	14.6	0.19	70.5	6.92
455724 (8983690)	0.29	9.47	1.8	693	3.04	0.02	4.72	0.09	73.7	18.7	20.5	1.43	18.1	5.81
455725 (8983691)	0.14	6.87	26.6	99	1.34	0.05	3.69	0.05	39.9	25.7	8.2	0.13	36.9	7.87
455726 (8983692)	0.13	6.72	15.6	130	1.23	0.01	3.50	0.05	37.5	20.0	9.2	0.15	56.6	7.49
455727 (8983693)	0.14	6.78	17.6	230	1.36	0.02	3.22	0.05	42.8	11.4	19.2	0.27	29.2	5.04
455728 (8983694)	0.16	6.72	21.8	230	1.23	0.05	3.08	0.05	35.8	19.7	13.3	0.28	80.1	5.59
455729 (8983695)	0.18	6.75	23.7	224	1.51	0.02	4.09	0.04	30.2	25.0	51.3	0.37	56.2	6.01
455730 (8983696)	0.17	6.77	13.2	132	1.48	0.06	2.83	0.05	39.2	13.2	17.4	0.22	3.8	6.05
455731 (8983697)	0.40	3.25	583	188	1.55	0.52	10.2	0.20	29.6	68.2	718	0.19	210	7.35
455732 (8983698)	0.10	5.44	132	10	0.87	0.03	5.00	0.06	23.0	39.7	389	0.09	41.8	9.74
455733 (8983699)	0.06	6.86	6.4	203	1.54	<0.01	0.80	<0.02	31.2	11.6	22.5	0.25	51.8	4.82
455734 (8983700)	0.88	5.39	3.8	238	1.26	3.07	0.31	0.03	37.3	7.77	20.0	0.19	2310	2.79
455735 (8983701)	0.08	6.93	3.2	162	1.12	0.04	1.96	0.07	53.5	9.23	21.9	0.19	39.7	3.33
455736 (8983702)	0.76	7.76	25.3	1050	3.38	0.63	2.82	0.26	67.2	14.8	85.7	11.8	2720	4.47
455737 (8983703)	0.12	4.32	41.7	55	0.68	0.02	3.04	0.06	35.8	19.2	75.3	0.08	140	6.05

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Certificate of Analysis

AGAT WORK ORDER: 17B296302

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Jan 08, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
Sample ID (AGAT ID) RDL:	0.01	0.01	0.2	1	0.05	0.01	0.01	0.02	0.01	0.05	0.5	0.01	0.5	0.01
455738 (8983704)	0.13	3.75	798	439	2.33	0.09	11.4	0.17	31.5	52.4	854	0.28	98.5	5.54
455739 (8983705)	0.15	2.93	509	21	1.03	0.22	9.42	0.15	32.0	94.1	984	0.03	129	7.73
455740 (8983706)	0.14	7.31	25.1	261	1.51	0.06	3.30	0.04	31.5	32.2	70.5	0.16	40.8	5.13
455741 (8983707)	0.20	7.12	10.7	264	1.24	0.03	2.07	0.04	46.6	7.75	35.1	0.17	69.3	4.01
455742 (8983708)	0.18	7.00	4.6	381	1.37	0.02	1.92	0.04	41.4	9.41	32.0	0.23	57.5	3.36
455743 (8983709)	0.25	6.02	106	366	1.34	0.06	3.51	0.06	35.9	27.8	271	0.19	84.0	5.13
455744 (8983710)	0.14	6.65	10.1	319	1.31	0.02	1.67	0.02	28.9	12.0	28.9	0.17	37.7	4.32
455745 (8983711)	0.24	6.45	33.2	187	1.09	0.12	2.44	0.18	26.5	8.80	13.5	0.09	204	2.24
455746 (8983712)	0.27	6.70	20.9	238	1.35	0.11	1.70	0.05	31.9	9.00	17.5	0.12	299	1.99
455747 (8983713)	0.82	6.54	15.9	142	1.21	0.17	2.58	0.07	30.7	13.4	29.3	0.08	388	3.44
455748 (8983714)	0.34	9.88	2.7	694	3.21	0.03	4.88	0.07	74.4	19.6	30.6	1.35	22.3	5.88
455749 (8983715)	0.29	6.76	5.2	116	1.39	0.02	3.25	0.03	38.6	14.9	45.0	0.08	14.7	5.32
455750 (8983716)	0.35	6.88	11.3	144	1.29	0.03	3.62	0.05	49.3	21.8	44.3	0.16	31.4	5.13
455751 (8983717)	0.21	6.96	3.7	312	1.49	0.03	3.34	0.04	36.2	7.68	14.5	0.15	16.9	3.10
455752 (8983718)	0.11	7.23	7.3	45	1.21	0.04	3.94	0.03	24.9	28.6	84.3	0.06	53.5	7.67
455753 (8983719)	0.11	6.72	13.6	55	1.09	0.03	4.87	0.05	25.5	35.4	77.6	0.08	81.0	6.39
455754 (8983720)	0.18	6.42	18.8	138	1.35	0.04	3.64	0.06	30.8	32.8	44.5	0.20	48.9	5.23
455755 (8983721)	0.12	6.43	10.1	199	1.36	0.05	4.92	0.04	28.1	29.3	124	0.99	55.0	7.26
455756 (8983722)	0.62	6.94	7.5	277	1.71	0.08	2.77	0.07	40.1	16.8	26.8	0.65	75.7	5.48
455757 (8983723)	0.35	4.62	27.7	89	2.30	0.12	5.25	0.09	33.0	63.5	799	0.51	242	9.90
455758 (8983724)	0.33	4.37	3.4	2	1.00	0.02	12.1	0.07	28.8	28.8	730	0.05	239	8.00
455759 (8983725)	0.22	7.12	10.5	177	1.67	0.11	3.04	0.05	46.8	21.5	20.2	0.45	41.2	6.88
455760 (8983726)	1.09	7.74	18.4	1010	3.26	1.47	2.79	0.21	66.2	14.4	88.1	11.8	2550	4.39
455761 (8983727)	0.12	7.06	14.2	116	1.11	0.17	5.29	0.05	16.7	39.8	86.6	1.22	92.6	8.77
455762 (8983728)	0.16	7.09	14.0	231	1.50	0.11	4.13	0.04	24.0	31.0	51.6	0.26	68.7	6.45
455763 (8983729)	0.69	7.55	11.0	223	1.53	0.06	1.85	0.02	42.1	25.9	29.6	0.08	83.1	5.03
455764 (8983730)	0.21	6.97	2.5	270	1.67	0.04	0.91	0.02	47.4	9.91	21.4	0.07	54.2	4.16
455765 (8983731)	0.45	7.58	8.9	156	1.49	0.27	3.46	0.03	39.0	20.4	12.6	0.77	765	7.25
455766 (8983732)	0.73	7.28	21.1	118	1.62	0.49	2.24	<0.02	46.7	45.7	12.8	0.53	867	7.61
455767 (8983733)	0.19	7.29	11.6	247	1.68	0.20	3.84	0.06	45.6	22.8	12.8	1.22	76.1	6.72
455768 (8983734)	0.14	6.37	3.7	328	1.66	0.05	3.64	0.10	30.5	14.4	46.2	1.10	31.1	5.11
455769 (8983735)	0.39	3.50	37.2	34	1.93	0.10	9.26	0.03	25.8	65.5	1010	0.97	221	8.85

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Certificate of Analysis

AGAT WORK ORDER: 17B296302

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Jan 08, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
Sample ID (AGAT ID) RDL:	0.01	0.01	0.2	1	0.05	0.01	0.01	0.02	0.01	0.05	0.5	0.01	0.5	0.01
455770 (8983736)	0.14	5.16	173	67	1.78	0.09	14.7	0.06	43.4	72.7	1180	1.28	13.6	7.77
455771 (8983737)	0.15	6.05	125	57	1.54	0.04	6.81	0.16	28.4	45.3	260	0.86	48.5	7.83
455772 (8983738)	0.26	9.32	8.1	619	3.18	0.02	4.85	0.08	70.1	18.6	42.3	1.28	19.9	5.80
455773 (8983739)	0.25	6.73	5.3	210	1.68	0.03	3.42	0.15	36.0	22.6	66.5	0.82	149	7.78
455774 (8983740)	0.19	6.71	4.1	360	1.49	0.24	1.84	0.07	37.9	8.04	27.0	0.30	62.1	4.15
455775 (8983741)	0.56	6.73	3.4	337	1.33	0.81	1.82	0.03	35.5	9.93	27.8	0.17	486	3.78
455776 (8983742)	0.92	6.94	4.0	343	1.37	1.03	2.17	0.08	40.7	7.28	27.3	0.35	217	4.11
455777 (8983743)	0.23	6.99	3.6	299	1.62	0.22	3.14	0.09	48.3	11.2	22.0	0.21	132	3.55
455778 (8983744)	0.44	7.30	8.0	491	1.82	0.03	4.30	0.02	95.1	34.2	28.8	2.69	52.1	10.2
455779 (8983745)	0.21	6.70	2.8	480	1.81	0.14	3.08	0.10	31.6	14.2	21.0	0.96	65.2	4.26
455780 (8983746)	0.23	6.69	3.2	830	2.89	0.12	5.89	0.07	130	26.8	38.4	4.72	83.7	6.66
455781 (8983747)	0.18	6.56	3.6	724	2.77	0.11	6.23	0.04	135	25.2	40.5	4.59	64.0	6.48
455782 (8983748)	0.20	6.49	2.7	652	2.38	0.04	6.04	0.06	129	25.6	49.0	4.30	69.6	7.02
455783 (8983749)	0.38	6.96	11.4	650	2.05	0.17	5.12	0.04	136	60.3	23.2	4.10	167	8.88
455784 (8983750)	3.61	6.94	7.7	721	1.97	4.64	2.81	0.65	33.7	18.1	76.2	5.01	>10000	7.11
455785 (8983751)	0.48	6.20	2.4	436	1.48	0.14	4.80	0.10	52.0	14.2	15.1	0.54	109	2.90
455786 (8983752)	0.19	7.49	1.5	266	1.53	0.04	5.03	0.06	23.0	34.6	42.2	1.12	93.7	7.49
455787 (8983753)	0.20	7.15	3.6	500	1.72	0.03	3.39	0.08	41.2	19.9	30.7	1.25	28.4	5.07
455788 (8983754)	0.21	7.33	1.8	517	1.78	0.04	3.61	0.09	29.7	26.5	37.4	1.60	56.9	6.38
455789 (8983755)	0.21	6.82	2.4	455	2.19	0.06	3.02	0.15	49.3	12.0	22.3	1.28	31.3	3.89
455790 (8983756)	0.27	6.75	5.2	680	2.25	0.05	4.73	0.08	121	23.0	41.4	3.06	93.9	6.55
455791 (8983757)	0.22	6.80	2.3	477	1.72	0.04	2.96	0.10	63.3	9.67	27.8	0.91	30.0	3.21
455792 (8983758)	0.18	7.04	2.7	202	1.45	0.03	4.62	0.05	26.0	36.1	125	0.39	56.2	7.32
455793 (8983759)	0.22	6.67	2.6	536	1.75	0.05	2.82	0.07	53.3	7.25	26.3	0.32	58.5	2.48
455794 (8983760)	0.24	6.69	2.6	602	1.63	0.05	2.09	0.08	65.4	5.83	22.4	0.42	34.7	2.29
455795 (8983761)	0.27	6.63	4.1	540	1.65	0.07	1.57	0.07	82.9	6.23	22.8	0.51	29.8	2.41
455796 (8983762)	0.37	9.87	1.7	754	3.12	0.03	4.73	0.10	81.0	21.9	32.5	1.53	17.0	5.84
455797 (8983763)	0.87	7.05	10.8	328	1.46	0.14	4.77	0.13	33.7	52.6	156	0.77	885	7.63
455798 (8983764)	0.15	6.94	2.9	169	1.19	0.03	5.08	0.07	18.9	47.5	193	0.91	39.0	7.50
455799 (8983765)	0.09	7.22	1.8	288	1.22	<0.01	4.70	0.03	20.1	39.0	152	0.99	5.3	7.10
455800 (8983766)	0.21	7.23	3.5	150	1.23	0.03	4.92	0.09	21.3	46.4	172	0.72	36.7	8.48
455801 (8983767)	0.39	6.77	4.9	378	1.58	0.05	4.14	0.08	63.6	37.2	79.7	0.89	48.8	6.23

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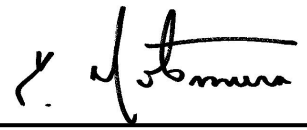

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Certificate of Analysis

AGAT WORK ORDER: 17B296302

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Jan 08, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
Sample ID (AGAT ID) RDL:	0.01	0.01	0.2	1	0.05	0.01	0.01	0.02	0.01	0.05	0.5	0.01	0.5	0.01
455802 (8983768)	0.22	7.62	5.3	162	1.33	0.03	5.00	0.05	79.1	44.1	587	0.65	43.5	10.8
455803 (8983769)	0.24	8.09	8.0	289	1.58	0.02	1.90	0.10	165	23.4	52.3	0.41	11.2	4.82
455804 (8983770)	0.14	7.97	2.1	180	1.31	<0.01	4.89	0.04	32.8	38.3	485	0.57	12.6	9.76
455805 (8983771)	0.31	6.90	3.1	531	1.59	0.06	2.59	0.09	54.6	10.3	17.7	0.49	240	3.61
455806 (8983772)	0.16	6.73	3.8	89	1.04	0.03	5.95	0.08	19.4	48.2	276	0.52	77.4	8.43
455807 (8983773)	0.27	6.53	5.7	373	1.66	0.11	2.07	0.09	75.7	14.3	23.2	0.26	46.5	2.34
455808 (8983774)	0.32	7.24	6.0	295	1.62	0.04	3.76	0.03	64.7	28.1	60.6	0.24	95.7	6.17
455809 (8983775)	0.28	7.19	4.3	436	1.69	0.05	2.03	0.08	86.4	15.4	29.1	0.55	40.9	3.82
455810 (8983776)	0.21	6.85	3.1	434	1.45	0.03	3.39	0.05	71.1	24.8	52.6	0.33	39.8	5.05
455811 (8983777)	0.21	6.43	4.0	459	1.75	0.03	2.00	0.09	83.5	7.25	20.1	0.20	19.9	1.94
455812 (8983778)	0.24	7.21	5.7	147	0.76	0.05	6.98	0.14	9.56	43.5	195	0.16	152	8.21
455813 (8983779)	0.19	7.05	3.0	242	1.53	0.02	4.48	0.05	40.7	26.9	57.9	0.16	69.4	5.99
455814 (8983780)	0.20	7.16	4.6	130	1.21	0.08	4.89	0.08	44.1	27.1	63.1	0.35	65.0	6.09

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AGAT WORK ORDER: 17B296302

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Jan 08, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Unit:	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.05	0.05	0.1	0.005	0.01	0.5	0.1	0.01	1	0.05	0.01	0.1	0.5	10
455610 (8983576)	18.3	<0.05	1.2	0.087	0.85	21.6	12.6	2.25	691	2.01	2.54	5.9	56.7	360
455611 (8983577)	18.5	<0.05	1.2	0.072	1.22	23.3	13.3	2.34	704	2.59	2.74	6.6	54.7	372
455612 (8983578)	15.6	<0.05	1.6	0.083	0.19	3.9	12.0	4.17	1480	0.98	2.21	3.9	87.1	432
455613 (8983579)	18.0	<0.05	1.7	0.066	1.67	20.2	16.2	2.73	666	2.66	1.28	6.2	60.3	314
455614 (8983580)	15.4	<0.05	1.4	0.059	1.68	24.6	18.6	3.16	642	4.50	0.24	5.9	52.5	284
455615 (8983581)	17.8	<0.05	2.6	0.040	2.24	18.4	14.4	2.17	452	5.83	0.82	8.3	28.2	463
455616 (8983582)	18.9	<0.05	2.6	0.044	1.26	24.0	7.6	1.16	418	3.88	2.96	9.4	24.1	445
455617 (8983583)	19.1	<0.05	2.5	0.030	1.18	22.4	7.5	1.04	292	3.87	3.68	8.8	25.2	324
455618 (8983584)	18.7	<0.05	2.2	0.021	1.55	21.5	10.8	1.30	308	5.09	2.95	8.1	28.0	343
455619 (8983585)	18.7	<0.05	2.6	0.036	1.13	24.1	7.4	1.07	371	5.42	3.44	9.8	33.2	379
455620 (8983586)	19.0	<0.05	2.8	0.021	0.83	19.4	6.3	0.90	295	6.09	4.09	7.2	34.0	329
455621 (8983587)	18.7	<0.05	1.6	0.053	0.65	17.7	8.7	1.28	476	3.51	3.62	8.4	28.2	406
455622 (8983588)	16.3	<0.05	1.8	0.031	0.42	22.6	5.5	0.96	326	3.12	4.17	6.7	27.8	295
455623 (8983589)	19.1	<0.05	1.1	0.089	0.67	8.1	24.0	4.05	1380	1.47	0.79	5.7	106	442
455624 (8983590)	24.4	<0.05	2.9	0.097	1.72	35.1	21.9	1.85	1010	2.96	2.81	17.3	25.6	1800
455625 (8983591)	17.5	<0.05	1.6	0.107	0.73	21.7	11.5	1.89	617	3.65	2.80	10.4	46.3	300
455626 (8983592)	17.6	<0.05	1.8	0.093	0.49	21.0	16.6	2.88	681	4.24	2.92	11.0	48.1	277
455627 (8983593)	19.6	<0.05	1.7	0.101	2.33	11.0	18.2	2.05	456	4.94	3.58	8.6	41.6	162
455628 (8983594)	18.2	<0.05	1.2	0.069	0.73	22.6	14.0	2.26	679	2.41	3.18	10.3	45.5	380
455629 (8983595)	18.4	<0.05	1.7	0.073	0.52	15.3	11.2	3.42	1030	1.83	2.33	5.5	44.7	1240
455630 (8983596)	17.6	<0.05	1.3	0.029	0.79	16.6	8.5	1.76	488	2.82	3.75	5.3	36.2	429
455631 (8983597)	18.9	<0.05	1.6	0.044	0.70	19.3	10.6	2.44	618	2.98	3.56	6.8	46.5	397
455632 (8983598)	11.6	<0.05	1.4	0.018	1.80	15.9	7.6	1.66	416	3.18	3.49	5.0	31.2	304
455633 (8983599)	14.8	<0.05	1.1	0.074	0.82	12.6	10.3	6.26	1570	1.58	1.72	3.0	98.3	890
455634 (8983600)	19.4	<0.05	1.7	0.088	0.85	29.0	10.4	1.13	748	4.37	2.87	15.2	33.5	447
455635 (8983601)	20.2	<0.05	1.7	0.101	0.97	33.5	12.3	1.41	805	4.61	2.73	20.1	40.1	447
455636 (8983602)	23.7	<0.05	2.6	<0.005	2.05	47.9	29.7	1.40	685	129	1.80	17.6	50.6	1040
455637 (8983603)	18.6	<0.05	3.5	0.108	1.06	14.5	8.0	3.18	1800	11.8	1.74	8.9	102	782
455638 (8983604)	18.9	<0.05	1.8	0.077	0.57	36.5	8.0	0.92	569	6.22	3.51	19.5	38.4	482
455639 (8983605)	18.6	<0.05	1.9	0.086	0.62	37.0	9.7	1.01	584	4.46	4.03	20.7	31.0	500
455640 (8983606)	16.7	<0.05	2.3	0.072	0.70	34.2	8.8	0.85	525	4.48	3.91	17.7	28.9	480
455641 (8983607)	20.2	<0.05	2.0	0.082	0.75	38.6	10.2	0.96	604	4.30	3.45	15.9	18.3	504

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Certificate of Analysis

AGAT WORK ORDER: 17B296302

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Jan 08, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Unit:	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.05	0.05	0.1	0.005	0.01	0.5	0.1	0.01	1	0.05	0.01	0.1	0.5	10
455642 (8983608)	17.5	<0.05	1.2	0.060	0.15	7.5	21.3	4.33	1510	2.30	2.40	5.7	130	348
455643 (8983609)	17.7	<0.05	1.8	0.041	0.17	9.3	20.8	4.33	1280	1.46	3.00	6.9	109	430
455644 (8983610)	17.9	<0.05	2.3	0.043	0.20	11.3	16.8	3.38	916	0.83	3.60	8.5	66.3	505
455645 (8983611)	18.0	<0.05	1.3	0.105	0.74	9.8	22.2	3.83	1310	1.55	2.32	6.0	84.6	351
455646 (8983612)	17.1	<0.05	0.9	0.102	0.49	6.6	18.6	3.85	1490	1.05	2.33	5.0	104	342
455647 (8983613)	16.1	<0.05	0.9	0.097	0.56	8.0	25.2	4.17	1500	1.42	1.55	4.1	108	294
455648 (8983614)	25.6	<0.05	2.6	0.108	1.75	36.1	22.5	2.08	1110	2.51	2.97	18.6	22.2	1830
455649 (8983615)	17.2	<0.05	1.5	0.043	0.15	9.1	25.1	4.72	1350	2.00	2.06	6.5	120	369
455650 (8983616)	15.4	<0.05	2.3	0.036	0.58	22.1	9.9	1.77	623	2.43	3.44	9.7	43.9	328
455651 (8983617)	17.5	<0.05	2.0	0.057	0.23	18.3	12.7	2.23	840	1.60	3.89	13.6	56.0	384
455652 (8983618)	12.9	<0.05	1.1	0.027	0.40	14.1	5.9	1.05	365	2.93	2.83	6.6	24.8	330
455653 (8983619)	17.2	<0.05	1.8	0.081	0.26	22.9	10.7	1.81	797	1.87	3.37	12.8	31.2	528
455654 (8983620)	18.3	<0.05	2.1	0.090	0.29	21.2	13.0	1.95	923	2.12	2.97	11.2	28.4	513
455655 (8983621)	19.3	<0.05	4.8	0.093	0.49	39.5	5.4	0.94	666	3.33	3.67	15.8	22.5	674
455656 (8983622)	17.4	<0.05	2.8	0.078	0.69	40.0	7.2	1.42	705	2.74	3.10	11.7	28.2	481
455657 (8983623)	17.4	<0.05	1.8	0.057	0.40	14.4	14.5	2.70	772	2.17	2.82	11.0	58.1	421
455658 (8983624)	16.0	<0.05	2.7	0.031	0.17	8.0	16.9	3.34	732	1.23	2.53	4.4	71.3	361
455659 (8983625)	14.4	<0.05	1.7	0.044	0.60	8.0	24.3	4.34	928	0.92	1.79	3.4	139	818
455660 (8983626)	18.9	<0.05	2.5	0.212	3.21	37.9	34.2	1.63	607	97.8	2.13	19.6	42.0	1080
455661 (8983627)	14.9	<0.05	2.4	0.034	0.42	20.2	19.1	3.34	661	1.75	2.66	5.0	86.5	608
455662 (8983628)	17.1	<0.05	3.6	0.025	1.30	29.9	6.3	1.00	334	1.94	2.59	9.2	24.6	340
455663 (8983629)	14.8	<0.05	1.6	0.041	0.65	16.0	20.0	3.39	670	1.29	2.29	4.1	97.4	691
455664 (8983630)	16.1	<0.05	2.6	0.033	0.49	18.5	17.5	3.05	559	1.99	3.24	4.8	86.5	761
455665 (8983631)	15.7	<0.05	2.9	0.036	1.26	27.7	8.5	1.38	306	2.10	2.54	6.2	29.9	296
455666 (8983632)	16.8	<0.05	3.1	0.060	0.98	26.3	10.9	2.05	453	1.94	2.44	6.4	46.3	258
455667 (8983633)	16.3	<0.05	3.9	0.031	0.98	23.7	6.5	1.09	366	2.18	2.88	9.5	15.0	464
455668 (8983634)	18.0	<0.05	2.9	0.035	1.39	26.2	5.0	0.82	370	3.20	2.53	11.5	7.6	684
455669 (8983635)	16.6	<0.05	2.5	0.028	1.19	25.6	5.5	0.99	424	2.58	2.70	11.3	6.3	637
455670 (8983636)	17.6	<0.05	3.6	0.029	1.03	35.5	5.0	0.81	384	3.36	2.99	11.3	3.6	892
455671 (8983637)	19.4	<0.05	3.2	0.042	1.00	35.8	5.5	0.94	299	2.65	3.09	11.1	20.3	602
455672 (8983638)	24.0	<0.05	2.6	0.073	1.77	32.0	22.7	1.73	957	2.80	2.90	17.2	24.9	1540
455673 (8983639)	19.6	<0.05	2.7	0.047	0.52	23.8	7.5	1.46	437	2.83	3.67	7.9	27.8	464

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PROJECT: Watershed East - 259

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ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Jan 08, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Unit:	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.05	0.05	0.1	0.005	0.01	0.5	0.1	0.01	1	0.05	0.01	0.1	0.5	10
455674 (8983640)	19.1	<0.05	2.7	0.043	0.45	18.7	8.5	1.38	423	2.31	3.67	7.4	22.4	599
455675 (8983641)	17.2	<0.05	1.7	0.047	0.09	10.3	13.8	3.30	940	2.10	3.05	3.6	119	370
455676 (8983642)	16.7	<0.05	1.7	0.054	0.20	10.1	10.9	3.10	1160	1.61	3.55	2.6	102	389
455677 (8983643)	17.1	<0.05	2.7	0.043	0.10	17.6	7.3	2.59	1150	1.61	3.87	3.4	87.7	515
455678 (8983644)	9.56	<0.05	2.2	0.049	0.01	14.0	6.3	7.20	1840	0.97	0.03	7.5	617	436
455679 (8983645)	8.63	<0.05	1.7	0.051	<0.01	12.0	3.0	7.54	1620	0.70	0.01	6.0	616	360
455680 (8983646)	9.72	<0.05	2.0	0.062	0.01	14.6	6.2	7.50	1630	0.92	0.01	6.2	657	436
455681 (8983647)	10.3	<0.05	2.0	0.042	0.02	13.9	13.7	7.26	1300	0.94	0.01	4.2	531	456
455682 (8983648)	9.86	<0.05	2.2	0.049	<0.01	15.8	7.0	7.04	1460	0.83	<0.01	4.1	662	449
455683 (8983649)	9.76	<0.05	2.3	0.066	<0.01	14.3	6.5	6.99	1650	1.07	<0.01	4.5	629	458
455684 (8983650)	15.4	<0.05	1.8	0.692	2.95	19.1	23.7	1.77	580	943	2.04	10.0	34.5	928
455685 (8983651)	9.13	<0.05	2.2	0.056	<0.01	14.6	6.4	7.11	1850	1.86	<0.01	3.5	709	481
455686 (8983652)	9.36	<0.05	2.2	0.049	<0.01	14.0	7.4	7.03	1700	1.34	<0.01	4.6	670	471
455687 (8983653)	9.36	<0.05	1.8	0.041	<0.01	11.1	10.0	6.08	1260	1.67	0.02	3.9	467	375
455688 (8983654)	13.4	<0.05	3.1	0.048	0.72	19.7	9.1	4.50	1370	1.27	1.34	4.2	297	778
455689 (8983655)	16.2	<0.05	1.5	0.062	0.75	13.2	10.3	3.07	1150	1.22	1.99	4.4	37.1	310
455690 (8983656)	15.5	<0.05	1.6	0.051	0.85	13.0	4.4	1.69	1150	2.04	3.07	6.3	20.9	365
455691 (8983657)	17.3	<0.05	1.6	0.065	1.05	14.8	5.3	1.82	1100	1.81	2.62	6.2	21.6	391
455692 (8983658)	17.4	<0.05	1.8	0.065	0.96	15.1	5.7	1.78	1220	2.29	2.67	8.5	21.1	388
455693 (8983659)	16.9	<0.05	1.6	0.053	1.16	13.6	3.6	1.50	1060	2.26	2.88	7.4	18.4	355
455694 (8983660)	13.7	<0.05	3.0	0.033	0.89	10.9	3.3	0.83	610	3.57	3.79	4.2	22.8	553
455695 (8983661)	17.3	<0.05	2.1	0.081	1.30	22.7	8.7	1.67	1130	3.73	1.68	9.8	29.7	1000
455696 (8983662)	22.9	<0.05	2.6	0.087	1.72	33.2	22.1	1.85	1050	2.55	2.93	15.2	25.7	1860
455697 (8983663)	17.7	<0.05	3.7	0.065	1.08	19.9	8.6	1.61	1060	3.11	2.10	8.7	25.7	820
455698 (8983664)	16.8	<0.05	2.4	0.065	1.06	18.7	8.0	1.69	1250	2.54	2.08	7.8	25.1	1070
455699 (8983665)	17.3	<0.05	2.8	0.064	1.20	17.1	4.4	1.59	1300	2.24	2.37	6.2	24.5	834
455700 (8983666)	16.8	<0.05	2.0	0.063	1.29	13.9	5.0	1.67	1310	2.40	2.08	8.0	23.8	955
455701 (8983667)	17.2	<0.05	2.0	0.108	1.91	13.6	4.4	1.91	1270	2.04	1.59	6.6	27.1	963
455702 (8983668)	16.1	<0.05	1.6	0.051	1.45	8.2	10.5	2.79	1130	1.90	1.52	3.4	72.3	375
455703 (8983669)	16.2	<0.05	3.4	0.036	1.32	22.8	6.4	1.39	548	4.99	2.33	5.9	38.2	269
455704 (8983670)	19.2	<0.05	1.8	0.070	1.70	10.6	20.2	3.85	754	2.41	0.52	2.5	45.0	488
455705 (8983671)	19.2	<0.05	2.0	0.080	0.85	13.3	21.6	3.72	764	3.39	0.94	2.9	14.1	623

Certified By:

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Certificate of Analysis

AGAT WORK ORDER: 17B296302

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Jan 08, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Unit:	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.05	0.05	0.1	0.005	0.01	0.5	0.1	0.01	1	0.05	0.01	0.1	0.5	10
455706 (8983672)	18.3	<0.05	2.3	0.075	1.64	16.5	4.6	1.45	1080	2.79	1.82	5.8	11.2	585
455707 (8983673)	18.0	<0.05	4.7	0.044	1.49	33.4	1.9	0.44	342	3.86	2.93	8.1	15.6	221
455708 (8983674)	18.4	<0.05	2.0	0.066	0.85	13.7	8.3	1.89	1170	2.98	2.18	4.9	13.8	580
455709 (8983675)	17.2	<0.05	2.0	0.079	1.60	16.4	5.9	1.16	873	3.06	1.57	6.7	17.6	765
455710 (8983676)	12.4	<0.05	1.5	0.104	1.55	18.9	11.2	1.20	1060	2.50	0.35	1.1	30.9	750
455711 (8983677)	18.0	<0.05	2.6	0.067	1.89	19.5	20.8	2.61	361	2.31	0.23	2.0	31.6	591
455712 (8983678)	15.3	<0.05	1.6	0.068	0.20	3.7	13.1	4.32	1550	0.97	2.34	4.0	89.8	438
455713 (8983679)	19.1	<0.05	2.8	0.051	1.22	15.2	37.4	4.59	387	1.34	0.15	1.4	55.6	447
455714 (8983680)	16.5	<0.05	3.2	0.064	1.63	17.3	14.9	2.51	731	1.70	1.46	4.1	39.9	424
455715 (8983681)	16.9	<0.05	3.1	0.053	1.15	19.1	8.6	1.98	816	2.32	2.18	6.9	29.1	639
455716 (8983682)	15.2	<0.05	4.3	0.044	1.06	23.5	4.5	1.33	646	2.65	2.46	6.3	17.7	444
455717 (8983683)	17.9	<0.05	2.2	0.055	0.97	29.8	6.6	1.95	1080	2.40	2.43	13.3	24.5	1010
455718 (8983684)	18.0	<0.05	2.8	0.067	1.50	19.1	5.6	1.65	1000	2.53	2.21	7.1	27.6	635
455719 (8983685)	20.2	<0.05	2.8	0.079	1.58	22.6	6.8	1.70	964	2.74	2.14	6.9	24.5	814
455720 (8983686)	16.7	<0.05	3.1	0.069	1.31	24.2	3.5	1.23	986	2.93	2.61	8.0	24.8	634
455721 (8983687)	17.5	<0.05	2.1	0.077	0.69	20.0	6.3	1.69	1260	2.71	2.92	5.0	29.0	994
455722 (8983688)	17.7	<0.05	1.8	0.066	0.66	17.6	7.8	1.94	1160	1.97	3.12	5.8	37.8	881
455723 (8983689)	18.1	<0.05	2.8	0.069	0.76	19.5	7.3	1.74	1110	2.13	3.02	5.4	37.5	746
455724 (8983690)	24.2	<0.05	2.7	0.083	1.80	31.1	22.4	1.78	1010	2.45	2.93	16.8	23.7	1620
455725 (8983691)	18.7	<0.05	2.4	0.059	0.45	18.7	8.1	1.70	1220	2.51	3.19	6.0	27.6	1080
455726 (8983692)	18.7	<0.05	1.9	0.067	0.57	17.5	7.8	1.50	1020	2.59	3.02	6.1	24.5	949
455727 (8983693)	18.4	<0.05	2.7	0.067	1.22	21.7	4.1	1.05	948	3.82	2.92	6.8	23.3	661
455728 (8983694)	18.4	<0.05	2.1	0.067	1.37	17.4	2.7	1.04	933	3.49	2.77	6.1	24.8	728
455729 (8983695)	17.7	<0.05	2.1	0.080	1.45	13.8	8.9	1.93	1040	2.37	1.94	7.1	66.7	544
455730 (8983696)	18.0	<0.05	2.0	0.061	0.79	18.0	12.7	2.82	816	2.73	2.43	6.4	38.1	692
455731 (8983697)	10.0	<0.05	1.8	0.096	1.10	13.6	6.9	5.01	2340	1.44	0.06	2.6	560	638
455732 (8983698)	13.8	<0.05	1.8	0.053	0.07	10.6	31.1	6.47	1200	2.29	0.04	1.5	363	458
455733 (8983699)	17.6	<0.05	2.1	0.055	1.26	14.0	16.4	3.03	257	2.98	1.32	1.7	12.5	400
455734 (8983700)	14.2	<0.05	1.7	0.164	1.15	16.7	7.4	1.60	124	4.08	1.44	1.3	22.8	229
455735 (8983701)	16.7	<0.05	4.9	0.041	0.80	24.2	9.3	2.45	498	3.94	3.20	2.1	32.6	214
455736 (8983702)	18.7	<0.05	2.5	0.070	3.28	33.9	34.7	1.59	584	98.9	2.12	20.3	57.8	1030
455737 (8983703)	11.4	<0.05	3.1	0.040	0.30	16.5	18.2	4.62	795	5.28	0.24	1.5	137	170

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AGAT WORK ORDER: 17B296302

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Jan 08, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Unit:	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.05	0.05	0.1	0.005	0.01	0.5	0.1	0.01	1	0.05	0.01	0.1	0.5	10
455738 (8983704)	12.9	<0.05	2.3	0.094	1.90	14.8	3.8	4.96	2520	3.41	0.06	3.3	574	492
455739 (8983705)	10.1	<0.05	2.0	0.043	0.08	14.8	11.2	6.55	1980	1.76	0.03	2.4	820	442
455740 (8983706)	16.8	<0.05	2.6	0.051	1.11	14.7	6.8	2.40	961	3.55	2.99	5.4	72.6	374
455741 (8983707)	17.8	<0.05	2.3	0.042	1.08	21.7	3.2	0.82	454	9.90	3.56	9.0	11.1	471
455742 (8983708)	17.0	<0.05	4.3	0.040	1.38	19.6	5.7	1.52	533	5.15	2.83	7.7	30.4	297
455743 (8983709)	15.7	<0.05	2.5	0.058	1.20	16.8	8.2	2.64	973	4.08	1.69	7.2	183	372
455744 (8983710)	17.6	<0.05	2.4	0.053	0.89	13.7	7.8	1.79	449	6.13	2.62	6.9	15.7	319
455745 (8983711)	14.5	<0.05	2.9	0.049	0.51	14.2	2.9	0.44	327	4.34	4.21	5.1	7.5	271
455746 (8983712)	16.6	<0.05	2.5	0.050	0.58	15.1	2.5	0.40	244	5.05	4.30	7.4	7.5	296
455747 (8983713)	15.8	<0.05	1.7	0.063	0.33	14.4	4.2	0.85	475	4.37	3.97	8.8	17.4	340
455748 (8983714)	24.1	<0.05	2.4	0.084	1.80	31.8	23.7	1.85	1050	3.14	3.02	18.3	15.4	1830
455749 (8983715)	17.0	<0.05	2.1	0.051	0.23	17.1	6.5	1.45	738	2.12	3.53	18.5	25.5	353
455750 (8983716)	18.6	<0.05	2.2	0.064	0.29	20.4	7.5	1.57	795	1.63	3.52	22.1	26.5	333
455751 (8983717)	16.9	<0.05	4.3	0.047	0.70	15.6	4.9	0.84	498	2.42	3.95	9.4	12.3	427
455752 (8983718)	16.7	<0.05	2.2	0.057	0.17	11.2	17.8	3.44	1190	1.65	2.56	4.1	69.9	361
455753 (8983719)	16.1	<0.05	2.0	0.051	0.16	11.2	12.8	2.66	1160	1.31	2.85	4.1	65.1	308
455754 (8983720)	16.3	<0.05	3.2	0.050	0.35	14.9	9.0	1.89	908	1.95	3.07	5.5	40.8	352
455755 (8983721)	17.1	<0.05	3.1	0.068	0.62	13.2	15.4	2.94	1240	1.49	2.19	4.3	119	385
455756 (8983722)	19.1	<0.05	3.7	0.065	0.67	18.1	7.6	1.38	727	2.92	3.47	9.8	24.6	696
455757 (8983723)	14.2	0.07	2.7	0.093	0.29	15.3	8.1	6.67	1800	1.38	1.11	11.2	557	551
455758 (8983724)	14.1	<0.05	2.8	0.049	<0.01	13.3	12.9	4.52	2690	1.34	0.02	8.3	495	779
455759 (8983725)	20.0	<0.05	3.8	0.088	0.42	21.1	7.3	1.39	857	3.09	3.46	10.4	31.7	1300
455760 (8983726)	17.5	<0.05	2.3	0.207	3.18	33.2	34.0	1.56	595	96.1	2.11	19.9	38.8	1010
455761 (8983727)	18.2	<0.05	1.1	0.078	0.57	6.8	15.1	3.00	1290	1.71	1.71	2.0	73.0	383
455762 (8983728)	17.1	<0.05	2.3	0.056	0.64	10.8	14.8	2.54	935	2.03	2.56	5.7	50.0	352
455763 (8983729)	18.7	<0.05	3.8	0.035	0.44	19.3	13.1	2.43	595	1.94	3.50	8.9	32.5	394
455764 (8983730)	16.5	<0.05	4.8	0.032	0.45	21.5	11.9	2.10	420	2.87	3.27	9.9	15.8	362
455765 (8983731)	18.8	<0.05	2.4	0.101	0.54	17.6	14.5	2.67	1090	1.87	2.98	7.5	29.2	771
455766 (8983732)	20.3	<0.05	2.8	0.088	0.38	21.0	14.7	2.82	856	2.45	2.71	9.6	29.3	779
455767 (8983733)	18.7	<0.05	2.3	0.071	0.78	20.9	11.1	1.74	940	1.83	2.67	8.1	25.7	710
455768 (8983734)	15.6	<0.05	2.4	0.049	0.69	14.8	6.1	1.33	773	2.67	3.56	5.5	22.0	306
455769 (8983735)	11.4	<0.05	2.1	0.068	0.33	12.3	10.4	7.35	1640	1.25	0.04	11.5	691	485

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Certificate of Analysis

AGAT WORK ORDER: 17B296302

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Jan 08, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Unit:	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.05	0.05	0.1	0.005	0.01	0.5	0.1	0.01	1	0.05	0.01	0.1	0.5	10
455770 (8983736)	15.8	<0.05	2.9	0.079	0.53	20.9	19.5	6.39	1860	0.52	0.03	4.6	756	609
455771 (8983737)	14.5	<0.05	2.1	0.081	0.31	14.1	23.3	5.14	1170	1.07	1.22	5.4	232	372
455772 (8983738)	23.5	<0.05	2.3	0.087	1.68	30.5	23.6	1.98	1010	5.52	2.83	14.4	27.5	1400
455773 (8983739)	18.2	<0.05	2.8	0.082	0.45	16.4	10.6	2.46	1170	3.44	2.78	7.7	57.4	740
455774 (8983740)	18.9	<0.05	1.6	0.062	0.50	17.5	4.8	0.55	525	5.76	3.80	9.3	6.4	463
455775 (8983741)	17.9	<0.05	1.0	0.089	0.51	17.1	5.5	0.56	467	5.84	3.82	9.2	6.6	397
455776 (8983742)	19.4	<0.05	2.1	0.066	0.57	19.2	4.4	0.43	477	6.96	3.74	11.7	6.2	446
455777 (8983743)	15.0	<0.05	2.3	0.049	0.59	23.1	5.2	0.74	578	5.10	4.01	8.5	12.4	536
455778 (8983744)	23.3	0.21	2.8	0.079	1.86	43.5	22.1	3.75	1290	1.91	1.65	16.6	48.7	2170
455779 (8983745)	17.9	<0.05	1.2	0.055	0.98	15.1	6.2	0.91	694	3.24	3.71	8.4	15.2	451
455780 (8983746)	16.7	0.18	5.2	0.087	2.87	60.0	19.9	3.20	1210	1.04	2.55	6.7	31.2	3680
455781 (8983747)	16.3	0.09	5.5	0.083	2.87	62.7	20.6	3.23	1350	0.58	2.45	6.7	33.3	3850
455782 (8983748)	17.6	0.15	5.3	0.080	2.65	59.3	22.8	3.23	1240	0.88	2.21	6.7	39.5	3560
455783 (8983749)	21.7	<0.05	5.4	0.102	2.44	62.9	22.7	2.94	1050	0.89	2.28	8.4	34.6	3720
455784 (8983750)	15.7	<0.05	1.7	0.713	3.02	18.0	25.5	1.76	595	1000	2.05	11.5	36.4	977
455785 (8983751)	16.0	<0.05	3.5	0.039	1.00	25.9	5.5	0.74	793	4.60	3.42	7.8	12.4	576
455786 (8983752)	17.1	<0.05	1.9	0.066	0.94	10.7	20.8	2.97	1290	2.12	2.91	6.8	72.1	436
455787 (8983753)	16.7	<0.05	3.5	0.053	1.45	20.3	13.3	1.75	771	2.49	3.26	9.7	41.6	345
455788 (8983754)	18.6	<0.05	2.7	0.063	1.53	13.8	16.3	2.10	905	1.97	3.10	8.5	46.2	398
455789 (8983755)	16.4	<0.05	4.2	0.050	1.37	22.4	8.5	1.02	619	2.98	3.62	10.2	18.1	385
455790 (8983756)	19.3	<0.05	5.4	0.082	2.38	56.8	18.6	2.62	906	1.49	2.53	9.5	26.9	2830
455791 (8983757)	17.6	<0.05	4.4	0.039	1.16	30.1	7.6	0.83	497	2.99	3.51	10.9	12.7	550
455792 (8983758)	16.9	<0.05	2.4	0.055	0.60	11.8	16.5	3.05	1210	1.65	2.49	8.5	107	388
455793 (8983759)	17.5	<0.05	3.3	0.053	1.22	25.9	4.7	0.48	444	4.42	3.20	11.2	8.9	360
455794 (8983760)	17.7	<0.05	5.3	0.035	1.53	31.5	4.2	0.32	368	5.04	3.01	11.0	6.0	211
455795 (8983761)	22.7	<0.05	7.0	0.033	1.41	40.1	3.7	0.28	277	6.44	3.11	13.7	4.9	208
455796 (8983762)	29.2	<0.05	3.0	0.089	1.90	35.0	23.8	1.80	1010	3.59	3.06	23.2	15.4	1750
455797 (8983763)	23.4	<0.05	1.6	0.192	0.91	15.1	18.0	3.05	1170	1.58	2.07	9.2	84.8	332
455798 (8983764)	21.0	<0.05	1.8	0.073	0.66	8.7	19.0	3.65	1340	6.88	2.39	4.8	148	311
455799 (8983765)	22.5	<0.05	2.0	0.062	0.95	9.0	18.4	3.43	1250	2.29	2.40	4.9	118	299
455800 (8983766)	25.6	<0.05	2.1	0.071	0.55	9.2	18.5	3.51	1320	1.24	2.23	5.5	97.3	306
455801 (8983767)	24.3	<0.05	2.2	0.083	0.96	25.5	14.2	2.30	949	1.69	2.37	24.0	43.1	309

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Certificate of Analysis

AGAT WORK ORDER: 17B296302

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Jan 08, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Unit:	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.05	0.05	0.1	0.005	0.01	0.5	0.1	0.01	1	0.05	0.01	0.1	0.5	10
455802 (8983768)	21.9	<0.05	3.4	0.065	0.53	36.0	29.0	5.31	1690	1.15	1.23	10.8	137	1430
455803 (8983769)	21.4	<0.05	6.7	0.045	0.78	81.4	11.3	1.93	536	2.12	4.18	12.6	45.9	565
455804 (8983770)	22.8	<0.05	2.3	0.062	0.59	14.1	25.4	4.73	1480	1.46	1.91	7.6	117	952
455805 (8983771)	19.3	<0.05	3.5	0.070	1.20	26.0	5.7	0.62	424	2.87	3.18	10.8	13.0	366
455806 (8983772)	20.5	0.08	1.7	0.076	0.34	8.3	19.2	4.08	1530	1.04	1.81	2.2	192	330
455807 (8983773)	22.8	<0.05	6.1	0.047	0.89	36.0	4.8	0.42	280	8.21	3.66	13.3	10.6	244
455808 (8983774)	23.7	<0.05	2.7	0.091	0.76	28.5	12.5	1.96	803	2.83	2.75	17.4	42.0	341
455809 (8983775)	25.2	<0.05	6.6	0.069	1.07	40.3	9.2	0.95	417	4.52	3.22	17.1	18.8	330
455810 (8983776)	22.9	<0.05	4.0	0.060	0.93	33.0	11.3	1.66	764	3.37	2.79	10.9	40.7	294
455811 (8983777)	19.8	<0.05	6.4	0.039	0.98	38.5	5.2	0.46	320	6.39	3.52	12.0	10.4	247
455812 (8983778)	15.9	<0.05	1.6	0.072	0.20	3.8	13.7	4.36	1570	1.00	2.39	4.3	86.9	419
455813 (8983779)	19.3	<0.05	2.1	0.063	0.54	18.5	12.2	1.86	975	2.43	2.98	8.1	37.3	320
455814 (8983780)	22.1	<0.05	2.0	0.092	0.40	21.5	11.6	1.93	1050	4.46	2.53	9.4	38.5	313

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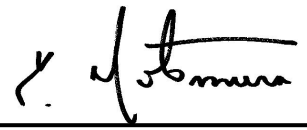

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Certificate of Analysis

AGAT WORK ORDER: 17B296302

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Jan 08, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
Unit:	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
Sample ID (AGAT ID) RDL:	0.1	0.1	0.002	0.01	0.05	0.1	0.5	0.2	0.2	0.05	0.01	0.1	0.01	0.01
455610 (8983576)	2.9	23.8	<0.002	0.09	0.23	18.4	0.6	3.5	170	0.62	0.01	3.3	0.41	0.06
455611 (8983577)	2.9	33.1	<0.002	0.16	0.06	18.4	0.8	3.8	99.4	0.60	<0.01	3.0	0.47	0.10
455612 (8983578)	3.0	3.4	0.002	0.23	0.58	44.0	0.8	1.1	120	0.28	0.05	0.5	0.67	0.02
455613 (8983579)	1.3	44.1	<0.002	0.04	<0.05	15.6	<0.5	3.0	55.0	0.57	<0.01	3.3	0.33	0.11
455614 (8983580)	1.6	41.5	<0.002	0.07	0.07	13.7	0.6	3.2	24.7	0.52	0.20	2.9	0.31	0.11
455615 (8983581)	2.2	50.9	<0.002	0.03	<0.05	8.9	0.5	2.7	38.3	0.72	0.69	4.3	0.33	0.11
455616 (8983582)	2.4	30.5	<0.002	0.06	0.07	9.5	0.5	1.5	84.3	0.65	0.01	4.1	0.32	0.07
455617 (8983583)	2.3	28.0	<0.002	0.03	0.06	5.3	<0.5	1.0	103	0.84	0.02	5.5	0.20	0.06
455618 (8983584)	1.5	37.2	<0.002	0.02	<0.05	5.1	<0.5	1.0	94.2	0.79	<0.01	5.7	0.20	0.09
455619 (8983585)	4.6	27.9	<0.002	0.04	0.11	7.5	0.6	1.3	141	0.87	<0.01	5.2	0.27	0.07
455620 (8983586)	2.5	20.8	<0.002	0.02	0.42	5.5	<0.5	1.3	126	0.65	0.09	5.0	0.20	0.07
455621 (8983587)	4.7	16.8	<0.002	0.07	0.33	10.3	0.5	1.6	205	0.57	0.05	3.0	0.34	0.06
455622 (8983588)	2.7	10.4	<0.002	0.02	0.19	8.5	<0.5	1.0	133	0.48	0.02	4.2	0.24	0.03
455623 (8983589)	2.7	27.4	<0.002	0.17	0.21	24.1	1.1	2.1	204	0.33	0.05	1.1	1.01	0.10
455624 (8983590)	12.1	107	<0.002	0.19	0.12	18.8	1.1	3.7	578	0.99	0.04	3.6	0.72	0.44
455625 (8983591)	2.3	26.9	<0.002	0.05	0.22	18.0	1.6	1.9	239	0.62	0.02	3.2	0.28	0.09
455626 (8983592)	1.2	17.9	<0.002	0.03	0.09	18.6	1.5	2.2	143	0.62	0.01	2.5	0.30	0.06
455627 (8983593)	2.9	61.2	<0.002	0.03	0.13	10.7	<0.5	3.3	239	1.81	0.03	2.8	0.23	0.15
455628 (8983594)	2.6	26.3	<0.002	0.04	0.17	16.9	0.8	2.5	246	0.86	<0.01	2.8	0.38	0.09
455629 (8983595)	3.9	18.0	<0.002	0.16	0.22	29.0	0.8	1.9	387	0.41	<0.01	2.4	0.52	0.06
455630 (8983596)	2.8	22.4	<0.002	0.04	0.15	13.5	<0.5	1.7	296	0.44	<0.01	3.9	0.31	0.07
455631 (8983597)	2.5	21.2	<0.002	0.04	0.14	17.3	<0.5	2.0	267	0.59	<0.01	5.4	0.35	0.06
455632 (8983598)	1.8	50.7	<0.002	0.04	0.08	11.2	<0.5	1.1	79.8	0.40	<0.01	3.5	0.27	0.15
455633 (8983599)	3.7	19.7	<0.002	0.14	0.17	45.9	0.6	1.1	292	0.23	<0.01	2.0	0.30	0.06
455634 (8983600)	3.6	26.4	<0.002	0.06	0.13	13.1	1.1	2.9	218	0.82	<0.01	4.2	0.40	0.09
455635 (8983601)	4.2	30.5	<0.002	0.06	0.12	15.3	1.5	3.0	208	1.03	<0.01	4.7	0.45	0.10
455636 (8983602)	24.6	263	0.003	0.33	2.99	18.5	3.1	4.7	281	1.06	0.35	23.9	0.44	1.21
455637 (8983603)	4.3	48.1	0.008	0.19	0.16	37.3	1.5	1.7	142	0.44	0.02	2.2	0.91	0.19
455638 (8983604)	3.0	15.5	<0.002	0.05	0.17	11.0	1.4	2.0	174	1.08	<0.01	4.7	0.37	0.04
455639 (8983605)	2.0	17.6	<0.002	0.24	0.16	11.1	2.0	2.8	138	1.23	0.08	5.0	0.39	0.06
455640 (8983606)	2.4	19.0	<0.002	0.22	0.13	12.2	1.3	1.6	120	1.03	0.07	4.4	0.36	0.05
455641 (8983607)	3.0	22.3	<0.002	0.05	0.18	12.8	1.1	2.5	216	1.15	0.02	6.0	0.40	0.07

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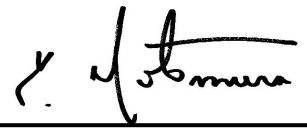

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Certificate of Analysis

AGAT WORK ORDER: 17B296302

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Jan 08, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
Unit:	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
Sample ID (AGAT ID) RDL:	0.1	0.1	0.002	0.01	0.05	0.1	0.5	0.2	0.2	0.05	0.01	0.1	0.01	0.01
455642 (8983608)	1.0	4.2	<0.002	0.13	0.12	20.7	0.8	1.8	80.7	0.42	0.01	1.4	0.77	<0.01
455643 (8983609)	0.7	4.3	<0.002	0.04	0.13	20.0	<0.5	2.0	75.2	0.54	0.02	1.8	0.66	<0.01
455644 (8983610)	0.9	5.7	<0.002	0.03	0.12	17.5	0.6	2.2	97.0	0.63	<0.01	2.3	0.43	0.02
455645 (8983611)	1.2	25.4	<0.002	0.28	0.21	26.1	1.1	2.7	97.5	0.30	0.01	1.4	0.80	0.09
455646 (8983612)	1.2	19.3	<0.002	0.31	0.13	25.0	1.0	2.0	103	0.30	<0.01	0.8	0.81	0.07
455647 (8983613)	0.9	12.4	<0.002	0.08	0.14	20.3	0.6	2.3	92.7	0.28	<0.01	0.9	0.70	0.03
455648 (8983614)	12.1	109	<0.002	0.20	0.06	20.7	1.3	4.1	591	1.07	0.03	3.4	0.77	0.44
455649 (8983615)	0.8	3.8	<0.002	0.05	0.12	17.9	0.8	2.4	63.2	0.47	<0.01	1.2	0.65	<0.01
455650 (8983616)	1.2	17.3	<0.002	0.04	0.15	12.1	0.9	15.2	108	0.56	<0.01	2.9	0.41	0.04
455651 (8983617)	1.6	6.3	<0.002	0.09	0.98	21.1	1.2	36.2	120	0.63	<0.01	2.7	0.73	0.01
455652 (8983618)	1.5	12.1	<0.002	0.03	0.11	11.7	<0.5	21.2	104	0.27	<0.01	2.0	0.30	0.03
455653 (8983619)	2.2	8.6	<0.002	0.06	0.22	21.4	1.2	20.0	216	0.75	<0.01	2.5	0.79	0.02
455654 (8983620)	2.1	12.6	<0.002	0.08	0.30	18.9	1.1	3.8	249	0.59	0.02	2.6	0.60	0.04
455655 (8983621)	2.1	18.9	<0.002	0.11	0.23	12.8	1.0	4.2	213	0.88	0.02	2.6	0.42	0.05
455656 (8983622)	1.5	23.3	<0.002	0.11	0.14	14.3	1.0	2.8	149	0.69	<0.01	4.5	0.50	0.06
455657 (8983623)	0.9	13.8	<0.002	0.06	0.13	16.1	0.8	3.0	105	0.70	0.02	2.2	0.60	0.04
455658 (8983624)	0.9	4.6	<0.002	0.04	0.23	15.0	0.8	3.0	78.3	0.37	0.09	3.4	0.54	0.03
455659 (8983625)	0.7	16.9	<0.002	0.08	0.24	24.1	0.8	4.1	115	0.95	0.07	2.2	0.37	0.06
455660 (8983626)	24.3	198	0.004	0.38	1.05	13.7	3.4	6.7	352	1.96	0.13	19.2	0.51	1.00
455661 (8983627)	1.1	17.0	<0.002	0.06	0.31	20.3	0.7	7.3	176	0.83	<0.01	2.8	0.37	0.05
455662 (8983628)	1.6	39.8	<0.002	0.07	0.15	9.8	0.8	3.6	116	0.67	0.02	4.6	0.27	0.11
455663 (8983629)	1.3	22.9	<0.002	0.06	0.17	21.3	0.6	6.7	189	0.68	0.02	1.9	0.36	0.07
455664 (8983630)	1.2	18.1	<0.002	0.05	0.15	22.0	0.6	9.6	218	0.74	0.03	2.7	0.42	0.05
455665 (8983631)	1.3	36.5	<0.002	0.03	0.14	10.0	0.6	3.4	110	0.54	<0.01	5.8	0.24	0.11
455666 (8983632)	1.3	31.1	<0.002	0.04	0.12	13.1	1.0	3.5	131	0.79	0.01	5.4	0.22	0.09
455667 (8983633)	1.5	29.0	<0.002	0.06	0.15	11.2	0.7	5.0	145	0.83	0.02	4.7	0.30	0.08
455668 (8983634)	1.3	39.5	<0.002	0.05	0.13	11.9	1.0	4.0	147	0.91	0.02	5.5	0.33	0.11
455669 (8983635)	1.5	31.0	<0.002	0.05	0.31	10.9	0.9	2.7	136	0.86	<0.01	5.3	0.34	0.09
455670 (8983636)	1.4	28.3	<0.002	0.44	0.16	13.0	1.9	5.1	146	0.81	0.03	6.2	0.39	0.07
455671 (8983637)	1.8	32.8	<0.002	0.05	0.18	11.7	1.0	5.0	163	0.87	<0.01	5.6	0.28	0.09
455672 (8983638)	12.9	113	<0.002	0.18	0.07	18.2	1.5	3.2	613	1.25	0.03	3.9	0.68	0.48
455673 (8983639)	1.9	16.5	<0.002	0.08	0.20	14.2	0.9	2.4	225	0.49	0.01	4.2	0.36	0.05

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AGAT WORK ORDER: 17B296302

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Jan 08, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
Unit:	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
Sample ID (AGAT ID) RDL:	0.1	0.1	0.002	0.01	0.05	0.1	0.5	0.2	0.2	0.05	0.01	0.1	0.01	0.01
455674 (8983640)	1.7	13.5	<0.002	0.10	0.26	15.1	1.1	3.2	204	0.44	<0.01	2.0	0.45	0.04
455675 (8983641)	1.1	2.8	<0.002	0.05	0.07	17.2	0.8	1.4	153	0.29	<0.01	1.5	0.43	<0.01
455676 (8983642)	1.3	5.6	<0.002	0.07	0.08	18.5	0.7	4.4	178	0.21	<0.01	1.6	0.46	0.02
455677 (8983643)	1.8	2.8	<0.002	0.05	0.08	18.6	0.6	2.1	241	0.24	<0.01	3.5	0.58	0.01
455678 (8983644)	1.2	1.3	<0.002	0.22	0.14	23.9	0.7	0.9	291	0.58	0.07	1.6	0.69	0.01
455679 (8983645)	1.4	0.4	<0.002	0.18	0.12	27.5	0.6	0.7	378	0.47	0.05	1.2	0.72	<0.01
455680 (8983646)	1.8	1.3	<0.002	0.21	0.40	28.5	0.9	0.9	439	0.37	0.03	1.4	0.51	0.01
455681 (8983647)	1.9	1.9	<0.002	0.18	2.51	27.2	0.5	0.9	411	0.25	0.04	1.5	0.43	0.01
455682 (8983648)	1.6	0.7	<0.002	0.15	0.22	21.1	0.7	0.5	403	0.25	0.03	1.4	0.41	<0.01
455683 (8983649)	1.6	0.3	<0.002	0.18	0.25	18.3	1.0	0.6	433	0.26	<0.01	1.4	0.42	<0.01
455684 (8983650)	25.9	99.0	0.010	1.29	1.33	14.2	11.1	12.7	425	0.82	0.43	8.4	0.39	0.51
455685 (8983651)	1.4	0.3	<0.002	0.12	0.16	20.3	0.7	0.5	337	0.24	0.02	1.4	0.37	<0.01
455686 (8983652)	1.3	0.4	<0.002	0.19	0.16	21.6	0.8	0.6	321	0.30	<0.01	1.3	0.43	<0.01
455687 (8983653)	1.5	0.7	<0.002	0.52	0.21	16.9	0.7	0.8	252	0.26	0.09	1.3	0.33	<0.01
455688 (8983654)	1.8	24.7	<0.002	0.59	0.28	19.8	0.8	1.1	246	0.40	0.03	2.8	0.37	0.09
455689 (8983655)	1.6	26.2	<0.002	0.41	0.28	22.2	0.6	1.9	185	0.44	<0.01	2.0	0.61	0.11
455690 (8983656)	1.6	29.2	<0.002	1.66	0.29	19.5	0.8	1.5	205	0.52	0.03	1.9	0.59	0.11
455691 (8983657)	1.2	36.9	<0.002	0.47	0.22	21.7	0.6	1.7	200	0.51	0.02	2.9	0.60	0.14
455692 (8983658)	1.6	35.9	<0.002	1.19	0.31	21.8	0.8	1.7	194	0.68	0.04	2.8	0.62	0.14
455693 (8983659)	1.6	37.7	<0.002	0.33	0.25	19.9	0.7	2.0	192	0.45	0.02	2.6	0.54	0.15
455694 (8983660)	1.6	31.3	<0.002	0.45	0.33	9.4	0.6	1.9	164	0.32	0.02	2.6	0.33	0.12
455695 (8983661)	1.6	49.1	<0.002	0.76	0.40	20.4	1.3	2.9	142	0.72	0.02	3.1	0.63	0.18
455696 (8983662)	12.2	101	<0.002	0.19	0.05	20.4	1.4	3.2	612	1.05	0.02	4.4	0.76	0.46
455697 (8983663)	2.1	41.0	<0.002	0.30	0.74	19.2	1.3	3.2	165	1.07	0.21	5.3	0.58	0.19
455698 (8983664)	2.0	38.3	<0.002	0.41	0.47	20.9	0.9	3.1	170	0.83	0.10	3.5	0.62	0.17
455699 (8983665)	2.0	45.0	<0.002	0.29	0.39	19.2	0.8	2.7	177	0.64	0.05	4.2	0.57	0.20
455700 (8983666)	2.0	45.3	<0.002	0.36	0.40	20.9	0.6	2.3	163	0.65	0.07	3.2	0.66	0.19
455701 (8983667)	3.4	67.4	<0.002	2.71	0.39	22.0	1.1	2.6	164	0.67	0.27	2.6	0.68	0.28
455702 (8983668)	1.8	53.7	<0.002	0.40	0.31	24.1	0.9	2.3	161	0.48	0.08	1.9	0.43	0.22
455703 (8983669)	2.1	53.6	<0.002	0.18	0.30	11.8	0.9	2.6	136	0.54	0.04	7.2	0.24	0.21
455704 (8983670)	1.7	68.6	<0.002	0.60	0.37	21.9	1.8	5.9	97.2	0.37	0.30	2.7	0.24	0.22
455705 (8983671)	1.4	36.5	<0.002	0.62	0.37	22.9	1.6	4.1	76.0	0.34	0.19	3.5	0.34	0.13

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Certificate of Analysis

AGAT WORK ORDER: 17B296302

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Jan 08, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
Unit:	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
Sample ID (AGAT ID) RDL:	0.1	0.1	0.002	0.01	0.05	0.1	0.5	0.2	0.2	0.05	0.01	0.1	0.01	0.01
455706 (8983672)	2.6	67.2	<0.002	2.25	0.43	23.1	1.2	4.8	152	0.53	0.30	3.8	0.69	0.24
455707 (8983673)	1.8	66.4	<0.002	0.06	0.31	7.8	<0.5	4.4	142	0.72	0.01	10.2	0.22	0.22
455708 (8983674)	1.6	37.5	<0.002	0.18	0.43	23.7	0.8	3.5	170	0.43	0.04	3.2	0.64	0.15
455709 (8983675)	2.6	67.6	<0.002	2.26	0.51	20.9	0.9	2.9	137	0.55	0.37	3.2	0.64	0.24
455710 (8983676)	2.4	63.2	<0.002	1.99	0.42	15.4	1.4	1.0	95.1	0.11	0.57	2.6	0.08	0.22
455711 (8983677)	1.9	81.2	<0.002	1.00	0.46	13.7	<0.5	1.2	53.0	0.33	0.40	6.6	0.09	0.27
455712 (8983678)	3.0	3.9	0.002	0.23	0.53	45.6	0.9	0.9	125	0.33	0.05	0.4	0.71	0.02
455713 (8983679)	0.8	47.9	<0.002	0.04	0.32	20.0	<0.5	1.2	38.2	0.25	<0.01	3.2	0.09	0.17
455714 (8983680)	1.4	63.9	<0.002	0.06	0.32	14.7	<0.5	2.1	105	0.36	0.02	4.5	0.29	0.22
455715 (8983681)	1.7	46.6	<0.002	0.10	0.37	15.6	0.6	1.7	132	0.47	<0.01	3.8	0.47	0.15
455716 (8983682)	1.4	40.0	<0.002	0.12	0.30	11.5	<0.5	1.6	124	0.30	<0.01	2.9	0.29	0.13
455717 (8983683)	1.7	36.8	<0.002	0.35	0.40	21.3	0.9	1.7	144	0.89	0.02	4.5	0.60	0.12
455718 (8983684)	1.8	60.2	<0.002	0.81	0.40	16.3	0.7	2.5	139	0.50	0.09	3.5	0.45	0.21
455719 (8983685)	1.8	61.9	<0.002	0.29	0.36	14.9	0.8	2.9	137	0.48	0.02	4.1	0.45	0.21
455720 (8983686)	2.0	49.8	<0.002	0.34	0.37	14.6	0.7	2.6	153	0.48	0.01	5.6	0.44	0.17
455721 (8983687)	1.6	27.4	<0.002	0.12	0.23	20.6	0.5	2.0	173	0.39	<0.01	3.4	0.57	0.10
455722 (8983688)	1.9	26.8	<0.002	0.11	0.29	21.8	0.7	1.8	201	0.37	0.02	2.8	0.57	0.09
455723 (8983689)	2.1	32.0	<0.002	0.16	0.38	17.9	0.8	2.0	185	0.48	0.03	4.5	0.48	0.11
455724 (8983690)	11.3	123	<0.002	0.17	0.07	18.7	1.3	3.2	599	1.03	0.02	4.6	0.73	0.46
455725 (8983691)	1.9	18.4	<0.002	0.50	0.42	21.0	0.9	1.5	193	0.41	0.03	3.6	0.54	0.07
455726 (8983692)	1.8	23.4	<0.002	0.10	0.37	18.8	0.9	1.5	210	0.35	<0.01	2.7	0.46	0.08
455727 (8983693)	2.0	50.4	<0.002	0.12	0.40	14.4	0.7	2.4	186	0.45	<0.01	5.6	0.39	0.18
455728 (8983694)	1.9	51.7	<0.002	0.41	0.41	15.2	0.6	2.9	158	0.37	0.03	4.0	0.43	0.19
455729 (8983695)	1.4	58.0	<0.002	0.29	0.55	17.7	0.6	2.3	126	0.49	0.01	2.6	0.52	0.18
455730 (8983696)	1.4	32.4	<0.002	0.18	0.49	19.7	<0.5	1.6	126	0.39	0.02	2.8	0.46	0.10
455731 (8983697)	2.1	38.3	<0.002	1.37	0.44	22.9	0.8	1.3	225	0.17	0.18	1.2	0.30	0.13
455732 (8983698)	1.2	2.7	<0.002	0.14	0.24	21.0	<0.5	0.4	96.3	0.11	0.02	1.3	0.13	<0.01
455733 (8983699)	0.9	44.3	<0.002	0.03	0.32	12.2	<0.5	1.6	67.1	0.13	<0.01	3.0	0.09	0.14
455734 (8983700)	2.5	40.2	<0.002	0.26	0.32	6.8	1.5	1.9	55.3	0.07	0.07	2.7	0.06	0.12
455735 (8983701)	1.6	30.8	<0.002	0.04	0.41	9.6	<0.5	1.3	115	0.38	0.12	7.3	0.07	0.10
455736 (8983702)	20.5	222	<0.002	0.36	2.84	13.4	2.3	4.0	341	1.87	0.36	19.4	0.51	0.94
455737 (8983703)	1.2	10.2	<0.002	0.05	0.24	7.8	<0.5	0.5	73.1	0.13	0.03	4.8	0.05	0.03

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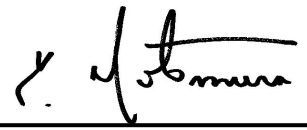

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AGAT WORK ORDER: 17B296302

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Jan 08, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
Unit:	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
Sample ID (AGAT ID) RDL:	0.1	0.1	0.002	0.01	0.05	0.1	0.5	0.2	0.2	0.05	0.01	0.1	0.01	0.01
455738 (8983704)	1.6	61.7	<0.002	0.22	0.96	24.2	0.9	2.6	256	0.21	0.11	1.6	0.35	0.20
455739 (8983705)	1.7	2.8	<0.002	0.45	0.47	20.8	0.8	0.3	199	0.20	0.08	1.4	0.34	<0.01
455740 (8983706)	1.9	34.1	<0.002	0.22	0.50	16.3	0.6	1.8	157	0.40	0.01	2.7	0.45	0.10
455741 (8983707)	1.7	33.0	<0.002	0.17	0.47	12.9	0.5	1.7	135	0.54	0.02	3.4	0.27	0.09
455742 (8983708)	2.0	46.7	<0.002	0.07	0.47	11.7	<0.5	2.0	106	0.66	<0.01	6.2	0.27	0.12
455743 (8983709)	1.3	33.6	<0.002	0.21	0.59	12.3	0.5	2.4	87.3	0.46	0.02	2.9	0.34	0.09
455744 (8983710)	1.2	26.3	<0.002	0.15	0.41	9.0	<0.5	2.5	91.1	0.38	<0.01	2.4	0.24	0.07
455745 (8983711)	4.1	14.7	<0.002	0.76	0.44	5.0	<0.5	1.3	135	0.35	0.04	2.4	0.19	0.04
455746 (8983712)	1.9	17.6	<0.002	0.55	0.40	7.8	0.5	1.9	167	0.49	0.05	2.5	0.24	0.04
455747 (8983713)	1.5	8.8	<0.002	0.48	0.29	12.8	0.6	1.3	153	0.50	0.09	1.5	0.29	0.02
455748 (8983714)	11.5	113	<0.002	0.20	0.06	20.2	1.6	3.1	623	1.20	0.03	4.0	0.75	0.41
455749 (8983715)	1.4	6.4	<0.002	0.08	0.24	18.2	0.5	1.1	196	0.68	<0.01	2.3	0.38	0.02
455750 (8983716)	1.6	10.3	<0.002	0.12	0.29	18.0	1.1	1.4	195	1.10	<0.01	2.7	0.44	0.03
455751 (8983717)	1.7	19.7	<0.002	0.06	0.31	10.9	0.8	2.0	184	0.58	<0.01	3.0	0.32	0.05
455752 (8983718)	1.0	4.3	<0.002	0.10	0.20	23.1	0.6	0.9	108	0.26	<0.01	2.3	0.70	0.01
455753 (8983719)	1.2	4.7	<0.002	0.16	0.19	20.4	0.6	0.9	133	0.26	<0.01	2.7	0.62	0.01
455754 (8983720)	1.9	11.6	<0.002	0.15	0.30	17.3	0.6	1.7	136	0.38	<0.01	3.7	0.54	0.04
455755 (8983721)	1.8	30.1	<0.002	0.10	0.24	20.6	1.0	2.9	152	0.30	0.05	3.3	0.61	0.15
455756 (8983722)	3.3	26.9	<0.002	0.07	0.58	15.8	1.1	3.2	227	0.79	0.03	5.1	0.55	0.11
455757 (8983723)	1.5	14.2	<0.002	0.25	0.32	24.8	0.8	3.2	85.7	0.71	0.03	2.5	0.88	0.08
455758 (8983724)	1.2	0.6	<0.002	0.15	0.14	22.5	0.8	0.6	119	0.51	<0.01	2.2	0.88	<0.01
455759 (8983725)	3.1	16.8	<0.002	0.07	0.78	17.8	1.1	3.4	325	0.80	<0.01	4.3	0.58	0.07
455760 (8983726)	22.0	208	0.002	0.36	1.06	13.5	3.4	6.2	351	1.41	0.09	18.2	0.50	0.88
455761 (8983727)	2.2	30.8	<0.002	0.17	0.37	25.7	0.9	1.7	241	0.15	<0.01	1.1	0.84	0.14
455762 (8983728)	1.7	19.2	<0.002	0.19	0.58	18.5	0.9	2.4	172	0.42	0.01	3.2	0.65	0.08
455763 (8983729)	1.2	12.4	<0.002	0.15	0.27	13.9	0.9	2.5	133	0.67	<0.01	4.8	0.52	0.04
455764 (8983730)	1.2	11.4	<0.002	0.02	0.25	9.8	1.0	2.2	113	0.66	0.02	5.7	0.35	0.03
455765 (8983731)	1.6	24.5	<0.002	0.18	0.30	21.5	1.0	3.6	167	0.51	0.07	3.8	0.85	0.11
455766 (8983732)	1.9	17.7	<0.002	0.54	0.34	21.2	2.2	6.5	129	0.64	0.27	3.0	0.83	0.07
455767 (8983733)	3.3	36.3	<0.002	0.14	0.74	19.7	0.9	2.6	293	0.54	<0.01	3.8	0.75	0.15
455768 (8983734)	2.3	28.4	<0.002	0.12	0.25	15.5	1.0	2.3	200	0.41	<0.01	4.0	0.42	0.11
455769 (8983735)	1.0	18.1	<0.002	0.33	0.22	25.3	1.2	1.1	57.7	0.70	0.01	1.4	0.86	0.08

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AGAT WORK ORDER: 17B296302

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Jan 08, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
Unit:	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
Sample ID (AGAT ID) RDL:	0.1	0.1	0.002	0.01	0.05	0.1	0.5	0.2	0.2	0.05	0.01	0.1	0.01	0.01
455770 (8983736)	1.1	26.4	<0.002	0.21	0.19	28.5	1.1	2.6	154	0.27	0.02	2.4	0.79	0.11
455771 (8983737)	1.7	13.4	<0.002	0.12	0.43	25.1	0.5	1.7	88.5	0.35	<0.01	4.0	0.48	0.05
455772 (8983738)	11.1	103	<0.002	0.18	0.10	19.1	1.1	3.4	580	0.65	0.02	4.0	0.68	0.40
455773 (8983739)	1.7	19.7	<0.002	0.11	0.21	21.3	0.7	3.1	135	0.53	<0.01	3.0	1.11	0.07
455774 (8983740)	2.6	14.5	<0.002	0.15	0.33	11.0	0.8	4.0	243	0.58	0.03	2.1	0.37	0.04
455775 (8983741)	2.4	13.0	<0.002	0.26	0.32	10.5	1.1	10.5	216	0.50	0.20	1.7	0.33	0.03
455776 (8983742)	3.0	17.3	<0.002	0.15	0.60	11.8	1.4	9.9	269	1.06	0.41	3.4	0.37	0.08
455777 (8983743)	4.2	15.4	<0.002	0.18	0.45	10.4	1.0	7.0	242	0.67	0.10	3.7	0.38	0.05
455778 (8983744)	3.2	93.9	<0.002	0.12	0.38	24.2	1.3	6.6	137	1.64	0.03	5.6	0.59	0.40
455779 (8983745)	3.2	36.9	<0.002	0.26	0.33	12.3	0.9	2.0	315	0.60	0.05	1.8	0.40	0.14
455780 (8983746)	4.5	152	<0.002	0.18	0.29	20.2	0.9	2.7	388	0.45	0.04	7.2	0.52	0.65
455781 (8983747)	2.8	158	<0.002	0.17	0.27	20.3	0.9	2.7	347	0.44	0.01	7.1	0.51	0.66
455782 (8983748)	2.6	150	<0.002	0.13	0.30	19.3	0.9	4.0	300	0.41	0.02	6.7	0.50	0.64
455783 (8983749)	5.1	141	<0.002	0.65	0.30	20.9	1.6	5.9	191	0.57	0.09	7.5	0.53	0.63
455784 (8983750)	23.6	119	0.008	1.36	1.31	15.1	12.0	12.6	435	0.93	0.39	8.0	0.38	0.45
455785 (8983751)	3.9	31.8	<0.002	0.26	0.23	9.4	1.1	3.4	220	0.59	0.05	5.6	0.31	0.10
455786 (8983752)	2.1	46.3	<0.002	0.15	0.16	24.3	0.8	2.2	239	0.58	0.03	2.0	0.80	0.19
455787 (8983753)	3.1	64.5	<0.002	0.10	0.25	15.0	0.9	2.7	242	0.96	0.02	5.6	0.52	0.25
455788 (8983754)	3.0	72.5	<0.002	0.17	0.18	19.8	0.7	2.8	238	0.82	<0.01	3.8	0.66	0.29
455789 (8983755)	5.0	62.8	<0.002	0.11	0.25	12.8	1.0	2.8	244	0.85	<0.01	7.7	0.52	0.25
455790 (8983756)	4.0	131	<0.002	0.17	0.20	16.8	0.9	4.2	276	0.76	0.03	7.7	0.48	0.50
455791 (8983757)	4.5	49.2	<0.002	0.07	0.26	8.6	0.8	2.8	236	0.94	<0.01	7.4	0.33	0.16
455792 (8983758)	1.8	22.3	<0.002	0.17	0.17	19.7	0.8	2.1	198	0.73	<0.01	3.2	0.66	0.07
455793 (8983759)	4.0	40.0	<0.002	0.12	0.24	9.3	1.0	4.1	207	0.77	<0.01	6.0	0.31	0.10
455794 (8983760)	4.7	48.4	<0.002	0.11	0.19	5.8	1.0	3.1	144	0.89	<0.01	9.7	0.20	0.10
455795 (8983761)	5.7	57.3	<0.002	0.06	0.35	5.3	1.5	3.6	146	1.23	0.02	13.0	0.20	0.13
455796 (8983762)	13.5	141	<0.002	0.19	0.07	18.6	1.6	3.9	631	2.30	0.05	4.6	0.74	0.49
455797 (8983763)	3.7	42.8	<0.002	0.30	0.20	26.5	1.6	4.6	182	0.69	0.12	1.9	0.70	0.14
455798 (8983764)	1.6	40.4	<0.002	0.10	0.15	23.5	0.5	3.2	198	0.37	<0.01	1.4	0.64	0.16
455799 (8983765)	1.5	49.8	<0.002	0.06	0.16	20.2	<0.5	8.7	210	0.36	<0.01	1.5	0.55	0.17
455800 (8983766)	2.8	34.5	<0.002	0.09	0.12	24.3	0.9	5.7	198	0.30	<0.01	1.5	0.72	0.12
455801 (8983767)	2.5	47.7	<0.002	0.17	0.16	22.4	1.4	7.0	214	1.56	0.01	3.5	0.54	0.15

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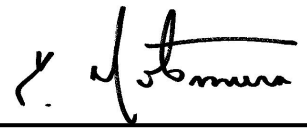

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AGAT WORK ORDER: 17B296302

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Jan 08, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
Unit:	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
Sample ID (AGAT ID) RDL:	0.1	0.1	0.002	0.01	0.05	0.1	0.5	0.2	0.2	0.05	0.01	0.1	0.01	0.01
455802 (8983768)	1.6	22.1	<0.002	0.10	0.19	29.1	0.8	2.8	110	0.69	<0.01	5.1	0.58	0.08
455803 (8983769)	4.4	29.7	<0.002	0.06	0.21	14.4	1.4	2.9	178	1.15	0.02	10.2	0.48	0.08
455804 (8983770)	1.4	27.1	<0.002	0.07	0.11	26.4	0.5	2.6	185	0.53	<0.01	2.1	0.62	0.09
455805 (8983771)	3.6	41.7	<0.002	0.17	0.22	11.1	1.1	4.3	169	0.88	0.03	7.1	0.34	0.11
455806 (8983772)	1.2	20.2	<0.002	0.11	<0.05	25.3	0.8	2.2	153	0.14	<0.01	1.2	0.72	0.08
455807 (8983773)	4.0	35.7	<0.002	0.18	0.26	6.2	1.8	3.9	128	1.22	0.03	13.1	0.23	0.09
455808 (8983774)	2.6	23.0	<0.002	0.15	0.12	18.9	1.3	4.9	173	1.25	<0.01	5.6	0.54	0.05
455809 (8983775)	4.0	44.3	<0.002	0.10	0.23	11.7	1.5	4.8	149	1.52	<0.01	11.0	0.36	0.12
455810 (8983776)	2.9	31.0	<0.002	0.13	0.15	16.1	1.3	5.2	161	0.97	0.01	7.0	0.43	0.08
455811 (8983777)	3.9	33.5	<0.002	0.06	0.15	7.5	1.4	3.8	124	0.93	0.01	11.4	0.22	0.07
455812 (8983778)	3.1	4.2	0.002	0.23	0.54	45.2	1.1	0.9	122	0.25	0.03	0.5	0.71	0.02
455813 (8983779)	2.3	15.0	<0.002	0.18	0.10	18.2	1.1	2.8	148	0.64	0.01	4.4	0.52	0.03
455814 (8983780)	2.7	16.2	<0.002	0.16	0.19	18.7	1.3	5.3	183	0.73	<0.01	3.8	0.54	0.05

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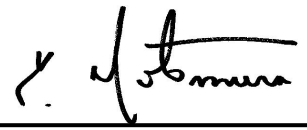

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AGAT WORK ORDER: 17B296302

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Jan 08, 2018 | SAMPLE TYPE: Drill Core

Analyte:	U	V	W	Y	Zn	Zr
Unit:	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.005	0.5	0.1	0.1	0.5	0.5
455610 (8983576)	0.710	141	1.0	21.3	71.1	32.4
455611 (8983577)	0.655	151	0.8	21.4	64.3	32.6
455612 (8983578)	0.108	298	1.2	23.1	82.9	52.7
455613 (8983579)	0.717	112	1.0	23.8	67.2	49.0
455614 (8983580)	0.661	101	1.6	22.4	78.7	44.4
455615 (8983581)	0.827	53.4	1.6	21.9	54.7	102
455616 (8983582)	1.15	51.7	0.6	23.4	40.1	109
455617 (8983583)	1.35	34.4	0.5	15.8	27.3	99.2
455618 (8983584)	1.32	36.1	0.5	13.4	32.6	85.6
455619 (8983585)	1.29	56.1	0.5	23.2	35.8	107
455620 (8983586)	0.763	37.1	0.5	14.7	28.2	87.6
455621 (8983587)	0.600	67.0	0.4	22.9	42.9	53.0
455622 (8983588)	1.00	54.5	0.2	16.9	30.2	66.4
455623 (8983589)	0.235	213	0.4	31.0	127	46.4
455624 (8983590)	1.35	140	0.2	51.3	104	128
455625 (8983591)	0.769	72.1	0.3	66.5	56.6	63.8
455626 (8983592)	0.573	109	0.3	57.0	77.0	63.7
455627 (8983593)	0.600	98.6	1.3	20.2	51.3	42.6
455628 (8983594)	0.652	131	0.3	32.1	63.2	44.2
455629 (8983595)	0.619	176	0.5	30.7	70.2	84.7
455630 (8983596)	0.915	98.8	0.3	14.5	41.2	56.8
455631 (8983597)	1.10	121	0.3	20.6	52.8	58.6
455632 (8983598)	0.678	85.4	0.4	12.3	38.5	59.0
455633 (8983599)	0.615	256	0.4	21.2	96.1	45.1
455634 (8983600)	1.07	65.8	0.2	51.1	61.8	69.5
455635 (8983601)	1.23	87.7	0.2	69.3	75.4	68.6
455636 (8983602)	6.30	104	4.6	35.5	68.7	85.4
455637 (8983603)	0.524	317	0.3	44.2	124	165
455638 (8983604)	1.19	65.3	0.3	57.1	48.2	63.2
455639 (8983605)	0.941	63.4	0.4	58.6	50.1	57.1
455640 (8983606)	0.997	54.3	0.3	49.1	43.4	86.8
455641 (8983607)	1.44	62.8	1.0	51.9	50.6	81.0

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AGAT WORK ORDER: 17B296302

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Jan 08, 2018 | SAMPLE TYPE: Drill Core

Analyte:	U	V	W	Y	Zn	Zr
Unit:	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.005	0.5	0.1	0.1	0.5	0.5
455642 (8983608)	0.274	171	0.7	25.6	112	45.5
455643 (8983609)	0.377	155	0.6	27.0	108	86.1
455644 (8983610)	0.599	116	0.3	25.3	82.2	128
455645 (8983611)	0.322	200	0.8	30.2	91.6	58.4
455646 (8983612)	0.194	190	0.5	27.6	95.8	39.9
455647 (8983613)	0.230	161	0.9	24.7	93.0	33.3
455648 (8983614)	1.21	150	0.3	56.5	108	122
455649 (8983615)	0.357	145	0.9	30.7	103	65.1
455650 (8983616)	0.797	63.6	0.7	36.5	36.7	109
455651 (8983617)	0.795	120	0.9	51.1	47.7	85.1
455652 (8983618)	0.473	54.7	0.8	24.8	23.0	54.4
455653 (8983619)	0.895	128	0.8	50.9	40.9	75.4
455654 (8983620)	0.703	119	0.5	42.8	48.4	101
455655 (8983621)	0.957	46.3	0.7	44.2	23.0	237
455656 (8983622)	1.02	89.3	0.9	41.5	27.7	125
455657 (8983623)	0.530	114	1.0	32.6	44.4	82.3
455658 (8983624)	0.542	106	0.5	20.5	50.1	66.9
455659 (8983625)	0.399	155	0.8	17.3	54.7	41.7
455660 (8983626)	5.38	127	3.3	28.3	86.0	75.2
455661 (8983627)	0.844	134	1.1	15.9	39.2	92.0
455662 (8983628)	0.769	38.6	1.9	23.4	12.9	126
455663 (8983629)	0.690	142	1.3	18.8	43.5	63.6
455664 (8983630)	1.10	147	1.4	20.3	36.7	102
455665 (8983631)	1.32	48.9	2.4	16.3	21.0	92.7
455666 (8983632)	1.32	68.5	1.2	22.6	34.4	93.4
455667 (8983633)	0.997	44.3	1.4	20.4	21.8	133
455668 (8983634)	0.682	29.8	1.2	26.3	18.8	94.8
455669 (8983635)	0.821	28.7	0.7	22.7	24.9	82.8
455670 (8983636)	1.04	8.3	0.9	30.8	20.0	122
455671 (8983637)	1.44	29.9	0.9	26.9	21.8	103
455672 (8983638)	1.57	132	0.2	44.1	98.0	94.4
455673 (8983639)	0.738	60.8	0.7	21.5	38.8	95.6

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AGAT WORK ORDER: 17B296302

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Jan 08, 2018 | SAMPLE TYPE: Drill Core

Analyte:	U	V	W	Y	Zn	Zr
Unit:	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.005	0.5	0.1	0.1	0.5	0.5
455674 (8983640)	0.521	77.5	0.9	23.1	36.8	110
455675 (8983641)	0.349	137	0.2	14.2	75.6	58.2
455676 (8983642)	0.367	150	1.3	12.1	57.9	56.8
455677 (8983643)	0.809	168	0.1	11.4	47.6	89.3
455678 (8983644)	0.263	170	0.4	5.6	69.1	74.8
455679 (8983645)	0.215	189	0.1	5.0	72.3	58.7
455680 (8983646)	0.244	167	0.4	8.4	80.0	72.6
455681 (8983647)	0.289	197	0.4	5.5	98.1	66.0
455682 (8983648)	0.269	167	0.5	10.1	84.0	81.2
455683 (8983649)	0.273	156	2.6	12.4	79.4	85.8
455684 (8983650)	2.42	141	3.6	18.3	103	58.8
455685 (8983651)	0.273	163	0.4	12.9	75.2	77.9
455686 (8983652)	0.266	170	0.5	10.5	76.6	78.0
455687 (8983653)	0.271	126	2.4	8.2	75.9	63.5
455688 (8983654)	0.634	148	7.1	15.3	64.2	104
455689 (8983655)	0.419	281	12.0	12.6	80.2	39.9
455690 (8983656)	0.428	196	23.4	10.7	41.2	47.4
455691 (8983657)	0.612	238	7.7	9.6	59.0	44.9
455692 (8983658)	0.597	227	15.6	12.7	56.3	48.9
455693 (8983659)	0.546	193	6.8	8.9	43.6	47.3
455694 (8983660)	0.704	48.8	10.2	11.9	16.4	95.7
455695 (8983661)	0.737	102	7.4	27.1	54.4	61.0
455696 (8983662)	1.49	147	0.7	44.0	99.7	93.9
455697 (8983663)	0.934	96.7	5.4	22.5	60.9	87.5
455698 (8983664)	0.747	108	4.4	25.6	59.7	66.8
455699 (8983665)	0.919	103	5.1	13.9	56.5	79.1
455700 (8983666)	0.678	102	5.4	12.6	57.9	55.8
455701 (8983667)	0.604	136	11.2	15.0	42.7	56.7
455702 (8983668)	0.439	208	29.3	14.3	78.3	47.3
455703 (8983669)	1.70	70.4	4.9	14.4	40.9	103
455704 (8983670)	0.605	142	3.3	9.3	122	61.1
455705 (8983671)	0.710	92.1	1.9	11.8	138	72.0

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CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Jan 08, 2018 | SAMPLE TYPE: Drill Core

Analyte:	U	V	W	Y	Zn	Zr
Unit:	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.005	0.5	0.1	0.1	0.5	0.5
455706 (8983672)	0.807	89.9	2.8	19.5	35.2	80.6
455707 (8983673)	1.83	31.8	2.2	15.5	6.4	171
455708 (8983674)	0.701	126	2.1	19.5	60.4	66.4
455709 (8983675)	0.754	109	7.5	22.7	29.9	58.5
455710 (8983676)	0.566	92.1	2.1	45.2	31.1	54.1
455711 (8983677)	1.22	97.2	1.5	11.2	78.1	90.2
455712 (8983678)	0.113	308	1.2	22.5	75.4	49.9
455713 (8983679)	0.672	127	0.6	9.0	146	107
455714 (8983680)	1.02	95.4	1.3	13.8	71.7	125
455715 (8983681)	0.942	90.6	1.2	18.9	58.1	123
455716 (8983682)	0.770	50.1	1.2	15.0	40.0	184
455717 (8983683)	1.04	102	2.4	23.8	65.5	64.7
455718 (8983684)	0.841	86.7	5.0	19.8	45.9	102
455719 (8983685)	0.931	82.1	2.8	18.7	54.3	103
455720 (8983686)	1.24	71.3	1.8	16.4	34.8	112
455721 (8983687)	0.721	120	0.8	14.0	67.1	69.9
455722 (8983688)	0.662	126	1.0	16.4	80.2	62.9
455723 (8983689)	0.999	106	2.3	18.5	73.9	96.8
455724 (8983690)	1.35	140	0.3	46.5	96.9	118
455725 (8983691)	0.743	116	3.8	20.5	81.5	85.9
455726 (8983692)	0.637	97.2	1.9	19.4	72.1	68.6
455727 (8983693)	1.18	65.8	2.2	16.3	32.1	99.1
455728 (8983694)	0.939	71.6	3.4	15.3	31.0	67.5
455729 (8983695)	0.667	107	7.0	20.5	57.0	83.4
455730 (8983696)	0.610	86.3	7.0	17.9	87.9	68.1
455731 (8983697)	0.334	146	4.4	18.2	60.4	72.6
455732 (8983698)	0.254	146	1.4	6.7	176	75.8
455733 (8983699)	0.639	33.5	1.9	6.9	105	77.4
455734 (8983700)	0.427	24.2	4.5	4.7	55.9	69.2
455735 (8983701)	1.09	42.2	2.5	12.0	65.2	164
455736 (8983702)	4.95	121	4.1	27.0	75.1	81.3
455737 (8983703)	0.814	63.6	1.2	6.1	120	113

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DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Jan 08, 2018 | SAMPLE TYPE: Drill Core

Analyte:	U	V	W	Y	Zn	Zr
Unit:	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.005	0.5	0.1	0.1	0.5	0.5
455738 (8983704)	0.472	167	6.0	14.2	30.3	96.2
455739 (8983705)	0.389	156	1.9	13.6	94.3	79.3
455740 (8983706)	0.659	99.6	1.9	14.8	53.4	92.2
455741 (8983707)	0.791	20.6	2.0	12.4	22.8	82.1
455742 (8983708)	1.48	62.2	2.8	13.8	35.0	162
455743 (8983709)	0.640	52.1	5.7	9.8	59.2	92.3
455744 (8983710)	0.624	19.1	4.0	9.3	55.9	88.9
455745 (8983711)	0.575	7.7	2.4	10.0	28.6	107
455746 (8983712)	0.503	11.2	2.5	9.5	15.1	93.9
455747 (8983713)	0.379	39.6	8.2	9.8	33.3	63.9
455748 (8983714)	1.53	140	0.8	48.1	99.9	97.9
455749 (8983715)	0.560	84.6	64.7	18.9	54.9	81.2
455750 (8983716)	0.630	93.8	3.8	26.2	57.0	85.7
455751 (8983717)	0.974	40.5	1.2	29.3	29.2	190
455752 (8983718)	0.556	173	0.6	16.0	110	79.0
455753 (8983719)	0.646	148	0.3	21.2	88.0	71.6
455754 (8983720)	0.860	119	1.6	27.8	66.1	122
455755 (8983721)	0.794	144	0.4	28.2	106	106
455756 (8983722)	1.27	81.1	0.6	40.1	57.7	151
455757 (8983723)	0.603	184	0.3	22.6	118	107
455758 (8983724)	0.675	150	0.1	20.7	119	113
455759 (8983725)	1.11	48.7	0.4	42.5	58.1	173
455760 (8983726)	4.80	121	2.8	27.9	79.7	82.6
455761 (8983727)	0.248	193	<0.1	26.2	106	42.3
455762 (8983728)	0.830	135	1.2	28.0	88.8	86.0
455763 (8983729)	1.20	92.8	0.9	39.3	77.3	150
455764 (8983730)	1.29	42.2	0.8	46.9	65.2	202
455765 (8983731)	0.925	187	0.6	31.8	94.1	100
455766 (8983732)	0.841	182	1.5	39.2	102	122
455767 (8983733)	0.923	162	0.5	34.2	70.6	106
455768 (8983734)	0.823	91.3	0.4	26.7	46.6	88.7
455769 (8983735)	0.306	193	0.1	17.1	85.1	87.0

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AGAT WORK ORDER: 17B296302

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Jan 08, 2018 | SAMPLE TYPE: Drill Core

Analyte:	U	V	W	Y	Zn	Zr
Unit:	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.005	0.5	0.1	0.1	0.5	0.5
455770 (8983736)	0.625	180	0.6	28.1	87.3	117
455771 (8983737)	0.862	177	0.7	16.7	105	73.7
455772 (8983738)	1.25	133	0.3	44.9	96.5	93.6
455773 (8983739)	0.738	120	0.8	23.4	98.9	114
455774 (8983740)	0.503	19.3	1.0	31.3	35.6	66.1
455775 (8983741)	0.342	17.8	1.5	27.3	32.6	41.0
455776 (8983742)	0.482	16.4	4.0	30.3	32.0	49.4
455777 (8983743)	0.759	30.3	1.4	28.1	29.9	94.3
455778 (8983744)	1.28	187	1.2	26.5	111	123
455779 (8983745)	0.449	53.9	0.8	24.4	38.3	48.2
455780 (8983746)	1.89	171	0.8	33.6	89.6	248
455781 (8983747)	1.92	175	0.4	30.2	77.9	261
455782 (8983748)	1.83	164	0.4	30.9	83.1	254
455783 (8983749)	2.04	158	0.5	33.2	91.0	250
455784 (8983750)	2.24	149	3.1	19.6	103	61.6
455785 (8983751)	1.04	41.4	0.9	21.2	25.4	142
455786 (8983752)	0.393	172	0.6	14.3	89.7	73.9
455787 (8983753)	1.20	97.5	0.9	25.2	63.4	140
455788 (8983754)	0.982	132	0.8	18.7	79.8	108
455789 (8983755)	1.95	77.4	0.7	32.7	47.0	166
455790 (8983756)	2.04	135	0.6	30.6	84.0	248
455791 (8983757)	1.62	44.5	0.7	35.2	35.6	189
455792 (8983758)	0.771	134	0.9	14.6	79.0	91.0
455793 (8983759)	1.21	33.0	1.5	24.7	17.4	128
455794 (8983760)	2.22	16.7	1.1	41.0	23.6	203
455795 (8983761)	3.05	12.6	1.3	59.8	24.1	265
455796 (8983762)	1.52	141	0.6	57.4	99.1	130
455797 (8983763)	0.370	176	1.9	20.6	87.9	63.3
455798 (8983764)	0.318	170	1.3	13.2	91.3	82.2
455799 (8983765)	0.389	155	1.8	11.5	76.0	98.9
455800 (8983766)	0.390	174	0.4	13.3	91.4	93.4
455801 (8983767)	0.795	141	1.5	22.7	60.2	70.0

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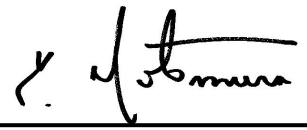

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AGAT WORK ORDER: 17B296302

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Jan 08, 2018 | SAMPLE TYPE: Drill Core

Analyte:	U	V	W	Y	Zn	Zr
Unit:	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.005	0.5	0.1	0.1	0.5	0.5
455802 (8983768)	1.14	207	1.7	18.9	112	142
455803 (8983769)	1.97	90.0	2.1	33.7	47.1	269
455804 (8983770)	0.690	188	0.6	14.0	111	101
455805 (8983771)	1.53	32.4	1.4	35.8	26.6	131
455806 (8983772)	0.285	181	<0.1	14.9	103	74.0
455807 (8983773)	3.01	18.7	1.6	51.0	16.0	226
455808 (8983774)	1.33	130	1.9	55.2	55.5	96.3
455809 (8983775)	2.40	55.5	2.3	56.7	32.8	262
455810 (8983776)	1.52	96.4	2.0	37.4	41.2	151
455811 (8983777)	2.43	30.4	1.8	48.6	19.3	252
455812 (8983778)	0.119	302	0.8	25.4	78.2	56.9
455813 (8983779)	0.972	115	0.8	35.0	58.3	85.4
455814 (8983780)	0.894	120	1.4	43.5	71.6	75.6

Comments: RDL - Reported Detection Limit

8983576-8983780 As, Sb values may be low due to digestion losses.

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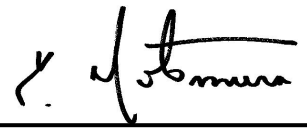

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AGAT WORK ORDER: 17B296302

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(202-551) Fire Assay - Trace Au, AAS finish (50g Charge)

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Jan 08, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Au
Unit:	ppm
Sample ID (AGAT ID) RDL:	0.002
455610 (8983576)	0.021
455611 (8983577)	0.002
455612 (8983578)	0.45
455613 (8983579)	<0.002
455614 (8983580)	0.068
455615 (8983581)	0.025
455616 (8983582)	<0.002
455617 (8983583)	<0.002
455618 (8983584)	<0.002
455619 (8983585)	0.002
455620 (8983586)	<0.002
455621 (8983587)	<0.002
455622 (8983588)	<0.002
455623 (8983589)	<0.002
455624 (8983590)	<0.002
455625 (8983591)	<0.002
455626 (8983592)	<0.002
455627 (8983593)	<0.002
455628 (8983594)	<0.002
455629 (8983595)	<0.002
455630 (8983596)	<0.002
455631 (8983597)	<0.002
455632 (8983598)	<0.002
455633 (8983599)	<0.002
455634 (8983600)	<0.002
455635 (8983601)	<0.002
455636 (8983602)	0.228
455637 (8983603)	<0.002
455638 (8983604)	<0.002
455639 (8983605)	<0.002
455640 (8983606)	<0.002
455641 (8983607)	0.031

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AGAT WORK ORDER: 17B296302

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(202-551) Fire Assay - Trace Au, AAS finish (50g Charge)

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Jan 08, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Au
Unit:	ppm
Sample ID (AGAT ID) RDL:	0.002
455642 (8983608)	0.009
455643 (8983609)	0.004
455644 (8983610)	0.003
455645 (8983611)	0.006
455646 (8983612)	0.007
455647 (8983613)	0.004
455648 (8983614)	0.004
455649 (8983615)	0.004
455650 (8983616)	0.003
455651 (8983617)	0.005
455652 (8983618)	0.003
455653 (8983619)	0.004
455654 (8983620)	0.004
455655 (8983621)	0.014
455656 (8983622)	0.008
455657 (8983623)	0.005
455658 (8983624)	0.002
455659 (8983625)	0.003
455660 (8983626)	0.245
455661 (8983627)	0.002
455662 (8983628)	0.004
455663 (8983629)	<0.002
455664 (8983630)	0.003
455665 (8983631)	0.003
455666 (8983632)	<0.002
455667 (8983633)	0.003
455668 (8983634)	0.002
455669 (8983635)	0.003
455670 (8983636)	0.008
455671 (8983637)	0.004
455672 (8983638)	0.002
455673 (8983639)	0.004

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AGAT WORK ORDER: 17B296302

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(202-551) Fire Assay - Trace Au, AAS finish (50g Charge)

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Jan 08, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Au
Unit:	ppm
Sample ID (AGAT ID) RDL:	0.002
455674 (8983640)	0.003
455675 (8983641)	0.003
455676 (8983642)	0.006
455677 (8983643)	0.004
455678 (8983644)	0.005
455679 (8983645)	0.007
455680 (8983646)	0.007
455681 (8983647)	0.007
455682 (8983648)	0.008
455683 (8983649)	0.011
455684 (8983650)	1.68
455685 (8983651)	<0.002
455686 (8983652)	0.004
455687 (8983653)	0.066
455688 (8983654)	0.063
455689 (8983655)	0.058
455690 (8983656)	0.935
455691 (8983657)	0.135
455692 (8983658)	0.914
455693 (8983659)	0.128
455694 (8983660)	0.139
455695 (8983661)	0.240
455696 (8983662)	<0.002
455697 (8983663)	0.123
455698 (8983664)	0.240
455699 (8983665)	0.143
455700 (8983666)	0.020
455701 (8983667)	2.32
455702 (8983668)	0.399
455703 (8983669)	0.008
455704 (8983670)	0.049
455705 (8983671)	0.358

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AGAT WORK ORDER: 17B296302

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(202-551) Fire Assay - Trace Au, AAS finish (50g Charge)

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Jan 08, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Au
Unit:	ppm
Sample ID (AGAT ID) RDL:	0.002
455706 (8983672)	0.160
455707 (8983673)	<0.002
455708 (8983674)	0.007
455709 (8983675)	0.511
455710 (8983676)	0.474
455711 (8983677)	0.203
455712 (8983678)	0.523
455713 (8983679)	0.004
455714 (8983680)	0.006
455715 (8983681)	0.015
455716 (8983682)	0.010
455717 (8983683)	0.039
455718 (8983684)	0.170
455719 (8983685)	0.354
455720 (8983686)	0.027
455721 (8983687)	0.010
455722 (8983688)	0.008
455723 (8983689)	0.012
455724 (8983690)	<0.002
455725 (8983691)	0.029
455726 (8983692)	0.005
455727 (8983693)	0.006
455728 (8983694)	0.046
455729 (8983695)	0.136
455730 (8983696)	0.208
455731 (8983697)	0.361
455732 (8983698)	0.010
455733 (8983699)	0.005
455734 (8983700)	0.241
455735 (8983701)	<0.002
455736 (8983702)	0.221
455737 (8983703)	0.014

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AGAT WORK ORDER: 17B296302

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(202-551) Fire Assay - Trace Au, AAS finish (50g Charge)

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Jan 08, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Au
Unit:	ppm
Sample ID (AGAT ID) RDL:	0.002
455738 (8983704)	0.014
455739 (8983705)	0.016
455740 (8983706)	0.011
455741 (8983707)	0.043
455742 (8983708)	<0.002
455743 (8983709)	0.131
455744 (8983710)	0.015
455745 (8983711)	0.015
455746 (8983712)	0.050
455747 (8983713)	0.397
455748 (8983714)	<0.002
455749 (8983715)	<0.002
455750 (8983716)	<0.002
455751 (8983717)	<0.002
455752 (8983718)	<0.002
455753 (8983719)	<0.002
455754 (8983720)	0.004
455755 (8983721)	0.004
455756 (8983722)	0.005
455757 (8983723)	0.012
455758 (8983724)	0.012
455759 (8983725)	<0.002
455760 (8983726)	0.245
455761 (8983727)	<0.002
455762 (8983728)	0.002
455763 (8983729)	<0.002
455764 (8983730)	<0.002
455765 (8983731)	0.013
455766 (8983732)	0.024
455767 (8983733)	<0.002
455768 (8983734)	<0.002
455769 (8983735)	0.010

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AGAT WORK ORDER: 17B296302

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

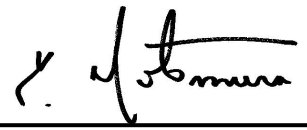
ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(202-551) Fire Assay - Trace Au, AAS finish (50g Charge)

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Jan 08, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Au
Unit:	ppm
Sample ID (AGAT ID) RDL:	0.002
455770 (8983736)	<0.002
455771 (8983737)	0.004
455772 (8983738)	<0.002
455773 (8983739)	0.008
455774 (8983740)	0.005
455775 (8983741)	0.040
455776 (8983742)	0.024
455777 (8983743)	0.006
455778 (8983744)	<0.002
455779 (8983745)	0.005
455780 (8983746)	0.005
455781 (8983747)	0.008
455782 (8983748)	0.006
455783 (8983749)	0.012
455784 (8983750)	1.60
455785 (8983751)	0.010
455786 (8983752)	0.009
455787 (8983753)	0.006
455788 (8983754)	0.007
455789 (8983755)	0.006
455790 (8983756)	0.009
455791 (8983757)	0.005
455792 (8983758)	0.006
455793 (8983759)	0.005
455794 (8983760)	0.005
455795 (8983761)	0.004
455796 (8983762)	0.003
455797 (8983763)	0.037
455798 (8983764)	0.006
455799 (8983765)	0.004
455800 (8983766)	0.006
455801 (8983767)	0.005

Certified By:



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PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(202-551) Fire Assay - Trace Au, AAS finish (50g Charge)

DATE SAMPLED: Dec 18, 2017 | DATE RECEIVED: Dec 19, 2017 | DATE REPORTED: Jan 08, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Au
Unit:	ppm
Sample ID (AGAT ID) RDL:	0.002
455802 (8983768)	0.005
455803 (8983769)	0.004
455804 (8983770)	0.003
455805 (8983771)	0.010
455806 (8983772)	0.006
455807 (8983773)	0.004
455808 (8983774)	0.005
455809 (8983775)	0.003
455810 (8983776)	0.002
455811 (8983777)	0.002
455812 (8983778)	0.507
455813 (8983779)	0.004
455814 (8983780)	0.005

Comments: RDL - Reported Detection Limit

Certified By:

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Quality Assurance - Replicate

AGAT WORK ORDER: 17B296302

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

	REPLICATE #1				REPLICATE #2				REPLICATE #3				REPLICATE #4			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Ag	8983625	0.11	0.10	9.5%	8983587	0.146	0.128	13.1%	8983592	0.17	0.21	21.1%	8983647	0.12	0.14	15.4%
Al	8983576	7.52	7.67	2.0%	8983587	7.95	8.10	1.9%	8983592	7.51	7.69	2.4%	8983599	6.41	6.41	0.0%
As	8983576	4.5	3.5	25.0%	8983635	3.2	2.6	20.7%	8983592	1.46	1.41	3.5%	8983599	2.41	2.04	16.6%
Ba	8983576	338	336	0.6%	8983587	311	312	0.3%	8983592	165	167	1.2%	8983599	186	184	1.1%
Be	8983576	1.57	1.47	6.6%	8983587	1.46	1.47	0.7%	8983592	1.60	1.54	3.8%	8983599	2.05	2.06	0.5%
Bi	8983576	0.096	0.089	7.6%	8983587	0.07	0.07	0.0%	8983639	0.03	0.01		8983599	0.05	0.05	0.0%
Ca	8983576	4.68	4.67	0.2%	8983587	2.77	2.75	0.7%	8983592	2.31	2.37	2.6%	8983599	6.72	6.78	0.9%
Cd	8983576	0.07	0.06	15.4%	8983587	0.11	0.10	9.5%	8983592	0.030	0.035	15.4%	8983599	0.10	0.09	10.5%
Ce	8983576	41.7	39.9	4.4%	8983587	34.4	34.1	0.9%	8983592	46.6	45.4	2.6%	8983599	24.7	24.7	0.0%
Co	8983576	20.2	19.1	5.6%	8983587	13.0	13.0	0.0%	8983592	20.4	19.6	4.0%	8983599	43.6	42.0	3.7%
Cr	8983576	74.3	70.7	5.0%	8983587	33.3	27.1	20.5%	8983592	41.6	39.4	5.4%	8983599	337	338	0.3%
Cs	8983576	0.177	0.165	7.0%	8983587	0.11	0.11	0.0%	8983592	0.238	0.222	7.0%	8983599	0.08	0.08	0.0%
Cu	8983576	32.9	33.7	2.4%	8983587	16.6	16.7	0.6%	8983592	< 0.5	< 0.5	0.0%	8983599	40.0	40.6	1.5%
Fe	8983576	4.19	4.26	1.7%	8983587	3.14	3.18	1.3%	8983592	4.41	4.52	2.5%	8983599	7.35	7.43	1.1%
Ga	8983576	18.3	17.4	5.0%	8983587	18.7	18.1	3.3%	8983592	17.6	16.9	4.1%	8983599	14.8	14.9	0.7%
Ge	8983576	< 0.05	< 0.05	0.0%	8983587	< 0.05	< 0.05	0.0%	8983592	< 0.05	< 0.05	0.0%	8983599	< 0.05	< 0.05	0.0%
Hf	8983576	1.2	1.2	0.0%	8983587	1.56	1.55	0.6%	8983592	1.8	1.5	18.2%	8983599	1.1	1.1	0.0%
In	8983576	0.0870	0.0863	0.8%	8983587	0.053	0.049	7.8%	8983592	0.0926	0.0909	1.9%	8983599	0.074	0.068	8.5%
K	8983576	0.85	0.86	1.2%	8983587	0.65	0.66	1.5%	8983592	0.488	0.497	1.8%	8983599	0.82	0.82	0.0%
La	8983576	21.6	20.5	5.2%	8983587	17.7	17.7	0.0%	8983592	21.0	20.3	3.4%	8983599	12.6	12.2	3.2%
Li	8983576	12.6	12.4	1.6%	8983587	8.70	8.55	1.7%	8983592	16.6	17.0	2.4%	8983599	10.3	10.8	4.7%
Mg	8983576	2.25	2.30	2.2%	8983587	1.28	1.30	1.6%	8983592	2.88	2.95	2.4%	8983599	6.26	6.29	0.5%
Mn	8983576	691	690	0.1%	8983587	476	476	0.0%	8983592	681	706	3.6%	8983599	1570	1570	0.0%
Mo	8983576	2.01	1.93	4.1%	8983587	3.51	3.62	3.1%	8983592	4.24	4.09	3.6%	8983599	1.58	1.34	16.4%
Na	8983576	2.54	2.54	0.0%	8983587	3.62	3.61	0.3%	8983592	2.92	2.99	2.4%	8983599	1.72	1.71	0.6%
Nb	8983576	5.9	5.9	0.0%	8983587	8.36	8.23	1.6%	8983592	11.0	10.5	4.7%	8983599	3.0	2.8	6.9%
Ni	8983576	56.7	56.2	0.9%	8983587	28.2	28.2	0.0%	8983592	48.1	47.4	1.5%	8983599	98.3	96.9	1.4%
P	8983576	360	367	1.9%	8983587	406	414	2.0%	8983592	277	275	0.7%	8983599	890	882	0.9%
Pb	8983576	2.86	2.53	12.2%	8983635	1.46	1.32	10.1%	8983592	1.2	1.2	0.0%	8983599	3.7	3.6	2.7%
Rb	8983576	23.8	22.1	7.4%	8983587	16.8	16.4	2.4%	8983592	17.9	17.4	2.8%	8983599	19.7	18.6	5.7%
Re	8983576	< 0.002	< 0.002	0.0%	8983587	< 0.002	< 0.002	0.0%	8983592	< 0.002	< 0.002	0.0%	8983599	< 0.002	< 0.002	0.0%

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CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

S	8983576	0.09	0.09	0.0%	8983587	0.07	0.07	0.0%	8983592	0.03	0.03	0.0%	8983599	0.136	0.133	2.2%
Sb	8983576	0.225	0.169	28.4%	8983587	0.332	0.264	22.8%	8983592	0.09	0.08	11.8%	8983599	0.17	0.17	0.0%
Sc	8983576	18.4	18.6	1.1%	8983587	10.3	10.3	0.0%	8983592	18.6	18.1	2.7%	8983599	45.9	45.7	0.4%
Se	8983625	0.8	0.6	28.6%	8983587	0.5	0.5	0.0%	8983639	0.9	0.9	0.0%	8983599	0.6	0.5	18.2%
Sn	8983576	3.51	3.55	1.1%	8983587	1.65	1.76	6.5%	8983592	2.2	1.7	25.6%	8983599	1.10	1.15	4.4%
Sr	8983576	170	176	3.5%	8983587	205	209	1.9%	8983592	143	148	3.4%	8983599	292	293	0.3%
Ta	8983576	0.62	0.65	4.7%	8983587	0.57	0.61	6.8%	8983592	0.62	0.64	3.2%	8983599	0.23	0.22	4.4%
Te	8983576	0.01	0.01	0.0%	8983587	0.048	0.041	15.7%	8983639	0.01	< 0.01		8983599	< 0.01	< 0.01	0.0%
Th	8983576	3.27	3.02	7.9%	8983587	2.95	2.74	7.4%	8983592	2.5	2.4	4.1%	8983599	2.01	1.95	3.0%
Ti	8983576	0.412	0.417	1.2%	8983587	0.34	0.34	0.0%	8983592	0.303	0.308	1.6%	8983599	0.30	0.30	0.0%
Tl	8983576	0.06	0.06	0.0%	8983587	0.055	0.049	11.5%	8983592	0.059	0.054	8.8%	8983599	0.06	0.06	0.0%
U	8983576	0.710	0.705	0.7%	8983587	0.600	0.575	4.3%	8983592	0.573	0.560	2.3%	8983599	0.615	0.602	2.1%
V	8983576	141	144	2.1%	8983587	67.0	66.0	1.5%	8983592	109	107	1.9%	8983599	256	254	0.8%
W	8983576	1.0	0.9	10.5%	8983587	0.37	0.29	24.2%	8983592	0.3	0.3	0.0%	8983599	0.4	0.4	0.0%
Y	8983576	21.3	20.8	2.4%	8983587	22.9	22.3	2.7%	8983592	57.0	53.8	5.8%	8983599	21.2	20.3	4.3%
Zn	8983576	71.1	62.0	13.7%	8983587	42.9	43.1	0.5%	8983592	77.0	79.0	2.6%	8983599	96.1	96.4	0.3%
Zr	8983576	32.4	33.4	3.0%	8983587	53.0	51.6	2.7%	8983592	63.7	51.7	20.8%	8983599	45.1	44.5	1.3%
	REPLICATE #5				REPLICATE #6				REPLICATE #7				REPLICATE #8			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Ag	8983600	0.23	0.27	16.0%	8983611	0.114	0.129	12.3%	8983671	0.385	0.375	2.6%	8983675	0.406	0.350	14.8%
Al	8983600	7.58	7.59	0.1%	8983611	7.57	7.44	1.7%	8983623	7.32	7.48	2.2%	8983625	7.49	7.33	2.2%
As	8983600	2.56	2.19	15.6%	8983611	10.5	9.6	9.0%	8983671	14.5	17.8	20.4%	8983675	145	154	6.0%
Ba	8983600	307	325	5.7%	8983611	142	142	0.0%	8983623	182	182	0.0%	8983625	209	204	2.4%
Be	8983600	1.88	1.83	2.7%	8983611	1.35	1.37	1.5%	8983623	1.00	1.24	21.4%	8983625	0.992	0.884	11.5%
Bi	8983600	0.03	0.03	0.0%	8983611	0.094	0.098	4.2%	8983671	0.384	0.409	6.3%	8983675	0.63	0.69	9.1%
Ca	8983600	3.58	3.60	0.6%	8983611	4.84	4.73	2.3%	8983623	3.99	4.00	0.3%	8983625	6.73	6.43	4.6%
Cd	8983600	0.064	0.070	9.0%	8983659	0.08	0.08	0.0%	8983671	0.03	0.03	0.0%	8983675	0.026	0.021	21.3%
Ce	8983600	66.0	67.4	2.1%	8983611	21.2	20.0	5.8%	8983671	29.5	28.7	2.7%	8983675	36.1	35.0	3.1%
Co	8983600	14.2	13.8	2.9%	8983611	49.5	47.7	3.7%	8983671	34.1	31.6	7.6%	8983675	31.3	32.2	2.8%
Cr	8983600	29.1	25.7	12.4%	8983611	93.8	90.1	4.0%	8983623	32.4	30.4	6.4%	8983625	163	169	3.6%
Cs	8983600	0.56	0.58	3.5%	8983611	0.40	0.40	0.0%	8983671	0.24	0.24	0.0%	8983675	0.354	0.362	2.2%
Cu	8983600	12.4	12.3	0.8%	8983611	76.4	77.1	0.9%	8983623	29.8	30.3	1.7%	8983625	< 0.5	< 0.5	0.0%
Fe	8983600	4.75	4.88	2.7%	8983611	7.73	7.57	2.1%	8983623	6.02	6.04	0.3%	8983625	6.80	6.65	2.2%
Ga	8983600	19.4	19.0	2.1%	8983611	18.0	17.6	2.2%	8983671	19.2	18.1	5.9%	8983675	17.2	16.7	2.9%

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ATTENTION TO: ALAN SMITH, STEPHEN ROACH

Ge	8983600	< 0.05	< 0.05	0.0%	8983611	< 0.05	< 0.05	0.0%	8983671	< 0.05	< 0.05	0.0%	8983675	< 0.05	< 0.05	0.0%
Hf	8983600	1.7	1.9	11.1%	8983611	1.29	1.12	14.1%	8983671	2.00	2.09	4.4%	8983675	2.0	2.0	0.0%
In	8983600	0.088	0.087	1.1%	8983611	0.105	0.0942	10.8%	8983671	0.0804	0.0824	2.5%	8983675	0.0795	0.0820	3.1%
K	8983600	0.855	0.895	4.6%	8983611	0.74	0.73	1.4%	8983623	0.40	0.40	0.0%	8983625	0.602	0.582	3.4%
La	8983600	29.0	29.6	2.0%	8983611	9.78	8.99	8.4%	8983671	13.3	13.1	1.5%	8983675	16.4	16.0	2.5%
Li	8983600	10.4	10.2	1.9%	8983611	22.2	22.1	0.5%	8983623	14.5	14.5	0.0%	8983625	24.3	23.6	2.9%
Mg	8983600	1.13	1.12	0.9%	8983611	3.83	3.77	1.6%	8983623	2.70	2.77	2.6%	8983625	4.34	4.20	3.3%
Mn	8983600	748	757	1.2%	8983611	1310	1310	0.0%	8983623	772	771	0.1%	8983625	928	890	4.2%
Mo	8983600	4.37	5.00	13.4%	8983611	1.55	1.59	2.5%	8983671	3.39	3.22	5.1%	8983675	3.06	2.75	10.7%
Na	8983600	2.87	2.90	1.0%	8983611	2.32	2.27	2.2%	8983623	2.82	2.81	0.4%	8983625	1.79	1.83	2.2%
Nb	8983600	15.2	16.0	5.1%	8983611	6.0	5.6	6.9%	8983671	2.87	2.58	10.6%	8983675	6.7	6.4	4.6%
Ni	8983600	33.5	38.0	12.6%	8983611	84.6	83.4	1.4%	8983623	58.1	60.9	4.7%	8983625	139	137	1.4%
P	8983600	447	447	0.0%	8983611	351	349	0.6%	8983623	421	434	3.0%	8983625	818	796	2.7%
Pb	8983600	3.6	3.6	0.0%	8983611	1.17	1.09	7.1%	8983671	1.37	1.33	3.0%	8983675	2.6	2.6	0.0%
Rb	8983600	26.4	27.7	4.8%	8983611	25.4	25.4	0.0%	8983671	36.5	34.8	4.8%	8983675	67.6	66.7	1.3%
Re	8983600	< 0.002	< 0.002	0.0%	8983611	< 0.002	< 0.002	0.0%	8983671	< 0.002	< 0.002	0.0%	8983675	< 0.002	< 0.002	0.0%
S	8983600	0.06	0.06	0.0%	8983611	0.28	0.28	0.0%	8983623	0.06	0.06	0.0%	8983625	0.078	0.073	6.6%
Sb	8983600	0.13	0.14	7.4%	8983611	0.211	0.201	4.9%	8983671	0.373	0.334	11.0%	8983675	0.509	0.494	3.0%
Sc	8983600	13.1	13.2	0.8%	8983611	26.1	25.6	1.9%	8983623	16.1	16.8	4.3%	8983625	24.1	23.5	2.5%
Se	8983600	1.06	0.91	15.2%	8983611	1.14	1.20	5.1%	8983671	1.6	1.6	0.0%	8983675	0.90	0.95	5.4%
Sn	8983600	2.85	2.84	0.4%	8983611	2.7	2.7	0.0%	8983671	4.07	3.93	3.5%	8983675	2.9	3.7	24.2%
Sr	8983600	218	212	2.8%	8983611	97.5	96.7	0.8%	8983623	105	112	6.5%	8983625	115	123	6.7%
Ta	8983600	0.822	1.02	21.5%	8983611	0.30	0.25	18.2%	8983671	0.34	0.30	12.5%	8983675	0.550	0.513	7.0%
Te	8983654	0.03	0.04	28.6%	8983611	0.01	0.01	0.0%	8983671	0.19	0.17	11.1%	8983675	0.369	0.385	4.2%
Th	8983600	4.2	4.2	0.0%	8983611	1.4	1.3	7.4%	8983671	3.45	3.01	13.6%	8983675	3.2	3.2	0.0%
Ti	8983600	0.40	0.40	0.0%	8983611	0.80	0.80	0.0%	8983623	0.60	0.60	0.0%	8983625	0.368	0.354	3.9%
Tl	8983600	0.09	0.09	0.0%	8983611	0.09	0.09	0.0%	8983671	0.126	0.115	9.1%	8983675	0.24	0.24	0.0%
U	8983600	1.07	1.10	2.8%	8983611	0.322	0.291	10.1%	8983671	0.710	0.619	13.7%	8983675	0.754	0.729	3.4%
V	8983600	65.8	66.0	0.3%	8983611	200	197	1.5%	8983623	114	118	3.4%	8983625	155	152	2.0%
W	8983600	0.2	0.2	0.0%	8983611	0.75	0.72	4.1%	8983671	1.86	1.64	12.6%	8983675	7.52	7.43	1.2%
Y	8983600	51.1	51.1	0.0%	8983611	30.2	29.1	3.7%	8983671	11.8	11.3	4.3%	8983675	22.7	21.8	4.0%
Zn	8983600	61.8	67.5	8.8%	8983611	91.6	91.9	0.3%	8983623	44.4	45.3	2.0%	8983625	54.7	53.4	2.4%
Zr	8983600	69.5	78.2	11.8%	8983611	58.4	50.3	14.9%	8983671	72.0	72.4	0.6%	8983675	58.5	57.6	1.6%

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Quality Assurance - Replicate

AGAT WORK ORDER: 17B296302

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

	REPLICATE #9				REPLICATE #10				REPLICATE #11				REPLICATE #12			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Ag	8983683	0.22	0.22	0.0%	8983685	0.21	0.26	21.3%	8983695	0.176	0.159	10.1%	8983700	0.88	0.98	10.8%
Al	8983635	6.96	6.74	3.2%	8983639	7.48	7.10	5.2%	8983647	3.57	3.52	1.4%	8983654	5.09	5.14	1.0%
As	8983683	23.0	19.4	17.0%	8983685	20.9	20.3	2.9%	8983695	23.7	23.2	2.1%	8983700	3.81	3.65	4.3%
Ba	8983635	513	484	5.8%	8983639	281	265	5.9%	8983647	5	4	22.2%	8983654	230	230	0.0%
Be	8983635	1.37	1.29	6.0%	8983639	1.50	1.55	3.3%	8983647	1.66	1.53	8.2%	8983654	1.25	1.38	9.9%
Bi	8983683	0.04	0.04	0.0%	8983685	0.07	0.06	15.4%	8983695	0.023	0.025	8.3%	8983700	3.07	3.05	0.7%
Ca	8983635	2.23	2.14	4.1%	8983639	2.83	2.68	5.4%	8983647	6.25	6.08	2.8%	8983654	6.13	6.14	0.2%
Cd	8983683	0.04	0.04	0.0%	8983685	0.039	0.032	19.7%	8983695	0.04	0.05	22.2%	8983700	0.034	0.040	16.2%
Ce	8983683	64.8	64.6	0.3%	8983685	48.3	48.4	0.2%	8983695	30.2	30.3	0.3%	8983700	37.3	37.6	0.8%
Co	8983683	24.0	24.3	1.2%	8983685	20.7	19.6	5.5%	8983695	25.0	23.6	5.8%	8983700	7.77	7.78	0.1%
Cr	8983635	7.9	7.0	12.1%	8983639	15.8	13.6	15.0%	8983647	705	553	24.2%	8983654	318	321	0.9%
Cs	8983683	0.16	0.16	0.0%	8983685	0.30	0.29	3.4%	8983695	0.37	0.37	0.0%	8983700	0.19	0.19	0.0%
Cu	8983635	12.5	12.7	1.6%	8983639	40.6	39.1	3.8%	8983647	212	204	3.8%	8983654	76.9	80.1	4.1%
Fe	8983635	4.82	4.64	3.8%	8983639	4.85	4.60	5.3%	8983647	9.90	9.58	3.3%	8983654	6.92	6.97	0.7%
Ga	8983683	17.9	17.6	1.7%	8983685	20.2	19.6	3.0%	8983695	17.7	17.2	2.9%	8983700	14.2	13.5	5.1%
Ge	8983683	< 0.05	< 0.05	0.0%	8983685	< 0.05	< 0.05	0.0%	8983695	< 0.05	< 0.05	0.0%	8983700	< 0.05	< 0.05	0.0%
Hf	8983683	2.21	2.47	11.1%	8983685	2.8	2.7	3.6%	8983695	2.1	2.1	0.0%	8983700	1.7	1.7	0.0%
In	8983683	0.0546	0.0533	2.4%	8983685	0.079	0.080	1.3%	8983695	0.0800	0.0783	2.1%	8983700	0.164	0.154	6.3%
K	8983635	1.19	1.16	2.6%	8983639	0.52	0.49	5.9%	8983647	0.02	0.02	0.0%	8983654	0.72	0.72	0.0%
La	8983683	29.8	29.8	0.0%	8983685	22.6	23.1	2.2%	8983695	13.8	14.3	3.6%	8983700	16.7	16.9	1.2%
Li	8983635	5.47	5.38	1.7%	8983639	7.5	7.3	2.7%	8983647	13.7	14.0	2.2%	8983654	9.12	9.65	5.6%
Mg	8983635	0.99	0.96	3.1%	8983639	1.46	1.39	4.9%	8983647	7.26	7.17	1.2%	8983654	4.50	4.52	0.4%
Mn	8983635	424	403	5.1%	8983639	437	411	6.1%	8983647	1300	1270	2.3%	8983654	1370	1390	1.4%
Mo	8983683	2.40	2.44	1.7%	8983685	2.74	2.60	5.2%	8983695	2.37	2.42	2.1%	8983700	4.08	3.79	7.4%
Na	8983635	2.70	2.61	3.4%	8983639	3.67	3.49	5.0%	8983647	0.01	0.01	0.0%	8983654	1.34	1.35	0.7%
Nb	8983683	13.3	12.6	5.4%	8983685	6.9	7.3	5.6%	8983695	7.06	6.28	11.7%	8983700	1.3	1.3	0.0%
Ni	8983635	6.3	6.0	4.9%	8983639	27.8	26.0	6.7%	8983647	531	517	2.7%	8983654	297	310	4.3%
P	8983635	637	606	5.0%	8983639	464	437	6.0%	8983647	456	439	3.8%	8983654	778	809	3.9%
Pb	8983683	1.7	1.7	0.0%	8983685	1.8	1.8	0.0%	8983695	1.42	1.48	4.1%	8983700	2.54	2.61	2.7%
Rb	8983683	36.8	37.4	1.6%	8983685	61.9	59.4	4.1%	8983695	58.0	55.5	4.4%	8983700	40.2	38.2	5.1%
Re	8983683	< 0.002	< 0.002	0.0%	8983685	< 0.002	< 0.002	0.0%	8983695	< 0.002	< 0.002	0.0%	8983700	< 0.002	< 0.002	0.0%
S	8983635	0.05	0.05	0.0%	8983639	0.08	0.07	13.3%	8983647	0.182	0.174	4.5%	8983654	0.59	0.61	3.3%

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CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

Sb	8983683	0.40	0.44	9.5%	8983685	0.36	0.36	0.0%	8983695	0.55	0.51	7.5%	8983700	0.32	0.32	0.0%
Sc	8983635	10.9	10.5	3.7%	8983639	14.2	13.6	4.3%	8983647	27.2	26.3	3.4%	8983654	19.8	20.8	4.9%
Se	8983683	0.9	0.9	0.0%	8983685	0.82	0.74	10.3%	8983695	0.6	0.5	18.2%	8983700	1.48	1.42	4.1%
Sn	8983683	1.71	1.86	8.4%	8983685	2.9	2.9	0.0%	8983695	2.26	2.17	4.1%	8983700	1.9	1.8	5.4%
Sr	8983635	136	134	1.5%	8983639	225	211	6.4%	8983647	411	409	0.5%	8983654	246	259	5.1%
Ta	8983683	0.89	0.90	1.1%	8983685	0.48	0.51	6.1%	8983695	0.49	0.39	22.7%	8983700	0.068	0.076	11.1%
Te	8983683	0.02	0.11		8983685	0.02	0.03		8983695	0.01	0.02		8983700	0.07	0.07	0.0%
Th	8983683	4.5	4.7	4.3%	8983685	4.14	4.29	3.6%	8983695	2.6	2.7	3.8%	8983700	2.7	2.8	3.6%
Ti	8983635	0.34	0.33	3.0%	8983639	0.36	0.34	5.7%	8983647	0.43	0.43	0.0%	8983654	0.374	0.401	7.0%
Tl	8983683	0.12	0.12	0.0%	8983685	0.21	0.22	4.7%	8983695	0.18	0.18	0.0%	8983700	0.12	0.12	0.0%
U	8983683	1.04	1.03	1.0%	8983685	0.931	0.982	5.3%	8983695	0.667	0.680	1.9%	8983700	0.427	0.410	4.1%
V	8983635	28.7	27.8	3.2%	8983639	60.8	57.3	5.9%	8983647	197	191	3.1%	8983654	148	156	5.3%
W	8983683	2.4	2.4	0.0%	8983685	2.76	2.85	3.2%	8983695	6.96	6.55	6.1%	8983700	4.5	4.4	2.2%
Y	8983683	23.8	23.7	0.4%	8983685	18.7	18.9	1.1%	8983695	20.5	19.6	4.5%	8983700	4.7	4.5	4.3%
Zn	8983635	24.9	23.2	7.1%	8983639	38.8	36.9	5.0%	8983647	98.1	94.4	3.8%	8983654	64.2	64.7	0.8%
Zr	8983683	64.7	61.6	4.9%	8983685	103	94.5	8.6%	8983695	83.4	81.6	2.2%	8983700	69.2	65.1	6.1%
	REPLICATE #13				REPLICATE #14				REPLICATE #15				REPLICATE #16			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Ag	8983707	0.20	0.20	0.0%	8983717	0.206	0.199	3.5%	8983719	0.11	0.13	16.7%	8983725	0.224	0.278	21.5%
Al	8983659	6.63	6.47	2.4%	8983671	6.89	6.89	0.0%	8983675	6.31	6.41	1.6%	8983683	6.77	6.40	5.6%
As	8983707	10.7	9.53	11.6%	8983717	3.68	4.07	10.1%	8983719	13.6	19.3		8983725	10.5	9.2	13.2%
Ba	8983659	248	245	1.2%	8983671	161	156	3.2%	8983675	290	299	3.1%	8983683	161	153	5.1%
Be	8983659	1.37	1.43	4.3%	8983671	1.15	1.15	0.0%	8983675	1.41	1.58	11.4%	8983683	1.29	1.23	4.8%
Bi	8983707	0.03	0.03	0.0%	8983717	0.03	0.02		8983719	0.028	0.025	11.3%	8983725	0.114	0.117	2.6%
Ca	8983659	3.46	3.46	0.0%	8983671	2.29	2.25	1.8%	8983675	5.32	5.33	0.2%	8983683	4.02	3.83	4.8%
Cd	8983707	0.04	0.04	0.0%	8983717	0.04	0.07		8983719	0.05	0.05	0.0%	8983725	0.05	0.05	0.0%
Ce	8983707	46.6	45.3	2.8%	8983717	36.2	37.7	4.1%	8983719	25.5	25.0	2.0%	8983725	46.8	47.2	0.9%
Co	8983707	7.75	8.01	3.3%	8983717	7.68	8.77	13.3%	8983719	35.4	35.3	0.3%	8983725	21.5	19.2	11.3%
Cr	8983659	13.3	12.2	8.6%	8983671	4.5	5.2	14.4%	8983675	11.3	10.7	5.5%	8983683	6.32	6.97	9.8%
Cs	8983707	0.17	0.18	5.7%	8983717	0.15	0.15	0.0%	8983719	0.08	0.08	0.0%	8983725	0.449	0.424	5.7%
Cu	8983659	38.5	38.0	1.3%	8983671	1300	1290	0.8%	8983675	145	143	1.4%	8983683	54.6	51.0	6.8%
Fe	8983659	6.26	6.21	0.8%	8983671	8.84	8.72	1.4%	8983675	6.52	6.71	2.9%	8983683	6.91	6.54	5.5%
Ga	8983707	17.8	18.6	4.4%	8983717	16.9	17.9	5.7%	8983719	16.1	15.9	1.3%	8983725	20.0	19.0	5.1%
Ge	8983707	< 0.05	< 0.05	0.0%	8983717	< 0.05	< 0.05	0.0%	8983719	< 0.05	< 0.05	0.0%	8983725	< 0.05	< 0.05	0.0%

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Hf	8983707	2.3	2.2	4.4%	8983717	4.33	4.56	5.2%	8983719	2.0	2.1	4.9%	8983725	3.83	3.89	1.6%
In	8983707	0.0420	0.0449	6.7%	8983717	0.0473	0.0551	15.2%	8983719	0.051	0.050	2.0%	8983725	0.088	0.081	8.3%
K	8983659	1.16	1.14	1.7%	8983671	0.846	0.844	0.2%	8983675	1.60	1.66	3.7%	8983683	0.966	0.908	6.2%
La	8983707	21.7	21.9	0.9%	8983717	15.6	16.1	3.2%	8983719	11.2	11.4	1.8%	8983725	21.1	21.4	1.4%
Li	8983659	3.58	3.15	12.8%	8983671	21.6	21.4	0.9%	8983675	5.94	6.18	4.0%	8983683	6.61	7.07	6.7%
Mg	8983659	1.50	1.46	2.7%	8983671	3.72	3.71	0.3%	8983675	1.16	1.18	1.7%	8983683	1.95	1.85	5.3%
Mn	8983659	1060	1050	0.9%	8983671	764	747	2.3%	8983675	873	881	0.9%	8983683	1080	1020	5.7%
Mo	8983707	9.90	9.81	0.9%	8983717	2.42	2.72	11.7%	8983719	1.31	1.24	5.5%	8983725	3.09	3.59	15.0%
Na	8983659	2.88	2.85	1.0%	8983671	0.94	0.93	1.1%	8983675	1.57	1.54	1.9%	8983683	2.43	2.32	4.6%
Nb	8983707	8.98	9.67	7.4%	8983717	9.4	10.2	8.2%	8983719	4.1	4.2	2.4%	8983725	10.4	10.2	1.9%
Ni	8983659	18.4	19.0	3.2%	8983671	14.1	14.7	4.2%	8983675	17.6	16.7	5.2%	8983683	24.5	24.6	0.4%
P	8983659	355	349	1.7%	8983671	623	629	1.0%	8983675	765	799	4.3%	8983683	1010	1010	0.0%
Pb	8983707	1.75	1.81	3.4%	8983717	1.7	1.7	0.0%	8983719	1.19	1.27	6.5%	8983725	3.1	3.0	3.3%
Rb	8983707	33.0	34.1	3.3%	8983717	19.7	20.9	5.9%	8983719	4.70	4.55	3.2%	8983725	16.8	16.0	4.9%
Re	8983707	< 0.002	< 0.002	0.0%	8983717	< 0.002	< 0.002	0.0%	8983719	< 0.002	< 0.002	0.0%	8983725	< 0.002	< 0.002	0.0%
S	8983659	0.33	0.33	0.0%	8983671	0.618	0.591	4.5%	8983675	2.26	2.48	9.3%	8983683	0.354	0.335	5.5%
Sb	8983707	0.470	0.479	1.9%	8983717	0.31	0.31	0.0%	8983719	0.19	0.19	0.0%	8983725	0.78	0.73	6.6%
Sc	8983659	19.9	20.0	0.5%	8983671	22.9	22.8	0.4%	8983675	20.9	22.1	5.6%	8983683	21.3	20.8	2.4%
Se	8983707	0.51	0.59	14.5%	8983717	0.84	0.86	2.4%	8983719	0.63	0.82	26.2%	8983725	1.1	0.9	20.0%
Sn	8983707	1.72	1.80	4.5%	8983717	1.99	2.26	12.7%	8983719	0.9	0.9	0.0%	8983725	3.4	3.4	0.0%
Sr	8983659	192	186	3.2%	8983671	76.0	77.9	2.5%	8983675	137	133	3.0%	8983683	144	132	8.7%
Ta	8983707	0.54	0.56	3.6%	8983717	0.576	0.551	4.4%	8983719	0.264	0.288	8.7%	8983725	0.798	0.749	6.3%
Te	8983707	0.024	0.029	18.9%	8983717	< 0.01	< 0.01	0.0%	8983719	< 0.01	< 0.01	0.0%	8983725	< 0.01	0.02	
Th	8983707	3.4	3.4	0.0%	8983717	3.0	3.0	0.0%	8983719	2.7	2.7	0.0%	8983725	4.3	4.4	2.3%
Ti	8983659	0.54	0.54	0.0%	8983671	0.34	0.32	6.1%	8983675	0.64	0.63	1.6%	8983683	0.596	0.544	9.1%
Tl	8983707	0.09	0.09	0.0%	8983717	0.054	0.060	10.5%	8983719	0.01	0.01	0.0%	8983725	0.07	0.07	0.0%
U	8983707	0.791	0.776	1.9%	8983717	0.974	0.966	0.8%	8983719	0.646	0.650	0.6%	8983725	1.11	1.15	3.5%
V	8983659	193	194	0.5%	8983671	92.1	90.4	1.9%	8983675	109	116	6.2%	8983683	102	101	1.0%
W	8983707	2.0	2.0	0.0%	8983717	1.18	1.10	7.0%	8983719	0.3	0.3	0.0%	8983725	0.4	0.4	0.0%
Y	8983707	12.4	12.9	4.0%	8983717	29.3	30.7	4.7%	8983719	21.2	20.6	2.9%	8983725	42.5	42.2	0.7%
Zn	8983659	43.6	42.7	2.1%	8983671	138	134	2.9%	8983675	29.9	30.9	3.3%	8983683	65.5	61.1	7.0%
Zr	8983707	82.1	80.3	2.2%	8983717	190	201	5.6%	8983719	71.6	72.3	1.0%	8983725	173	169	2.3%
	REPLICATE #17				REPLICATE #18				REPLICATE #19				REPLICATE #20			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD

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Ag	8983731	0.45	0.63		8983743	0.23	0.32		8983746	0.228	0.275	18.7%	8983755	0.209	0.204	2.4%
Al	8983685	7.25	7.07	2.5%	8983695	6.75	7.02	3.9%	8983700	5.39	5.35	0.7%	8983707	7.12	6.78	4.9%
As	8983731	8.9	6.8	26.8%	8983743	3.6	6.9		8983746	3.2	3.8	17.1%	8983755	2.44	2.81	14.1%
Ba	8983685	296	292	1.4%	8983695	224	230	2.6%	8983700	238	236	0.8%	8983707	264	259	1.9%
Be	8983685	1.51	1.40	7.6%	8983695	1.51	1.44	4.7%	8983700	1.26	1.25	0.8%	8983707	1.24	1.24	0.0%
Bi	8983731	0.27	0.27	0.0%	8983743	0.221	0.237	7.0%	8983746	0.12	0.14	15.4%	8983755	0.06	0.06	0.0%
Ca	8983685	3.57	3.62	1.4%	8983695	4.09	4.15	1.5%	8983700	0.305	0.301	1.3%	8983707	2.07	2.02	2.4%
Cd	8983731	0.03	0.02		8983743	0.091	0.100	9.4%	8983746	0.07	0.10		8983755	0.15	0.13	14.3%
Ce	8983731	39.0	39.8	2.0%	8983743	48.3	49.9	3.3%	8983746	130	138	6.0%	8983755	49.3	49.7	0.8%
Co	8983731	20.4	18.5	9.8%	8983743	11.2	11.1	0.9%	8983746	26.8	27.0	0.7%	8983755	12.0	12.8	6.5%
Cr	8983685	8.17	7.54	8.0%	8983695	51.3	62.3	19.4%	8983700	20.0	18.8	6.2%	8983707	35.1	39.9	12.8%
Cs	8983731	0.774	0.791	2.2%	8983743	0.211	0.221	4.6%	8983746	4.72	4.67	1.1%	8983755	1.28	1.35	5.3%
Cu	8983685	34.8	33.6	3.5%	8983695	56.2	58.1	3.3%	8983700	2310	2260	2.2%	8983707	69.3	67.8	2.2%
Fe	8983685	6.36	6.43	1.1%	8983695	6.01	6.11	1.7%	8983700	2.79	2.78	0.4%	8983707	4.01	3.91	2.5%
Ga	8983731	18.8	19.0	1.1%	8983743	15.0	15.5	3.3%	8983746	16.7	17.1	2.4%	8983755	16.4	17.6	7.1%
Ge	8983731	< 0.05	< 0.05	0.0%	8983743	< 0.05	< 0.05	0.0%	8983746	0.18	0.08		8983755	< 0.05	< 0.05	0.0%
Hf	8983731	2.4	2.5	4.1%	8983743	2.33	2.79	18.0%	8983746	5.22	5.37	2.8%	8983755	4.21	4.14	1.7%
In	8983731	0.101	0.105	3.9%	8983743	0.049	0.052	5.9%	8983746	0.087	0.089	2.3%	8983755	0.050	0.055	9.5%
K	8983685	1.58	1.55	1.9%	8983695	1.45	1.52	4.7%	8983700	1.15	1.14	0.9%	8983707	1.08	1.03	4.7%
La	8983731	17.6	18.3	3.9%	8983743	23.1	23.6	2.1%	8983746	60.0	62.9	4.7%	8983755	22.4	22.9	2.2%
Li	8983685	6.77	6.20	8.8%	8983695	8.9	9.5	6.5%	8983700	7.40	7.02	5.3%	8983707	3.2	2.7	16.9%
Mg	8983685	1.70	1.67	1.8%	8983695	1.93	2.00	3.6%	8983700	1.60	1.59	0.6%	8983707	0.821	0.784	4.6%
Mn	8983685	964	952	1.3%	8983695	1040	1080	3.8%	8983700	124	120	3.3%	8983707	454	452	0.4%
Mo	8983731	1.87	1.86	0.5%	8983743	5.10	4.94	3.2%	8983746	1.04	0.94	10.1%	8983755	2.98	3.11	4.3%
Na	8983685	2.14	2.14	0.0%	8983695	1.94	2.00	3.0%	8983700	1.44	1.44	0.0%	8983707	3.56	3.47	2.6%
Nb	8983731	7.47	7.39	1.1%	8983743	8.5	9.5	11.1%	8983746	6.74	7.00	3.8%	8983755	10.2	10.8	5.7%
Ni	8983685	24.5	24.1	1.6%	8983695	66.7	71.3	6.7%	8983700	22.8	23.3	2.2%	8983707	11.1	11.0	0.9%
P	8983685	814	803	1.4%	8983695	544	555	2.0%	8983700	229	229	0.0%	8983707	471	466	1.1%
Pb	8983731	1.6	2.2		8983743	4.2	4.2	0.0%	8983746	4.5	5.4	18.2%	8983755	5.0	5.0	0.0%
Rb	8983731	24.5	24.4	0.4%	8983743	15.4	15.5	0.6%	8983746	152	151	0.7%	8983755	62.8	65.3	3.9%
Re	8983731	< 0.002	< 0.002	0.0%	8983743	< 0.002	< 0.002	0.0%	8983746	< 0.002	< 0.002	0.0%	8983755	< 0.002	< 0.002	0.0%
S	8983685	0.286	0.278	2.8%	8983695	0.29	0.29	0.0%	8983700	0.26	0.26	0.0%	8983707	0.169	0.164	3.0%
Sb	8983731	0.30	0.31	3.3%	8983743	0.446	0.434	2.7%	8983746	0.295	0.331	11.5%	8983755	0.253	0.299	16.7%
Sc	8983685	14.9	14.7	1.4%	8983695	17.7	18.4	3.9%	8983700	6.8	6.7	1.5%	8983707	12.9	12.6	2.4%

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ATTENTION TO: ALAN SMITH, STEPHEN ROACH

Se	8983731	1.0	1.3	26.1%	8983743	1.0	1.0	0.0%	8983746	0.92	1.17	23.9%	8983755	1.00	1.07	6.8%
Sn	8983731	3.6	3.6	0.0%	8983743	7.01	7.30	4.1%	8983746	2.7	3.5	25.8%	8983755	2.82	2.96	4.8%
Sr	8983685	137	133	3.0%	8983695	126	134	6.2%	8983700	55.3	53.6	3.1%	8983707	135	132	2.2%
Ta	8983731	0.512	0.493	3.8%	8983743	0.67	0.80	17.7%	8983746	0.455	0.470	3.2%	8983755	0.851	0.843	0.9%
Te	8983731	0.07	0.15		8983743	0.10	0.07		8983746	0.04	0.03	28.6%	8983755	< 0.01	< 0.01	0.0%
Th	8983731	3.8	3.8	0.0%	8983743	3.71	3.86	4.0%	8983746	7.2	7.2	0.0%	8983755	7.69	8.18	6.2%
Ti	8983685	0.454	0.462	1.7%	8983695	0.52	0.52	0.0%	8983700	0.06	0.06	0.0%	8983707	0.265	0.256	3.5%
Tl	8983731	0.106	0.104	1.9%	8983743	0.05	0.05	0.0%	8983746	0.654	0.666	1.8%	8983755	0.25	0.26	3.9%
U	8983731	0.925	0.919	0.7%	8983743	0.759	0.794	4.5%	8983746	1.89	1.93	2.1%	8983755	1.95	2.01	3.0%
V	8983685	82.1	80.5	2.0%	8983695	107	113	5.5%	8983700	24.2	24.0	0.8%	8983707	20.6	20.7	0.5%
W	8983731	0.59	0.51	14.5%	8983743	1.45	1.54	6.0%	8983746	0.83	1.00	18.6%	8983755	0.73	0.79	7.9%
Y	8983731	31.8	32.3	1.6%	8983743	28.1	28.9	2.8%	8983746	33.6	32.7	2.7%	8983755	32.7	34.7	5.9%
Zn	8983685	54.3	53.9	0.7%	8983695	57.0	60.0	5.1%	8983700	55.9	55.1	1.4%	8983707	22.8	22.8	0.0%
Zr	8983731	100	106	5.8%	8983743	94.3	110	15.4%	8983746	248	243	2.0%	8983755	166	168	1.2%
	REPLICATE #21				REPLICATE #22				REPLICATE #23				REPLICATE #24			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Ag	8983761	0.27	0.25	7.7%	8983767	0.39	0.36	8.0%	8983775	0.282	0.264	6.6%	8983779	0.19	0.24	23.3%
Al	8983717	6.96	6.89	1.0%	8983719	6.72	6.68	0.6%	8983725	7.12	7.08	0.6%	8983731	7.58	7.47	1.5%
As	8983761	4.1	3.5	15.8%	8983767	4.9	4.6	6.3%	8983775	4.3	4.2	2.4%	8983779	3.0	5.3	
Ba	8983717	312	316	1.3%	8983719	55	55	0.0%	8983725	177	170	4.0%	8983731	156	154	1.3%
Be	8983717	1.49	1.51	1.3%	8983719	1.09	1.20	9.6%	8983725	1.67	1.64	1.8%	8983731	1.49	1.42	4.8%
Bi	8983761	0.066	0.057	14.6%	8983767	0.051	0.042	19.4%	8983775	0.05	0.05	0.0%	8983779	0.02	0.03	
Ca	8983717	3.34	3.37	0.9%	8983719	4.87	4.75	2.5%	8983725	3.04	2.99	1.7%	8983731	3.46	3.43	0.9%
Cd	8983761	0.075	0.087	14.8%	8983767	0.08	0.08	0.0%	8983775	0.08	0.08	0.0%	8983779	0.05	0.08	
Ce	8983761	82.9	73.9	11.5%	8983767	63.6	57.1	10.8%	8983775	86.4	82.0	5.2%	8983779	40.7	47.1	14.6%
Co	8983761	6.23	5.72	8.5%	8983767	37.2	33.9	9.3%	8983775	15.4	14.4	6.7%	8983779	26.9	31.0	14.2%
Cr	8983717	14.5	15.4	6.0%	8983719	77.6	80.4	3.5%	8983725	20.2	20.4	1.0%	8983731	12.6	11.5	9.1%
Cs	8983761	0.505	0.485	4.0%	8983767	0.887	0.781	12.7%	8983775	0.55	0.55	0.0%	8983779	0.16	0.19	17.1%
Cu	8983717	16.9	18.2	7.4%	8983719	81.0	79.1	2.4%	8983725	41.2	41.0	0.5%	8983731	765	745	2.6%
Fe	8983717	3.10	3.08	0.6%	8983719	6.39	6.25	2.2%	8983725	6.88	6.90	0.3%	8983731	7.25	7.15	1.4%
Ga	8983761	22.7	21.2	6.8%	8983767	24.3	21.1	14.1%	8983775	25.2	23.5	7.0%	8983779	19.3	23.8	20.9%
Ge	8983761	< 0.05	< 0.05	0.0%	8983767	< 0.05	< 0.05	0.0%	8983775	< 0.05	< 0.05	0.0%	8983779	< 0.05	< 0.05	0.0%
Hf	8983761	6.95	6.04	14.0%	8983767	2.17	1.98	9.2%	8983775	6.6	6.1	7.9%	8983779	2.13	2.53	17.2%
In	8983761	0.0327	0.0299	8.9%	8983767	0.0831	0.0742	11.3%	8983775	0.0688	0.0581	16.9%	8983779	0.063	0.076	18.7%

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K	8983717	0.702	0.694	1.1%	8983719	0.16	0.16	0.0%	8983725	0.421	0.414	1.7%	8983731	0.54	0.53	1.9%
La	8983761	40.1	36.1	10.5%	8983767	25.5	22.9	10.7%	8983775	40.3	38.2	5.4%	8983779	18.5	22.1	17.7%
Li	8983717	4.9	4.7	4.2%	8983719	12.8	12.9	0.8%	8983725	7.31	7.55	3.2%	8983731	14.5	14.8	2.0%
Mg	8983717	0.840	0.831	1.1%	8983719	2.66	2.64	0.8%	8983725	1.39	1.34	3.7%	8983731	2.67	2.62	1.9%
Mn	8983717	498	499	0.2%	8983719	1160	1150	0.9%	8983725	857	826	3.7%	8983731	1090	1070	1.9%
Mo	8983761	6.44	5.58	14.3%	8983767	1.69	1.52	10.6%	8983775	4.52	5.49	19.4%	8983779	2.43	3.05	22.6%
Na	8983717	3.95	3.98	0.8%	8983719	2.85	2.78	2.5%	8983725	3.46	3.45	0.3%	8983731	2.98	2.96	0.7%
Nb	8983761	13.7	13.7	0.0%	8983767	24.0	21.7	10.1%	8983775	17.1	14.0	19.9%	8983779	8.1	9.5	15.9%
Ni	8983717	12.3	12.3	0.0%	8983719	65.1	65.6	0.8%	8983725	31.7	28.1	12.0%	8983731	29.2	28.5	2.4%
P	8983717	427	406	5.0%	8983719	308	323	4.8%	8983725	1300	1280	1.6%	8983731	771	756	2.0%
Pb	8983761	5.7	5.5	3.6%	8983767	2.5	2.3	8.3%	8983775	4.0	4.0	0.0%	8983779	2.3	3.0	26.4%
Rb	8983761	57.3	54.6	4.8%	8983767	47.7	43.2	9.9%	8983775	44.3	43.3	2.3%	8983779	15.0	17.9	17.6%
Re	8983761	< 0.002	< 0.002	0.0%	8983767	< 0.002	< 0.002	0.0%	8983775	< 0.002	< 0.002	0.0%	8983779	< 0.002	< 0.002	0.0%
S	8983717	0.06	0.06	0.0%	8983719	0.16	0.16	0.0%	8983725	0.07	0.07	0.0%	8983731	0.18	0.17	5.7%
Sb	8983761	0.35	0.33	5.9%	8983767	0.16	0.16	0.0%	8983775	0.23	0.24	4.3%	8983779	0.101	0.136	29.5%
Sc	8983717	10.9	10.8	0.9%	8983719	20.4	21.3	4.3%	8983725	17.8	17.6	1.1%	8983731	21.5	21.2	1.4%
Se	8983761	1.5	1.2	22.2%	8983767	1.4	1.0		8983775	1.51	1.61	6.4%	8983779	1.1	1.3	16.7%
Sn	8983761	3.58	3.13	13.4%	8983767	7.0	6.2	12.1%	8983775	4.8	4.4	8.7%	8983779	2.78	3.46	21.8%
Sr	8983717	184	185	0.5%	8983719	133	131	1.5%	8983725	325	318	2.2%	8983731	167	161	3.7%
Ta	8983761	1.23	1.18	4.1%	8983767	1.56	1.36	13.7%	8983775	1.52	1.16	26.9%	8983779	0.64	0.77	18.4%
Te	8983761	0.02	< 0.01		8983767	0.01	0.01	0.0%	8983775	< 0.01	0.01		8983779	0.01	0.02	
Th	8983761	13.0	11.8	9.7%	8983767	3.51	3.14	11.1%	8983775	11.0	10.3	6.6%	8983779	4.4	5.4	20.4%
Ti	8983717	0.318	0.313	1.6%	8983719	0.62	0.62	0.0%	8983725	0.58	0.58	0.0%	8983731	0.846	0.832	1.7%
Tl	8983761	0.13	0.12	8.0%	8983767	0.148	0.140	5.6%	8983775	0.121	0.114	6.0%	8983779	0.03	0.05	
U	8983761	3.05	2.73	11.1%	8983767	0.795	0.688	14.4%	8983775	2.40	2.30	4.3%	8983779	0.972	1.21	21.8%
V	8983717	40.5	39.9	1.5%	8983719	148	155	4.6%	8983725	48.7	48.1	1.2%	8983731	187	183	2.2%
W	8983761	1.3	1.2	8.0%	8983767	1.48	1.31	12.2%	8983775	2.3	2.3	0.0%	8983779	0.8	1.2	
Y	8983761	59.8	56.3	6.0%	8983767	22.7	20.0	12.6%	8983775	56.7	52.2	8.3%	8983779	35.0	45.2	25.4%
Zn	8983717	29.2	29.9	2.4%	8983719	88.0	87.3	0.8%	8983725	58.1	54.6	6.2%	8983731	94.1	93.4	0.7%
Zr	8983761	265	237	11.2%	8983767	70.0	62.6	11.2%	8983775	262	240	8.8%	8983779	85.4	92.6	8.1%
	REPLICATE #25				REPLICATE #26				REPLICATE #27				REPLICATE #28			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Al	8983743	6.99	6.87	1.7%	8983746	6.69	6.68	0.1%	8983755	6.82	7.01	2.7%	8983761	6.63	6.63	0.0%
Ba	8983743	299	294	1.7%	8983746	830	833	0.4%	8983755	455	465	2.2%	8983761	540	535	0.9%

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Be	8983743	1.62	1.54	5.1%	8983746	2.89	2.87	0.7%	8983755	2.19	2.05	6.6%	8983761	1.65	1.62	1.8%
Ca	8983743	3.14	3.08	1.9%	8983746	5.89	5.77	2.1%	8983755	3.02	3.06	1.3%	8983761	1.57	1.57	0.0%
Cr	8983743	22.0	20.6	6.6%	8983746	38.4	33.8	12.7%	8983755	22.3	20.2	9.9%	8983761	22.8	25.2	10.0%
Cu	8983743	132	130	1.5%	8983746	83.7	85.3	1.9%	8983755	31.3	32.3	3.1%	8983761	29.8	29.0	2.7%
Fe	8983743	3.55	3.47	2.3%	8983746	6.66	6.57	1.4%	8983755	3.89	3.99	2.5%	8983761	2.41	2.41	0.0%
K	8983743	0.587	0.579	1.4%	8983746	2.87	2.85	0.7%	8983755	1.37	1.40	2.2%	8983761	1.41	1.41	0.0%
Li	8983743	5.2	4.7	10.1%	8983746	19.9	20.2	1.5%	8983755	8.53	8.92	4.5%	8983761	3.7	3.5	5.6%
Mg	8983743	0.741	0.722	2.6%	8983746	3.20	3.18	0.6%	8983755	1.02	1.05	2.9%	8983761	0.28	0.28	0.0%
Mn	8983743	578	575	0.5%	8983746	1210	1220	0.8%	8983755	619	622	0.5%	8983761	277	280	1.1%
Na	8983743	4.01	3.98	0.8%	8983746	2.55	2.52	1.2%	8983755	3.62	3.65	0.8%	8983761	3.11	3.12	0.3%
Ni	8983743	12.4	12.1	2.4%	8983746	31.2	31.6	1.3%	8983755	18.1	18.4	1.6%	8983761	4.93	4.85	1.6%
P	8983743	536	535	0.2%	8983746	3680	3670	0.3%	8983755	385	383	0.5%	8983761	208	206	1.0%
S	8983743	0.180	0.174	3.4%	8983746	0.185	0.188	1.6%	8983755	0.11	0.11	0.0%	8983761	0.06	0.06	0.0%
Sc	8983743	10.4	10.1	2.9%	8983746	20.2	20.0	1.0%	8983755	12.8	12.7	0.8%	8983761	5.3	5.3	0.0%
Sr	8983743	242	234	3.4%	8983746	388	388	0.0%	8983755	244	252	3.2%	8983761	146	146	0.0%
Ti	8983743	0.38	0.37	2.7%	8983746	0.522	0.513	1.7%	8983755	0.52	0.52	0.0%	8983761	0.20	0.20	0.0%
V	8983743	30.3	29.4	3.0%	8983746	171	171	0.0%	8983755	77.4	76.7	0.9%	8983761	12.6	12.8	1.6%
Zn	8983743	29.9	28.8	3.7%	8983746	89.6	94.5	5.3%	8983755	47.0	51.2	8.6%	8983761	24.1	23.2	3.8%
	REPLICATE #29				REPLICATE #30				REPLICATE #31							
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Al	8983767	6.77	7.18	5.9%	8983775	7.19	6.81	5.4%	8983779	7.05	7.16	1.5%				
Ba	8983767	378	394	4.1%	8983775	436	410	6.1%	8983779	242	243	0.4%				
Be	8983767	1.58	1.59	0.6%	8983775	1.69	1.55	8.6%	8983779	1.53	1.56	1.9%				
Ca	8983767	4.14	4.36	5.2%	8983775	2.03	1.91	6.1%	8983779	4.48	4.54	1.3%				
Cr	8983767	79.7	82.5	3.5%	8983775	29.1	33.9	15.2%	8983779	57.9	60.4	4.2%				
Cu	8983767	48.8	50.8	4.0%	8983775	40.9	35.0	15.5%	8983779	69.4	70.4	1.4%				
Fe	8983767	6.23	6.53	4.7%	8983775	3.82	3.64	4.8%	8983779	5.99	6.09	1.7%				
K	8983767	0.96	1.02	6.1%	8983775	1.07	1.02	4.8%	8983779	0.537	0.546	1.7%				
Li	8983767	14.2	14.2	0.0%	8983775	9.22	8.54	7.7%	8983779	12.2	11.8	3.3%				
Mg	8983767	2.30	2.44	5.9%	8983775	0.95	0.89	6.5%	8983779	1.86	1.89	1.6%				
Mn	8983767	949	995	4.7%	8983775	417	394	5.7%	8983779	975	982	0.7%				
Na	8983767	2.37	2.47	4.1%	8983775	3.22	3.07	4.8%	8983779	2.98	3.03	1.7%				
Ni	8983767	43.1	45.4	5.2%	8983775	18.8	17.8	5.5%	8983779	37.3	37.6	0.8%				
P	8983767	309	333	7.5%	8983775	330	308	6.9%	8983779	320	327	2.2%				

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S	8983767	0.17	0.17	0.0%	8983775	0.104	0.094	10.1%	8983779	0.18	0.18	0.0%				
Sc	8983767	22.4	23.5	4.8%	8983775	11.7	10.9	7.1%	8983779	18.2	18.7	2.7%				
Sr	8983767	214	222	3.7%	8983775	149	144	3.4%	8983779	148	149	0.7%				
Ti	8983767	0.54	0.56	3.6%	8983775	0.357	0.338	5.5%	8983779	0.521	0.538	3.2%				
V	8983767	141	147	4.2%	8983775	55.5	52.1	6.3%	8983779	115	118	2.6%				
Zn	8983767	60.2	63.2	4.9%	8983775	32.8	31.0	5.6%	8983779	58.3	59.5	2.0%				

(202-551) Fire Assay - Trace Au, AAS finish (50g Charge)

	REPLICATE #1				REPLICATE #2				REPLICATE #3				REPLICATE #4			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Au	8983587	< 0.002	< 0.002	0.0%	8983599	< 0.002	< 0.002	0.0%	8983600	< 0.002	< 0.002	0.0%	8983635	0.0025	0.0022	12.8%
	REPLICATE #5				REPLICATE #6				REPLICATE #7				REPLICATE #8			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Au	8983647	0.0074	0.0080	7.8%	8983659	0.128	0.119	7.3%	8983671	0.358	0.381	6.2%	8983675	0.511	0.556	8.4%

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Quality Assurance - Certified Reference materials

AGAT WORK ORDER: 17B296302

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

	CRM #1 (ref.SY-4)				CRM #2 (ref.Till-2)				CRM #3 (ref.GTS-2a)				CRM #4 (ref.SY-4)			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Al	10.95	11.03	101%	90% - 110%	8.17	8.61	105%	90% - 110%	6.96	7.08	102%	90% - 110%	10.95	11.05	101%	90% - 110%
As					26	29	110%	90% - 110%	124	137	110%	90% - 110%				
Ba	340	347	102%	90% - 110%	540	550	102%	90% - 110%	186	189	101%	90% - 110%	340	335	98%	90% - 110%
Be	2.6	2.8	107%	90% - 110%	4.0	3.7	92%	90% - 110%					2.6	2.7	105%	90% - 110%
Ca	5.72	5.82	102%	90% - 110%	0.907	0.956	105%	90% - 110%	4.01	4.13	103%	90% - 110%	5.72	5.72	100%	90% - 110%
Ce	122	119	97%	90% - 110%	98	103	105%	90% - 110%	24	25	103%	90% - 110%	122	115	94%	90% - 110%
Co	2.8	2.5	89%	90% - 110%					22.1	23	104%	90% - 110%	2.8	2.6	92%	90% - 110%
Cr					60.3	64.1	106%	90% - 110%								
Cs	1.5	1.5	99%	90% - 110%	12	11	90%	90% - 110%					1.5	1.6	106%	90% - 110%
Cu	7	8	108%	90% - 110%	150	156	104%	90% - 110%	88.6	89.5	101%	90% - 110%	7	5	70%	90% - 110%
Fe	4.34	4.18	96%	90% - 110%	3.77	3.88	103%	90% - 110%	7.56	7.71	102%	90% - 110%	4.34	4.24	98%	90% - 110%
Ga	35	36	103%	90% - 110%									35	36	102%	90% - 110%
K	1.37	1.41	103%	90% - 110%					2.021	2.01	100%	90% - 110%	1.37	1.40	102%	90% - 110%
La	58	63	108%	90% - 110%	44	48	110%	90% - 110%					58	56	96%	90% - 110%
Li	37	39	106%	90% - 110%	47	50	107%	90% - 110%					37	41	110%	90% - 110%
Mg	0.325	0.319	98%	90% - 110%	1.10	1.18	107%	90% - 110%	2.412	2.53	105%	90% - 110%	0.325	0.311	96%	90% - 110%
Mn					780	811	104%	90% - 110%	1510	1562	103%	90% - 110%				
Mo					14	16	114%	90% - 110%								
Na	5.267	5.38	102%	90% - 110%	1.624	1.73	107%	90% - 110%	0.617	0.640	104%	90% - 110%	5.267	5.27	100%	90% - 110%
Nb	13	14	110%	90% - 110%	20	22	110%	90% - 110%								
Ni	9	8	85%	90% - 110%	32	33	102%	90% - 110%	77.1	75.1	97%	90% - 110%	9	7	80%	90% - 110%
P									892	938	105%	90% - 110%				
Pb	10	10	95%	90% - 110%	31	31	100%	90% - 110%					10	9	88%	90% - 110%
Rb	55	52	95%	90% - 110%	143	152	106%	90% - 110%					55	60	109%	90% - 110%
S									0.348	0.383	110%	90% - 110%				
Sb					0.8	0.9	114%	90% - 110%								
Sc					12	12	99%	90% - 110%								
Sr	1191	1210	102%	90% - 110%	144	161	112%	90% - 110%	92.8	96.4	104%	90% - 110%	1191	1220	103%	90% - 110%
Ta					1.9	1.9	100%	90% - 110%								
Th	1.4	1.6	114%	90% - 110%	18.4	18.4	100%	90% - 110%								
Ti	0.172	0.172	100%	90% - 110%	0.53	0.5	95%	90% - 110%					0.172	0.172	100%	90% - 110%

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ATTENTION TO: ALAN SMITH, STEPHEN ROACH

U	0.8	1	125%	90% - 110%	5.7	4.6	81%	90% - 110%					0.8	0.6	73%	90% - 110%
V	8	8	94%	90% - 110%	77	79	103%	90% - 110%					8	7	91%	90% - 110%
W					5	5	100%	90% - 110%								
Y	119	128	107%	90% - 110%									119	131	110%	90% - 110%
Zn	93	93	100%	90% - 110%	130	129	99%	90% - 110%	208	215	103%	90% - 110%	93	91	98%	90% - 110%
	CRM #5 (ref.Till-2)				CRM #6 (ref.GTS-2a)				CRM #7 (ref.SY-4)				CRM #8 (ref.TILL-2)			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Al	8.17	8.1	99%	90% - 110%	6.96	7.14	103%	90% - 110%	10.95	10.88	99%	90% - 110%				
As	26	29	110%	90% - 110%	124	119	96%	90% - 110%					26	28	108%	90% - 110%
Ba	540	510	94%	90% - 110%	186	190	102%	90% - 110%	340	331	97%	90% - 110%				
Be	4.0	3.6	90%	90% - 110%					2.6	2.8	110%	90% - 110%				
Ca	0.907	0.888	98%	90% - 110%	4.01	4.19	104%	90% - 110%	5.72	5.68	99%	90% - 110%				
Ce	98	96	98%	90% - 110%	24	22	91%	90% - 110%					98	97	99%	90% - 110%
Co					22.1	20.0	90%	90% - 110%								
Cr	60.3	51.1	85%	90% - 110%												
Cs	12	13	108%	90% - 110%									12	12	99%	90% - 110%
Cu	150	145	96%	90% - 110%	88.6	89.4	101%	90% - 110%								
Fe	3.77	3.66	97%	90% - 110%	7.56	7.74	102%	90% - 110%	4.34	4.15	96%	90% - 110%				
K					2.021	2.04	101%	90% - 110%	1.37	1.40	102%	90% - 110%				
La	44	42	96%	90% - 110%									44	44	100%	90% - 110%
Li	47	47	101%	90% - 110%					37	40	108%	90% - 110%				
Mg	1.10	1.11	101%	90% - 110%	2.412	2.569	107%	90% - 110%	0.325	0.31	95%	90% - 110%				
Mn	780	749	96%	90% - 110%	1510	1599	106%	90% - 110%								
Mo	14	15	106%	90% - 110%									14	14	97%	90% - 110%
Na	1.624	1.60	99%	90% - 110%	0.617	0.641	104%	90% - 110%	5.267	5.38	102%	90% - 110%				
Nb	20	20	101%	90% - 110%									20	20	102%	90% - 110%
Ni	32	30	95%	90% - 110%	77.1	77	100%	90% - 110%	9	8	84%	90% - 110%				
P	572	625	109%	90% - 110%	892	948	106%	90% - 110%								
Pb	31	29	93%	90% - 110%									31	30	96%	90% - 110%
Rb	143	158	110%	90% - 110%									143	158	110%	90% - 110%
S					0.348	0.38	109%	90% - 110%								
Sb	0.8	0.9	116%	90% - 110%									0.8	1	121%	90% - 110%
Sc	12	11	93%	90% - 110%					1.1	0.8	71%	90% - 110%				
Sr	144	155	107%	90% - 110%	92.8	102	109%	90% - 110%	1191	1250	105%	90% - 110%				

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ATTENTION TO: ALAN SMITH, STEPHEN ROACH

Ta	1.9	1.8	93%	90% - 110%									1.9	1.8	96%	90% - 110%
Th	18.4	19	103%	90% - 110%									18.4	18.6	101%	90% - 110%
Ti	0.53	0.45	86%	90% - 110%					0.172	0.171	99%	90% - 110%				
U	5.7	4.6	81%	90% - 110%									5.7	4.6	81%	90% - 110%
V	77	74	96%	90% - 110%					8	7	93%	90% - 110%				
W	5	5	98%	90% - 110%									5	5	107%	90% - 110%
Zn	130	118	91%	90% - 110%	208	216	104%	90% - 110%	93	89	95%	90% - 110%				
	CRM #9 (ref.SY-4)				CRM #10 (ref.Till-2)				CRM #11 (ref.GTS-2a)				CRM #12 (ref.GTS-2a)			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Al					8.17	8.09	99%	90% - 110%	6.96	6.82	98%	90% - 110%				
As									124	122	98%	90% - 110%	124	124	100%	90% - 110%
Ba					540	515	95%	90% - 110%	186	180	97%	90% - 110%				
Be					4.0	3.7	92%	90% - 110%								
Ca					0.907	0.918	101%	90% - 110%	4.01	4.05	101%	90% - 110%				
Ce	122	119	97%	90% - 110%					24	22	92%	90% - 110%	24	22	91%	90% - 110%
Co	2.8	2.3	83%	90% - 110%					22.1	20.1	91%	90% - 110%	22.1	20.7	94%	90% - 110%
Cr					60.3	61.8	102%	90% - 110%								
Cs	1.5	1.6	110%	90% - 110%												
Cu					150	146	98%	90% - 110%	88.6	86.7	98%	90% - 110%				
Fe					3.77	3.66	97%	90% - 110%	7.56	7.4	98%	90% - 110%				
Ga	35	36	102%	90% - 110%												
K									2.021	1.99	99%	90% - 110%				
La	58	59	102%	90% - 110%												
Li					47	49	104%	90% - 110%								
Mg					1.10	1.12	102%	90% - 110%	2.412	2.451	102%	90% - 110%				
Mn					780	757	97%	90% - 110%	1510	1528	101%	90% - 110%				
Na					1.624	1.65	102%	90% - 110%	0.617	0.631	102%	90% - 110%				
Ni					32	31	98%	90% - 110%	77.1	72.3	94%	90% - 110%				
P					572	620	108%	90% - 110%	892	893	100%	90% - 110%				
Pb	10	9	93%	90% - 110%												
Rb	55	60	109%	90% - 110%												
S									0.348	0.378	109%	90% - 110%				
Sc					12	12	98%	90% - 110%								
Sr					144	157	109%	90% - 110%	92.8	97.6	105%	90% - 110%				

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ATTENTION TO: ALAN SMITH, STEPHEN ROACH

Th	1.4	1.4	97%	90% - 110%												
Ti					0.53	0.47	89%	90% - 110%								
V					77	76	99%	90% - 110%								
Y	119	130	109%	90% - 110%												
Zn					130	121	93%	90% - 110%	208	203	98%	90% - 110%				
	CRM #13 (ref.TILL-2)				CRM #14 (ref.SY-4)				CRM #15 (ref.sy-4)				CRM #16 (ref.GTS-2a)			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Al	8.17	8.37	102%	90% - 110%	10.95	10.76	98%	90% - 110%					6.96	6.9	99%	90% - 110%
Ba	540	523	97%	90% - 110%	340	327	96%	90% - 110%					186	190	102%	90% - 110%
Be	4.0	3.7	92%	90% - 110%	2.6	2.8	107%	90% - 110%								
Ca	0.907	0.947	104%	90% - 110%	5.72	5.67	99%	90% - 110%					4.01	4.16	104%	90% - 110%
Ce									122	134	110%	90% - 110%				
Co									2.8	2.5	89%	90% - 110%				
Cr	60.3	61.3	102%	90% - 110%												
Cs									1.5	1.7	113%	90% - 110%				
Cu	150	148	99%	90% - 110%									88.6	87.2	98%	90% - 110%
Fe	3.77	3.78	100%	90% - 110%	4.34	4.13	95%	90% - 110%					7.56	7.66	101%	90% - 110%
Ga									35	39	111%	90% - 110%				
K					1.37	1.41	103%	90% - 110%					2.021	2.07	102%	90% - 110%
La									58	63	108%	90% - 110%				
Li	47	51	107%	90% - 110%	37	41	110%	90% - 110%								
Mg	1.10	1.16	105%	90% - 110%	0.325	0.308	95%	90% - 110%					2.412	2.479	103%	90% - 110%
Mn	780	780	100%	90% - 110%									1510	1586	105%	90% - 110%
Na	1.624	1.71	106%	90% - 110%	5.267	5.37	102%	90% - 110%					0.617	0.658	107%	90% - 110%
Ni	32	33	104%	90% - 110%	9	8	87%	90% - 110%					77.1	74.9	97%	90% - 110%
P													892	923	103%	90% - 110%
Pb									10	10	100%	90% - 110%				
Rb									55	61	110%	90% - 110%				
S													0.348	0.38	109%	90% - 110%
Sc	12	12	103%	90% - 110%	1.1	0.8	70%	90% - 110%								
Sr	144	161	111%	90% - 110%	1191	1260	105%	90% - 110%					92.8	101	109%	90% - 110%
Th									1.4	1.5	107%	90% - 110%				
Ti	0.53	0.48	90%	90% - 110%	0.172	0.17	99%	90% - 110%								
U									0.8	0.6	76%	90% - 110%				

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ATTENTION TO: ALAN SMITH, STEPHEN ROACH

V	77	80	104%	90% - 110%	8	8	96%	90% - 110%								
Zn	130	118	91%	90% - 110%	93	86	93%	90% - 110%					208	215	104%	90% - 110%
	CRM #17 (ref.GTS-2a)				CRM #18 (ref.sy-4)											
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Al	6.96	6.72	97%	90% - 110%	10.95	11.09	101%	90% - 110%								
Ba	186	182	98%	90% - 110%	340	342	101%	90% - 110%								
Be					2.6	2.9	110%	90% - 110%								
Ca	4.01	3.95	99%	90% - 110%	5.72	5.82	102%	90% - 110%								
Cu	88.6	84.5	95%	90% - 110%	7	5	78%	90% - 110%								
Fe	7.56	7.33	97%	90% - 110%	4.34	4.32	100%	90% - 110%								
K	2.021	2.02	100%	90% - 110%	1.37	1.46	106%	90% - 110%								
Li					37	40	108%	90% - 110%								
Mg	2.412	2.405	100%	90% - 110%	0.325	0.313	96%	90% - 110%								
Mn	1510	1521	101%	90% - 110%												
Na	0.617	0.634	103%	90% - 110%	5.267	5.56	106%	90% - 110%								
Ni	77.1	74	96%	90% - 110%	9	8	84%	90% - 110%								
P	892	868	97%	90% - 110%												
S	0.348	0.382	110%	90% - 110%												
Sc					1.1	0.8	74%	90% - 110%								
Sr	92.8	99.3	107%	90% - 110%	1191	1270	106%	90% - 110%								
Ti					0.172	0.175	102%	90% - 110%								
V					8	8	97%	90% - 110%								
Zn	208	207	99%	90% - 110%	93	91	98%	90% - 110%								

(202-551) Fire Assay - Trace Au, AAS finish (50g Charge)

	CRM #1 (ref.GS45)				CRM #2 (ref.WW07)				CRM #3				CRM #4			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Au	2.89	3.12	107%	90% - 110%	6.56	7.15	109%	90% - 110%	2.89	2.72	94%	90% - 110%	6.56	6.74	102%	90% - 110%
	CRM #5				CRM #6				CRM #7							
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits				
Au	2.89	2.80	96%	90% - 110%	2.89	2.70	93%	90% - 110%	6.56	6.59	100%	90% - 110%				

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Method Summary

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

AGAT WORK ORDER: 17B296302

PROJECT: Watershed East - 259

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12020		ICP-MS
Al	MIN-200-12020		ICP/OES
As	MIN-200-12020		ICP-MS
Ba	MIN-200-12020		ICP-MS
Be	MIN-200-12020		ICP-MS
Bi	MIN-200-12020		ICP-MS
Ca	MIN-200-12020		ICP/OES
Cd	MIN-200-12020		ICP-MS
Ce	MIN-200-12020		ICP-MS
Co	MIN-200-12020		ICP-MS
Cr	MIN-200-12020		ICP/OES
Cs	MIN-200-12020		ICP-MS
Cu	MIN-200-12020		ICP-MS
Fe	MIN-200-12020		ICP/OES
Ga	MIN-200-12020		ICP-MS
Ge	MIN-200-12020		ICP-MS
Hf	MIN-200-12020		ICP-MS
In	MIN-200-12020		ICP-MS
K	MIN-200-12020		ICP/OES
La	MIN-200-12020		ICP-MS
Li	MIN-200-12020		ICP-MS
Mg	MIN-200-12020		ICP/OES
Mn	MIN-200-12020		ICP/OES
Mo	MIN-200-12020		ICP-MS
Na	MIN-200-12020		ICP/OES
Nb	MIN-200-12020		ICP-MS
Ni	MIN-200-12020		ICP-MS
P	MIN-200-12020		ICP/OES
Pb	MIN-200-12020		ICP-MS
Rb	MIN-200-12020		ICP-MS
Re	MIN-200-12020		ICP-MS
S	MIN-200-12020		ICP/OES
Sb	MIN-200-12020		ICP-MS
Sc	MIN-200-12020		ICP-MS
Se	MIN-200-12020		ICP-MS
Sn	MIN-200-12020		ICP-MS
Sr	MIN-200-12020		ICP-MS
Ta	MIN-200-12020		ICP-MS
Te	MIN-200-12020		ICP-MS
Th	MIN-200-12020		ICP-MS
Ti	MIN-200-12020		ICP/OES
Tl	MIN-200-12020		ICP-MS
U	MIN-200-12020		ICP-MS
V	MIN-200-12020		ICP/OES
W	MIN-200-12020		ICP-MS
Y	MIN-200-12020		ICP-MS
Zn	MIN-200-12020		ICP-MS
Zr	MIN-200-12020		ICP-MS

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Method Summary

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

AGAT WORK ORDER: 17B296302

PROJECT: Watershed East - 259

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Au	MIN-200-12004	BUGBEE, E: A Textbook of Fire Assaying	AA

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CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION
CHESTER #1, MINE SITE, P.O. BOX 100
GOGAMA, ON P0M1W0
(705) 269-0010

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

PROJECT: Watershed East - 259

AGAT WORK ORDER: 17B294321

SOLID ANALYSIS REVIEWED BY: Kevin Motomura, Data Review Supervisor

DATE REPORTED: Feb 21, 2018

PAGES (INCLUDING COVER): 48

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

*NOTES
VERSION 1:Version 2: This is an amended report which now includes results for screened metallics.

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.

AGAT Laboratories
5623 McADAM ROAD
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AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(200-) Sample Login Weight

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Feb 21, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Sample Login Weight
Unit:	kg
Sample ID (AGAT ID) RDL:	0.01
455815 (8971598)	2.18
455816 (8971599)	2.34
455817 (8971600)	1.72
455818 (8971601)	2.44
455819 (8971602)	2.10
455820 (8971603)	2.08
455821 (8971604)	1.12
455822 (8971605)	1.30
455823 (8971606)	2.38
455824 (8971607)	0.42
455825 (8971608)	2.34
455826 (8971609)	2.84
455827 (8971610)	2.08
455828 (8971611)	1.38
455829 (8971612)	2.22
455830 (8971613)	0.98
455831 (8971614)	2.18
455832 (8971615)	2.32
455833 (8971616)	2.64
455834 (8971617)	2.20
455835 (8971618)	1.86
455836 (8971619)	0.08
455837 (8971620)	2.18
455838 (8971621)	1.76
455839 (8971622)	2.84
455840 (8971623)	3.02
455841 (8971624)	1.82
455842 (8971625)	1.80
455843 (8971626)	2.72
455844 (8971627)	2.68
455845 (8971628)	2.06

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PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(200-) Sample Login Weight

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Feb 21, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Sample Login Weight
Unit:	kg
Sample ID (AGAT ID) RDL:	0.01
455846 (8971629)	1.92
455847 (8971630)	2.26
455848 (8971631)	0.42
455849 (8971632)	2.52
455850 (8971633)	3.02
455851 (8971634)	1.10
455852 (8971635)	2.48
455853 (8971636)	2.20
455854 (8971637)	3.76
455855 (8971638)	1.18
455856 (8971639)	2.26
455857 (8971640)	1.88
455858 (8971641)	1.90
455859 (8971642)	2.10
455860 (8971643)	0.80
455861 (8971644)	1.66
455862 (8971645)	0.94
455863 (8971646)	1.30
455864 (8971647)	1.96
455865 (8971648)	2.18
455866 (8971649)	2.54
455867 (8971650)	2.56
455868 (8971651)	2.56
455869 (8971652)	2.58
455870 (8971653)	2.74
455871 (8971654)	2.52
455872 (8971655)	0.36
455873 (8971656)	2.22
455874 (8971657)	1.34
455875 (8971658)	1.50
455876 (8971659)	0.74

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PROJECT: Watershed East - 259

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ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(200-) Sample Login Weight

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Feb 21, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Sample Login Weight
Unit:	kg
Sample ID (AGAT ID) RDL:	0.01
455877 (8971660)	0.56
455878 (8971661)	2.54
455879 (8971662)	2.88
455880 (8971663)	1.58
455881 (8971664)	2.68
455882 (8971665)	1.34
455883 (8971666)	1.42
455884 (8971667)	0.80
455885 (8971668)	2.52
455886 (8971669)	1.18
455887 (8971670)	1.28
455888 (8971671)	0.78
455889 (8971672)	0.78
455890 (8971673)	1.02
455891 (8971674)	1.04
455892 (8971675)	0.98
455893 (8971676)	1.08
455894 (8971677)	1.34
455895 (8971678)	1.34
455896 (8971679)	0.38
455897 (8971680)	2.20
455898 (8971681)	1.50
455899 (8971682)	1.02
455900 (8971683)	1.42
455901 (8971684)	1.38
455902 (8971685)	1.04
455903 (8971686)	0.96
455904 (8971687)	1.18
455905 (8971688)	0.86
455906 (8971689)	1.38
455907 (8971690)	1.82

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(200-) Sample Login Weight

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Feb 21, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Sample Login Weight
Unit:	kg
Sample ID (AGAT ID) RDL:	0.01
455908 (8971691)	1.42
455909 (8971692)	1.08
455910 (8971693)	0.86
455911 (8971694)	0.96
455912 (8971695)	0.08
455913 (8971696)	1.42
455914 (8971697)	1.12
455915 (8971698)	1.04
455916 (8971699)	1.24
455917 (8971700)	1.40
455918 (8971701)	1.18
455919/455920 (8971702)	1.08
455921 (8971704)	1.20
455922 (8971705)	1.66
455923 (8971706)	1.16
455924 (8971707)	0.34
455925 (8971708)	1.32
455926 (8971709)	1.06
455927 (8971710)	1.18
455928 (8971711)	1.06
455929 (8971712)	1.34
455930 (8971713)	1.34
455931 (8971714)	1.46
455932 (8971715)	2.06
455933 (8971716)	1.78
455934 (8971717)	1.32
455935 (8971718)	2.54
455936 (8971719)	0.08
455937 (8971720)	2.26
455938 (8971721)	3.22
455939 (8971722)	2.68

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PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(200-) Sample Login Weight

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Feb 21, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Sample Login Weight
Unit:	kg
Sample ID (AGAT ID) RDL:	0.01
455940 (8971723)	1.48
455941 (8971724)	1.28
455942 (8971725)	1.08
455943 (8971726)	1.32
455944 (8971727)	1.66
455945 (8971728)	1.30
455946 (8971729)	2.10
455947 (8971730)	1.98
455948 (8971731)	0.42
455949 (8971732)	3.08
455950 (8971733)	4.48
455951 (8971734)	2.30
455952 (8971735)	2.70
455953 (8971736)	2.66
455954 (8971737)	1.12
455955 (8971738)	2.44
455956 (8971739)	2.44
455957 (8971740)	2.30
455958 (8971741)	2.34
455959 (8971742)	1.62
455960 (8971743)	0.08
455961 (8971744)	2.86
455962 (8971745)	2.52
455963 (8971746)	1.18
455964 (8971747)	1.70
455965 (8971748)	2.58
455966 (8971749)	2.84
455967 (8971750)	1.38
455968 (8971751)	1.22

Comments: RDL - Reported Detection Limit

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AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-089) 4 Acid Digest - Metals Package, ICP/ICP-MS finish with Hg-ICP-MS

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Feb 21, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
Sample ID (AGAT ID) RDL:	0.01	0.01	0.2	1	0.05	0.01	0.01	0.02	0.01	0.05	0.5	0.05	0.5	0.01
455815 (8971598)	0.12	7.42	15.0	436	2.42	0.33	3.34	0.04	45.7	28.1	8.5	0.32	67.4	7.18
455816 (8971599)	0.15	7.01	3.6	392	2.27	0.11	4.17	0.03	48.4	23.5	7.4	0.23	92.2	5.08
455817 (8971600)	0.14	7.78	1.9	208	2.00	0.05	3.30	<0.02	79.3	21.7	8.0	0.15	18.3	6.24
455818 (8971601)	0.17	8.04	3.1	41	1.88	0.07	5.50	0.08	94.6	26.2	1.1	0.08	23.4	6.40
455819 (8971602)	0.15	8.10	4.3	84	1.85	0.08	4.55	0.07	93.2	34.3	1.4	0.11	35.1	6.48
455820 (8971603)	0.16	7.73	3.8	67	1.70	0.06	5.12	0.10	102	27.5	2.3	0.09	55.4	5.96
455821 (8971604)	0.16	8.29	4.3	52	2.09	0.07	4.06	0.04	87.0	43.8	0.7	0.08	14.7	6.73
455822 (8971605)	0.17	8.31	2.3	116	2.19	0.04	3.01	<0.02	57.9	44.7	9.2	0.11	18.6	7.09
455823 (8971606)	0.14	7.89	1.3	246	2.05	0.03	3.90	0.02	35.9	22.3	13.2	0.18	34.7	6.14
455824 (8971607)	0.29	9.51	2.3	698	3.64	0.03	4.28	0.07	75.7	22.0	13.1	1.57	16.3	5.23
455825 (8971608)	0.15	7.42	1.3	252	1.79	0.03	3.91	0.03	37.3	29.0	14.8	0.16	64.8	6.31
455826 (8971609)	0.46	8.09	2.9	53	2.77	0.11	3.98	0.06	37.6	32.3	9.1	0.14	33.7	8.23
455827 (8971610)	1.23	7.77	2.7	50	2.46	0.10	4.59	0.08	72.8	19.1	12.7	0.07	820	4.82
455828 (8971611)	0.31	7.98	3.2	30	2.86	0.10	5.22	0.07	54.6	20.7	19.0	<0.05	51.9	5.46
455829 (8971612)	0.22	7.86	3.0	70	2.89	0.15	2.96	<0.02	36.3	34.7	22.7	0.17	23.3	7.16
455830 (8971613)	0.18	7.47	6.5	232	2.04	0.42	2.03	0.03	35.6	42.7	22.3	0.13	85.7	5.00
455831 (8971614)	0.23	6.71	4.5	95	1.80	0.16	4.17	0.02	56.6	39.1	196	0.15	115	7.45
455832 (8971615)	0.18	7.52	3.1	185	2.40	0.15	4.21	0.02	30.3	34.7	11.0	0.14	85.7	6.79
455833 (8971616)	0.17	7.39	2.5	185	2.06	0.11	3.58	0.03	34.6	38.0	7.3	0.12	55.6	7.38
455834 (8971617)	0.13	7.26	2.6	228	2.30	0.06	5.07	0.02	31.7	28.3	25.0	0.18	85.1	5.01
455835 (8971618)	0.16	7.08	1.3	85	1.34	0.06	0.65	<0.02	42.3	38.5	19.1	0.09	4.4	9.35
455836 (8971619)	0.62	7.96	31.8	1070	3.89	0.74	2.63	0.19	73.7	17.5	62.4	11.1	2540	4.30
455837 (8971620)	0.29	7.08	7.8	219	1.71	0.42	0.64	<0.02	39.0	58.4	33.5	0.17	91.2	9.66
455838 (8971621)	0.36	6.52	3.9	521	1.25	0.15	1.20	0.03	25.3	35.4	23.5	0.23	179	7.76
455839 (8971622)	0.49	7.53	3.2	318	2.26	0.08	5.34	0.03	23.9	37.4	33.1	0.19	122	5.75
455840 (8971623)	0.27	7.46	5.8	84	2.10	0.06	5.18	0.03	24.9	43.3	23.6	0.08	75.6	6.40
455841 (8971624)	0.21	7.40	5.1	74	2.18	0.03	5.19	<0.02	25.3	41.8	27.7	0.06	64.0	5.86
455842 (8971625)	0.18	7.63	7.0	44	2.39	0.04	5.67	0.02	21.6	53.1	28.3	0.08	79.2	6.49
455843 (8971626)	0.37	7.62	8.6	113	1.34	0.34	3.66	<0.02	40.1	55.6	169	0.17	35.6	7.47
455844 (8971627)	0.23	8.50	2.7	291	1.81	0.04	4.27	<0.02	48.7	26.5	84.3	0.30	24.9	5.66
455845 (8971628)	0.20	8.08	45.4	478	2.29	0.06	1.23	0.05	60.9	16.6	7.7	0.26	17.1	3.45
455846 (8971629)	0.40	9.15	14.8	527	2.41	0.11	4.20	0.08	43.8	26.9	6.5	0.26	917	4.26

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AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-089) 4 Acid Digest - Metals Package, ICP/ICP-MS finish with Hg-ICP-MS

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Feb 21, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
Sample ID (AGAT ID) RDL:	0.01	0.01	0.2	1	0.05	0.01	0.01	0.02	0.01	0.05	0.5	0.05	0.5	0.01
455847 (8971630)	0.26	7.74	11.1	205	2.37	0.07	4.71	0.03	26.8	31.6	25.5	1.27	65.0	7.52
455848 (8971631)	0.29	10.1	4.4	713	4.09	0.03	4.60	0.08	78.0	23.9	16.2	1.27	18.3	5.56
455849 (8971632)	0.32	7.52	13.6	100	2.29	0.06	4.84	0.03	25.2	41.5	24.1	0.50	71.1	6.78
455850 (8971633)	0.23	7.55	8.4	118	2.06	0.08	4.39	0.04	22.2	48.5	35.0	0.30	80.5	7.38
455851 (8971634)	0.31	7.86	25.5	118	2.26	0.13	4.48	0.04	20.1	117	38.1	0.21	480	8.93
455852 (8971635)	0.28	7.90	10.8	117	2.25	0.09	5.12	0.05	21.0	53.0	35.2	0.21	97.5	8.12
455853 (8971636)	0.22	7.54	9.3	103	2.48	0.04	3.62	<0.02	23.4	57.2	38.4	0.45	41.9	8.36
455854 (8971637)	0.32	7.17	11.5	158	2.19	0.07	5.79	0.06	26.1	49.3	34.7	0.59	85.0	7.31
455855 (8971638)	0.28	7.87	28.4	134	2.31	0.05	2.72	0.05	21.5	123	38.2	0.54	164	9.07
455856 (8971639)	0.20	7.84	11.2	120	2.37	0.05	4.50	0.03	22.6	62.0	39.8	0.43	35.7	8.52
455857 (8971640)	0.23	7.33	11.3	131	1.92	0.04	5.03	0.04	20.3	59.7	37.3	0.44	100	7.35
455858 (8971641)	0.23	7.59	6.7	139	2.29	0.06	4.69	0.06	22.6	51.2	38.0	0.32	84.0	8.01
455859 (8971642)	0.17	7.36	8.5	202	2.45	0.05	5.26	0.05	22.5	44.1	12.9	1.06	63.6	8.46
455860 (8971643)	0.91	8.21	30.0	1060	3.85	1.75	2.71	0.16	72.4	20.1	62.3	11.2	2520	4.39
455861 (8971644)	0.31	7.20	15.0	178	2.55	0.07	5.92	0.10	24.5	72.7	11.7	0.95	134	8.37
455862 (8971645)	0.26	7.66	10.7	197	3.03	0.09	4.52	0.04	24.6	41.8	11.3	1.09	57.0	8.30
455863 (8971646)	0.37	7.49	8.6	81	2.38	0.06	5.01	0.07	23.9	37.7	13.6	0.34	55.7	7.74
455864 (8971647)	0.20	7.22	9.2	45	2.87	0.03	4.75	0.03	17.4	58.4	11.4	0.14	109	8.43
455865 (8971648)	0.20	8.13	2.3	143	3.10	0.03	2.18	<0.02	25.3	34.0	13.8	0.16	22.4	10.3
455866 (8971649)	0.20	7.65	6.8	71	2.24	0.02	3.35	0.03	39.4	46.4	4.7	0.26	62.9	8.80
455867 (8971650)	0.19	7.90	2.8	103	2.21	0.03	3.65	0.04	35.5	38.1	9.6	0.20	123	8.30
455868 (8971651)	0.22	7.69	3.3	401	2.22	0.03	3.13	0.05	44.4	28.2	4.3	0.11	83.9	6.35
455869 (8971652)	0.11	7.57	20.5	237	2.66	0.03	3.62	0.04	33.3	56.3	7.6	0.21	44.6	7.70
455870 (8971653)	0.08	7.13	45.3	175	1.98	0.02	4.21	0.04	19.2	52.4	92.6	0.21	36.5	7.91
455871 (8971654)	0.10	7.83	26.9	274	2.52	0.01	3.76	0.05	29.5	40.1	10.4	0.28	50.3	8.23
455872 (8971655)	0.21	10.8	3.1	739	4.17	0.04	4.94	0.08	72.4	24.9	14.6	1.30	28.5	6.04
455873 (8971656)	0.15	7.67	39.3	215	2.41	0.01	3.80	0.06	27.3	46.9	9.3	0.14	69.0	7.81
455874 (8971657)	0.17	7.27	28.5	153	2.03	0.02	3.54	0.03	30.0	38.0	7.9	0.09	27.5	6.66
455875 (8971658)	0.18	7.61	30.4	201	2.12	0.02	3.42	0.04	31.3	27.9	9.7	0.11	52.8	6.33
455876 (8971659)	0.37	4.05	466	6	1.35	0.11	7.28	0.07	35.0	117	532	0.11	274	9.68
455877 (8971660)	0.39	3.15	541	7	1.68	0.05	7.82	0.10	35.6	92.4	617	0.10	258	8.51
455878 (8971661)	0.29	2.94	326	5	1.53	0.02	6.57	0.11	37.0	90.6	615	0.10	89.3	8.72

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Certificate of Analysis

AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-089) 4 Acid Digest - Metals Package, ICP/ICP-MS finish with Hg-ICP-MS

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Feb 21, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
Sample ID (AGAT ID) RDL:	0.01	0.01	0.2	1	0.05	0.01	0.01	0.02	0.01	0.05	0.5	0.05	0.5	0.01
455879 (8971662)	0.21	2.90	183	21	1.68	0.02	5.89	0.08	35.1	87.1	655	0.27	37.3	8.95
455880 (8971663)	0.25	2.74	62.4	59	1.75	0.13	5.71	0.08	33.7	79.0	670	0.61	62.3	8.70
455881 (8971664)	0.32	3.38	435	134	1.14	0.38	6.25	0.08	44.2	112	693	0.15	142	10.4
455882 (8971665)	0.25	2.69	495	68	1.17	0.28	5.40	0.06	35.9	107	675	0.10	109	9.16
455883 (8971666)	0.34	3.03	343	101	0.98	0.28	6.94	0.07	37.8	85.9	378	0.16	238	8.75
455884 (8971667)	3.63	7.06	14.0	723	2.26	5.41	2.70	0.42	40.8	24.3	64.9	4.81	>10000	7.02
455885 (8971668)	0.59	3.03	289	72	1.31	0.19	5.21	0.07	38.9	98.3	741	0.50	282	9.52
455886 (8971669)	0.09	2.92	431	60	1.31	0.10	4.62	0.07	36.6	108	844	0.55	118	9.46
455887 (8971670)	0.18	2.82	690	75	1.07	0.14	5.13	0.05	38.7	93.5	788	0.16	49.3	8.89
455888 (8971671)	0.34	2.65	783	34	1.18	0.19	5.47	0.08	31.9	95.9	853	0.28	237	9.20
455889 (8971672)	0.55	2.69	784	59	1.45	0.16	5.81	0.09	33.1	90.9	929	0.64	171	9.35
455890 (8971673)	0.19	2.65	801	73	1.36	0.15	5.16	0.08	33.0	96.6	883	0.82	157	8.83
455891 (8971674)	0.25	2.65	807	56	1.25	0.10	4.45	0.07	36.3	88.9	908	0.59	176	9.28
455892 (8971675)	0.22	2.65	704	33	1.15	0.09	5.22	0.08	35.5	92.8	827	0.40	103	8.60
455893 (8971676)	0.27	2.27	621	38	1.02	0.12	5.72	0.11	34.6	71.8	626	0.49	186	6.40
455894 (8971677)	0.19	3.06	698	68	1.35	0.07	5.37	0.06	39.0	86.2	834	0.69	82.8	9.17
455895 (8971678)	0.19	2.80	859	96	1.31	0.06	7.34	0.09	34.7	84.3	825	0.66	87.2	8.36
455896 (8971679)	0.22	9.23	35.8	695	3.74	0.03	4.47	0.07	77.7	23.6	49.4	1.34	20.0	5.56
455897 (8971680)	0.20	3.08	1070	124	1.40	0.09	6.60	0.08	38.2	82.4	753	0.58	162	8.98
455898 (8971681)	0.27	2.90	1050	45	0.86	0.18	7.56	0.16	38.3	79.6	668	0.24	127	8.71
455899 (8971682)	0.69	4.39	691	156	1.30	0.33	6.36	0.17	48.3	58.9	484	0.38	48.9	9.02
455900 (8971683)	1.57	7.06	137	307	1.69	0.14	2.97	0.07	44.5	33.4	35.4	0.54	9.2	6.26
455901 (8971684)	0.42	7.18	120	282	1.68	0.16	2.40	0.05	42.0	32.4	32.6	0.60	5.7	5.65
455902 (8971685)	0.31	6.47	110	275	1.64	0.09	3.26	0.08	40.6	26.9	20.1	0.51	3.7	5.08
455903 (8971686)	0.20	6.49	210	216	2.12	0.14	3.76	0.09	50.1	38.5	11.1	0.83	2.2	7.51
455904 (8971687)	0.21	6.77	236	207	1.67	0.14	4.16	0.09	46.7	27.7	15.4	0.60	3.6	8.86
455905 (8971688)	0.21	7.45	123	311	1.91	0.09	3.40	0.05	64.2	22.4	19.6	0.73	2.2	6.65
455906 (8971689)	0.13	6.44	33.8	235	1.19	0.02	2.55	0.09	34.3	14.6	21.2	0.54	4.2	4.35
455907 (8971690)	0.24	6.58	83.1	309	1.65	0.04	4.19	1.93	26.5	43.5	86.0	0.86	220	7.90
455908 (8971691)	0.23	6.25	186	384	1.60	0.10	5.40	0.14	15.9	34.3	108	0.59	60.6	7.66
455909 (8971692)	0.21	6.36	306	360	1.56	0.19	5.08	0.12	15.8	46.9	125	0.61	24.4	8.10
455910 (8971693)	0.18	6.45	191	355	1.31	0.11	2.15	0.07	35.3	23.3	25.0	0.41	3.9	4.60

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AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-089) 4 Acid Digest - Metals Package, ICP/ICP-MS finish with Hg-ICP-MS

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Feb 21, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
Sample ID (AGAT ID) RDL:	0.01	0.01	0.2	1	0.05	0.01	0.01	0.02	0.01	0.05	0.5	0.05	0.5	0.01
455911 (8971694)	0.18	6.78	242	338	1.27	0.16	2.81	0.10	37.3	25.9	22.1	0.36	5.1	6.00
455912 (8971695)	0.22	7.00	6.2	144	0.79	0.06	6.86	0.12	11.1	46.6	155	0.17	150	8.30
455913 (8971696)	0.22	6.14	247	306	1.05	0.12	3.34	0.22	35.7	33.4	19.9	0.38	13.5	6.05
455914 (8971697)	0.20	6.31	148	260	1.12	0.06	3.36	0.54	40.0	18.9	17.0	0.30	104	5.21
455915 (8971698)	0.63	6.88	57.0	175	2.33	0.06	3.48	4.02	40.0	29.2	15.5	0.51	119	6.51
455916 (8971699)	0.32	7.96	57.1	231	2.27	0.03	3.38	0.47	37.6	25.0	12.6	0.61	53.9	7.37
455917 (8971700)	0.36	7.29	237	288	2.49	0.10	3.25	0.53	42.1	21.6	12.9	0.44	66.6	6.28
455918 (8971701)	0.41	7.37	115	278	2.52	0.11	3.92	1.57	27.8	36.6	16.9	0.49	102	6.37
455919/455920 (8971702)	0.44	6.99	121	243	2.37	0.12	4.29	0.47	21.4	47.2	33.2	0.67	126	7.29
455921 (8971704)	0.30	7.30	61.6	172	1.82	0.05	3.64	0.08	21.9	32.1	103	0.44	143	5.98
455922 (8971705)	0.33	6.66	107	222	1.72	0.14	3.06	0.07	24.1	29.5	26.7	0.47	129	5.55
455923 (8971706)	0.27	3.67	149	165	1.15	0.33	3.57	0.03	25.4	37.7	136	0.30	11.0	4.84
455924 (8971707)	0.23	10.4	2.9	823	3.99	0.05	4.66	0.08	80.2	20.6	22.3	1.40	20.0	5.62
455925 (8971708)	0.17	2.28	47.8	83	0.79	0.06	2.81	0.06	11.3	12.7	123	0.12	8.5	3.15
455926 (8971709)	1.07	7.18	56.4	288	1.43	0.13	1.17	0.02	61.8	17.1	23.1	0.24	4.9	4.15
455927 (8971710)	0.36	6.43	124	106	1.04	0.20	1.08	0.06	73.5	8.69	19.8	0.08	15.8	2.05
455928 (8971711)	0.25	6.46	84.2	124	1.17	0.19	0.97	0.06	61.2	9.67	21.5	0.07	4.3	1.83
455929 (8971712)	0.17	6.26	169	139	1.14	0.29	7.88	0.15	19.7	37.4	7.5	0.10	4.0	5.32
455930 (8971713)	0.23	7.11	108	233	1.52	0.19	2.45	0.10	66.2	28.0	18.8	0.14	9.3	2.85
455931 (8971714)	0.26	7.05	20.8	249	3.19	0.05	3.52	2.45	47.3	16.7	9.7	0.39	77.8	5.12
455932 (8971715)	0.60	6.68	3.8	231	2.36	0.05	2.86	2.82	52.0	25.6	10.7	0.22	126	5.78
455933 (8971716)	0.60	7.03	25.9	180	3.41	0.04	3.19	0.60	45.0	41.9	6.2	0.15	77.1	5.77
455934 (8971717)	0.23	6.13	138	246	1.44	0.01	5.46	0.05	46.6	52.6	251	0.17	5.5	6.11
455935 (8971718)	0.14	6.49	31.0	141	1.08	0.14	4.14	0.05	53.7	35.0	239	0.21	9.6	5.48
455936 (8971719)	0.65	8.24	30.6	1100	3.82	0.87	2.72	0.20	80.9	16.4	78.4	11.8	2580	4.40
455937 (8971720)	0.23	6.72	11.5	93	1.32	0.02	4.94	0.06	42.7	30.2	227	1.03	6.7	5.87
455938 (8971721)	0.22	7.43	2.4	220	2.77	0.04	5.83	0.19	39.7	52.7	83.9	1.83	134	10.5
455939 (8971722)	0.20	6.96	2.0	272	2.50	0.04	5.06	0.19	36.7	51.8	75.3	1.85	128	10.1
455940 (8971723)	0.23	7.25	3.7	189	2.79	0.08	6.00	0.14	38.0	53.5	79.8	1.53	142	10.5
455941 (8971724)	0.15	7.13	8.6	183	2.71	0.06	5.55	0.13	41.7	51.1	72.5	1.94	124	9.73
455942 (8971725)	0.20	5.91	26.7	135	1.03	0.09	1.18	0.05	104	10.0	17.8	0.13	11.8	1.67
455943 (8971726)	0.18	6.34	139	271	1.28	0.26	2.68	0.07	67.9	19.2	43.5	0.22	6.6	2.82

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AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-089) 4 Acid Digest - Metals Package, ICP/ICP-MS finish with Hg-ICP-MS

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Feb 21, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
Sample ID (AGAT ID) RDL:	0.01	0.01	0.2	1	0.05	0.01	0.01	0.02	0.01	0.05	0.5	0.05	0.5	0.01
455944 (8971727)	0.22	8.34	37.3	703	3.11	0.02	9.16	0.18	34.0	4.30	183	0.56	3.9	5.30
455945 (8971728)	0.27	8.31	13.2	417	3.36	0.03	5.48	0.02	11.7	18.7	7.8	0.48	25.4	5.05
455946 (8971729)	0.19	3.80	4.5	270	1.33	0.01	5.54	0.10	10.3	4.63	48.3	0.16	1.4	4.63
455947 (8971730)	0.21	6.99	2.5	267	1.59	0.01	0.69	0.02	41.5	6.96	28.6	0.22	3.0	3.59
455948 (8971731)	0.17	9.08	2.2	715	3.63	0.04	4.18	0.09	84.2	24.4	22.9	1.33	15.3	5.22
455949 (8971732)	0.10	6.51	6.6	243	1.42	0.01	1.66	<0.02	59.9	13.7	41.3	0.42	5.1	4.55
455950 (8971733)	0.16	7.09	1.8	127	2.07	0.03	6.10	0.12	28.4	55.3	64.0	2.50	173	9.58
455951 (8971734)	0.12	7.72	10.2	44	1.30	0.08	1.81	0.03	30.2	54.8	4.1	0.51	38.5	8.74
455952 (8971735)	0.10	6.94	8.0	392	1.62	0.03	5.11	<0.02	35.6	22.1	95.9	0.28	110	4.35
455953 (8971736)	0.11	8.65	1.9	415	1.60	<0.01	2.87	0.02	21.5	38.6	172	0.30	2.3	6.53
455954 (8971737)	0.10	7.82	3.0	72	1.17	0.09	5.16	<0.02	19.3	34.6	14.1	0.10	21.0	6.36
455955 (8971738)	0.11	7.18	16.4	105	1.62	0.02	5.45	<0.02	28.0	47.8	1.0	0.51	49.1	9.11
455956 (8971739)	0.11	7.08	9.9	100	1.86	0.02	5.24	0.03	36.8	37.1	1.6	0.25	52.5	8.65
455957 (8971740)	0.06	7.43	5.2	54	1.73	0.04	5.76	0.03	69.2	33.5	<0.5	0.07	2.1	8.77
455958 (8971741)	0.09	7.18	7.5	64	1.85	0.01	5.62	<0.02	50.5	27.0	<0.5	0.07	3.8	7.00
455959 (8971742)	0.12	6.35	17.4	149	1.66	0.19	4.85	<0.02	42.0	50.8	4.3	0.12	39.6	6.26
455960 (8971743)	0.85	7.85	23.3	1030	3.69	1.67	2.61	0.15	74.5	18.0	75.2	11.1	2430	4.25
455961 (8971744)	0.24	6.50	6.0	91	1.42	0.02	4.18	<0.02	44.4	28.7	2.0	0.07	8.7	5.95
455962 (8971745)	0.13	8.19	6.9	80	2.02	0.03	3.54	0.02	71.4	40.3	<0.5	0.14	<0.5	8.47
455963 (8971746)	0.12	7.52	4.0	45	2.19	0.03	3.85	<0.02	68.3	37.3	45.3	0.29	<0.5	7.87
455964 (8971747)	0.19	5.93	27.0	245	2.61	0.03	6.85	<0.02	53.8	81.8	591	2.45	11.5	9.86
455965 (8971748)	0.13	6.96	5.9	164	2.15	0.03	4.01	<0.02	62.0	44.9	164	0.67	6.5	8.46
455966 (8971749)	0.10	7.72	2.6	99	1.94	0.02	2.90	<0.02	50.8	48.7	3.8	0.47	<0.5	10.2
455967 (8971750)	0.09	8.07	4.1	131	2.16	0.02	3.83	0.02	67.6	37.6	1.1	0.44	<0.5	7.93
455968 (8971751)	0.14	8.73	2.9	208	2.36	0.02	2.05	<0.02	65.4	34.5	3.3	1.20	<0.5	9.39

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AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-089) 4 Acid Digest - Metals Package, ICP/ICP-MS finish with Hg-ICP-MS

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Feb 21, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Unit:	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.05	0.05	0.1	0.005	0.01	0.5	0.1	0.01	1	0.05	0.01	0.1	0.5	10
455815 (8971598)	18.3	0.21	2.4	0.077	0.84	19.6	12.3	1.70	931	5.58	2.97	6.4	28.3	663
455816 (8971599)	17.4	0.17	2.3	0.071	0.74	20.6	11.2	1.61	992	3.66	2.87	6.4	18.7	626
455817 (8971600)	17.8	0.13	2.7	0.052	0.42	36.4	14.2	2.15	887	1.52	3.44	6.4	15.7	1510
455818 (8971601)	17.9	0.19	3.9	0.050	0.08	43.5	14.8	2.38	1330	0.46	4.05	5.5	6.6	2150
455819 (8971602)	17.8	0.23	3.7	0.059	0.14	42.4	15.0	2.46	1190	0.88	3.74	6.7	7.5	2240
455820 (8971603)	17.2	0.16	3.5	0.055	0.12	48.9	13.9	2.20	1080	0.73	3.82	4.3	7.5	2030
455821 (8971604)	18.1	0.16	3.8	0.047	0.10	40.3	15.2	2.44	897	0.80	3.95	5.2	6.9	2240
455822 (8971605)	19.1	<0.05	2.6	0.050	0.21	24.4	14.9	2.31	890	1.06	3.84	6.3	21.6	1440
455823 (8971606)	18.5	0.12	1.3	0.058	0.51	15.0	12.6	1.89	975	1.06	3.59	6.7	29.5	588
455824 (8971607)	22.9	<0.05	2.5	0.070	1.82	33.5	22.3	1.70	938	1.53	2.84	15.7	17.1	1600
455825 (8971608)	17.3	0.14	1.4	0.069	0.60	15.4	13.9	2.11	1030	1.28	2.79	6.9	28.2	512
455826 (8971609)	19.9	0.16	1.2	0.063	0.15	15.1	12.7	2.04	798	1.77	2.58	8.6	32.7	617
455827 (8971610)	18.3	0.18	2.0	0.041	0.14	32.0	9.2	1.38	559	2.98	2.61	11.4	30.0	490
455828 (8971611)	17.6	0.28	1.8	0.044	0.09	20.4	10.6	1.66	653	2.21	2.47	9.5	32.5	627
455829 (8971612)	18.3	0.14	1.4	0.046	0.18	15.0	15.7	2.69	684	2.38	3.40	9.0	34.7	474
455830 (8971613)	15.4	<0.05	1.8	0.025	0.39	16.1	11.5	2.09	518	5.91	3.45	4.8	36.2	355
455831 (8971614)	17.0	0.18	2.0	0.036	0.17	23.0	24.3	4.42	1010	5.49	1.42	7.9	66.1	841
455832 (8971615)	18.4	0.18	1.5	0.059	0.37	13.6	13.4	2.33	747	1.65	3.11	7.1	32.0	503
455833 (8971616)	18.6	0.18	1.5	0.064	0.38	14.5	10.7	1.97	961	1.38	3.14	6.8	31.6	549
455834 (8971617)	16.1	0.18	1.4	0.048	0.45	14.1	14.6	2.68	968	1.56	2.59	5.4	29.1	419
455835 (8971618)	18.4	0.25	1.7	0.034	0.21	18.4	33.0	6.39	914	1.59	0.18	5.6	28.8	437
455836 (8971619)	18.3	<0.05	2.1	0.062	3.32	35.0	34.1	1.58	588	93.8	2.05	17.8	55.9	1030
455837 (8971620)	17.4	0.19	1.3	0.043	0.44	16.7	29.8	5.92	854	1.71	0.22	6.8	33.2	304
455838 (8971621)	15.5	<0.05	1.6	<0.005	1.01	10.6	20.7	4.21	696	2.29	0.59	5.0	28.1	402
455839 (8971622)	16.7	0.18	1.3	0.057	0.71	10.5	15.0	3.12	974	1.11	2.28	5.1	35.7	354
455840 (8971623)	17.9	0.19	1.0	0.061	0.21	10.5	12.3	2.56	1210	1.04	2.94	5.2	30.7	359
455841 (8971624)	16.5	0.25	1.3	0.037	0.18	10.7	11.9	2.51	1090	1.21	3.11	5.0	30.9	366
455842 (8971625)	18.0	0.27	1.2	0.037	0.13	9.1	13.3	2.85	1250	1.12	3.03	4.6	34.6	345
455843 (8971626)	14.4	0.08	2.1	0.026	0.31	14.7	28.1	5.49	760	4.38	1.45	4.1	147	828
455844 (8971627)	16.1	0.05	2.1	0.028	0.65	18.4	17.9	3.40	649	2.00	2.90	4.3	96.4	802
455845 (8971628)	18.5	<0.05	2.8	0.012	1.00	27.5	6.6	1.20	312	1.92	3.94	9.7	16.6	587
455846 (8971629)	20.7	<0.05	2.8	0.041	1.43	19.3	7.5	1.37	550	1.61	4.33	15.8	15.1	711

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Certificate of Analysis

AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-089) 4 Acid Digest - Metals Package, ICP/ICP-MS finish with Hg-ICP-MS

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Feb 21, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Unit:	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.05	0.05	0.1	0.005	0.01	0.5	0.1	0.01	1	0.05	0.01	0.1	0.5	10
455847 (8971630)	17.6	0.21	0.9	0.062	0.81	11.3	14.0	2.83	987	1.07	2.71	6.3	29.5	367
455848 (8971631)	24.9	<0.05	2.2	0.070	1.85	35.2	22.5	1.78	1010	1.67	2.96	15.8	13.7	1820
455849 (8971632)	16.8	0.16	0.9	0.067	0.39	10.4	13.1	2.65	977	1.21	2.81	6.0	31.5	360
455850 (8971633)	18.0	0.17	1.0	0.050	0.46	9.7	11.8	2.96	1130	1.34	2.40	5.0	37.4	278
455851 (8971634)	17.3	0.16	1.1	0.057	0.56	8.6	13.2	3.18	1130	1.46	2.27	4.3	42.0	311
455852 (8971635)	17.8	0.20	1.1	0.059	0.58	9.1	11.6	3.27	1170	1.70	2.26	4.3	42.3	287
455853 (8971636)	18.6	0.11	1.1	0.065	0.47	9.9	21.5	4.92	1240	1.27	1.72	4.5	41.2	312
455854 (8971637)	16.5	0.15	1.1	0.074	0.59	10.5	11.2	3.05	1180	1.38	2.17	4.4	41.5	303
455855 (8971638)	18.2	<0.05	1.0	0.063	0.53	9.0	15.8	3.82	1130	1.91	2.20	4.7	44.5	321
455856 (8971639)	18.6	0.13	1.0	0.076	0.48	9.6	12.7	3.57	1340	1.39	2.54	4.3	46.1	321
455857 (8971640)	16.4	0.16	0.8	0.055	0.50	8.4	12.6	3.16	1210	1.80	2.38	4.1	43.7	309
455858 (8971641)	18.1	0.19	1.0	0.077	0.53	9.9	10.2	3.17	1300	1.37	2.39	4.0	43.0	318
455859 (8971642)	18.3	0.23	0.7	0.055	0.73	9.5	12.3	2.39	1310	0.75	1.92	1.6	22.2	305
455860 (8971643)	19.4	<0.05	2.3	0.185	3.28	34.2	34.0	1.59	596	94.5	2.11	17.6	38.6	1060
455861 (8971644)	17.4	0.23	0.8	0.070	0.60	9.9	11.4	2.35	1380	1.25	2.34	5.9	23.2	320
455862 (8971645)	19.2	0.13	0.8	0.089	0.60	10.2	11.8	2.48	1300	1.03	2.56	5.4	22.1	352
455863 (8971646)	18.1	0.11	0.8	0.071	0.25	10.1	11.8	2.56	1410	0.87	2.83	5.5	22.4	325
455864 (8971647)	18.6	0.27	0.7	0.048	0.22	7.3	14.1	3.02	1300	1.02	2.38	5.3	22.1	370
455865 (8971648)	20.0	0.24	1.1	0.036	0.43	10.6	24.5	4.16	1040	0.76	1.68	7.0	24.2	398
455866 (8971649)	19.7	0.17	2.0	0.068	0.19	16.5	12.4	2.96	1020	1.30	2.64	7.3	32.3	491
455867 (8971650)	18.9	0.18	1.9	0.056	0.23	15.4	8.4	2.11	932	1.34	3.55	6.8	35.3	508
455868 (8971651)	19.0	0.07	2.6	0.054	0.51	18.4	5.3	1.28	670	1.60	3.89	8.3	13.7	628
455869 (8971652)	18.8	0.13	3.3	0.053	0.37	13.8	7.0	1.98	1100	1.63	3.70	6.8	30.9	454
455870 (8971653)	15.7	0.23	1.7	0.051	0.36	8.0	7.3	3.04	1550	0.92	3.22	4.3	65.6	384
455871 (8971654)	18.6	0.17	1.9	0.058	0.54	12.8	6.3	2.31	1330	1.64	4.02	2.3	44.6	448
455872 (8971655)	25.0	<0.05	2.5	0.072	1.99	31.8	23.9	1.90	1070	1.76	3.20	13.9	15.9	1720
455873 (8971656)	17.7	0.15	2.2	0.050	0.42	11.9	5.6	2.20	1430	1.97	4.05	3.8	38.7	458
455874 (8971657)	18.2	0.11	2.7	0.030	0.36	13.1	4.1	2.07	1320	2.01	4.21	5.1	34.9	481
455875 (8971658)	18.0	0.10	2.6	0.031	0.50	13.3	5.1	2.61	1130	1.97	3.97	5.0	48.4	519
455876 (8971659)	12.2	0.37	2.0	0.053	0.02	14.9	8.2	6.88	1690	1.23	0.05	4.5	554	492
455877 (8971660)	9.72	0.41	1.9	0.056	0.04	15.6	4.3	7.31	1710	0.80	0.01	6.2	606	455
455878 (8971661)	9.79	0.40	1.8	0.048	0.02	15.5	4.2	7.64	1800	0.62	<0.01	6.1	631	464

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Certificate of Analysis

AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-089) 4 Acid Digest - Metals Package, ICP/ICP-MS finish with Hg-ICP-MS

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Feb 21, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Unit:	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.05	0.05	0.1	0.005	0.01	0.5	0.1	0.01	1	0.05	0.01	0.1	0.5	10
455879 (8971662)	9.31	0.42	1.8	0.040	0.15	14.6	4.1	7.93	1770	0.46	<0.01	6.2	643	432
455880 (8971663)	8.50	0.44	1.6	0.036	0.45	14.2	7.3	7.95	1710	0.73	<0.01	2.7	693	427
455881 (8971664)	10.8	0.40	2.2	0.079	1.49	18.8	9.0	8.94	1900	1.10	0.02	1.6	818	533
455882 (8971665)	8.37	0.45	1.7	0.041	0.75	15.4	9.6	7.57	1680	1.39	0.05	1.6	725	416
455883 (8971666)	9.88	0.41	2.0	0.051	0.92	16.0	12.0	7.56	1420	1.19	0.02	2.0	499	471
455884 (8971667)	16.1	0.24	1.6	0.628	3.04	19.7	24.1	1.73	574	459	2.04	9.6	34.9	934
455885 (8971668)	10.6	0.43	1.6	0.052	0.67	16.3	15.5	8.09	1620	1.65	0.05	2.2	688	454
455886 (8971669)	10.2	0.43	1.5	0.043	0.61	15.7	15.5	8.55	1510	1.10	0.02	1.1	842	421
455887 (8971670)	8.37	0.47	1.6	0.054	0.69	16.9	15.3	8.53	1670	1.13	0.03	1.1	790	384
455888 (8971671)	8.45	0.46	1.5	0.045	0.33	13.4	19.1	9.14	1620	1.05	0.02	0.6	834	354
455889 (8971672)	8.34	0.46	1.5	0.041	0.71	13.9	16.6	9.64	1710	0.98	0.06	1.0	875	409
455890 (8971673)	8.80	0.46	1.5	0.050	0.88	13.8	14.6	9.11	1580	0.77	0.11	1.1	814	390
455891 (8971674)	8.55	0.48	1.6	0.048	0.69	15.6	16.4	9.62	1590	0.72	0.06	0.7	861	407
455892 (8971675)	8.79	0.49	1.6	0.042	0.42	15.0	18.1	8.87	1590	0.76	0.04	0.9	782	389
455893 (8971676)	7.27	0.52	1.4	0.047	0.50	15.5	13.4	5.62	1060	1.89	0.03	0.9	599	316
455894 (8971677)	9.51	0.49	1.8	0.041	0.89	16.8	15.9	8.29	1590	0.93	0.09	1.0	733	452
455895 (8971678)	8.58	0.47	1.8	0.045	1.05	14.8	13.5	8.22	1680	0.79	0.04	0.8	749	420
455896 (8971679)	21.8	0.32	2.3	0.073	1.82	34.1	22.0	2.04	1030	1.90	2.67	12.5	47.6	1760
455897 (8971680)	9.95	0.47	1.9	0.057	1.22	16.2	11.4	7.68	1750	1.14	0.10	1.5	677	473
455898 (8971681)	8.85	0.49	2.0	0.040	0.47	15.6	14.5	6.50	1500	1.12	0.02	1.2	563	407
455899 (8971682)	12.1	0.49	2.5	0.055	1.26	20.4	14.2	5.23	1220	1.50	0.07	1.2	365	377
455900 (8971683)	16.9	0.24	3.3	0.050	2.24	19.6	13.0	3.26	615	1.72	1.36	1.7	61.8	319
455901 (8971684)	15.9	0.17	3.1	0.043	2.12	18.1	10.4	2.61	481	2.52	1.99	1.6	55.7	317
455902 (8971685)	14.6	0.21	3.2	0.048	1.94	17.1	8.7	2.63	745	3.16	1.83	2.8	31.1	279
455903 (8971686)	16.8	0.29	3.0	0.050	1.87	21.2	13.4	3.93	916	2.22	1.22	4.9	36.5	383
455904 (8971687)	18.2	0.29	2.4	0.052	1.74	19.7	18.5	5.00	1050	2.22	0.41	4.4	38.4	155
455905 (8971688)	16.8	0.25	2.7	0.054	2.50	25.3	14.3	3.77	832	1.90	0.90	6.9	39.6	334
455906 (8971689)	15.2	<0.05	2.3	<0.005	1.71	15.5	6.0	1.99	600	2.44	2.47	6.5	27.2	443
455907 (8971690)	19.3	<0.05	2.0	0.007	2.29	11.4	9.5	3.31	1110	2.04	1.32	7.1	120	548
455908 (8971691)	16.4	<0.05	1.5	<0.005	2.82	6.7	10.3	3.56	1310	1.27	0.31	4.0	101	395
455909 (8971692)	18.6	<0.05	1.9	<0.005	2.76	6.5	11.8	3.78	1200	1.31	0.22	3.7	113	261
455910 (8971693)	15.9	<0.05	1.7	<0.005	2.51	16.2	6.5	1.41	428	3.68	1.54	3.8	28.5	273

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Certificate of Analysis

AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-089) 4 Acid Digest - Metals Package, ICP/ICP-MS finish with Hg-ICP-MS

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Feb 21, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Unit:	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.05	0.05	0.1	0.005	0.01	0.5	0.1	0.01	1	0.05	0.01	0.1	0.5	10
455911 (8971694)	16.2	<0.05	2.6	<0.005	2.52	17.4	6.3	1.51	587	3.11	1.98	2.5	41.6	386
455912 (8971695)	15.1	<0.05	1.6	<0.005	0.20	4.3	12.4	4.46	1510	0.80	2.33	4.0	90.0	430
455913 (8971696)	15.2	<0.05	2.9	<0.005	2.11	16.0	5.6	1.83	797	2.89	1.83	6.2	46.7	437
455914 (8971697)	13.9	<0.05	2.7	<0.005	1.70	18.0	4.9	1.63	838	2.25	2.68	7.1	33.7	543
455915 (8971698)	14.0	0.19	3.0	0.040	1.25	17.1	4.7	1.91	860	2.93	2.97	6.7	39.1	861
455916 (8971699)	16.8	0.15	2.3	0.044	1.67	16.0	7.3	2.54	880	2.08	2.44	5.5	30.2	537
455917 (8971700)	15.9	<0.05	3.3	0.056	1.96	17.6	6.1	1.84	773	2.39	2.10	7.6	22.9	613
455918 (8971701)	15.5	0.15	2.1	0.052	1.88	11.9	5.7	2.08	952	1.79	2.35	4.8	40.9	383
455919/455920 (8971702)	15.5	0.19	1.4	0.049	1.64	9.0	5.8	2.53	1050	2.21	2.24	3.7	57.9	409
455921 (8971704)	13.4	0.16	1.8	0.038	1.04	9.3	6.1	2.73	878	3.61	3.08	3.0	83.8	322
455922 (8971705)	13.6	0.12	1.5	0.040	1.29	10.5	6.8	2.55	775	2.07	2.67	3.0	63.8	294
455923 (8971706)	9.68	0.25	1.2	0.034	1.03	11.3	8.6	1.75	596	4.53	0.78	1.7	86.1	78
455924 (8971707)	23.0	0.55	2.3	0.077	2.06	35.3	23.5	1.82	1030	2.20	3.05	13.3	23.4	1720
455925 (8971708)	6.35	0.49	0.9	0.017	0.41	4.7	5.1	1.75	664	6.44	0.61	2.5	71.4	62
455926 (8971709)	16.0	<0.05	4.9	0.027	1.47	28.1	8.9	1.84	278	3.09	2.76	3.3	31.2	187
455927 (8971710)	11.1	<0.05	5.4	0.007	0.54	34.1	1.3	0.55	195	3.85	4.47	4.2	21.5	316
455928 (8971711)	10.6	<0.05	5.5	0.008	0.52	28.0	1.1	0.39	187	2.67	4.57	6.1	14.3	282
455929 (8971712)	10.0	0.39	4.6	0.030	0.65	8.3	1.7	3.24	2010	2.02	4.35	4.8	15.4	345
455930 (8971713)	14.4	0.09	5.8	0.027	0.98	30.5	2.2	0.90	531	3.55	4.34	7.6	19.5	264
455931 (8971714)	16.6	0.19	3.4	0.072	1.15	20.4	3.6	1.56	991	2.90	3.78	7.5	17.9	707
455932 (8971715)	17.6	0.22	3.7	0.072	1.23	22.6	4.7	1.56	840	2.89	2.75	7.7	16.4	522
455933 (8971716)	15.8	0.26	3.7	0.036	0.97	19.2	4.2	1.88	902	1.91	3.34	7.5	18.3	632
455934 (8971717)	12.8	0.37	1.6	0.043	1.18	19.9	11.6	4.51	1080	2.17	1.27	1.4	241	433
455935 (8971718)	13.3	0.32	2.1	0.029	0.63	22.9	14.2	4.33	762	2.24	2.26	0.8	223	535
455936 (8971719)	17.9	0.16	2.3	0.061	3.44	41.7	34.7	1.61	592	93.3	2.13	17.5	56.8	1040
455937 (8971720)	13.4	0.29	2.3	0.024	0.71	17.8	16.6	3.95	798	2.43	2.76	2.8	177	535
455938 (8971721)	18.2	0.44	3.7	0.087	1.09	16.1	6.6	3.47	1820	1.60	1.84	7.3	62.8	826
455939 (8971722)	17.6	0.54	3.6	0.088	1.49	15.0	7.0	3.26	1790	1.76	1.67	6.5	57.0	790
455940 (8971723)	18.2	0.40	3.6	0.089	0.80	15.3	4.7	3.33	1840	1.96	1.83	7.4	63.4	810
455941 (8971724)	18.6	0.40	3.8	0.086	0.66	17.3	5.2	3.03	1630	1.99	1.98	7.5	56.0	776
455942 (8971725)	12.3	<0.05	5.5	0.010	0.54	52.1	3.0	0.37	145	3.74	3.86	5.7	8.7	248
455943 (8971726)	13.7	<0.05	4.5	0.021	1.22	30.5	5.3	0.94	359	3.24	3.03	6.0	11.0	214

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AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

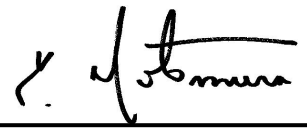
ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-089) 4 Acid Digest - Metals Package, ICP/ICP-MS finish with Hg-ICP-MS

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Feb 21, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Unit:	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.05	0.05	0.1	0.005	0.01	0.5	0.1	0.01	1	0.05	0.01	0.1	0.5	10
455944 (8971727)	26.9	0.40	2.4	0.070	3.31	14.9	16.6	4.22	1580	0.88	0.68	8.4	58.2	180
455945 (8971728)	20.6	0.36	2.1	0.042	2.11	5.1	7.9	2.68	1200	0.87	3.25	8.9	33.2	379
455946 (8971729)	13.0	0.53	1.5	0.028	1.08	4.3	8.2	3.38	1160	2.52	0.47	5.0	19.6	162
455947 (8971730)	16.9	<0.05	5.7	0.021	1.21	18.6	10.5	1.98	190	2.00	2.51	4.3	14.0	237
455948 (8971731)	24.7	0.44	2.5	0.077	1.75	38.0	20.5	1.71	951	1.98	2.74	14.5	13.3	1760
455949 (8971732)	18.7	0.06	4.7	0.025	1.20	26.1	14.6	2.96	342	2.30	1.38	3.1	21.1	305
455950 (8971733)	17.7	0.42	2.6	0.077	0.57	11.7	11.0	3.51	1670	1.66	1.65	5.6	51.9	526
455951 (8971734)	18.9	0.24	2.2	0.038	0.24	12.7	31.3	6.02	522	1.30	1.24	1.6	11.5	569
455952 (8971735)	13.2	0.30	2.1	0.059	1.70	15.2	14.9	4.29	908	1.28	1.30	0.8	52.0	256
455953 (8971736)	15.1	0.13	1.0	0.064	1.62	9.2	29.4	6.39	617	0.76	0.61	1.3	89.8	274
455954 (8971737)	14.6	0.25	0.8	0.047	0.16	7.5	10.2	3.32	792	0.36	3.31	1.0	55.4	277
455955 (8971738)	16.4	0.27	1.2	0.069	0.39	9.9	14.4	3.02	742	0.43	2.47	1.3	39.8	360
455956 (8971739)	16.0	0.29	1.6	0.065	0.30	14.2	13.4	2.73	725	0.86	2.50	1.8	29.4	528
455957 (8971740)	17.6	0.38	1.4	0.066	0.20	29.1	12.4	2.65	705	0.55	2.93	1.1	11.1	495
455958 (8971741)	16.5	0.32	2.0	0.049	0.22	19.8	12.6	2.47	627	0.55	2.80	2.4	11.6	750
455959 (8971742)	15.2	0.32	1.8	0.037	0.42	15.2	11.2	2.12	515	0.90	2.55	2.4	12.9	728
455960 (8971743)	18.4	<0.05	2.3	0.183	3.16	35.2	32.5	1.54	577	91.8	2.04	18.1	37.3	1000
455961 (8971744)	16.1	0.18	2.0	0.035	0.29	15.6	10.0	2.15	482	0.93	2.70	3.3	9.1	701
455962 (8971745)	19.9	0.16	2.2	0.053	0.28	29.1	13.9	2.88	546	0.55	3.14	3.8	11.0	858
455963 (8971746)	18.2	0.20	2.0	0.046	0.15	24.1	18.5	3.42	740	0.74	2.44	4.6	108	1190
455964 (8971747)	17.2	0.55	2.5	0.018	1.25	19.3	28.9	5.06	1050	0.52	0.09	12.0	578	743
455965 (8971748)	17.5	0.34	2.3	0.022	0.48	21.4	23.7	4.04	778	0.65	1.54	3.9	140	783
455966 (8971749)	21.4	0.33	2.6	0.012	0.31	17.1	24.5	4.35	862	0.52	1.82	2.1	13.5	813
455967 (8971750)	19.2	0.24	2.2	0.019	0.35	22.9	18.3	3.59	826	0.52	3.01	2.5	9.0	832
455968 (8971751)	20.1	0.21	2.7	0.022	0.71	22.7	49.6	5.32	906	0.85	2.23	4.5	10.9	910

Certified By:



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Certificate of Analysis

AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-089) 4 Acid Digest - Metals Package, ICP/ICP-MS finish with Hg-ICP-MS

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Feb 21, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Tl	U
Unit:	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.1	0.1	0.002	0.01	0.05	0.1	0.5	0.2	0.2	0.05	0.01	0.01	0.01	0.005
455815 (8971598)	1.9	32.0	0.004	0.25	0.11	19.8	0.6	2.0	203	0.52	0.07	2.40	0.12	0.519
455816 (8971599)	1.8	28.1	<0.002	0.23	0.06	17.0	0.6	2.3	195	0.43	0.03	2.28	0.09	0.474
455817 (8971600)	1.9	15.1	<0.002	0.12	0.06	17.5	<0.5	1.2	216	0.35	0.01	4.11	0.05	0.992
455818 (8971601)	3.8	3.0	<0.002	0.22	0.06	19.0	<0.5	0.4	297	0.51	0.03	4.11	<0.01	1.09
455819 (8971602)	2.8	5.5	0.002	0.25	0.08	18.6	0.5	0.5	275	0.88	0.04	3.93	0.02	1.05
455820 (8971603)	2.7	4.5	0.003	0.21	0.10	17.2	0.6	0.5	232	0.52	0.04	3.69	0.02	0.992
455821 (8971604)	2.3	3.5	0.002	0.33	0.08	19.3	0.6	0.5	201	0.65	0.03	4.16	<0.01	1.12
455822 (8971605)	2.0	8.0	0.002	0.24	0.08	19.8	0.5	0.6	237	0.54	0.02	3.00	0.03	0.775
455823 (8971606)	1.5	17.9	0.003	0.08	0.05	19.4	<0.5	1.0	244	0.56	0.01	1.57	0.06	0.381
455824 (8971607)	13.1	107	0.003	0.17	0.09	16.7	1.1	2.2	583	0.93	0.02	4.39	0.48	1.34
455825 (8971608)	1.9	21.1	0.003	0.08	<0.05	17.8	<0.5	1.2	184	0.53	<0.01	2.03	0.07	0.456
455826 (8971609)	3.7	6.2	0.004	0.11	0.27	22.9	1.0	6.4	371	0.48	0.01	2.27	0.02	0.817
455827 (8971610)	5.5	5.0	0.003	0.15	0.22	15.3	2.0	19.7	416	0.65	0.02	3.77	0.01	2.03
455828 (8971611)	4.5	2.5	0.003	0.08	0.22	19.0	1.8	22.8	452	0.25	0.01	2.50	<0.01	2.29
455829 (8971612)	2.0	7.2	0.003	0.28	0.09	22.4	0.9	3.1	166	0.57	0.02	2.52	0.02	0.661
455830 (8971613)	3.2	12.5	0.004	1.04	<0.05	12.5	1.7	4.4	126	0.33	0.05	4.48	0.03	0.892
455831 (8971614)	2.9	5.8	0.003	0.20	0.10	20.7	0.8	3.6	52.1	0.43	0.02	3.52	<0.01	0.816
455832 (8971615)	1.7	13.6	0.003	0.21	0.08	21.8	0.7	4.3	140	0.49	0.02	1.81	0.03	0.514
455833 (8971616)	2.3	13.3	0.002	0.11	0.07	20.8	0.9	1.5	189	0.47	<0.01	2.14	0.03	0.524
455834 (8971617)	2.2	13.4	0.002	0.12	0.06	19.9	0.6	1.8	131	0.49	0.01	2.21	0.05	0.562
455835 (8971618)	2.9	6.9	0.003	0.02	<0.05	17.3	<0.5	2.3	<0.2	0.54	0.02	2.63	0.01	0.535
455836 (8971619)	22.1	194	0.003	0.36	1.91	12.5	1.9	3.0	317	1.20	0.21	19.1	1.01	5.65
455837 (8971620)	2.2	14.1	0.003	1.10	0.08	23.2	2.0	3.7	0.9	0.52	0.07	1.94	0.03	0.616
455838 (8971621)	1.4	28.6	<0.002	0.55	0.14	15.9	1.3	3.1	29.2	0.37	0.02	2.99	0.07	0.527
455839 (8971622)	1.2	23.3	0.004	0.21	0.05	25.1	0.7	2.2	71.5	0.41	0.02	1.64	0.06	0.456
455840 (8971623)	1.1	6.2	0.003	0.15	0.05	24.0	0.6	1.1	130	0.38	0.01	2.00	0.01	0.505
455841 (8971624)	1.1	4.9	0.003	0.13	<0.05	22.7	0.5	1.1	99.4	0.37	0.01	1.91	<0.01	0.497
455842 (8971625)	0.8	4.2	0.003	0.20	<0.05	25.6	0.7	1.3	110	0.34	<0.01	1.55	<0.01	0.417
455843 (8971626)	1.2	10.9	0.003	0.35	0.10	22.0	<0.5	2.3	67.9	0.36	0.14	2.94	0.03	0.736
455844 (8971627)	1.1	25.6	0.003	0.07	0.10	21.6	<0.5	3.4	130	0.35	0.01	2.49	0.07	1.08
455845 (8971628)	1.8	32.3	<0.002	0.14	0.10	12.2	0.8	2.3	120	0.81	0.01	6.86	0.10	1.55
455846 (8971629)	2.4	42.4	0.002	0.46	0.14	13.1	1.7	2.4	166	1.09	0.10	6.93	0.13	1.30

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Certificate of Analysis

AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-089) 4 Acid Digest - Metals Package, ICP/ICP-MS finish with Hg-ICP-MS

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Feb 21, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Tl	U
Unit:	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.1	0.1	0.002	0.01	0.05	0.1	0.5	0.2	0.2	0.05	0.01	0.01	0.01	0.005
455847 (8971630)	1.5	44.5	0.002	0.15	0.14	26.3	0.7	1.4	208	0.38	0.02	2.02	0.20	0.472
455848 (8971631)	12.7	101	0.003	0.18	<0.05	18.8	1.0	2.3	612	0.72	0.02	4.42	0.46	1.47
455849 (8971632)	1.6	18.0	0.002	0.24	0.12	25.0	0.6	1.5	160	0.36	0.01	1.72	0.09	0.464
455850 (8971633)	1.9	15.9	0.003	0.15	0.26	25.1	0.6	1.7	151	0.31	0.02	1.87	0.06	0.472
455851 (8971634)	2.3	16.5	0.002	1.14	0.32	28.3	1.5	2.7	161	0.35	0.10	1.67	0.08	0.471
455852 (8971635)	2.4	16.3	0.003	0.22	0.36	28.6	0.8	2.1	197	0.36	0.02	1.72	0.07	0.443
455853 (8971636)	1.0	16.2	0.003	0.15	0.22	28.8	0.7	2.7	66.3	0.32	0.02	1.95	0.07	0.405
455854 (8971637)	2.2	21.5	0.003	0.17	0.21	26.3	0.6	3.0	160	0.32	0.01	1.38	0.10	0.388
455855 (8971638)	1.6	19.2	0.002	0.49	0.84	31.3	1.2	2.5	89.7	0.34	0.03	1.19	0.09	0.370
455856 (8971639)	1.4	16.2	0.002	0.21	0.21	30.3	0.8	2.7	114	0.30	0.01	1.18	0.07	0.348
455857 (8971640)	1.4	18.5	0.003	0.19	0.18	27.5	0.7	2.2	92.8	0.28	0.02	1.22	0.08	0.308
455858 (8971641)	2.3	17.0	0.003	0.14	0.27	28.7	0.7	2.3	149	0.24	0.03	1.49	0.07	0.406
455859 (8971642)	2.7	32.1	0.003	0.14	0.25	27.2	0.6	0.9	231	<0.05	<0.01	1.31	0.16	0.340
455860 (8971643)	23.3	194	0.005	0.36	0.71	12.8	3.2	4.6	349	1.21	0.10	19.0	0.98	5.58
455861 (8971644)	2.8	25.5	0.004	0.30	0.28	26.2	0.7	1.3	160	0.28	0.02	1.37	0.14	0.355
455862 (8971645)	2.6	27.8	0.003	0.16	0.27	28.1	0.8	1.5	156	0.30	0.01	1.44	0.15	0.353
455863 (8971646)	2.0	10.2	0.003	0.16	0.15	27.5	0.8	1.0	102	0.30	<0.01	1.46	0.05	0.364
455864 (8971647)	0.9	6.6	<0.002	0.20	0.11	25.6	0.9	0.9	59.9	0.26	0.01	0.99	0.02	0.266
455865 (8971648)	1.0	9.8	0.002	0.05	0.18	27.3	0.5	1.5	53.3	0.49	0.02	2.37	0.03	0.506
455866 (8971649)	1.7	6.9	0.002	0.08	0.15	22.5	0.6	1.5	133	0.55	<0.01	3.42	0.02	0.742
455867 (8971650)	1.8	6.7	<0.002	0.20	0.14	23.0	0.8	1.4	139	0.48	0.02	3.97	0.02	0.874
455868 (8971651)	1.9	12.0	<0.002	0.15	0.16	16.5	0.7	2.0	166	0.59	0.02	4.06	0.03	0.915
455869 (8971652)	1.7	10.9	<0.002	0.10	0.13	22.3	0.6	1.8	177	0.44	0.02	2.72	0.04	0.720
455870 (8971653)	1.2	9.6	0.004	0.08	0.10	27.8	<0.5	1.5	143	0.26	0.04	1.19	0.05	0.331
455871 (8971654)	1.6	15.7	0.002	0.08	0.21	25.4	<0.5	2.0	163	0.09	0.02	2.36	0.07	0.529
455872 (8971655)	13.1	104	0.002	0.21	<0.05	19.4	1.1	2.2	646	0.75	0.02	3.63	0.48	1.43
455873 (8971656)	1.5	10.8	<0.002	0.09	0.07	22.7	<0.5	1.7	178	0.14	<0.01	2.17	0.04	0.502
455874 (8971657)	2.0	9.3	<0.002	0.16	0.12	21.0	<0.5	1.5	158	0.33	0.02	2.23	0.03	0.515
455875 (8971658)	1.8	12.8	0.002	0.13	0.16	22.5	<0.5	1.6	154	0.33	0.04	2.86	0.04	0.593
455876 (8971659)	2.5	1.0	<0.002	0.98	2.01	21.7	<0.5	0.4	151	0.27	0.28	1.51	<0.01	0.337
455877 (8971660)	3.2	1.8	0.002	0.89	7.69	20.1	<0.5	0.3	174	0.36	0.19	1.27	<0.01	0.288
455878 (8971661)	1.7	1.4	0.003	0.22	1.77	19.4	<0.5	0.4	152	0.26	0.06	1.29	<0.01	0.251

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Certificate of Analysis

AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-089) 4 Acid Digest - Metals Package, ICP/ICP-MS finish with Hg-ICP-MS

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Feb 21, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Tl	U
Unit:	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.1	0.1	0.002	0.01	0.05	0.1	0.5	0.2	0.2	0.05	0.01	0.01	0.01	0.005
455879 (8971662)	1.1	7.7	<0.002	0.16	0.17	19.5	<0.5	0.4	140	0.32	0.04	1.25	0.04	0.247
455880 (8971663)	1.4	18.6	0.004	0.44	0.52	18.7	<0.5	0.7	137	0.10	0.03	1.16	0.11	0.212
455881 (8971664)	2.4	43.6	0.003	1.08	5.19	19.4	<0.5	0.3	178	0.05	0.19	1.57	0.16	0.295
455882 (8971665)	2.0	20.9	<0.002	1.39	3.98	20.8	<0.5	0.2	160	0.06	0.19	1.20	0.08	0.273
455883 (8971666)	1.7	27.2	0.002	1.89	1.50	21.9	<0.5	0.3	207	0.09	0.17	1.33	0.11	0.246
455884 (8971667)	25.6	101	0.010	1.21	1.32	13.7	11.5	9.5	403	0.60	0.38	8.41	0.49	2.39
455885 (8971668)	2.9	26.5	<0.002	0.84	0.31	21.9	<0.5	0.4	147	0.10	0.09	1.39	0.12	0.239
455886 (8971669)	2.8	25.7	0.003	0.85	0.20	17.0	<0.5	0.3	128	<0.05	0.08	1.30	0.13	0.232
455887 (8971670)	2.1	20.9	0.002	0.93	0.85	13.4	<0.5	0.2	196	0.05	0.12	1.31	0.08	0.240
455888 (8971671)	2.7	11.8	<0.002	1.72	0.52	18.7	<0.5	0.3	239	<0.05	0.23	1.09	0.05	0.210
455889 (8971672)	2.0	29.1	0.002	1.39	0.40	20.7	<0.5	0.3	189	0.06	0.21	1.12	0.16	0.204
455890 (8971673)	1.4	39.6	0.002	0.96	0.31	18.0	<0.5	0.3	171	0.06	0.20	1.13	0.26	0.204
455891 (8971674)	1.6	29.8	0.002	0.59	0.23	17.9	<0.5	0.3	145	<0.05	0.14	1.22	0.20	0.214
455892 (8971675)	1.3	17.8	<0.002	0.74	0.25	16.8	<0.5	0.3	169	0.05	0.15	1.17	0.11	0.209
455893 (8971676)	2.4	21.8	<0.002	1.57	0.38	15.7	<0.5	0.3	130	0.05	0.11	1.01	0.13	0.181
455894 (8971677)	1.2	37.7	<0.002	1.01	0.21	20.4	<0.5	0.3	139	0.07	0.12	1.29	0.21	0.233
455895 (8971678)	1.3	40.3	<0.002	0.73	0.29	21.1	<0.5	0.4	194	0.06	0.12	1.15	0.21	0.214
455896 (8971679)	12.1	96.5	<0.002	0.18	0.06	18.4	0.8	2.2	575	0.62	0.02	3.50	0.45	1.17
455897 (8971680)	1.8	45.1	0.003	1.09	0.31	24.1	<0.5	0.6	173	0.07	0.14	1.30	0.24	0.254
455898 (8971681)	1.8	18.8	<0.002	3.29	0.69	23.8	<0.5	0.4	181	0.06	0.35	1.20	0.09	0.257
455899 (8971682)	4.3	43.9	0.004	4.82	0.73	20.6	<0.5	1.1	180	0.08	0.70	2.01	0.18	0.538
455900 (8971683)	2.7	75.5	0.002	2.60	0.44	16.7	<0.5	1.7	116	0.13	0.26	4.40	0.32	0.707
455901 (8971684)	2.5	75.1	0.002	2.72	0.42	15.3	<0.5	1.6	111	0.12	0.25	3.96	0.33	0.744
455902 (8971685)	3.0	65.1	0.002	1.90	0.37	11.5	<0.5	2.2	127	0.20	0.21	3.52	0.29	0.691
455903 (8971686)	3.6	77.2	0.002	1.75	0.37	19.7	<0.5	1.7	133	0.41	0.31	4.06	0.38	0.785
455904 (8971687)	367	63.7	0.003	1.56	0.32	17.3	<0.5	1.7	126	0.33	0.35	3.66	0.30	0.689
455905 (8971688)	2.0	86.9	0.004	0.88	0.27	17.7	<0.5	2.0	116	0.48	0.21	2.36	0.44	0.540
455906 (8971689)	1.5	67.2	<0.002	0.46	0.31	15.7	<0.5	1.6	140	0.38	0.05	2.70	0.29	0.543
455907 (8971690)	2.9	93.5	0.002	1.70	0.56	25.1	0.7	2.7	157	0.42	0.23	1.51	0.49	0.418
455908 (8971691)	3.4	87.8	<0.002	2.16	0.84	24.5	<0.5	2.8	174	0.24	0.27	0.89	0.34	0.255
455909 (8971692)	2.3	99.1	<0.002	2.56	0.85	24.9	0.5	3.5	165	0.23	0.48	0.77	0.37	0.308
455910 (8971693)	2.1	83.9	0.002	2.91	0.62	10.9	<0.5	2.9	117	0.24	0.19	2.65	0.27	0.439

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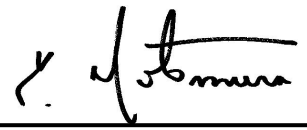

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AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-089) 4 Acid Digest - Metals Package, ICP/ICP-MS finish with Hg-ICP-MS

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Feb 21, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Tl	U
Unit:	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.1	0.1	0.002	0.01	0.05	0.1	0.5	0.2	0.2	0.05	0.01	0.01	0.01	0.005
455911 (8971694)	3.1	78.9	0.003	4.67	0.76	15.6	0.6	2.8	144	0.16	0.31	3.46	0.26	0.707
455912 (8971695)	3.0	4.1	0.003	0.23	0.55	45.9	0.9	0.9	126	0.25	0.07	0.40	<0.01	0.104
455913 (8971696)	6.0	71.8	<0.002	3.56	0.69	18.8	0.5	2.6	153	0.42	0.23	3.36	0.26	0.705
455914 (8971697)	44.5	50.3	0.002	2.06	0.43	18.2	<0.5	2.3	163	0.47	0.18	4.02	0.17	0.898
455915 (8971698)	306	48.8	0.004	1.51	1.19	20.0	<0.5	1.9	134	0.45	0.16	3.03	0.29	0.681
455916 (8971699)	35.6	60.9	<0.002	0.58	0.20	19.3	<0.5	2.3	132	0.39	0.07	3.06	0.32	0.679
455917 (8971700)	75.1	65.1	0.004	1.77	0.35	17.6	<0.5	3.0	136	0.55	0.15	3.88	0.29	0.887
455918 (8971701)	117	63.5	0.003	1.85	0.72	19.8	<0.5	2.6	152	0.35	0.15	2.22	0.31	0.698
455919/455920 (8971702)	34.2	65.8	0.004	1.73	0.53	21.1	<0.5	2.2	152	0.25	0.19	1.51	0.34	0.351
455921 (8971704)	2.0	39.7	0.002	0.55	0.24	17.5	<0.5	1.5	151	0.21	0.07	1.69	0.21	0.475
455922 (8971705)	3.0	48.6	<0.002	1.49	0.22	18.7	<0.5	2.3	129	0.28	0.15	2.56	0.23	0.537
455923 (8971706)	2.5	35.5	0.004	2.72	0.30	10.1	<0.5	1.8	70.8	0.09	0.48	1.21	0.13	0.393
455924 (8971707)	13.0	105	<0.002	0.21	<0.05	18.4	0.7	2.5	637	0.68	0.04	3.89	0.47	1.35
455925 (8971708)	1.9	12.6	<0.002	0.68	0.18	6.5	<0.5	0.8	66.6	0.09	0.05	0.85	0.04	0.383
455926 (8971709)	2.3	45.8	<0.002	1.53	0.24	9.6	<0.5	2.6	70.4	0.25	0.10	8.00	0.16	1.86
455927 (8971710)	2.4	16.6	<0.002	1.59	0.22	4.4	<0.5	0.9	98.8	0.36	0.13	9.64	0.05	2.08
455928 (8971711)	2.4	14.9	0.002	1.41	0.21	3.8	<0.5	0.9	99.0	0.59	0.09	10.9	0.04	2.38
455929 (8971712)	2.9	18.6	<0.002	1.79	0.23	11.0	<0.5	1.2	265	0.52	0.26	6.41	0.08	2.22
455930 (8971713)	5.2	30.1	0.002	1.53	0.30	6.8	<0.5	1.8	139	0.65	0.21	9.70	0.11	2.28
455931 (8971714)	151	41.2	<0.002	0.77	0.29	17.4	<0.5	2.6	177	0.54	0.07	4.43	0.18	1.14
455932 (8971715)	248	37.5	<0.002	0.55	0.50	15.0	<0.5	3.3	152	0.59	0.03	4.78	0.15	1.16
455933 (8971716)	59.9	29.0	<0.002	0.66	0.37	18.3	<0.5	2.8	217	0.59	0.04	4.04	0.11	1.20
455934 (8971717)	4.3	37.9	<0.002	0.09	0.23	20.5	<0.5	3.3	164	0.09	0.01	1.89	0.12	0.514
455935 (8971718)	1.5	23.0	<0.002	0.27	0.19	19.6	<0.5	1.8	178	0.06	0.08	2.82	0.08	0.625
455936 (8971719)	22.1	197	<0.002	0.36	2.02	12.9	1.9	3.0	329	1.17	0.23	20.9	1.01	5.37
455937 (8971720)	2.8	40.6	<0.002	0.18	0.23	20.3	<0.5	1.9	165	0.15	0.04	2.87	0.26	0.718
455938 (8971721)	5.5	64.3	0.005	0.20	0.12	39.5	1.2	1.2	166	0.41	0.03	2.28	0.37	0.585
455939 (8971722)	4.1	84.4	0.004	0.18	0.13	35.8	1.0	1.2	208	0.35	<0.01	2.07	0.41	0.537
455940 (8971723)	4.0	43.1	0.004	0.20	0.14	36.9	1.1	1.2	144	0.43	0.03	2.19	0.23	0.566
455941 (8971724)	4.5	37.4	0.004	0.29	0.22	35.5	1.1	1.2	129	0.44	0.03	2.91	0.24	0.727
455942 (8971725)	10.2	17.8	<0.002	0.81	0.22	3.6	<0.5	1.3	104	0.50	0.03	11.0	0.05	2.33
455943 (8971726)	8.4	39.2	<0.002	1.67	0.28	8.0	<0.5	2.4	90.7	0.43	0.08	8.56	0.13	1.63

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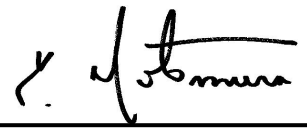

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Certificate of Analysis

AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-089) 4 Acid Digest - Metals Package, ICP/ICP-MS finish with Hg-ICP-MS

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Feb 21, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Tl	U
Unit:	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.1	0.1	0.002	0.01	0.05	0.1	0.5	0.2	0.2	0.05	0.01	0.01	0.01	0.005
455944 (8971727)	17.8	94.1	<0.002	0.16	0.21	29.6	0.6	7.9	194	0.33	0.05	3.27	0.35	0.738
455945 (8971728)	3.0	69.9	<0.002	0.43	0.21	26.4	<0.5	6.7	188	0.42	0.02	1.55	0.24	0.766
455946 (8971729)	2.8	33.5	<0.002	0.07	0.16	11.8	<0.5	3.3	107	0.15	<0.01	1.33	0.09	0.465
455947 (8971730)	1.7	43.1	<0.002	0.02	0.08	6.7	<0.5	2.8	71.3	0.27	<0.01	8.98	0.13	2.21
455948 (8971731)	13.2	105	0.003	0.16	<0.05	16.3	1.1	2.4	558	0.77	0.03	4.46	0.50	1.43
455949 (8971732)	2.0	45.6	<0.002	0.05	0.10	9.0	<0.5	3.0	58.9	0.18	<0.01	7.49	0.16	1.64
455950 (8971733)	3.4	41.0	0.002	0.20	0.15	38.4	0.9	0.9	129	0.30	0.02	1.61	0.25	0.397
455951 (8971734)	1.4	9.0	<0.002	0.39	0.16	24.2	0.7	0.6	116	0.12	0.02	2.47	0.03	0.416
455952 (8971735)	1.0	53.6	<0.002	0.11	0.13	18.9	<0.5	1.6	164	0.06	0.02	3.21	0.15	0.630
455953 (8971736)	0.8	54.4	<0.002	0.04	0.12	26.2	<0.5	1.7	80.0	0.20	0.01	0.82	0.15	0.163
455954 (8971737)	1.1	6.5	<0.002	0.11	0.11	26.9	<0.5	1.8	246	0.07	0.05	0.85	0.01	0.192
455955 (8971738)	1.2	22.3	<0.002	0.14	0.10	30.0	<0.5	10.2	178	0.07	<0.01	1.12	0.10	0.719
455956 (8971739)	1.3	13.2	<0.002	0.11	0.15	28.6	<0.5	13.3	185	0.10	0.02	1.64	0.04	0.970
455957 (8971740)	4.1	5.2	<0.002	0.09	0.08	26.7	<0.5	12.7	128	<0.05	<0.01	2.09	0.01	1.15
455958 (8971741)	1.4	5.5	<0.002	0.09	0.09	23.7	<0.5	8.3	117	0.14	0.01	2.09	0.01	0.991
455959 (8971742)	1.4	10.6	<0.002	0.75	0.17	21.0	0.5	5.7	127	0.15	0.03	2.24	0.04	0.754
455960 (8971743)	22.5	189	0.004	0.33	0.70	12.6	3.2	4.7	337	1.12	0.09	17.6	0.97	4.94
455961 (8971744)	0.9	8.1	<0.002	0.07	0.10	20.1	<0.5	6.1	110	0.16	0.01	2.41	0.02	0.818
455962 (8971745)	1.4	9.3	<0.002	0.06	0.15	31.6	<0.5	10.2	147	0.22	0.02	3.27	0.02	0.919
455963 (8971746)	1.4	8.3	<0.002	0.06	0.20	29.6	0.6	8.5	112	0.26	<0.01	4.32	0.03	1.05
455964 (8971747)	0.9	86.2	<0.002	0.23	0.21	29.2	0.5	6.9	34.7	0.69	0.05	2.33	0.37	0.644
455965 (8971748)	1.3	24.2	<0.002	0.07	0.16	26.6	0.6	8.6	67.0	0.11	0.02	2.42	0.10	0.970
455966 (8971749)	1.1	16.3	<0.002	0.04	0.09	24.4	<0.5	5.9	42.8	<0.05	<0.01	2.59	0.05	0.976
455967 (8971750)	1.1	16.4	<0.002	0.05	0.15	28.3	<0.5	6.4	83.4	0.06	<0.01	2.60	0.06	0.998
455968 (8971751)	2.4	40.8	<0.002	0.03	0.28	30.9	<0.5	9.0	62.5	0.31	<0.01	2.82	0.17	1.14

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AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-089) 4 Acid Digest - Metals Package, ICP/ICP-MS finish with Hg-ICP-MS

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Feb 21, 2018 | SAMPLE TYPE: Drill Core

Analyte:	V	W	Y	Zn	Zr	Hg
Unit:	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.5	0.1	0.1	0.5	0.5	0.01
455815 (8971598)	143	1.2	14.6	77.5	75.9	0.01
455816 (8971599)	98.2	0.9	13.3	71.3	84.3	0.02
455817 (8971600)	135	0.5	17.0	95.5	101	0.03
455818 (8971601)	164	0.2	21.0	106	131	0.04
455819 (8971602)	163	0.2	21.4	103	134	0.02
455820 (8971603)	149	0.3	25.1	92.9	128	0.03
455821 (8971604)	169	0.3	23.8	101	136	0.02
455822 (8971605)	158	0.3	21.2	94.7	99.8	0.02
455823 (8971606)	123	0.3	15.0	78.2	40.4	<0.01
455824 (8971607)	121	0.2	38.4	91.2	91.1	0.01
455825 (8971608)	130	0.4	11.4	86.9	41.9	0.02
455826 (8971609)	192	0.8	38.6	63.3	37.9	0.03
455827 (8971610)	127	1.3	76.3	43.0	59.4	0.02
455828 (8971611)	142	0.4	84.9	46.4	52.0	0.03
455829 (8971612)	192	1.0	27.0	63.9	45.0	0.02
455830 (8971613)	82.1	1.1	17.0	53.5	56.6	0.01
455831 (8971614)	143	1.4	23.1	98.4	72.0	<0.01
455832 (8971615)	175	2.9	25.6	60.1	51.9	0.02
455833 (8971616)	160	0.9	26.8	54.1	51.3	0.02
455834 (8971617)	166	0.6	19.5	73.4	43.4	0.03
455835 (8971618)	143	0.4	19.2	154	56.2	0.02
455836 (8971619)	113	4.9	24.2	82.9	66.6	<0.01
455837 (8971620)	203	0.8	25.1	144	36.4	0.01
455838 (8971621)	146	1.1	15.5	106	55.6	0.03
455839 (8971622)	215	0.9	19.4	82.4	37.0	0.03
455840 (8971623)	215	0.4	19.6	78.0	31.9	0.03
455841 (8971624)	190	0.3	20.2	79.4	43.9	0.01
455842 (8971625)	232	0.3	19.7	85.5	38.7	0.01
455843 (8971626)	135	0.5	14.7	74.7	82.0	0.02
455844 (8971627)	140	7.3	17.4	50.6	83.6	0.01
455845 (8971628)	41.6	1.4	33.5	24.3	82.5	<0.01
455846 (8971629)	63.4	1.1	38.2	30.1	84.6	<0.01

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AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-089) 4 Acid Digest - Metals Package, ICP/ICP-MS finish with Hg-ICP-MS

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Feb 21, 2018 | SAMPLE TYPE: Drill Core

Analyte:	V	W	Y	Zn	Zr	Hg
Unit:	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.5	0.1	0.1	0.5	0.5	0.01
455847 (8971630)	252	0.3	20.9	56.5	29.7	0.01
455848 (8971631)	134	0.2	41.1	94.6	79.2	0.02
455849 (8971632)	238	0.7	21.1	56.1	25.4	0.01
455850 (8971633)	276	0.7	18.2	78.6	32.6	0.02
455851 (8971634)	324	1.2	16.3	78.8	32.6	0.02
455852 (8971635)	345	1.2	17.0	74.8	32.0	0.02
455853 (8971636)	332	1.1	20.2	105	35.6	0.04
455854 (8971637)	283	0.8	19.1	70.4	33.9	0.02
455855 (8971638)	352	0.7	19.3	93.9	31.7	0.05
455856 (8971639)	329	0.6	18.5	84.9	31.4	0.03
455857 (8971640)	281	0.5	16.8	79.3	26.5	0.03
455858 (8971641)	298	0.5	17.8	78.9	30.8	0.03
455859 (8971642)	304	<0.1	19.8	101	26.4	0.04
455860 (8971643)	116	2.8	25.2	101	74.3	0.04
455861 (8971644)	291	0.3	20.4	100	30.3	0.03
455862 (8971645)	309	0.3	20.5	106	30.8	0.04
455863 (8971646)	303	0.2	20.9	108	30.6	0.03
455864 (8971647)	291	0.7	17.5	122	26.7	0.02
455865 (8971648)	313	1.2	22.2	157	31.7	<0.01
455866 (8971649)	181	1.5	15.3	125	58.6	0.01
455867 (8971650)	184	0.7	12.1	92.8	56.2	<0.01
455868 (8971651)	100	0.8	13.8	61.0	82.1	0.03
455869 (8971652)	181	0.7	9.9	74.3	117	0.02
455870 (8971653)	218	0.5	5.3	74.5	55.7	<0.01
455871 (8971654)	243	<0.1	5.7	65.4	61.7	<0.01
455872 (8971655)	140	0.2	39.6	103	91.2	0.03
455873 (8971656)	185	0.3	5.2	59.8	73.9	0.01
455874 (8971657)	180	1.1	5.1	46.7	95.2	0.02
455875 (8971658)	164	1.6	5.5	50.2	83.2	0.03
455876 (8971659)	167	1.9	8.1	78.9	74.5	0.03
455877 (8971660)	157	1.4	6.7	62.1	71.5	0.03
455878 (8971661)	152	0.6	5.7	61.3	70.1	0.03

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AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-089) 4 Acid Digest - Metals Package, ICP/ICP-MS finish with Hg-ICP-MS

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Feb 21, 2018 | SAMPLE TYPE: Drill Core

Analyte:	V	W	Y	Zn	Zr	Hg
Unit:	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.5	0.1	0.1	0.5	0.5	0.01
455879 (8971662)	152	0.3	4.5	64.9	66.2	0.03
455880 (8971663)	146	0.8	5.0	65.4	59.8	0.03
455881 (8971664)	142	1.6	6.9	64.2	83.2	0.04
455882 (8971665)	136	3.7	5.9	55.2	61.8	0.04
455883 (8971666)	179	4.2	5.6	60.9	72.9	0.02
455884 (8971667)	135	3.1	16.4	97.0	53.0	0.02
455885 (8971668)	164	2.6	5.6	75.1	62.9	0.01
455886 (8971669)	155	1.2	5.3	82.2	55.3	<0.01
455887 (8971670)	112	1.6	7.1	69.8	62.2	0.02
455888 (8971671)	132	1.6	4.2	79.2	56.6	0.02
455889 (8971672)	142	2.5	3.8	83.8	53.6	0.02
455890 (8971673)	136	1.8	3.9	81.2	54.2	0.03
455891 (8971674)	128	1.3	4.1	84.8	59.4	0.03
455892 (8971675)	122	1.7	4.2	80.4	59.4	0.03
455893 (8971676)	113	1.7	7.5	65.0	48.3	<0.01
455894 (8971677)	137	1.6	4.9	85.1	66.8	0.02
455895 (8971678)	133	1.7	3.9	71.5	63.9	0.01
455896 (8971679)	130	0.4	37.7	93.6	78.2	0.02
455897 (8971680)	163	3.3	4.8	66.2	65.1	<0.01
455898 (8971681)	152	3.5	4.4	77.9	68.9	<0.01
455899 (8971682)	149	7.2	7.3	61.6	81.4	0.01
455900 (8971683)	131	9.6	6.7	49.5	101	0.02
455901 (8971684)	104	9.4	6.5	39.8	107	<0.01
455902 (8971685)	78.5	8.4	7.0	36.2	106	0.01
455903 (8971686)	161	14.6	6.0	66.1	86.4	0.02
455904 (8971687)	137	15.9	6.3	86.6	70.9	0.01
455905 (8971688)	136	17.9	5.7	65.8	74.8	0.02
455906 (8971689)	151	9.7	5.6	36.1	76.0	0.03
455907 (8971690)	260	11.8	6.1	287	60.1	0.03
455908 (8971691)	219	13.0	4.7	47.9	50.6	0.03
455909 (8971692)	256	18.6	5.6	50.0	60.1	0.02
455910 (8971693)	94.4	11.7	6.3	13.4	50.8	0.03

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AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-089) 4 Acid Digest - Metals Package, ICP/ICP-MS finish with Hg-ICP-MS

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Feb 21, 2018 | SAMPLE TYPE: Drill Core

Analyte:	V	W	Y	Zn	Zr	Hg
Unit:	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.5	0.1	0.1	0.5	0.5	0.01
455911 (8971694)	130	12.0	6.3	13.1	86.9	0.03
455912 (8971695)	397	1.1	21.9	75.0	46.6	0.03
455913 (8971696)	175	12.3	6.4	36.7	97.8	0.01
455914 (8971697)	142	11.1	6.7	154	87.9	0.03
455915 (8971698)	168	12.7	5.7	891	92.0	0.02
455916 (8971699)	162	12.0	4.8	173	70.4	0.02
455917 (8971700)	128	12.7	6.1	181	98.3	0.01
455918 (8971701)	196	13.2	4.2	357	66.9	0.01
455919/455920 (8971702)	213	11.2	4.0	122	42.7	0.02
455921 (8971704)	137	10.7	3.7	53.3	58.4	<0.01
455922 (8971705)	163	8.7	3.9	38.0	40.8	0.01
455923 (8971706)	83.5	6.0	11.3	20.7	38.3	0.02
455924 (8971707)	132	0.4	39.1	97.6	84.4	0.02
455925 (8971708)	48.9	2.4	7.5	22.2	26.6	0.02
455926 (8971709)	52.4	7.6	8.5	29.4	141	<0.01
455927 (8971710)	13.4	4.2	9.9	12.0	152	<0.01
455928 (8971711)	12.4	5.0	7.5	14.8	150	<0.01
455929 (8971712)	19.6	4.5	18.4	22.7	127	0.01
455930 (8971713)	23.9	8.5	11.0	23.1	173	<0.01
455931 (8971714)	97.9	6.4	7.6	321	114	0.01
455932 (8971715)	88.6	5.8	7.8	548	118	<0.01
455933 (8971716)	111	5.4	7.5	138	117	<0.01
455934 (8971717)	110	4.9	6.3	54.8	52.3	<0.01
455935 (8971718)	108	2.8	5.2	50.9	75.2	<0.01
455936 (8971719)	115	4.0	24.7	76.3	69.0	<0.01
455937 (8971720)	112	7.2	6.9	61.2	81.6	0.02
455938 (8971721)	307	0.4	34.8	122	123	<0.01
455939 (8971722)	289	0.2	33.2	118	119	<0.01
455940 (8971723)	296	0.2	34.7	118	121	<0.01
455941 (8971724)	284	0.5	32.4	105	124	<0.01
455942 (8971725)	12.6	3.7	11.9	19.1	155	<0.01
455943 (8971726)	38.1	8.1	11.0	24.4	137	<0.01

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AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-089) 4 Acid Digest - Metals Package, ICP/ICP-MS finish with Hg-ICP-MS

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Feb 21, 2018 | SAMPLE TYPE: Drill Core

Analyte:	V	W	Y	Zn	Zr	Hg
Unit:	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.5	0.1	0.1	0.5	0.5	0.01
455944 (8971727)	189	17.3	18.7	49.2	72.4	<0.01
455945 (8971728)	300	8.1	6.1	17.9	66.4	0.02
455946 (8971729)	78.5	49.2	17.0	29.4	46.3	0.03
455947 (8971730)	32.4	7.0	8.2	34.0	173	<0.01
455948 (8971731)	117	0.4	41.8	90.2	87.3	<0.01
455949 (8971732)	50.4	3.8	8.9	43.3	154	<0.01
455950 (8971733)	290	0.2	26.3	105	94.1	<0.01
455951 (8971734)	149	1.0	5.6	92.8	66.6	<0.01
455952 (8971735)	98.5	1.5	8.0	39.7	69.4	<0.01
455953 (8971736)	126	1.0	4.7	78.5	31.8	<0.01
455954 (8971737)	160	0.2	8.2	59.3	29.8	<0.01
455955 (8971738)	306	0.8	13.3	57.6	43.6	<0.01
455956 (8971739)	326	1.2	15.1	48.0	56.4	<0.01
455957 (8971740)	276	0.5	18.6	44.1	50.1	<0.01
455958 (8971741)	194	2.4	18.5	38.2	72.2	<0.01
455959 (8971742)	134	3.3	19.9	29.8	66.8	<0.01
455960 (8971743)	114	3.1	24.5	78.7	73.6	<0.01
455961 (8971744)	135	2.8	14.6	28.0	75.4	<0.01
455962 (8971745)	177	1.8	21.4	35.4	82.2	<0.01
455963 (8971746)	165	0.9	24.8	34.0	73.8	<0.01
455964 (8971747)	199	1.1	23.0	42.4	91.2	<0.01
455965 (8971748)	178	0.5	24.4	38.6	82.1	<0.01
455966 (8971749)	172	0.1	21.8	42.9	95.0	<0.01
455967 (8971750)	176	0.3	25.8	35.2	80.5	<0.01
455968 (8971751)	188	2.2	22.6	48.3	102	0.02

Comments: RDL - Reported Detection Limit

8971598-8971751 As, Sb values may be low due to digestion losses.

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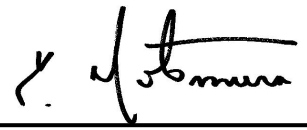

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AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(202-120) Fire Assay - Metallic Gold - ICP Finish

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Feb 21, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Total Gold	Plus (+) Fraction Weight	Minus (-) Fraction Weight	Au Assay (+) Fraction	Au Assay (-) Fraction
Unit:	g/t	g	g	g/t	g/t
Sample ID (AGAT ID) RDL:	0.01	0.01	0.01	0.01	0.01
455888 (8971671)	0.227	27.72	316.29	0.1715	0.232
455889 (8971672)	0.06	31.25	138.91	0.06285	0.063

Comments: RDL - Reported Detection Limit

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AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

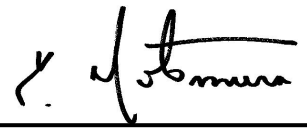
ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(202-551) Fire Assay - Trace Au, AAS finish (50g Charge)

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Feb 21, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Au
Unit:	ppm
Sample ID (AGAT ID) RDL:	0.002
455815 (8971598)	0.030
455816 (8971599)	0.010
455817 (8971600)	0.002
455818 (8971601)	<0.002
455819 (8971602)	<0.002
455820 (8971603)	<0.002
455821 (8971604)	<0.002
455822 (8971605)	<0.002
455823 (8971606)	<0.002
455824 (8971607)	<0.002
455825 (8971608)	<0.002
455826 (8971609)	<0.002
455827 (8971610)	0.025
455828 (8971611)	<0.002
455829 (8971612)	<0.002
455830 (8971613)	0.009
455831 (8971614)	0.005
455832 (8971615)	0.003
455833 (8971616)	<0.002
455834 (8971617)	<0.002
455835 (8971618)	<0.002
455836 (8971619)	0.213
455837 (8971620)	0.102
455838 (8971621)	0.006
455839 (8971622)	<0.002
455840 (8971623)	<0.002
455841 (8971624)	<0.002
455842 (8971625)	0.003
455843 (8971626)	0.016
455844 (8971627)	<0.002
455845 (8971628)	2.79
455846 (8971629)	0.152

Certified By:



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AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(202-551) Fire Assay - Trace Au, AAS finish (50g Charge)

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Feb 21, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Au
Unit:	ppm
Sample ID (AGAT ID) RDL:	0.002
455847 (8971630)	0.009
455848 (8971631)	<0.002
455849 (8971632)	0.004
455850 (8971633)	0.004
455851 (8971634)	0.041
455852 (8971635)	0.003
455853 (8971636)	<0.002
455854 (8971637)	<0.002
455855 (8971638)	0.004
455856 (8971639)	<0.002
455857 (8971640)	<0.002
455858 (8971641)	<0.002
455859 (8971642)	<0.002
455860 (8971643)	0.233
455861 (8971644)	0.006
455862 (8971645)	<0.002
455863 (8971646)	<0.002
455864 (8971647)	0.004
455865 (8971648)	<0.002
455866 (8971649)	<0.002
455867 (8971650)	0.005
455868 (8971651)	0.005
455869 (8971652)	<0.002
455870 (8971653)	<0.002
455871 (8971654)	0.004
455872 (8971655)	<0.002
455873 (8971656)	0.022
455874 (8971657)	0.006
455875 (8971658)	0.018
455876 (8971659)	0.254
455877 (8971660)	0.031
455878 (8971661)	0.010

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Certificate of Analysis

AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(202-551) Fire Assay - Trace Au, AAS finish (50g Charge)

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Feb 21, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Au
Unit:	ppm
Sample ID (AGAT ID) RDL:	0.002
455879 (8971662)	0.006
455880 (8971663)	0.009
455881 (8971664)	0.095
455882 (8971665)	0.098
455883 (8971666)	0.137
455884 (8971667)	1.53
455885 (8971668)	0.066
455886 (8971669)	0.018
455887 (8971670)	0.038
455888 (8971671)	0.101
455889 (8971672)	0.065
455890 (8971673)	0.067
455891 (8971674)	0.026
455892 (8971675)	0.036
455893 (8971676)	0.324
455894 (8971677)	0.019
455895 (8971678)	0.027
455896 (8971679)	<0.002
455897 (8971680)	0.050
455898 (8971681)	0.151
455899 (8971682)	1.21
455900 (8971683)	0.979
455901 (8971684)	0.848
455902 (8971685)	0.429
455903 (8971686)	0.262
455904 (8971687)	0.206
455905 (8971688)	0.035
455906 (8971689)	0.147
455907 (8971690)	1.01
455908 (8971691)	1.54
455909 (8971692)	0.306
455910 (8971693)	0.442

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AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(202-551) Fire Assay - Trace Au, AAS finish (50g Charge)

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Feb 21, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Au
Unit:	ppm
Sample ID (AGAT ID) RDL:	0.002
455911 (8971694)	0.500
455912 (8971695)	0.506
455913 (8971696)	0.433
455914 (8971697)	1.03
455915 (8971698)	1.60
455916 (8971699)	0.452
455917 (8971700)	0.323
455918 (8971701)	1.94
455919/455920 (8971702)	1.36
455921 (8971704)	0.869
455922 (8971705)	0.613
455923 (8971706)	0.581
455924 (8971707)	0.007
455925 (8971708)	0.092
455926 (8971709)	0.162
455927 (8971710)	0.111
455928 (8971711)	0.341
455929 (8971712)	0.128
455930 (8971713)	0.221
455931 (8971714)	0.155
455932 (8971715)	0.010
455933 (8971716)	0.074
455934 (8971717)	<0.002
455935 (8971718)	0.006
455936 (8971719)	0.209
455937 (8971720)	0.044
455938 (8971721)	0.004
455939 (8971722)	<0.002
455940 (8971723)	<0.002
455941 (8971724)	0.011
455942 (8971725)	0.229
455943 (8971726)	0.309

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AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(202-551) Fire Assay - Trace Au, AAS finish (50g Charge)

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Feb 21, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Au
Unit:	ppm
Sample ID (AGAT ID) RDL:	0.002
455944 (8971727)	0.003
455945 (8971728)	0.010
455946 (8971729)	<0.002
455947 (8971730)	<0.002
455948 (8971731)	<0.002
455949 (8971732)	<0.002
455950 (8971733)	<0.002
455951 (8971734)	0.013
455952 (8971735)	0.014
455953 (8971736)	<0.002
455954 (8971737)	<0.002
455955 (8971738)	0.005
455956 (8971739)	0.005
455957 (8971740)	<0.002
455958 (8971741)	0.003
455959 (8971742)	0.136
455960 (8971743)	0.247
455961 (8971744)	0.002
455962 (8971745)	<0.002
455963 (8971746)	<0.002
455964 (8971747)	0.013
455965 (8971748)	0.002
455966 (8971749)	<0.002
455967 (8971750)	<0.002
455968 (8971751)	<0.002

Comments: RDL - Reported Detection Limit

Certified By:

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Quality Assurance - Replicate

AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-089) 4 Acid Digest - Metals Package, ICP/ICP-MS finish with Hg-ICP-MS

	REPLICATE #1				REPLICATE #2				REPLICATE #3				REPLICATE #4			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Ag	8971598	0.124	0.156	22.9%	8971609	0.46	0.27		8971617	0.128	0.157	20.4%	8971621	0.36	0.46	24.4%
Al	8971598	7.42	8.58	14.5%	8971609	8.09	8.42	4.0%	8971617	7.26	7.87	8.1%	8971622	7.53	7.53	0.0%
As	8971621	3.89	4.18	7.2%	8971609	2.9	2.9	0.0%	8971617	2.63	2.24	16.0%	8971621	4.5	4.5	0.0%
Ba	8971598	436	493	12.3%	8971609	53	53	0.0%	8971617	228	244	6.8%	8971622	318	320	0.6%
Be	8971621	1.25	1.23	1.6%	8971609	2.77	2.89	4.2%	8971617	2.30	2.56	10.7%	8971621	1.95	1.93	1.0%
Bi	8971621	0.153	0.161	5.1%	8971609	0.11	0.11	0.0%	8971617	0.06	0.06	0.0%	8971621	0.20	0.19	5.1%
Ca	8971598	3.34	3.79	12.6%	8971609	3.98	4.12	3.5%	8971617	5.07	5.49	8.0%	8971622	5.34	5.30	0.8%
Cd	8971598	0.04	0.03	28.6%	8971609	0.064	0.065	1.6%	8971617	0.024	0.031	25.5%	8971621	0.02	0.02	0.0%
Ce	8971598	45.7	43.6	4.7%	8971609	37.6	36.5	3.0%	8971617	31.7	32.3	1.9%	8971621	25.3	26.0	2.7%
Co	8971621	35.4	36.5	3.1%	8971609	32.3	31.2	3.5%	8971617	28.3	29.3	3.5%	8971621	41.7	40.0	4.2%
Cr	8971621	23.5	24.8	5.4%	8971609	9.15	9.59	4.7%	8971617	25.0	25.8	3.1%	8971622	33.1	31.8	4.0%
Cs	8971621	0.233	0.239	2.5%	8971609	0.140	0.133	5.1%	8971617	0.175	0.168	4.1%	8971621	0.236	0.235	0.4%
Cu	8971598	67.4	77.0	13.3%	8971609	33.7	34.7	2.9%	8971617	85.1	96.5	12.6%	8971622	122	121	0.8%
Fe	8971598	7.18	8.09	11.9%	8971609	8.23	8.55	3.8%	8971617	5.01	5.44	8.2%	8971622	5.75	5.69	1.0%
Ga	8971621	15.5	16.2	4.4%	8971609	19.9	19.0	4.6%	8971617	16.1	16.7	3.7%	8971621	16.5	15.8	4.3%
Ge	8971621	< 0.05	< 0.05	0.0%	8971609	0.157	0.150	4.6%	8971617	0.184	0.220	17.8%	8971621	0.125	0.134	6.9%
Hf	8971621	1.64	1.91	15.2%	8971609	1.2	1.3	8.0%	8971617	1.4	1.4	0.0%	8971621	1.80	1.85	2.7%
In	8971621	< 0.005	< 0.005	0.0%	8971609	0.0626	0.0619	1.1%	8971617	0.048	0.051	6.1%	8971621	0.059	0.056	5.2%
K	8971598	0.84	0.95	12.3%	8971609	0.15	0.15	0.0%	8971617	0.453	0.488	7.4%	8971622	0.71	0.71	0.0%
La	8971621	10.6	10.7	0.9%	8971609	15.1	14.7	2.7%	8971617	14.1	14.6	3.5%	8971621	10.7	10.7	0.0%
Li	8971598	12.3	14.2	14.3%	8971609	12.7	13.5	6.1%	8971617	14.6	16.3	11.0%	8971622	15.0	15.1	0.7%
Mg	8971598	1.70	1.95	13.7%	8971609	2.04	2.12	3.8%	8971617	2.68	2.93	8.9%	8971622	3.12	3.09	1.0%
Mn	8971598	931	1060	13.0%	8971609	798	830	3.9%	8971617	968	1060	9.1%	8971622	974	965	0.9%
Mo	8971621	2.29	2.38	3.9%	8971609	1.77	1.64	7.6%	8971617	1.56	1.34	15.2%	8971621	2.15	2.11	1.9%
Na	8971598	2.97	3.39	13.2%	8971609	2.58	2.67	3.4%	8971617	2.59	2.74	5.6%	8971622	2.28	2.30	0.9%
Nb	8971621	5.03	5.52	9.3%	8971609	8.6	9.1	5.6%	8971617	5.4	5.1	5.7%	8971621	6.0	5.7	5.1%
Ni	8971598	28.3	34.9	20.9%	8971609	32.7	34.2	4.5%	8971617	29.1	32.4	10.7%	8971622	35.7	35.0	2.0%
P	8971598	663	829	22.3%	8971609	617	648	4.9%	8971617	419	455	8.2%	8971622	354	355	0.3%
Pb	8971621	1.4	1.3	7.4%	8971609	3.7	3.5	5.6%	8971617	2.23	2.85	24.4%	8971621	2.2	1.8	20.0%
Rb	8971621	28.6	31.1	8.4%	8971609	6.2	6.0	3.3%	8971617	13.4	13.5	0.7%	8971621	30.4	29.5	3.0%
Re	8971621	< 0.002	< 0.002	0.0%	8971609	0.0037	0.0034	8.5%	8971617	0.002	0.002	0.0%	8971621	0.002	0.002	0.0%

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ATTENTION TO: ALAN SMITH, STEPHEN ROACH

S	8971598	0.25	0.29	14.8%	8971609	0.114	0.120	5.1%	8971617	0.12	0.13	8.0%	8971622	0.208	0.194	7.0%
Sb	8971621	0.14	0.14	0.0%	8971609	0.27	0.25	7.7%	8971617	0.06	0.06	0.0%	8971621	0.076	0.058	26.9%
Sc	8971598	19.8	25.0	23.2%	8971609	22.9	24.2	5.5%	8971617	19.9	21.6	8.2%	8971622	25.1	24.7	1.6%
Se	8971621	1.3	1.3	0.0%	8971609	0.98	0.84	15.4%	8971617	0.6	0.5	18.2%	8971621	1.37	1.12	20.1%
Sn	8971621	3.11	4.00	25.0%	8971609	6.4	6.2	3.2%	8971617	1.8	1.8	0.0%	8971621	2.9	2.8	3.5%
Sr	8971598	203	221	8.5%	8971609	371	379	2.1%	8971617	131	149	12.9%	8971622	71.5	71.9	0.6%
Ta	8971621	0.373	0.408	9.0%	8971609	0.483	0.589	19.8%	8971617	0.491	0.435	12.1%	8971621	0.49	0.45	8.5%
Te	8971621	0.02	0.02	0.0%	8971609	0.01	< 0.01		8971617	0.01	0.01	0.0%	8971621	0.06	0.04	
Th	8971621	2.99	3.04	1.7%	8971609	2.27	2.31	1.7%	8971617	2.21	2.22	0.5%	8971621	2.93	2.93	0.0%
Tl	8971621	0.07	0.07	0.0%	8971609	0.02	0.02	0.0%	8971617	0.05	0.04	22.2%	8971621	0.08	0.08	0.0%
U	8971621	0.527	0.555	5.2%	8971609	0.817	0.842	3.0%	8971617	0.562	0.583	3.7%	8971621	0.561	0.556	0.9%
V	8971598	143	180	22.9%	8971609	192	202	5.1%	8971617	166	183	9.7%	8971622	215	211	1.9%
W	8971621	1.15	1.22	5.9%	8971609	0.8	1.0	22.2%	8971617	0.6	0.6	0.0%	8971621	1.3	1.3	0.0%
Y	8971621	15.5	16.5	6.3%	8971609	38.6	37.0	4.2%	8971617	19.5	19.5	0.0%	8971621	15.9	15.3	3.8%
Zn	8971598	77.5	86.9	11.4%	8971609	63.3	64.7	2.2%	8971617	73.4	81.5	10.5%	8971622	82.4	80.4	2.5%
Zr	8971621	55.6	63.8	13.7%	8971609	37.9	42.9	12.4%	8971617	43.4	44.1	1.6%	8971621	59.6	61.5	3.1%
Hg	8971621	0.030	0.036	18.2%	8971609	0.03	0.01		8971617	0.03	0.03	0.0%	8971621	< 0.01	0.01	
	REPLICATE #5				REPLICATE #6				REPLICATE #7				REPLICATE #8			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Ag	8971622	0.49	0.23		8971633	0.23	0.21	9.1%	8971634	0.31	0.46		8971645	0.255	0.192	28.2%
Al	8971633	7.55	7.56	0.1%	8971634	7.86	7.67	2.4%	8971645	7.66	7.83	2.2%	8971647	7.22	7.47	3.4%
As	8971622	3.2	2.5	24.6%	8971633	8.4	7.4	12.7%	8971634	25.5	24.4	4.4%	8971645	10.7	9.75	9.3%
Ba	8971633	118	116	1.7%	8971634	118	117	0.9%	8971645	197	200	1.5%	8971647	45	46	2.2%
Be	8971622	2.26	2.03	10.7%	8971633	2.06	1.91	7.6%	8971634	2.26	2.00	12.2%	8971645	3.03	3.03	0.0%
Bi	8971622	0.08	0.08	0.0%	8971633	0.08	0.08	0.0%	8971634	0.134	0.135	0.7%	8971645	0.09	0.09	0.0%
Ca	8971633	4.39	4.36	0.7%	8971634	4.48	4.44	0.9%	8971645	4.52	4.61	2.0%	8971647	4.75	4.62	2.8%
Cd	8971622	0.031	0.024	25.5%	8971633	0.038	0.046	19.0%	8971634	0.04	0.04	0.0%	8971645	0.04	0.04	0.0%
Ce	8971622	23.9	23.5	1.7%	8971633	22.2	22.5	1.3%	8971634	20.1	20.1	0.0%	8971645	24.6	23.3	5.4%
Co	8971622	37.4	32.5	14.0%	8971633	48.5	44.2	9.3%	8971634	117	115	1.7%	8971645	41.8	40.8	2.4%
Cr	8971633	35.0	35.0	0.0%	8971634	38.1	38.8	1.8%	8971645	11.3	12.9	13.2%	8971647	11.4	11.8	3.4%
Cs	8971622	0.19	0.19	0.0%	8971633	0.30	0.29	3.4%	8971634	0.21	0.21	0.0%	8971645	1.09	1.09	0.0%
Cu	8971633	80.5	80.0	0.6%	8971634	480	462	3.8%	8971645	57.0	56.4	1.1%	8971647	109	108	0.9%
Fe	8971633	7.38	7.36	0.3%	8971634	8.93	8.82	1.2%	8971645	8.30	8.47	2.0%	8971647	8.43	8.44	0.1%
Ga	8971622	16.7	15.7	6.2%	8971633	18.0	17.1	5.1%	8971634	17.3	17.2	0.6%	8971645	19.2	19.5	1.6%

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ATTENTION TO: ALAN SMITH, STEPHEN ROACH

Ge	8971622	0.18	0.19	5.4%	8971633	0.175	0.213	19.6%	8971634	0.156	0.118	27.7%	8971645	0.13	0.09	
Hf	8971622	1.25	1.20	4.1%	8971633	1.0	1.0	0.0%	8971634	1.1	1.0	9.5%	8971645	0.8	0.8	0.0%
In	8971622	0.057	0.050	13.1%	8971633	0.0500	0.0494	1.2%	8971634	0.057	0.057	0.0%	8971645	0.089	0.089	0.0%
K	8971633	0.46	0.46	0.0%	8971634	0.56	0.55	1.8%	8971645	0.60	0.62	3.3%	8971647	0.223	0.226	1.3%
La	8971622	10.5	10.5	0.0%	8971633	9.7	9.6	1.0%	8971634	8.6	8.5	1.2%	8971645	10.2	9.9	3.0%
Li	8971633	11.8	12.0	1.7%	8971634	13.2	13.1	0.8%	8971645	11.8	11.9	0.8%	8971647	14.1	14.5	2.8%
Mg	8971633	2.96	3.00	1.3%	8971634	3.18	3.12	1.9%	8971645	2.48	2.53	2.0%	8971647	3.02	3.11	2.9%
Mn	8971633	1130	1110	1.8%	8971634	1130	1110	1.8%	8971645	1300	1330	2.3%	8971647	1300	1350	3.8%
Mo	8971622	1.11	1.05	5.6%	8971633	1.34	1.23	8.6%	8971634	1.46	1.42	2.8%	8971645	1.03	1.02	1.0%
Na	8971633	2.40	2.36	1.7%	8971634	2.27	2.24	1.3%	8971645	2.56	2.62	2.3%	8971647	2.38	2.47	3.7%
Nb	8971622	5.1	4.5	12.5%	8971633	5.0	4.4	12.8%	8971634	4.34	4.46	2.7%	8971645	5.35	5.28	1.3%
Ni	8971633	37.4	37.1	0.8%	8971634	42.0	40.9	2.7%	8971645	22.1	22.5	1.8%	8971647	22.1	22.6	2.2%
P	8971633	278	281	1.1%	8971634	311	305	1.9%	8971645	352	365	3.6%	8971647	370	372	0.5%
Pb	8971622	1.2	1.1	8.7%	8971633	1.9	2.2	14.6%	8971634	2.3	2.3	0.0%	8971645	2.58	1.94	28.3%
Rb	8971622	23.3	20.9	10.9%	8971633	15.9	15.2	4.5%	8971634	16.5	16.8	1.8%	8971645	27.8	28.1	1.1%
Re	8971622	0.0037	0.0031	17.6%	8971633	0.003	0.003	0.0%	8971634	0.002	0.003		8971645	0.0031	0.0039	22.9%
S	8971633	0.15	0.14	6.9%	8971634	1.14	1.07	6.3%	8971645	0.157	0.150	4.6%	8971647	0.201	0.261	26.0%
Sb	8971622	0.05	0.05	0.0%	8971633	0.26	0.25	3.9%	8971634	0.32	0.33	3.1%	8971645	0.27	0.27	0.0%
Sc	8971633	25.1	24.7	1.6%	8971634	28.3	27.7	2.1%	8971645	28.1	29.0	3.2%	8971647	25.6	26.2	2.3%
Se	8971622	0.73	0.63	14.7%	8971633	0.55	0.52	5.6%	8971634	1.5	1.4	6.9%	8971645	0.8	0.7	13.3%
Sn	8971622	2.2	2.1	4.7%	8971633	1.7	1.6	6.1%	8971634	2.70	2.78	2.9%	8971645	1.5	1.5	0.0%
Sr	8971633	151	149	1.3%	8971634	161	152	5.8%	8971645	156	162	3.8%	8971647	59.9	62.7	4.6%
Ta	8971622	0.41	0.35	15.8%	8971633	0.312	0.283	9.7%	8971634	0.35	0.37	5.6%	8971645	0.30	0.25	18.2%
Te	8971622	0.02	0.01		8971633	0.02	0.02	0.0%	8971634	0.10	0.13	26.1%	8971645	0.01	0.01	0.0%
Th	8971622	1.64	1.87	13.1%	8971633	1.87	1.81	3.3%	8971634	1.67	1.75	4.7%	8971645	1.44	1.37	5.0%
Tl	8971622	0.06	0.06	0.0%	8971633	0.06	0.06	0.0%	8971634	0.08	0.08	0.0%	8971645	0.15	0.15	0.0%
U	8971622	0.456	0.466	2.2%	8971633	0.472	0.435	8.2%	8971634	0.471	0.491	4.2%	8971645	0.353	0.348	1.4%
V	8971633	276	273	1.1%	8971634	324	316	2.5%	8971645	309	321	3.8%	8971647	291	299	2.7%
W	8971622	0.86	0.84	2.4%	8971633	0.7	0.7	0.0%	8971634	1.15	1.14	0.9%	8971645	0.30	0.23	26.4%
Y	8971622	19.4	17.6	9.7%	8971633	18.2	17.2	5.6%	8971634	16.3	16.3	0.0%	8971645	20.5	20.7	1.0%
Zn	8971633	78.6	76.0	3.4%	8971634	78.8	79.2	0.5%	8971645	106	108	1.9%	8971647	122	122	0.0%
Zr	8971622	37.0	36.0	2.7%	8971633	32.6	29.9	8.6%	8971634	32.6	30.7	6.0%	8971645	30.8	28.7	7.1%
Hg	8971622	0.03	0.03	0.0%	8971633	0.02	0.01		8971634	0.02	0.01		8971645	0.04	0.04	0.0%

AGAT Laboratories

Quality Assurance - Replicate

AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

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ATTENTION TO: ALAN SMITH, STEPHEN ROACH

	REPLICATE #9				REPLICATE #10				REPLICATE #11				REPLICATE #12			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Ag	8971647	0.20	0.20	0.0%	8971652	0.11	0.14	24.0%	8971657	0.173	0.153	12.3%	8971663	0.25	0.23	8.3%
Al	8971652	7.57	7.44	1.7%	8971657	7.27	7.65	5.1%	8971663	2.74	2.84	3.6%	8971669	2.92	3.04	4.0%
As	8971647	9.2	11.6		8971652	20.5	17.4	16.4%	8971657	28.5	32.5	13.1%	8971663	62.4	61.7	1.1%
Ba	8971652	237	232	2.1%	8971657	153	160	4.5%	8971663	59	62	5.0%	8971669	60	62	3.3%
Be	8971647	2.87	2.65	8.0%	8971652	2.66	2.26	16.3%	8971657	2.03	2.15	5.7%	8971663	1.75	1.88	7.2%
Bi	8971647	0.03	0.03	0.0%	8971652	0.03	0.04	28.6%	8971657	0.02	0.02	0.0%	8971663	0.132	0.148	11.4%
Ca	8971652	3.62	3.54	2.2%	8971657	3.54	3.69	4.1%	8971663	5.71	6.04	5.6%	8971669	4.62	4.77	3.2%
Cd	8971647	0.03	0.03	0.0%	8971652	0.04	0.04	0.0%	8971657	0.034	0.036	5.7%	8971663	0.083	0.064	25.9%
Ce	8971647	17.4	17.8	2.3%	8971652	33.3	34.0	2.1%	8971657	30.0	30.9	3.0%	8971663	33.7	34.4	2.1%
Co	8971647	58.4	73.0	22.2%	8971652	56.3	46.4	19.3%	8971657	38.0	49.0	25.3%	8971663	79.0	80.4	1.8%
Cr	8971652	7.58	6.11	21.5%	8971657	7.89	7.32	7.5%	8971663	670	699	4.2%	8971669	844	878	3.9%
Cs	8971647	0.136	0.124	9.2%	8971652	0.207	0.201	2.9%	8971657	0.09	0.09	0.0%	8971663	0.615	0.633	2.9%
Cu	8971652	44.6	41.2	7.9%	8971657	27.5	23.4	16.1%	8971663	62.3	61.6	1.1%	8971669	118	124	5.0%
Fe	8971652	7.70	7.55	2.0%	8971657	6.66	6.95	4.3%	8971663	8.70	9.21	5.7%	8971669	9.46	9.76	3.1%
Ga	8971647	18.6	17.7	5.0%	8971652	18.8	18.3	2.7%	8971657	18.2	19.5	6.9%	8971663	8.50	8.76	3.0%
Ge	8971647	0.270	0.253	6.5%	8971652	0.13	0.15	14.3%	8971657	0.11	0.12	8.7%	8971663	0.436	0.414	5.2%
Hf	8971647	0.73	0.76	4.0%	8971652	3.3	2.4		8971657	2.7	2.7	0.0%	8971663	1.60	1.66	3.7%
In	8971647	0.048	0.047	2.1%	8971652	0.053	0.061	14.0%	8971657	0.0304	0.0315	3.6%	8971663	0.0359	0.0367	2.2%
K	8971652	0.37	0.37	0.0%	8971657	0.36	0.37	2.7%	8971663	0.45	0.46	2.2%	8971669	0.61	0.63	3.2%
La	8971647	7.3	7.4	1.4%	8971652	13.8	14.5	4.9%	8971657	13.1	13.5	3.0%	8971663	14.2	14.8	4.1%
Li	8971652	6.96	6.78	2.6%	8971657	4.14	4.26	2.9%	8971663	7.32	7.76	5.8%	8971669	15.5	16.7	7.5%
Mg	8971652	1.98	1.96	1.0%	8971657	2.07	2.15	3.8%	8971663	7.95	8.41	5.6%	8971669	8.55	8.84	3.3%
Mn	8971652	1100	1070	2.8%	8971657	1320	1390	5.2%	8971663	1710	1810	5.7%	8971669	1510	1580	4.5%
Mo	8971647	1.02	0.833	20.2%	8971652	1.63	1.48	9.6%	8971657	2.01	1.72	15.5%	8971663	0.732	0.792	7.9%
Na	8971652	3.70	3.60	2.7%	8971657	4.21	4.43	5.1%	8971663	< 0.01	< 0.01	0.0%	8971669	0.02	0.02	0.0%
Nb	8971647	5.3	5.7	7.3%	8971652	6.8	4.6		8971657	5.1	5.3	3.8%	8971663	2.7	2.9	7.1%
Ni	8971652	30.9	29.6	4.3%	8971657	34.9	37.6	7.4%	8971663	693	706	1.9%	8971669	842	856	1.6%
P	8971652	454	451	0.7%	8971657	481	512	6.2%	8971663	427	443	3.7%	8971669	421	451	6.9%
Pb	8971647	0.9	1.6		8971652	1.7	2.4		8971657	2.0	1.3		8971663	1.4	1.5	6.9%
Rb	8971647	6.6	6.4	3.1%	8971652	10.9	10.6	2.8%	8971657	9.3	9.4	1.1%	8971663	18.6	19.3	3.7%
Re	8971647	< 0.002	0.003		8971652	< 0.002	< 0.002	0.0%	8971657	< 0.002	0.003		8971663	0.0038	0.0030	23.5%
S	8971652	0.099	0.092	7.3%	8971657	0.16	0.15	6.5%	8971663	0.44	0.46	4.4%	8971669	0.853	0.885	3.7%

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ATTENTION TO: ALAN SMITH, STEPHEN ROACH

Sb	8971647	0.11	0.11	0.0%	8971652	0.127	0.114	10.8%	8971657	0.119	0.127	6.5%	8971663	0.52	0.29	
Sc	8971652	22.3	22.0	1.4%	8971657	21.0	22.7	7.8%	8971663	18.7	19.7	5.2%	8971669	17.0	17.7	4.0%
Se	8971647	0.9	0.9	0.0%	8971652	0.57	0.50	13.1%	8971657	< 0.5	< 0.5	0.0%	8971663	< 0.5	< 0.5	0.0%
Sn	8971647	0.9	0.9	0.0%	8971652	1.82	1.88	3.2%	8971657	1.5	1.5	0.0%	8971663	0.70	0.78	10.8%
Sr	8971652	177	178	0.6%	8971657	158	168	6.1%	8971663	137	144	5.0%	8971669	128	136	6.1%
Ta	8971647	0.26	0.35	29.5%	8971652	0.44	0.34		8971657	0.330	0.339	2.7%	8971663	0.10	0.12	18.2%
Te	8971647	0.014	0.016	13.3%	8971652	0.02	< 0.01		8971657	0.02	0.02	0.0%	8971663	0.029	0.037	24.2%
Th	8971647	0.990	0.972	1.8%	8971652	2.72	2.53	7.2%	8971657	2.23	2.36	5.7%	8971663	1.16	1.20	3.4%
Tl	8971647	0.02	0.02	0.0%	8971652	0.04	0.04	0.0%	8971657	0.03	0.03	0.0%	8971663	0.112	0.119	6.1%
U	8971647	0.266	0.273	2.6%	8971652	0.720	0.573	22.7%	8971657	0.515	0.577	11.4%	8971663	0.212	0.217	2.3%
V	8971652	181	175	3.4%	8971657	180	194	7.5%	8971663	146	153	4.7%	8971669	155	162	4.4%
W	8971647	0.69	0.88	24.2%	8971652	0.7	0.2		8971657	1.1	1.1	0.0%	8971663	0.8	0.9	11.8%
Y	8971647	17.5	17.0	2.9%	8971652	9.86	9.54	3.3%	8971657	5.13	5.47	6.4%	8971663	5.03	5.22	3.7%
Zn	8971652	74.3	72.1	3.0%	8971657	46.7	46.4	0.6%	8971663	65.4	70.4	7.4%	8971669	82.2	86.8	5.4%
Zr	8971647	26.7	27.3	2.2%	8971652	117	99.7	16.0%	8971657	95.2	94.2	1.1%	8971663	59.8	60.8	1.7%
Hg	8971647	0.02	0.02	0.0%	8971652	0.02	0.02	0.0%	8971657	0.02	0.02	0.0%	8971663	0.03	0.02	
	REPLICATE #13				REPLICATE #14				REPLICATE #15				REPLICATE #16			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Ag	8971669	0.09	0.19		8971672	0.55	0.13		8971681	0.27	0.27	0.0%	8971688	0.21	0.19	10.0%
Al	8971672	2.69	2.66	1.1%	8971681	2.90	3.04	4.7%	8971688	7.45	7.45	0.0%	8971705	6.66	6.59	1.1%
As	8971669	431	453	5.0%	8971672	784	802	2.3%	8971681	1050	1070	1.9%	8971688	123	105	15.8%
Ba	8971672	59	60	1.7%	8971681	45	48	6.5%	8971688	311	312	0.3%	8971705	222	222	0.0%
Be	8971669	1.31	1.39	5.9%	8971672	1.45	1.42	2.1%	8971681	0.863	0.929	7.4%	8971688	1.91	1.89	1.1%
Bi	8971669	0.10	0.14		8971672	0.156	0.154	1.3%	8971681	0.18	0.18	0.0%	8971688	0.09	0.10	10.5%
Ca	8971672	5.81	5.65	2.8%	8971681	7.56	7.77	2.7%	8971688	3.40	3.44	1.2%	8971705	3.06	3.00	2.0%
Cd	8971669	0.068	0.077	12.4%	8971672	0.09	0.09	0.0%	8971681	0.16	0.15	6.5%	8971688	0.05	0.06	18.2%
Ce	8971669	36.6	41.0	11.3%	8971672	33.1	33.0	0.3%	8971681	38.3	39.5	3.1%	8971688	64.2	65.5	2.0%
Co	8971669	108	106	1.9%	8971672	90.9	94.8	4.2%	8971681	79.6	80.8	1.5%	8971688	22.4	22.5	0.4%
Cr	8971672	929	949	2.1%	8971681	668	697	4.2%	8971688	19.6	18.4	6.3%	8971705	26.7	22.4	17.5%
Cs	8971669	0.555	0.558	0.5%	8971672	0.64	0.68	6.1%	8971681	0.24	0.25	4.1%	8971688	0.732	0.749	2.3%
Cu	8971672	171	147	15.1%	8971681	127	131	3.1%	8971688	2.23	2.92	26.8%	8971705	129	126	2.4%
Fe	8971672	9.35	9.23	1.3%	8971681	8.71	9.06	3.9%	8971688	6.65	6.72	1.0%	8971705	5.55	5.51	0.7%
Ga	8971669	10.2	9.96	2.4%	8971672	8.34	8.55	2.5%	8971681	8.85	9.25	4.4%	8971688	16.8	17.0	1.2%
Ge	8971669	0.433	0.423	2.3%	8971672	0.46	0.46	0.0%	8971681	0.493	0.497	0.8%	8971688	0.248	0.239	3.7%

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Hf	8971669	1.5	1.6	6.5%	8971672	1.5	1.5	0.0%	8971681	2.0	2.0	0.0%	8971688	2.73	2.78	1.8%
In	8971669	0.043	0.043	0.0%	8971672	0.0412	0.0392	5.0%	8971681	0.0404	0.0408	1.0%	8971688	0.0541	0.0557	2.9%
K	8971672	0.710	0.717	1.0%	8971681	0.474	0.501	5.5%	8971688	2.50	2.51	0.4%	8971705	1.29	1.29	0.0%
La	8971669	15.7	17.3	9.7%	8971672	13.9	14.0	0.7%	8971681	15.6	16.3	4.4%	8971688	25.3	25.9	2.3%
Li	8971672	16.6	16.4	1.2%	8971681	14.5	15.0	3.4%	8971688	14.3	14.3	0.0%	8971705	6.83	6.89	0.9%
Mg	8971672	9.64	9.50	1.5%	8971681	6.50	6.78	4.2%	8971688	3.77	3.78	0.3%	8971705	2.55	2.52	1.2%
Mn	8971672	1710	1690	1.2%	8971681	1500	1570	4.6%	8971688	832	833	0.1%	8971705	775	773	0.3%
Mo	8971669	1.10	1.09	0.9%	8971672	0.98	1.46		8971681	1.12	0.88	24.0%	8971688	1.90	1.78	6.5%
Na	8971672	0.056	0.053	5.5%	8971681	0.02	0.02	0.0%	8971688	0.904	0.912	0.9%	8971705	2.67	2.63	1.5%
Nb	8971669	1.1	1.2	8.7%	8971672	1.0	1.5		8971681	1.2	1.2	0.0%	8971688	6.89	7.26	5.2%
Ni	8971672	875	873	0.2%	8971681	563	610	8.0%	8971688	39.6	40.2	1.5%	8971705	63.8	62.4	2.2%
P	8971672	409	406	0.7%	8971681	407	433	6.2%	8971688	334	333	0.3%	8971705	294	285	3.1%
Pb	8971669	2.8	3.4	19.4%	8971672	2.00	2.07	3.4%	8971681	1.82	1.74	4.5%	8971688	2.0	2.1	4.9%
Rb	8971669	25.7	25.2	2.0%	8971672	29.1	30.2	3.7%	8971681	18.8	19.3	2.6%	8971688	86.9	87.8	1.0%
Re	8971669	0.0028	0.0035	22.2%	8971672	0.0021	0.0026	21.3%	8971681	< 0.002	0.002		8971688	0.004	< 0.002	
S	8971672	1.39	1.38	0.7%	8971681	3.29	3.47	5.3%	8971688	0.88	0.89	1.1%	8971705	1.49	1.54	3.3%
Sb	8971669	0.20	0.22	9.5%	8971672	0.396	0.389	1.8%	8971681	0.694	0.713	2.7%	8971688	0.27	0.27	0.0%
Sc	8971672	20.7	20.3	2.0%	8971681	23.8	25.6	7.3%	8971688	17.7	17.5	1.1%	8971705	18.7	17.8	4.9%
Se	8971669	< 0.5	< 0.5	0.0%	8971672	< 0.5	< 0.5	0.0%	8971681	< 0.5	< 0.5	0.0%	8971688	< 0.5	< 0.5	0.0%
Sn	8971669	0.3	0.4	28.6%	8971672	0.33	0.37	11.4%	8971681	0.4	0.4	0.0%	8971688	2.03	2.33	13.8%
Sr	8971672	189	186	1.6%	8971681	181	195	7.4%	8971688	116	117	0.9%	8971705	129	130	0.8%
Ta	8971669	0.05	0.06	18.2%	8971672	0.06	0.09		8971681	0.06	0.07	15.4%	8971688	0.477	0.486	1.9%
Te	8971669	0.08	0.11		8971672	0.21	0.18	15.4%	8971681	0.350	0.427	19.8%	8971688	0.21	0.19	10.0%
Th	8971669	1.30	1.39	6.7%	8971672	1.12	1.17	4.4%	8971681	1.20	1.20	0.0%	8971688	2.36	2.48	5.0%
Tl	8971669	0.135	0.139	2.9%	8971672	0.164	0.180	9.3%	8971681	0.093	0.096	3.2%	8971688	0.436	0.433	0.7%
U	8971669	0.232	0.256	9.8%	8971672	0.204	0.224	9.3%	8971681	0.257	0.257	0.0%	8971688	0.540	0.563	4.2%
V	8971672	142	142	0.0%	8971681	152	163	7.0%	8971688	136	135	0.7%	8971705	163	155	5.0%
W	8971669	1.2	1.5	22.2%	8971672	2.5	2.7	7.7%	8971681	3.52	3.78	7.1%	8971688	17.9	17.4	2.8%
Y	8971669	5.35	5.41	1.1%	8971672	3.8	3.9	2.6%	8971681	4.40	4.49	2.0%	8971688	5.72	5.79	1.2%
Zn	8971672	83.8	83.7	0.1%	8971681	77.9	82.2	5.4%	8971688	65.8	66.5	1.1%	8971705	38.0	37.3	1.9%
Zr	8971669	55.3	61.6	10.8%	8971672	53.6	52.1	2.8%	8971681	68.9	67.3	2.3%	8971688	74.8	79.9	6.6%
Hg	8971669	< 0.01	0.02		8971672	0.02	0.03		8971681	< 0.01	0.03		8971688	0.02	0.01	
	REPLICATE #17				REPLICATE #18				REPLICATE #19				REPLICATE #20			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD

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Ag	8971705	0.33	0.50		8971706	0.27	0.37		8971717	0.23	0.16		8971722	0.205	0.238	14.9%
Al	8971706	3.67	3.51	4.5%	8971717	6.13	6.58	7.1%	8971722	6.96	7.21	3.5%	8971724	7.13	7.38	3.4%
As	8971705	107	88.4	19.0%	8971706	149	150	0.7%	8971717	138	150	8.3%	8971722	2.05	2.23	8.4%
Ba	8971706	165	159	3.7%	8971717	246	265	7.4%	8971722	272	284	4.3%	8971724	183	187	2.2%
Be	8971693	0.35	0.40	13.3%	8971697	1.98	2.11	6.4%	8971705	1.72	1.65	4.2%	8971706	1.15	1.12	2.6%
Bi	8971705	0.137	0.155	12.3%	8971706	0.326	0.265	20.6%	8971717	0.01	0.01	0.0%	8971722	0.04	0.04	0.0%
Ca	8971706	3.57	3.50	2.0%	8971717	5.46	5.82	6.4%	8971722	5.06	5.25	3.7%	8971724	5.55	5.70	2.7%
Cd	8971705	0.065	0.052	22.2%	8971706	0.03	0.03	0.0%	8971717	0.05	0.08		8971722	0.19	0.19	0.0%
Ce	8971705	24.1	26.9	11.0%	8971706	25.4	27.4	7.6%	8971717	46.6	47.6	2.1%	8971722	36.7	37.4	1.9%
Co	8971705	29.5	32.6	10.0%	8971706	37.7	37.9	0.5%	8971717	52.6	58.0	9.8%	8971722	51.8	53.5	3.2%
Cr	8971706	136	118	14.2%	8971717	251	257	2.4%	8971722	75.3	79.1	4.9%	8971724	72.5	74.2	2.3%
Cs	8971705	0.47	0.48	2.1%	8971706	0.30	0.31	3.3%	8971717	0.17	0.17	0.0%	8971722	1.85	1.86	0.5%
Cu	8971706	11.0	12.2	10.3%	8971717	5.52	5.33	3.5%	8971722	128	133	3.8%	8971724	124	126	1.6%
Fe	8971706	4.84	4.75	1.9%	8971717	6.11	6.52	6.5%	8971722	10.1	10.4	2.9%	8971724	9.73	9.97	2.4%
Ga	8971705	13.6	14.9	9.1%	8971706	9.68	9.90	2.2%	8971717	12.8	13.9	8.2%	8971722	17.6	18.2	3.4%
Ge	8971705	0.117	0.100	15.7%	8971706	0.252	0.245	2.8%	8971717	0.374	0.378	1.1%	8971722	0.537	0.465	14.4%
Hf	8971705	1.53	1.65	7.5%	8971706	1.2	1.3	8.0%	8971717	1.6	1.7	6.1%	8971722	3.6	3.6	0.0%
In	8971705	0.0401	0.0448	11.1%	8971706	0.0340	0.0302	11.8%	8971717	0.043	0.046	6.7%	8971722	0.0882	0.0873	1.0%
K	8971706	1.03	0.98	5.0%	8971717	1.18	1.27	7.3%	8971722	1.49	1.54	3.3%	8971724	0.660	0.685	3.7%
La	8971705	10.5	11.3	7.3%	8971706	11.3	11.9	5.2%	8971717	19.9	20.0	0.5%	8971722	15.0	15.2	1.3%
Li	8971706	8.6	8.3	3.6%	8971717	11.6	12.6	8.3%	8971722	7.0	7.3	4.2%	8971724	5.2	5.2	0.0%
Mg	8971706	1.75	1.68	4.1%	8971717	4.51	4.87	7.7%	8971722	3.26	3.35	2.7%	8971724	3.03	3.12	2.9%
Mn	8971706	596	571	4.3%	8971717	1080	1180	8.8%	8971722	1790	1860	3.8%	8971724	1630	1670	2.4%
Mo	8971705	2.07	2.06	0.5%	8971706	4.53	3.60	22.9%	8971717	2.17	2.47	12.9%	8971722	1.76	1.75	0.6%
Na	8971706	0.776	0.753	3.0%	8971717	1.27	1.35	6.1%	8971722	1.67	1.75	4.7%	8971724	1.98	2.03	2.5%
Nb	8971705	3.03	3.10	2.3%	8971706	1.7	1.9	11.1%	8971717	1.4	1.4	0.0%	8971722	6.5	7.4	12.9%
Ni	8971706	86.1	82.3	4.5%	8971717	241	265	9.5%	8971722	57.0	59.6	4.5%	8971724	56.0	56.7	1.2%
P	8971706	78	77	1.3%	8971717	433	470	8.2%	8971722	790	808	2.3%	8971724	776	787	1.4%
Pb	8971705	3.0	3.8	23.5%	8971706	2.5	3.1	21.4%	8971717	4.25	4.21	0.9%	8971722	4.1	4.4	7.1%
Rb	8971705	48.6	50.8	4.4%	8971706	35.5	36.5	2.8%	8971717	37.9	40.4	6.4%	8971722	84.4	85.8	1.6%
Re	8971705	< 0.002	0.003		8971706	0.004	0.003	28.6%	8971717	< 0.002	0.003		8971722	0.004	0.004	0.0%
S	8971706	2.72	2.57	5.7%	8971717	0.093	0.103	10.2%	8971722	0.184	0.192	4.3%	8971724	0.294	0.309	5.0%
Sb	8971705	0.22	0.31		8971706	0.30	0.44		8971717	0.23	0.19	19.0%	8971722	0.13	0.15	14.3%
Sc	8971706	10.1	9.9	2.0%	8971717	20.5	22.6	9.7%	8971722	35.8	37.3	4.1%	8971724	35.5	35.9	1.1%

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ATTENTION TO: ALAN SMITH, STEPHEN ROACH

Se	8971705	< 0.5	< 0.5	0.0%	8971706	< 0.5	< 0.5	0.0%	8971717	< 0.5	< 0.5	0.0%	8971722	1.0	1.1	9.5%
Sn	8971705	2.3	2.0	14.0%	8971706	1.8	1.8	0.0%	8971717	3.34	3.62	8.0%	8971722	1.2	1.2	0.0%
Sr	8971706	70.8	68.4	3.4%	8971717	164	175	6.5%	8971722	208	217	4.2%	8971724	129	135	4.5%
Ta	8971705	0.28	0.29	3.5%	8971706	0.090	0.097	7.5%	8971717	0.09	0.09	0.0%	8971722	0.35	0.41	15.8%
Te	8971705	0.15	0.20	28.6%	8971706	0.48	0.35		8971717	0.01	0.02		8971722	< 0.01	0.02	
Th	8971705	2.56	2.87	11.4%	8971706	1.21	1.28	5.6%	8971717	1.89	1.93	2.1%	8971722	2.07	2.18	5.2%
Tl	8971705	0.233	0.255	9.0%	8971706	0.13	0.13	0.0%	8971717	0.12	0.13	8.0%	8971722	0.414	0.421	1.7%
U	8971705	0.537	0.603	11.6%	8971706	0.393	0.411	4.5%	8971717	0.514	0.539	4.7%	8971722	0.537	0.577	7.2%
V	8971706	83.5	81.2	2.8%	8971717	110	119	7.9%	8971722	289	299	3.4%	8971724	284	289	1.7%
W	8971705	8.7	9.1	4.5%	8971706	6.0	6.4	6.5%	8971717	4.9	5.1	4.0%	8971722	0.2	0.2	0.0%
Y	8971705	3.9	4.0	2.5%	8971706	11.3	11.7	3.5%	8971717	6.34	6.82	7.3%	8971722	33.2	34.3	3.3%
Zn	8971706	20.7	20.4	1.5%	8971717	54.8	58.9	7.2%	8971722	118	122	3.3%	8971724	105	107	1.9%
Zr	8971705	40.8	43.4	6.2%	8971706	38.3	44.0	13.9%	8971717	52.3	57.8	10.0%	8971722	119	123	3.3%
Hg	8971705	0.01	0.02		8971706	0.02	0.02	0.0%	8971717	< 0.01	< 0.01	0.0%	8971722	< 0.01	< 0.01	0.0%
	REPLICATE #21				REPLICATE #22				REPLICATE #23				REPLICATE #24			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Ag	8971724	0.15	0.32		8971729	0.19	0.24	23.3%	8971741	0.091	0.101	10.4%	8971747	0.193	0.184	4.8%
Al	8971729	3.80	3.67	3.5%	8971741	7.18	6.99	2.7%	8971747	5.93	5.37	9.9%				
As	8971724	8.63	9.65	11.2%	8971729	4.5	4.5	0.0%	8971741	7.5	9.1	19.3%	8971747	27.0	23.2	15.1%
Ba	8971729	270	262	3.0%	8971741	64	63	1.6%	8971747	245	222	9.9%				
Be	8971717	1.44	1.63	12.4%	8971722	2.50	2.53	1.2%	8971724	2.71	2.70	0.4%	8971729	1.33	1.40	5.1%
Bi	8971724	0.06	0.05	18.2%	8971729	0.01	0.03		8971741	0.013	0.015	14.3%	8971747	0.03	0.03	0.0%
Ca	8971729	5.54	5.41	2.4%	8971741	5.62	5.58	0.7%	8971747	6.85	7.23	5.4%				
Cd	8971724	0.132	0.158	17.9%	8971729	0.100	0.108	7.7%	8971741	< 0.02	< 0.02	0.0%	8971747	< 0.02	< 0.02	0.0%
Ce	8971724	41.7	42.3	1.4%	8971729	10.3	10.1	2.0%	8971741	50.5	50.5	0.0%	8971747	53.8	49.5	8.3%
Co	8971724	51.1	53.4	4.4%	8971729	4.63	4.56	1.5%	8971741	27.0	31.4	15.1%	8971747	81.8	70.4	15.0%
Cr	8971729	48.3	49.5	2.5%	8971741	< 0.5	1.2		8971747	591	530	10.9%				
Cs	8971724	1.94	2.08	7.0%	8971729	0.164	0.165	0.6%	8971741	0.066	0.064	3.1%	8971747	2.45	2.38	2.9%
Cu	8971729	1.39	1.20	14.7%	8971741	3.81	3.12	19.9%	8971747	11.5	12.2	5.9%				
Fe	8971729	4.63	4.55	1.7%	8971741	7.00	6.97	0.4%	8971747	9.86	9.04	8.7%				
Ga	8971724	18.6	19.3	3.7%	8971729	13.0	12.7	2.3%	8971741	16.5	17.1	3.6%	8971747	17.2	16.2	6.0%
Ge	8971724	0.396	0.369	7.1%	8971729	0.531	0.472	11.8%	8971741	0.32	0.31	3.2%	8971747	0.547	0.490	11.0%
Hf	8971724	3.8	3.8	0.0%	8971729	1.5	1.4	6.9%	8971741	2.0	2.1	4.9%	8971747	2.5	2.3	8.3%
In	8971724	0.086	0.087	1.2%	8971729	0.028	0.029	3.5%	8971741	0.049	0.049	0.0%	8971747	0.018	0.019	5.4%

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K	8971729	1.08	1.04	3.8%	8971741	0.22	0.21	4.7%	8971747	1.25	1.10	12.8%				
La	8971724	17.3	17.4	0.6%	8971729	4.3	4.3	0.0%	8971741	19.8	19.6	1.0%	8971747	19.3	17.7	8.6%
Li	8971729	8.16	7.89	3.4%	8971741	12.6	12.3	2.4%	8971747	28.9	26.0	10.6%				
Mg	8971729	3.38	3.29	2.7%	8971741	2.47	2.41	2.5%	8971747	5.06	4.51	11.5%				
Mn	8971729	1160	1140	1.7%	8971741	627	619	1.3%	8971747	1050	977	7.2%				
Mo	8971724	1.99	2.07	3.9%	8971729	2.52	2.84	11.9%	8971741	0.554	0.587	5.8%	8971747	0.52	0.57	9.2%
Na	8971729	0.47	0.46	2.2%	8971741	2.80	2.80	0.0%	8971747	0.09	0.11	20.0%				
Nb	8971724	7.48	7.44	0.5%	8971729	5.0	5.5	9.5%	8971741	2.43	2.61	7.1%	8971747	12.0	9.4	24.3%
Ni	8971729	19.6	19.6	0.0%	8971741	11.6	10.2	12.8%	8971747	578	519	10.8%				
P	8971729	162	163	0.6%	8971741	750	700	6.9%	8971747	743	644	14.3%				
Pb	8971724	4.5	4.5	0.0%	8971729	2.76	2.54	8.3%	8971741	1.4	0.9		8971747	0.9	1.0	10.5%
Rb	8971724	37.4	39.4	5.2%	8971729	33.5	33.2	0.9%	8971741	5.5	5.5	0.0%	8971747	86.2	79.0	8.7%
Re	8971724	0.0039	0.0033	16.7%	8971729	< 0.002	< 0.002	0.0%	8971741	< 0.002	< 0.002	0.0%	8971747	< 0.002	< 0.002	0.0%
S	8971729	0.07	0.07	0.0%	8971741	0.09	0.10	10.5%	8971747	0.23	0.20	14.0%				
Sb	8971724	0.216	0.213	1.4%	8971729	0.16	0.17	6.1%	8971741	0.093	0.096	3.2%	8971747	0.205	0.196	4.5%
Sc	8971729	11.8	11.6	1.7%	8971741	23.7	22.4	5.6%	8971747	29.2	26.9	8.2%				
Se	8971724	1.1	1.1	0.0%	8971729	< 0.5	< 0.5	0.0%	8971741	< 0.5	< 0.5	0.0%	8971747	0.54	0.59	8.8%
Sn	8971724	1.22	1.30	6.3%	8971729	3.3	3.3	0.0%	8971741	8.3	8.5	2.4%	8971747	6.90	6.22	10.4%
Sr	8971729	107	106	0.9%	8971741	117	118	0.9%	8971747	34.7	35.1	1.1%				
Ta	8971724	0.44	0.44	0.0%	8971729	0.15	0.23		8971741	0.144	0.166	14.2%	8971747	0.69	0.54	24.4%
Te	8971724	0.03	0.02		8971729	< 0.01	0.03		8971741	0.01	< 0.01		8971747	0.05	0.05	0.0%
Th	8971724	2.91	2.96	1.7%	8971729	1.33	1.29	3.1%	8971741	2.09	1.97	5.9%	8971747	2.33	2.16	7.6%
Tl	8971724	0.236	0.234	0.9%	8971729	0.09	0.09	0.0%	8971741	0.01	0.01	0.0%	8971747	0.365	0.328	10.7%
U	8971724	0.727	0.721	0.8%	8971729	0.465	0.421	9.9%	8971741	0.991	0.976	1.5%	8971747	0.644	0.590	8.8%
V	8971729	78.5	78.8	0.4%	8971741	194	181	6.9%	8971747	199	181	9.5%				
W	8971724	0.5	0.5	0.0%	8971729	49.2	55.5	12.0%	8971741	2.43	2.69	10.2%	8971747	1.1	0.8	
Y	8971724	32.4	34.1	5.1%	8971729	17.0	16.9	0.6%	8971741	18.5	18.9	2.1%	8971747	23.0	20.2	13.0%
Zn	8971729	29.4	29.6	0.7%	8971741	38.2	37.1	2.9%	8971747	42.4	38.2	10.4%				
Zr	8971724	124	130	4.7%	8971729	46.3	42.2	9.3%	8971741	72.2	76.1	5.3%	8971747	91.2	80.7	12.2%
Hg	8971724	< 0.01	< 0.01	0.0%	8971729	0.03	< 0.01		8971741	< 0.01	< 0.01	0.0%	8971747	< 0.01	< 0.01	0.0%
	REPLICATE #25				REPLICATE #26											
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD								
Be	8971741	1.85	1.75	5.6%	8971747	2.61	2.13	20.3%								

(202-551) Fire Assay - Trace Au, AAS finish (50g Charge)

AGAT Laboratories

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Quality Assurance - Replicate

AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

	REPLICATE #1				REPLICATE #2				REPLICATE #3				REPLICATE #4			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Au	8971609	< 0.002	< 0.002	0.0%	8971621	0.006	0.008	28.6%	8971622	< 0.002	0.003		8971633	0.004	< 0.002	
	REPLICATE #5				REPLICATE #6				REPLICATE #7				REPLICATE #8			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Au	8971645	< 0.002	< 0.002	0.0%	8971647	0.004	0.009		8971657	0.006	0.007	15.4%	8971669	0.018	0.019	5.4%
	REPLICATE #9				REPLICATE #10				REPLICATE #11				REPLICATE #12			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Au	8971672	0.0647	0.0581	10.7%	8971681	0.151	0.175	14.7%	8971693	0.442	0.507	13.7%	8971697	1.03	1.25	19.3%
	REPLICATE #13				REPLICATE #14				REPLICATE #15				REPLICATE #16			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Au	8971705	0.613	0.538	13.0%	8971717	< 0.002	0.003		8971722	< 0.002	< 0.002	0.0%	8971729	< 0.002	< 0.002	0.0%
	REPLICATE #17				REPLICATE #18											
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD								
Au	8971741	0.003	< 0.002		8971747	0.013	0.008									

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(201-089) 4 Acid Digest - Metals Package, ICP/ICP-MS finish with Hg-ICP-MS

	CRM #1 (ref.SY-4)				CRM #2 (ref.TILL-2)				CRM #3 (ref.SY-4)				CRM #4 (ref.SY-4)			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Al	10.95	11.14	102%	90% - 110%	8.17	8.85	108%	90% - 110%	10.95	11.03	101%	90% - 110%	10.95	11.44	104%	90% - 110%
As					26	26	101%	90% - 110%								
Ba	340	334	98%	90% - 110%	540	564	104%	90% - 110%	340	329	97%	90% - 110%	340	347	102%	90% - 110%
Be	2.6	2.8	106%	90% - 110%	4.0	4.4	110%	90% - 110%	2.6	2.5	95%	90% - 110%	2.6	2.8	109%	90% - 110%
Ca	5.72	5.56	97%	90% - 110%	0.907	0.937	103%	90% - 110%	5.72	5.44	95%	90% - 110%	5.72	5.63	98%	90% - 110%
Ce	122	127	104%	90% - 110%	98	89	90%	90% - 110%	122	111	91%	90% - 110%				
Co	2.8	2.6	92%	90% - 110%					2.8	2.7	95%	90% - 110%				
Cr					60.3	61.4	102%	90% - 110%								
Cs	1.5	1.5	98%	90% - 110%	12	11	88%	90% - 110%	1.5	1.4	96%	90% - 110%				
Cu	7	5	76%	90% - 110%	150	153	102%	90% - 110%					7	5	71%	90% - 110%
Fe	4.34	4.12	95%	90% - 110%	3.77	3.85	102%	90% - 110%	4.34	4.04	93%	90% - 110%	4.34	4.17	96%	90% - 110%
Ga	35	33	95%	90% - 110%					35	35	99%	90% - 110%				
K	1.37	1.41	103%	90% - 110%									1.37	1.49	109%	90% - 110%
La	58	54	93%	90% - 110%	44	40	91%	90% - 110%	58	54	94%	90% - 110%				
Li	37	39	105%	90% - 110%	47	51.0	109%	90% - 110%	37	39	105%	90% - 110%	37	41	110%	90% - 110%
Mg	0.325	0.311	96%	90% - 110%	1.10	1.18	108%	90% - 110%	0.325	0.31	95%	90% - 110%	0.325	0.322	99%	90% - 110%
Mn					780	824	106%	90% - 110%								
Mo					14	13	95%	90% - 110%								
Na	5.267	5.30	101%	90% - 110%	1.624	1.75	107%	90% - 110%	5.267	5.27	100%	90% - 110%	5.267	5.54	105%	90% - 110%
Nb	13	14	107%	90% - 110%	20	16	81%	90% - 110%	13	15	115%	90% - 110%				
Ni	9	7	77%	90% - 110%	32	35	109%	90% - 110%	9	7	77%	90% - 110%	9	7	76%	90% - 110%
Pb	10	11	109%	90% - 110%	31	31	102%	90% - 110%	10	9	94%	90% - 110%				
Rb	55	56	102%	90% - 110%	143	136	95%	90% - 110%	55	56	102%	90% - 110%				
Sb					0.8	0.6	73%	90% - 110%								
Sc	1.1	0.9	81%	90% - 110%	12	12.8	106%	90% - 110%								
Sr	1191	1204	101%	90% - 110%	144	156	108%	90% - 110%	1191	1196	100%	90% - 110%	1191	1286	108%	90% - 110%
Ta	0.9	1.1	120%	90% - 110%					0.9	0.9	99%	90% - 110%				
Th	1.4	1.2	84%	90% - 110%	18.4	17.4	94%	90% - 110%	1.4	1.2	84%	90% - 110%				
U	0.8	0.6	76%	90% - 110%	5.7	4.5	79%	90% - 110%	0.8	0.7	82%	90% - 110%				
V	8	7	89%	90% - 110%	77	83.1	108%	90% - 110%	8	7	85%	90% - 110%	8	8	95%	90% - 110%
W					5	4	87%	90% - 110%								

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Y	119	113	95%	90% - 110%					119	109	91%	90% - 110%				
Zn	93	88	94%	90% - 110%	130	132	102%	90% - 110%	93	86	92%	90% - 110%	93	91	98%	90% - 110%
	CRM #5 (ref.TILL-2)				CRM #6 (ref.SY-4)				CRM #7 (ref.TILL-2)				CRM #8 (ref.SY-4)			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Al									8.17	8.58	105%	90% - 110%	10.95	11.55	105%	90% - 110%
Ba									540	540	100%	90% - 110%	340	354	104%	90% - 110%
Be									4.0	4.2	105%	90% - 110%	2.6	2.9	111%	90% - 110%
Ca									0.907	0.913	101%	90% - 110%	5.72	5.68	99%	90% - 110%
Ce	98	95	97%	90% - 110%	122	122	100%	90% - 110%					122	129	106%	90% - 110%
Co					2.8	3	108%	90% - 110%					2.8	2.5	89%	90% - 110%
Cr									60.3	59.3	98%	90% - 110%				
Cs	12	10	87%	90% - 110%	1.5	1.5	100%	90% - 110%					1.5	1.6	106%	90% - 110%
Cu									150	148	98%	90% - 110%				
Fe									3.77	3.73	99%	90% - 110%	4.34	4.25	98%	90% - 110%
Ga					35	35	100%	90% - 110%					35	34	97%	90% - 110%
K													1.37	1.51	110%	90% - 110%
La	44	43	98%	90% - 110%	58	60	104%	90% - 110%					58	63	108%	90% - 110%
Li									47	49	105%	90% - 110%	37	40	108%	90% - 110%
Mg									1.10	1.15	104%	90% - 110%	0.325	0.352	108%	90% - 110%
Mn									780	794	102%	90% - 110%				
Mo	14	13	90%	90% - 110%												
Na									1.624	1.70	105%	90% - 110%	5.267	5.59	106%	90% - 110%
Nb	20	16	81%	90% - 110%	13	14	107%	90% - 110%					13	14	107%	90% - 110%
Ni									32	34	105%	90% - 110%	9	11	126%	90% - 110%
Pb	31	34	110%	90% - 110%	10	11	110%	90% - 110%					10	10	98%	90% - 110%
Rb	143	144	101%	90% - 110%	55	58	105%	90% - 110%					55	57	103%	90% - 110%
Sb	0.8	0.7	86%	90% - 110%												
Sc									12	12	99%	90% - 110%	1.1	1.3	118%	90% - 110%
Sr									144	149	104%	90% - 110%	1191	1289	108%	90% - 110%
Ta					0.9	0.9	98%	90% - 110%					0.9	1	109%	90% - 110%
Th	18.4	19.3	105%	90% - 110%	1.4	1.2	88%	90% - 110%					1.4	1.2	85%	90% - 110%
U	5.7	5	87%	90% - 110%	0.8	0.7	87%	90% - 110%								
V									77	79	102%	90% - 110%	8	8	104%	90% - 110%
W	5	5	92%	90% - 110%												

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CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

Y					119	112	94%	90% - 110%					119	112	94%	90% - 110%
Zn									130	120	92%	90% - 110%	93	92	99%	90% - 110%
	CRM #9 (ref.SY-4)				CRM #10 (ref.TILL-2)				CRM #11 (ref.SY-4)				CRM #12 (ref.TILL-2)			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Al	10.95	11.52	105%	90% - 110%									8.17	8.37	102%	90% - 110%
As					26	29	111%	90% - 110%								
Ba	340	352	104%	90% - 110%									540	529	98%	90% - 110%
Be	2.6	2.8	109%	90% - 110%									4.0	4.1	102%	90% - 110%
Ca	5.72	5.66	99%	90% - 110%									0.907	0.887	98%	90% - 110%
Ce					98	105	107%	90% - 110%	122	131	107%	90% - 110%				
Co									2.8	2.8	99%	90% - 110%				
Cr													60.3	53.7	89%	90% - 110%
Cs					12	12	99%	90% - 110%	1.5	1.6	108%	90% - 110%				
Cu	7	8	110%	90% - 110%									150	146	97%	90% - 110%
Fe	4.34	4.21	97%	90% - 110%									3.77	3.64	96%	90% - 110%
Ga									35	37	106%	90% - 110%				
K	1.37	1.48	108%	90% - 110%												
La					44	48	110%	90% - 110%	58	62	106%	90% - 110%				
Li	37	40	108%	90% - 110%									47	48	102%	90% - 110%
Mg	0.325	0.323	99%	90% - 110%									1.10	1.11	101%	90% - 110%
Mn													780	765	98%	90% - 110%
Mo					14	13	96%	90% - 110%								
Na	5.267	5.60	106%	90% - 110%									1.624	1.67	103%	90% - 110%
Nb					20	16	81%	90% - 110%	13	13	103%	90% - 110%				
Ni	9	8	86%	90% - 110%									32	33	103%	90% - 110%
Pb					31	31	101%	90% - 110%	10	10	104%	90% - 110%				
Rb					143	142	99%	90% - 110%	55	61	110%	90% - 110%				
Sb					0.8	0.7	82%	90% - 110%								
Sc	1.1	0.8	70%	90% - 110%									12	11	94%	90% - 110%
Sr	1191	1270	107%	90% - 110%									144	146	101%	90% - 110%
Ta					1.9	1.4	75%	90% - 110%	0.9	0.8	87%	90% - 110%				
Th					18.4	19.1	104%	90% - 110%	1.4	1.3	91%	90% - 110%				
U					5.7	4.9	86%	90% - 110%								
V	8	7	93%	90% - 110%									77	74	96%	90% - 110%

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Quality Assurance - Certified Reference materials

AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

W					5	5	91%	90% - 110%								
Y									119	117	98%	90% - 110%				
Zn	93	90	97%	90% - 110%									130	117	90%	90% - 110%
	CRM #13 (ref.SY-4)															
Parameter	Expect	Actual	Recovery	Limits												
Al	10.95	11.32	103%	90% - 110%												
Ba	340	346	102%	90% - 110%												
Be	2.6	2.8	109%	90% - 110%												
Ca	5.72	5.57	97%	90% - 110%												
Fe	4.34	4.15	96%	90% - 110%												
K	1.37	1.45	106%	90% - 110%												
Li	37	40	108%	90% - 110%												
Mg	0.325	0.318	98%	90% - 110%												
Na	5.267	5.54	105%	90% - 110%												
Ni	9	7	79%	90% - 110%												
Sr	1191	1244	104%	90% - 110%												
V	8	8	99%	90% - 110%												
Zn	93	91	98%	90% - 110%												

(202-551) Fire Assay - Trace Au, AAS finish (50g Charge)

	CRM #1 (ref.WW07)				CRM #2 (ref.WW07)				CRM #3 (ref.WW07)				CRM #4 (ref.WW07)			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Au	6.56	6.12	93%	90% - 110%	6.56	6.09	93%	90% - 110%	6.56	6.47	99%	90% - 110%	6.56	6.1	93%	90% - 110%
	CRM #5 (ref.GS45)				CRM #6 (ref.GS45)				CRM #7 (ref.GS45)							
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits				
Au	2.89	3	104%	90% - 110%	2.89	2.66	92%	90% - 110%	2.89	2.83	98%	90% - 110%				

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Method Summary

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12020		ICP-MS
Al	MIN-200-12020		ICP/OES
As	MIN-200-12020		ICP-MS
Ba	MIN-200-12020		ICP/OES
Be	MIN-200-12020		ICP-MS
Bi	MIN-200-12020		ICP-MS
Ca	MIN-200-12020		ICP/OES
Cd	MIN-200-12020		ICP-MS
Ce	MIN-200-12020		ICP-MS
Co	MIN-200-12020		ICP-MS
Cr	MIN-200-12020		ICP/OES
Cs	MIN-200-12020		ICP-MS
Cu	MIN-200-12020		ICP-MS
Fe	MIN-200-12020		ICP/OES
Ga	MIN-200-12020		ICP-MS
Ge	MIN-200-12020		ICP-MS
Hf	MIN-200-12020		ICP-MS
In	MIN-200-12020		ICP-MS
K	MIN-200-12020		ICP/OES
La	MIN-200-12020		ICP-MS
Li	MIN-200-12020		ICP-MS
Mg	MIN-200-12020		ICP/OES
Mn	MIN-200-12020		ICP/OES
Mo	MIN-200-12020		ICP-MS
Na	MIN-200-12020		ICP/OES
Nb	MIN-200-12020		ICP-MS
Ni	MIN-200-12020		ICP-MS
P	MIN-200-12020		ICP/OES
Pb	MIN-200-12020		ICP-MS
Rb	MIN-200-12020		ICP-MS
Re	MIN-200-12020		ICP-MS
S	MIN-200-12020		ICP/OES
Sb	MIN-200-12020		ICP-MS
Sc	MIN-200-12020		ICP-MS
Se	MIN-200-12020		ICP-MS
Sn	MIN-200-12020		ICP-MS
Sr	MIN-200-12020		ICP-MS
Ta	MIN-200-12020		ICP-MS
Te	MIN-200-12020		ICP-MS
Th	MIN-200-12020		ICP-MS
Tl	MIN-200-12020		ICP-MS
U	MIN-200-12020		ICP-MS
V	MIN-200-12020		ICP/OES
W	MIN-200-12020		ICP-MS
Y	MIN-200-12020		ICP-MS
Zn	MIN-200-12020		ICP/OES
Zr	MIN-200-12020		ICP-MS
Hg	MIN-200-12022		CVAAS

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Method Summary

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Total Gold	MIN-200-12004		ICP/OES
Plus (+) Fraction Weight	MIN-200-12004		ICP/OES
Minus (-) Fraction Weight	MIN-200-12004		ICP/OES
Au Assay (+) Fraction	MIN-200-12004		ICP/OES
Au Assay (-) Fraction	MIN-200-12004		ICP/OES
Au	MIN-200-12004	BUGBEE, E: A Textbook of Fire Assaying	AA

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CHESTER #1, MINE SITE, P.O. BOX 100
GOGAMA, ON P0M1W0
(705) 269-0010

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

PROJECT: Watershed East - 259

AGAT WORK ORDER: 17B294321

SOLID ANALYSIS REVIEWED BY: Kevin Motomura, Data Review Supervisor

DATE REPORTED: Jan 19, 2018

PAGES (INCLUDING COVER): 47

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.

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Certificate of Analysis

AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(200-) Sample Login Weight

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Jan 19, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Sample Login Weight
Unit:	kg
Sample ID (AGAT ID) RDL:	0.01
455815 (8971598)	2.18
455816 (8971599)	2.34
455817 (8971600)	1.72
455818 (8971601)	2.44
455819 (8971602)	2.10
455820 (8971603)	2.08
455821 (8971604)	1.12
455822 (8971605)	1.30
455823 (8971606)	2.38
455824 (8971607)	0.42
455825 (8971608)	2.34
455826 (8971609)	2.84
455827 (8971610)	2.08
455828 (8971611)	1.38
455829 (8971612)	2.22
455830 (8971613)	0.98
455831 (8971614)	2.18
455832 (8971615)	2.32
455833 (8971616)	2.64
455834 (8971617)	2.20
455835 (8971618)	1.86
455836 (8971619)	0.08
455837 (8971620)	2.18
455838 (8971621)	1.76
455839 (8971622)	2.84
455840 (8971623)	3.02
455841 (8971624)	1.82
455842 (8971625)	1.80
455843 (8971626)	2.72
455844 (8971627)	2.68
455845 (8971628)	2.06

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AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(200-) Sample Login Weight

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Jan 19, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Sample Login Weight
Unit:	kg
Sample ID (AGAT ID) RDL:	0.01
455846 (8971629)	1.92
455847 (8971630)	2.26
455848 (8971631)	0.42
455849 (8971632)	2.52
455850 (8971633)	3.02
455851 (8971634)	1.10
455852 (8971635)	2.48
455853 (8971636)	2.20
455854 (8971637)	3.76
455855 (8971638)	1.18
455856 (8971639)	2.26
455857 (8971640)	1.88
455858 (8971641)	1.90
455859 (8971642)	2.10
455860 (8971643)	0.80
455861 (8971644)	1.66
455862 (8971645)	0.94
455863 (8971646)	1.30
455864 (8971647)	1.96
455865 (8971648)	2.18
455866 (8971649)	2.54
455867 (8971650)	2.56
455868 (8971651)	2.56
455869 (8971652)	2.58
455870 (8971653)	2.74
455871 (8971654)	2.52
455872 (8971655)	0.36
455873 (8971656)	2.22
455874 (8971657)	1.34
455875 (8971658)	1.50
455876 (8971659)	0.74

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AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(200-) Sample Login Weight

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Jan 19, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Sample Login Weight
Unit:	kg
Sample ID (AGAT ID) RDL:	0.01
455877 (8971660)	0.56
455878 (8971661)	2.54
455879 (8971662)	2.88
455880 (8971663)	1.58
455881 (8971664)	2.68
455882 (8971665)	1.34
455883 (8971666)	1.42
455884 (8971667)	0.80
455885 (8971668)	2.52
455886 (8971669)	1.18
455887 (8971670)	1.28
455888 (8971671)	0.78
455889 (8971672)	0.78
455890 (8971673)	1.02
455891 (8971674)	1.04
455892 (8971675)	0.98
455893 (8971676)	1.08
455894 (8971677)	1.34
455895 (8971678)	1.34
455896 (8971679)	0.38
455897 (8971680)	2.20
455898 (8971681)	1.50
455899 (8971682)	1.02
455900 (8971683)	1.42
455901 (8971684)	1.38
455902 (8971685)	1.04
455903 (8971686)	0.96
455904 (8971687)	1.18
455905 (8971688)	0.86
455906 (8971689)	1.38
455907 (8971690)	1.82

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AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(200-) Sample Login Weight

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Jan 19, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Sample Login Weight
Unit:	kg
Sample ID (AGAT ID) RDL:	0.01
455908 (8971691)	1.42
455909 (8971692)	1.08
455910 (8971693)	0.86
455911 (8971694)	0.96
455912 (8971695)	0.08
455913 (8971696)	1.42
455914 (8971697)	1.12
455915 (8971698)	1.04
455916 (8971699)	1.24
455917 (8971700)	1.40
455918 (8971701)	1.18
455919/455920 (8971702)	1.08
455921 (8971704)	1.20
455922 (8971705)	1.66
455923 (8971706)	1.16
455924 (8971707)	0.34
455925 (8971708)	1.32
455926 (8971709)	1.06
455927 (8971710)	1.18
455928 (8971711)	1.06
455929 (8971712)	1.34
455930 (8971713)	1.34
455931 (8971714)	1.46
455932 (8971715)	2.06
455933 (8971716)	1.78
455934 (8971717)	1.32
455935 (8971718)	2.54
455936 (8971719)	0.08
455937 (8971720)	2.26
455938 (8971721)	3.22
455939 (8971722)	2.68

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AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(200-) Sample Login Weight

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Jan 19, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Sample Login Weight
Unit:	kg
Sample ID (AGAT ID) RDL:	0.01
455940 (8971723)	1.48
455941 (8971724)	1.28
455942 (8971725)	1.08
455943 (8971726)	1.32
455944 (8971727)	1.66
455945 (8971728)	1.30
455946 (8971729)	2.10
455947 (8971730)	1.98
455948 (8971731)	0.42
455949 (8971732)	3.08
455950 (8971733)	4.48
455951 (8971734)	2.30
455952 (8971735)	2.70
455953 (8971736)	2.66
455954 (8971737)	1.12
455955 (8971738)	2.44
455956 (8971739)	2.44
455957 (8971740)	2.30
455958 (8971741)	2.34
455959 (8971742)	1.62
455960 (8971743)	0.08
455961 (8971744)	2.86
455962 (8971745)	2.52
455963 (8971746)	1.18
455964 (8971747)	1.70
455965 (8971748)	2.58
455966 (8971749)	2.84
455967 (8971750)	1.38
455968 (8971751)	1.22

Comments: RDL - Reported Detection Limit

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AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-089) 4 Acid Digest - Metals Package, ICP/ICP-MS finish with Hg-ICP-MS

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Jan 19, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
Sample ID (AGAT ID) RDL:	0.01	0.01	0.2	1	0.05	0.01	0.01	0.02	0.01	0.05	0.5	0.05	0.5	0.01
455815 (8971598)	0.12	7.42	15.0	436	2.42	0.33	3.34	0.04	45.7	28.1	8.5	0.32	67.4	7.18
455816 (8971599)	0.15	7.01	3.6	392	2.27	0.11	4.17	0.03	48.4	23.5	7.4	0.23	92.2	5.08
455817 (8971600)	0.14	7.78	1.9	208	2.00	0.05	3.30	<0.02	79.3	21.7	8.0	0.15	18.3	6.24
455818 (8971601)	0.17	8.04	3.1	41	1.88	0.07	5.50	0.08	94.6	26.2	1.1	0.08	23.4	6.40
455819 (8971602)	0.15	8.10	4.3	84	1.85	0.08	4.55	0.07	93.2	34.3	1.4	0.11	35.1	6.48
455820 (8971603)	0.16	7.73	3.8	67	1.70	0.06	5.12	0.10	102	27.5	2.3	0.09	55.4	5.96
455821 (8971604)	0.16	8.29	4.3	52	2.09	0.07	4.06	0.04	87.0	43.8	0.7	0.08	14.7	6.73
455822 (8971605)	0.17	8.31	2.3	116	2.19	0.04	3.01	<0.02	57.9	44.7	9.2	0.11	18.6	7.09
455823 (8971606)	0.14	7.89	1.3	246	2.05	0.03	3.90	0.02	35.9	22.3	13.2	0.18	34.7	6.14
455824 (8971607)	0.29	9.51	2.3	698	3.64	0.03	4.28	0.07	75.7	22.0	13.1	1.57	16.3	5.23
455825 (8971608)	0.15	7.42	1.3	252	1.79	0.03	3.91	0.03	37.3	29.0	14.8	0.16	64.8	6.31
455826 (8971609)	0.46	8.09	2.9	53	2.77	0.11	3.98	0.06	37.6	32.3	9.1	0.14	33.7	8.23
455827 (8971610)	1.23	7.77	2.7	50	2.46	0.10	4.59	0.08	72.8	19.1	12.7	0.07	820	4.82
455828 (8971611)	0.31	7.98	3.2	30	2.86	0.10	5.22	0.07	54.6	20.7	19.0	<0.05	51.9	5.46
455829 (8971612)	0.22	7.86	3.0	70	2.89	0.15	2.96	<0.02	36.3	34.7	22.7	0.17	23.3	7.16
455830 (8971613)	0.18	7.47	6.5	232	2.04	0.42	2.03	0.03	35.6	42.7	22.3	0.13	85.7	5.00
455831 (8971614)	0.23	6.71	4.5	95	1.80	0.16	4.17	0.02	56.6	39.1	196	0.15	115	7.45
455832 (8971615)	0.18	7.52	3.1	185	2.40	0.15	4.21	0.02	30.3	34.7	11.0	0.14	85.7	6.79
455833 (8971616)	0.17	7.39	2.5	185	2.06	0.11	3.58	0.03	34.6	38.0	7.3	0.12	55.6	7.38
455834 (8971617)	0.13	7.26	2.6	228	2.30	0.06	5.07	0.02	31.7	28.3	25.0	0.18	85.1	5.01
455835 (8971618)	0.16	7.08	1.3	85	1.34	0.06	0.65	<0.02	42.3	38.5	19.1	0.09	4.4	9.35
455836 (8971619)	0.62	7.96	31.8	1070	3.89	0.74	2.63	0.19	73.7	17.5	62.4	11.1	2540	4.30
455837 (8971620)	0.29	7.08	7.8	219	1.71	0.42	0.64	<0.02	39.0	58.4	33.5	0.17	91.2	9.66
455838 (8971621)	0.36	6.52	3.9	521	1.25	0.15	1.20	0.03	25.3	35.4	23.5	0.23	179	7.76
455839 (8971622)	0.49	7.53	3.2	318	2.26	0.08	5.34	0.03	23.9	37.4	33.1	0.19	122	5.75
455840 (8971623)	0.27	7.46	5.8	84	2.10	0.06	5.18	0.03	24.9	43.3	23.6	0.08	75.6	6.40
455841 (8971624)	0.21	7.40	5.1	74	2.18	0.03	5.19	<0.02	25.3	41.8	27.7	0.06	64.0	5.86
455842 (8971625)	0.18	7.63	7.0	44	2.39	0.04	5.67	0.02	21.6	53.1	28.3	0.08	79.2	6.49
455843 (8971626)	0.37	7.62	8.6	113	1.34	0.34	3.66	<0.02	40.1	55.6	169	0.17	35.6	7.47
455844 (8971627)	0.23	8.50	2.7	291	1.81	0.04	4.27	<0.02	48.7	26.5	84.3	0.30	24.9	5.66
455845 (8971628)	0.20	8.08	45.4	478	2.29	0.06	1.23	0.05	60.9	16.6	7.7	0.26	17.1	3.45
455846 (8971629)	0.40	9.15	14.8	527	2.41	0.11	4.20	0.08	43.8	26.9	6.5	0.26	917	4.26

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AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-089) 4 Acid Digest - Metals Package, ICP/ICP-MS finish with Hg-ICP-MS

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Jan 19, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
Sample ID (AGAT ID) RDL:	0.01	0.01	0.2	1	0.05	0.01	0.01	0.02	0.01	0.05	0.5	0.05	0.5	0.01
455847 (8971630)	0.26	7.74	11.1	205	2.37	0.07	4.71	0.03	26.8	31.6	25.5	1.27	65.0	7.52
455848 (8971631)	0.29	10.1	4.4	713	4.09	0.03	4.60	0.08	78.0	23.9	16.2	1.27	18.3	5.56
455849 (8971632)	0.32	7.52	13.6	100	2.29	0.06	4.84	0.03	25.2	41.5	24.1	0.50	71.1	6.78
455850 (8971633)	0.23	7.55	8.4	118	2.06	0.08	4.39	0.04	22.2	48.5	35.0	0.30	80.5	7.38
455851 (8971634)	0.31	7.86	25.5	118	2.26	0.13	4.48	0.04	20.1	117	38.1	0.21	480	8.93
455852 (8971635)	0.28	7.90	10.8	117	2.25	0.09	5.12	0.05	21.0	53.0	35.2	0.21	97.5	8.12
455853 (8971636)	0.22	7.54	9.3	103	2.48	0.04	3.62	<0.02	23.4	57.2	38.4	0.45	41.9	8.36
455854 (8971637)	0.32	7.17	11.5	158	2.19	0.07	5.79	0.06	26.1	49.3	34.7	0.59	85.0	7.31
455855 (8971638)	0.28	7.87	28.4	134	2.31	0.05	2.72	0.05	21.5	123	38.2	0.54	164	9.07
455856 (8971639)	0.20	7.84	11.2	120	2.37	0.05	4.50	0.03	22.6	62.0	39.8	0.43	35.7	8.52
455857 (8971640)	0.23	7.33	11.3	131	1.92	0.04	5.03	0.04	20.3	59.7	37.3	0.44	100	7.35
455858 (8971641)	0.23	7.59	6.7	139	2.29	0.06	4.69	0.06	22.6	51.2	38.0	0.32	84.0	8.01
455859 (8971642)	0.17	7.36	8.5	202	2.45	0.05	5.26	0.05	22.5	44.1	12.9	1.06	63.6	8.46
455860 (8971643)	0.91	8.21	30.0	1060	3.85	1.75	2.71	0.16	72.4	20.1	62.3	11.2	2520	4.39
455861 (8971644)	0.31	7.20	15.0	178	2.55	0.07	5.92	0.10	24.5	72.7	11.7	0.95	134	8.37
455862 (8971645)	0.26	7.66	10.7	197	3.03	0.09	4.52	0.04	24.6	41.8	11.3	1.09	57.0	8.30
455863 (8971646)	0.37	7.49	8.6	81	2.38	0.06	5.01	0.07	23.9	37.7	13.6	0.34	55.7	7.74
455864 (8971647)	0.20	7.22	9.2	45	2.87	0.03	4.75	0.03	17.4	58.4	11.4	0.14	109	8.43
455865 (8971648)	0.20	8.13	2.3	143	3.10	0.03	2.18	<0.02	25.3	34.0	13.8	0.16	22.4	10.3
455866 (8971649)	0.20	7.65	6.8	71	2.24	0.02	3.35	0.03	39.4	46.4	4.7	0.26	62.9	8.80
455867 (8971650)	0.19	7.90	2.8	103	2.21	0.03	3.65	0.04	35.5	38.1	9.6	0.20	123	8.30
455868 (8971651)	0.22	7.69	3.3	401	2.22	0.03	3.13	0.05	44.4	28.2	4.3	0.11	83.9	6.35
455869 (8971652)	0.11	7.57	20.5	237	2.66	0.03	3.62	0.04	33.3	56.3	7.6	0.21	44.6	7.70
455870 (8971653)	0.08	7.13	45.3	175	1.98	0.02	4.21	0.04	19.2	52.4	92.6	0.21	36.5	7.91
455871 (8971654)	0.10	7.83	26.9	274	2.52	0.01	3.76	0.05	29.5	40.1	10.4	0.28	50.3	8.23
455872 (8971655)	0.21	10.8	3.1	739	4.17	0.04	4.94	0.08	72.4	24.9	14.6	1.30	28.5	6.04
455873 (8971656)	0.15	7.67	39.3	215	2.41	0.01	3.80	0.06	27.3	46.9	9.3	0.14	69.0	7.81
455874 (8971657)	0.17	7.27	28.5	153	2.03	0.02	3.54	0.03	30.0	38.0	7.9	0.09	27.5	6.66
455875 (8971658)	0.18	7.61	30.4	201	2.12	0.02	3.42	0.04	31.3	27.9	9.7	0.11	52.8	6.33
455876 (8971659)	0.37	4.05	466	6	1.35	0.11	7.28	0.07	35.0	117	532	0.11	274	9.68
455877 (8971660)	0.39	3.15	541	7	1.68	0.05	7.82	0.10	35.6	92.4	617	0.10	258	8.51
455878 (8971661)	0.29	2.94	326	5	1.53	0.02	6.57	0.11	37.0	90.6	615	0.10	89.3	8.72

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Certificate of Analysis

AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-089) 4 Acid Digest - Metals Package, ICP/ICP-MS finish with Hg-ICP-MS

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Jan 19, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
Sample ID (AGAT ID) RDL:	0.01	0.01	0.2	1	0.05	0.01	0.01	0.02	0.01	0.05	0.5	0.05	0.5	0.01
455879 (8971662)	0.21	2.90	183	21	1.68	0.02	5.89	0.08	35.1	87.1	655	0.27	37.3	8.95
455880 (8971663)	0.25	2.74	62.4	59	1.75	0.13	5.71	0.08	33.7	79.0	670	0.61	62.3	8.70
455881 (8971664)	0.32	3.38	435	134	1.14	0.38	6.25	0.08	44.2	112	693	0.15	142	10.4
455882 (8971665)	0.25	2.69	495	68	1.17	0.28	5.40	0.06	35.9	107	675	0.10	109	9.16
455883 (8971666)	0.34	3.03	343	101	0.98	0.28	6.94	0.07	37.8	85.9	378	0.16	238	8.75
455884 (8971667)	3.63	7.06	14.0	723	2.26	5.41	2.70	0.42	40.8	24.3	64.9	4.81	>10000	7.02
455885 (8971668)	0.59	3.03	289	72	1.31	0.19	5.21	0.07	38.9	98.3	741	0.50	282	9.52
455886 (8971669)	0.09	2.92	431	60	1.31	0.10	4.62	0.07	36.6	108	844	0.55	118	9.46
455887 (8971670)	0.18	2.82	690	75	1.07	0.14	5.13	0.05	38.7	93.5	788	0.16	49.3	8.89
455888 (8971671)	0.34	2.65	783	34	1.18	0.19	5.47	0.08	31.9	95.9	853	0.28	237	9.20
455889 (8971672)	0.55	2.69	784	59	1.45	0.16	5.81	0.09	33.1	90.9	929	0.64	171	9.35
455890 (8971673)	0.19	2.65	801	73	1.36	0.15	5.16	0.08	33.0	96.6	883	0.82	157	8.83
455891 (8971674)	0.25	2.65	807	56	1.25	0.10	4.45	0.07	36.3	88.9	908	0.59	176	9.28
455892 (8971675)	0.22	2.65	704	33	1.15	0.09	5.22	0.08	35.5	92.8	827	0.40	103	8.60
455893 (8971676)	0.27	2.27	621	38	1.02	0.12	5.72	0.11	34.6	71.8	626	0.49	186	6.40
455894 (8971677)	0.19	3.06	698	68	1.35	0.07	5.37	0.06	39.0	86.2	834	0.69	82.8	9.17
455895 (8971678)	0.19	2.80	859	96	1.31	0.06	7.34	0.09	34.7	84.3	825	0.66	87.2	8.36
455896 (8971679)	0.22	9.23	35.8	695	3.74	0.03	4.47	0.07	77.7	23.6	49.4	1.34	20.0	5.56
455897 (8971680)	0.20	3.08	1070	124	1.40	0.09	6.60	0.08	38.2	82.4	753	0.58	162	8.98
455898 (8971681)	0.27	2.90	1050	45	0.86	0.18	7.56	0.16	38.3	79.6	668	0.24	127	8.71
455899 (8971682)	0.69	4.39	691	156	1.30	0.33	6.36	0.17	48.3	58.9	484	0.38	48.9	9.02
455900 (8971683)	1.57	7.06	137	307	1.69	0.14	2.97	0.07	44.5	33.4	35.4	0.54	9.2	6.26
455901 (8971684)	0.42	7.18	120	282	1.68	0.16	2.40	0.05	42.0	32.4	32.6	0.60	5.7	5.65
455902 (8971685)	0.31	6.47	110	275	1.64	0.09	3.26	0.08	40.6	26.9	20.1	0.51	3.7	5.08
455903 (8971686)	0.20	6.49	210	216	2.12	0.14	3.76	0.09	50.1	38.5	11.1	0.83	2.2	7.51
455904 (8971687)	0.21	6.77	236	207	1.67	0.14	4.16	0.09	46.7	27.7	15.4	0.60	3.6	8.86
455905 (8971688)	0.21	7.45	123	311	1.91	0.09	3.40	0.05	64.2	22.4	19.6	0.73	2.2	6.65
455906 (8971689)	0.13	6.44	33.8	235	1.19	0.02	2.55	0.09	34.3	14.6	21.2	0.54	4.2	4.35
455907 (8971690)	0.24	6.58	83.1	309	1.65	0.04	4.19	1.93	26.5	43.5	86.0	0.86	220	7.90
455908 (8971691)	0.23	6.25	186	384	1.60	0.10	5.40	0.14	15.9	34.3	108	0.59	60.6	7.66
455909 (8971692)	0.21	6.36	306	360	1.56	0.19	5.08	0.12	15.8	46.9	125	0.61	24.4	8.10
455910 (8971693)	0.18	6.45	191	355	1.31	0.11	2.15	0.07	35.3	23.3	25.0	0.41	3.9	4.60

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Certificate of Analysis

AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-089) 4 Acid Digest - Metals Package, ICP/ICP-MS finish with Hg-ICP-MS

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Jan 19, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
Sample ID (AGAT ID) RDL:	0.01	0.01	0.2	1	0.05	0.01	0.01	0.02	0.01	0.05	0.5	0.05	0.5	0.01
455911 (8971694)	0.18	6.78	242	338	1.27	0.16	2.81	0.10	37.3	25.9	22.1	0.36	5.1	6.00
455912 (8971695)	0.22	7.00	6.2	144	0.79	0.06	6.86	0.12	11.1	46.6	155	0.17	150	8.30
455913 (8971696)	0.22	6.14	247	306	1.05	0.12	3.34	0.22	35.7	33.4	19.9	0.38	13.5	6.05
455914 (8971697)	0.20	6.31	148	260	1.12	0.06	3.36	0.54	40.0	18.9	17.0	0.30	104	5.21
455915 (8971698)	0.63	6.88	57.0	175	2.33	0.06	3.48	4.02	40.0	29.2	15.5	0.51	119	6.51
455916 (8971699)	0.32	7.96	57.1	231	2.27	0.03	3.38	0.47	37.6	25.0	12.6	0.61	53.9	7.37
455917 (8971700)	0.36	7.29	237	288	2.49	0.10	3.25	0.53	42.1	21.6	12.9	0.44	66.6	6.28
455918 (8971701)	0.41	7.37	115	278	2.52	0.11	3.92	1.57	27.8	36.6	16.9	0.49	102	6.37
455919/455920 (8971702)	0.44	6.99	121	243	2.37	0.12	4.29	0.47	21.4	47.2	33.2	0.67	126	7.29
455921 (8971704)	0.30	7.30	61.6	172	1.82	0.05	3.64	0.08	21.9	32.1	103	0.44	143	5.98
455922 (8971705)	0.33	6.66	107	222	1.72	0.14	3.06	0.07	24.1	29.5	26.7	0.47	129	5.55
455923 (8971706)	0.27	3.67	149	165	1.15	0.33	3.57	0.03	25.4	37.7	136	0.30	11.0	4.84
455924 (8971707)	0.23	10.4	2.9	823	3.99	0.05	4.66	0.08	80.2	20.6	22.3	1.40	20.0	5.62
455925 (8971708)	0.17	2.28	47.8	83	0.79	0.06	2.81	0.06	11.3	12.7	123	0.12	8.5	3.15
455926 (8971709)	1.07	7.18	56.4	288	1.43	0.13	1.17	0.02	61.8	17.1	23.1	0.24	4.9	4.15
455927 (8971710)	0.36	6.43	124	106	1.04	0.20	1.08	0.06	73.5	8.69	19.8	0.08	15.8	2.05
455928 (8971711)	0.25	6.46	84.2	124	1.17	0.19	0.97	0.06	61.2	9.67	21.5	0.07	4.3	1.83
455929 (8971712)	0.17	6.26	169	139	1.14	0.29	7.88	0.15	19.7	37.4	7.5	0.10	4.0	5.32
455930 (8971713)	0.23	7.11	108	233	1.52	0.19	2.45	0.10	66.2	28.0	18.8	0.14	9.3	2.85
455931 (8971714)	0.26	7.05	20.8	249	3.19	0.05	3.52	2.45	47.3	16.7	9.7	0.39	77.8	5.12
455932 (8971715)	0.60	6.68	3.8	231	2.36	0.05	2.86	2.82	52.0	25.6	10.7	0.22	126	5.78
455933 (8971716)	0.60	7.03	25.9	180	3.41	0.04	3.19	0.60	45.0	41.9	6.2	0.15	77.1	5.77
455934 (8971717)	0.23	6.13	138	246	1.44	0.01	5.46	0.05	46.6	52.6	251	0.17	5.5	6.11
455935 (8971718)	0.14	6.49	31.0	141	1.08	0.14	4.14	0.05	53.7	35.0	239	0.21	9.6	5.48
455936 (8971719)	0.65	8.24	30.6	1100	3.82	0.87	2.72	0.20	80.9	16.4	78.4	11.8	2580	4.40
455937 (8971720)	0.23	6.72	11.5	93	1.32	0.02	4.94	0.06	42.7	30.2	227	1.03	6.7	5.87
455938 (8971721)	0.22	7.43	2.4	220	2.77	0.04	5.83	0.19	39.7	52.7	83.9	1.83	134	10.5
455939 (8971722)	0.20	6.96	2.0	272	2.50	0.04	5.06	0.19	36.7	51.8	75.3	1.85	128	10.1
455940 (8971723)	0.23	7.25	3.7	189	2.79	0.08	6.00	0.14	38.0	53.5	79.8	1.53	142	10.5
455941 (8971724)	0.15	7.13	8.6	183	2.71	0.06	5.55	0.13	41.7	51.1	72.5	1.94	124	9.73
455942 (8971725)	0.20	5.91	26.7	135	1.03	0.09	1.18	0.05	104	10.0	17.8	0.13	11.8	1.67
455943 (8971726)	0.18	6.34	139	271	1.28	0.26	2.68	0.07	67.9	19.2	43.5	0.22	6.6	2.82

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Certificate of Analysis

AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-089) 4 Acid Digest - Metals Package, ICP/ICP-MS finish with Hg-ICP-MS

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Jan 19, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
Sample ID (AGAT ID) RDL:	0.01	0.01	0.2	1	0.05	0.01	0.01	0.02	0.01	0.05	0.5	0.05	0.5	0.01
455944 (8971727)	0.22	8.34	37.3	703	3.11	0.02	9.16	0.18	34.0	4.30	183	0.56	3.9	5.30
455945 (8971728)	0.27	8.31	13.2	417	3.36	0.03	5.48	0.02	11.7	18.7	7.8	0.48	25.4	5.05
455946 (8971729)	0.19	3.80	4.5	270	1.33	0.01	5.54	0.10	10.3	4.63	48.3	0.16	1.4	4.63
455947 (8971730)	0.21	6.99	2.5	267	1.59	0.01	0.69	0.02	41.5	6.96	28.6	0.22	3.0	3.59
455948 (8971731)	0.17	9.08	2.2	715	3.63	0.04	4.18	0.09	84.2	24.4	22.9	1.33	15.3	5.22
455949 (8971732)	0.10	6.51	6.6	243	1.42	0.01	1.66	<0.02	59.9	13.7	41.3	0.42	5.1	4.55
455950 (8971733)	0.16	7.09	1.8	127	2.07	0.03	6.10	0.12	28.4	55.3	64.0	2.50	173	9.58
455951 (8971734)	0.12	7.72	10.2	44	1.30	0.08	1.81	0.03	30.2	54.8	4.1	0.51	38.5	8.74
455952 (8971735)	0.10	6.94	8.0	392	1.62	0.03	5.11	<0.02	35.6	22.1	95.9	0.28	110	4.35
455953 (8971736)	0.11	8.65	1.9	415	1.60	<0.01	2.87	0.02	21.5	38.6	172	0.30	2.3	6.53
455954 (8971737)	0.10	7.82	3.0	72	1.17	0.09	5.16	<0.02	19.3	34.6	14.1	0.10	21.0	6.36
455955 (8971738)	0.11	7.18	16.4	105	1.62	0.02	5.45	<0.02	28.0	47.8	1.0	0.51	49.1	9.11
455956 (8971739)	0.11	7.08	9.9	100	1.86	0.02	5.24	0.03	36.8	37.1	1.6	0.25	52.5	8.65
455957 (8971740)	0.06	7.43	5.2	54	1.73	0.04	5.76	0.03	69.2	33.5	<0.5	0.07	2.1	8.77
455958 (8971741)	0.09	7.18	7.5	64	1.85	0.01	5.62	<0.02	50.5	27.0	<0.5	0.07	3.8	7.00
455959 (8971742)	0.12	6.35	17.4	149	1.66	0.19	4.85	<0.02	42.0	50.8	4.3	0.12	39.6	6.26
455960 (8971743)	0.85	7.85	23.3	1030	3.69	1.67	2.61	0.15	74.5	18.0	75.2	11.1	2430	4.25
455961 (8971744)	0.24	6.50	6.0	91	1.42	0.02	4.18	<0.02	44.4	28.7	2.0	0.07	8.7	5.95
455962 (8971745)	0.13	8.19	6.9	80	2.02	0.03	3.54	0.02	71.4	40.3	<0.5	0.14	<0.5	8.47
455963 (8971746)	0.12	7.52	4.0	45	2.19	0.03	3.85	<0.02	68.3	37.3	45.3	0.29	<0.5	7.87
455964 (8971747)	0.19	5.93	27.0	245	2.61	0.03	6.85	<0.02	53.8	81.8	591	2.45	11.5	9.86
455965 (8971748)	0.13	6.96	5.9	164	2.15	0.03	4.01	<0.02	62.0	44.9	164	0.67	6.5	8.46
455966 (8971749)	0.10	7.72	2.6	99	1.94	0.02	2.90	<0.02	50.8	48.7	3.8	0.47	<0.5	10.2
455967 (8971750)	0.09	8.07	4.1	131	2.16	0.02	3.83	0.02	67.6	37.6	1.1	0.44	<0.5	7.93
455968 (8971751)	0.14	8.73	2.9	208	2.36	0.02	2.05	<0.02	65.4	34.5	3.3	1.20	<0.5	9.39

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Certificate of Analysis

AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-089) 4 Acid Digest - Metals Package, ICP/ICP-MS finish with Hg-ICP-MS

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Jan 19, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Unit:	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.05	0.05	0.1	0.005	0.01	0.5	0.1	0.01	1	0.05	0.01	0.1	0.5	10
455815 (8971598)	18.3	0.21	2.4	0.077	0.84	19.6	12.3	1.70	931	5.58	2.97	6.4	28.3	663
455816 (8971599)	17.4	0.17	2.3	0.071	0.74	20.6	11.2	1.61	992	3.66	2.87	6.4	18.7	626
455817 (8971600)	17.8	0.13	2.7	0.052	0.42	36.4	14.2	2.15	887	1.52	3.44	6.4	15.7	1510
455818 (8971601)	17.9	0.19	3.9	0.050	0.08	43.5	14.8	2.38	1330	0.46	4.05	5.5	6.6	2150
455819 (8971602)	17.8	0.23	3.7	0.059	0.14	42.4	15.0	2.46	1190	0.88	3.74	6.7	7.5	2240
455820 (8971603)	17.2	0.16	3.5	0.055	0.12	48.9	13.9	2.20	1080	0.73	3.82	4.3	7.5	2030
455821 (8971604)	18.1	0.16	3.8	0.047	0.10	40.3	15.2	2.44	897	0.80	3.95	5.2	6.9	2240
455822 (8971605)	19.1	<0.05	2.6	0.050	0.21	24.4	14.9	2.31	890	1.06	3.84	6.3	21.6	1440
455823 (8971606)	18.5	0.12	1.3	0.058	0.51	15.0	12.6	1.89	975	1.06	3.59	6.7	29.5	588
455824 (8971607)	22.9	<0.05	2.5	0.070	1.82	33.5	22.3	1.70	938	1.53	2.84	15.7	17.1	1600
455825 (8971608)	17.3	0.14	1.4	0.069	0.60	15.4	13.9	2.11	1030	1.28	2.79	6.9	28.2	512
455826 (8971609)	19.9	0.16	1.2	0.063	0.15	15.1	12.7	2.04	798	1.77	2.58	8.6	32.7	617
455827 (8971610)	18.3	0.18	2.0	0.041	0.14	32.0	9.2	1.38	559	2.98	2.61	11.4	30.0	490
455828 (8971611)	17.6	0.28	1.8	0.044	0.09	20.4	10.6	1.66	653	2.21	2.47	9.5	32.5	627
455829 (8971612)	18.3	0.14	1.4	0.046	0.18	15.0	15.7	2.69	684	2.38	3.40	9.0	34.7	474
455830 (8971613)	15.4	<0.05	1.8	0.025	0.39	16.1	11.5	2.09	518	5.91	3.45	4.8	36.2	355
455831 (8971614)	17.0	0.18	2.0	0.036	0.17	23.0	24.3	4.42	1010	5.49	1.42	7.9	66.1	841
455832 (8971615)	18.4	0.18	1.5	0.059	0.37	13.6	13.4	2.33	747	1.65	3.11	7.1	32.0	503
455833 (8971616)	18.6	0.18	1.5	0.064	0.38	14.5	10.7	1.97	961	1.38	3.14	6.8	31.6	549
455834 (8971617)	16.1	0.18	1.4	0.048	0.45	14.1	14.6	2.68	968	1.56	2.59	5.4	29.1	419
455835 (8971618)	18.4	0.25	1.7	0.034	0.21	18.4	33.0	6.39	914	1.59	0.18	5.6	28.8	437
455836 (8971619)	18.3	<0.05	2.1	0.062	3.32	35.0	34.1	1.58	588	93.8	2.05	17.8	55.9	1030
455837 (8971620)	17.4	0.19	1.3	0.043	0.44	16.7	29.8	5.92	854	1.71	0.22	6.8	33.2	304
455838 (8971621)	15.5	<0.05	1.6	<0.005	1.01	10.6	20.7	4.21	696	2.29	0.59	5.0	28.1	402
455839 (8971622)	16.7	0.18	1.3	0.057	0.71	10.5	15.0	3.12	974	1.11	2.28	5.1	35.7	354
455840 (8971623)	17.9	0.19	1.0	0.061	0.21	10.5	12.3	2.56	1210	1.04	2.94	5.2	30.7	359
455841 (8971624)	16.5	0.25	1.3	0.037	0.18	10.7	11.9	2.51	1090	1.21	3.11	5.0	30.9	366
455842 (8971625)	18.0	0.27	1.2	0.037	0.13	9.1	13.3	2.85	1250	1.12	3.03	4.6	34.6	345
455843 (8971626)	14.4	0.08	2.1	0.026	0.31	14.7	28.1	5.49	760	4.38	1.45	4.1	147	828
455844 (8971627)	16.1	0.05	2.1	0.028	0.65	18.4	17.9	3.40	649	2.00	2.90	4.3	96.4	802
455845 (8971628)	18.5	<0.05	2.8	0.012	1.00	27.5	6.6	1.20	312	1.92	3.94	9.7	16.6	587
455846 (8971629)	20.7	<0.05	2.8	0.041	1.43	19.3	7.5	1.37	550	1.61	4.33	15.8	15.1	711

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Certificate of Analysis

AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-089) 4 Acid Digest - Metals Package, ICP/ICP-MS finish with Hg-ICP-MS

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Jan 19, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Unit:	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.05	0.05	0.1	0.005	0.01	0.5	0.1	0.01	1	0.05	0.01	0.1	0.5	10
455847 (8971630)	17.6	0.21	0.9	0.062	0.81	11.3	14.0	2.83	987	1.07	2.71	6.3	29.5	367
455848 (8971631)	24.9	<0.05	2.2	0.070	1.85	35.2	22.5	1.78	1010	1.67	2.96	15.8	13.7	1820
455849 (8971632)	16.8	0.16	0.9	0.067	0.39	10.4	13.1	2.65	977	1.21	2.81	6.0	31.5	360
455850 (8971633)	18.0	0.17	1.0	0.050	0.46	9.7	11.8	2.96	1130	1.34	2.40	5.0	37.4	278
455851 (8971634)	17.3	0.16	1.1	0.057	0.56	8.6	13.2	3.18	1130	1.46	2.27	4.3	42.0	311
455852 (8971635)	17.8	0.20	1.1	0.059	0.58	9.1	11.6	3.27	1170	1.70	2.26	4.3	42.3	287
455853 (8971636)	18.6	0.11	1.1	0.065	0.47	9.9	21.5	4.92	1240	1.27	1.72	4.5	41.2	312
455854 (8971637)	16.5	0.15	1.1	0.074	0.59	10.5	11.2	3.05	1180	1.38	2.17	4.4	41.5	303
455855 (8971638)	18.2	<0.05	1.0	0.063	0.53	9.0	15.8	3.82	1130	1.91	2.20	4.7	44.5	321
455856 (8971639)	18.6	0.13	1.0	0.076	0.48	9.6	12.7	3.57	1340	1.39	2.54	4.3	46.1	321
455857 (8971640)	16.4	0.16	0.8	0.055	0.50	8.4	12.6	3.16	1210	1.80	2.38	4.1	43.7	309
455858 (8971641)	18.1	0.19	1.0	0.077	0.53	9.9	10.2	3.17	1300	1.37	2.39	4.0	43.0	318
455859 (8971642)	18.3	0.23	0.7	0.055	0.73	9.5	12.3	2.39	1310	0.75	1.92	1.6	22.2	305
455860 (8971643)	19.4	<0.05	2.3	0.185	3.28	34.2	34.0	1.59	596	94.5	2.11	17.6	38.6	1060
455861 (8971644)	17.4	0.23	0.8	0.070	0.60	9.9	11.4	2.35	1380	1.25	2.34	5.9	23.2	320
455862 (8971645)	19.2	0.13	0.8	0.089	0.60	10.2	11.8	2.48	1300	1.03	2.56	5.4	22.1	352
455863 (8971646)	18.1	0.11	0.8	0.071	0.25	10.1	11.8	2.56	1410	0.87	2.83	5.5	22.4	325
455864 (8971647)	18.6	0.27	0.7	0.048	0.22	7.3	14.1	3.02	1300	1.02	2.38	5.3	22.1	370
455865 (8971648)	20.0	0.24	1.1	0.036	0.43	10.6	24.5	4.16	1040	0.76	1.68	7.0	24.2	398
455866 (8971649)	19.7	0.17	2.0	0.068	0.19	16.5	12.4	2.96	1020	1.30	2.64	7.3	32.3	491
455867 (8971650)	18.9	0.18	1.9	0.056	0.23	15.4	8.4	2.11	932	1.34	3.55	6.8	35.3	508
455868 (8971651)	19.0	0.07	2.6	0.054	0.51	18.4	5.3	1.28	670	1.60	3.89	8.3	13.7	628
455869 (8971652)	18.8	0.13	3.3	0.053	0.37	13.8	7.0	1.98	1100	1.63	3.70	6.8	30.9	454
455870 (8971653)	15.7	0.23	1.7	0.051	0.36	8.0	7.3	3.04	1550	0.92	3.22	4.3	65.6	384
455871 (8971654)	18.6	0.17	1.9	0.058	0.54	12.8	6.3	2.31	1330	1.64	4.02	2.3	44.6	448
455872 (8971655)	25.0	<0.05	2.5	0.072	1.99	31.8	23.9	1.90	1070	1.76	3.20	13.9	15.9	1720
455873 (8971656)	17.7	0.15	2.2	0.050	0.42	11.9	5.6	2.20	1430	1.97	4.05	3.8	38.7	458
455874 (8971657)	18.2	0.11	2.7	0.030	0.36	13.1	4.1	2.07	1320	2.01	4.21	5.1	34.9	481
455875 (8971658)	18.0	0.10	2.6	0.031	0.50	13.3	5.1	2.61	1130	1.97	3.97	5.0	48.4	519
455876 (8971659)	12.2	0.37	2.0	0.053	0.02	14.9	8.2	6.88	1690	1.23	0.05	4.5	554	492
455877 (8971660)	9.72	0.41	1.9	0.056	0.04	15.6	4.3	7.31	1710	0.80	0.01	6.2	606	455
455878 (8971661)	9.79	0.40	1.8	0.048	0.02	15.5	4.2	7.64	1800	0.62	<0.01	6.1	631	464

Certified By:

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Certificate of Analysis

AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-089) 4 Acid Digest - Metals Package, ICP/ICP-MS finish with Hg-ICP-MS

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Jan 19, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Unit:	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.05	0.05	0.1	0.005	0.01	0.5	0.1	0.01	1	0.05	0.01	0.1	0.5	10
455879 (8971662)	9.31	0.42	1.8	0.040	0.15	14.6	4.1	7.93	1770	0.46	<0.01	6.2	643	432
455880 (8971663)	8.50	0.44	1.6	0.036	0.45	14.2	7.3	7.95	1710	0.73	<0.01	2.7	693	427
455881 (8971664)	10.8	0.40	2.2	0.079	1.49	18.8	9.0	8.94	1900	1.10	0.02	1.6	818	533
455882 (8971665)	8.37	0.45	1.7	0.041	0.75	15.4	9.6	7.57	1680	1.39	0.05	1.6	725	416
455883 (8971666)	9.88	0.41	2.0	0.051	0.92	16.0	12.0	7.56	1420	1.19	0.02	2.0	499	471
455884 (8971667)	16.1	0.24	1.6	0.628	3.04	19.7	24.1	1.73	574	459	2.04	9.6	34.9	934
455885 (8971668)	10.6	0.43	1.6	0.052	0.67	16.3	15.5	8.09	1620	1.65	0.05	2.2	688	454
455886 (8971669)	10.2	0.43	1.5	0.043	0.61	15.7	15.5	8.55	1510	1.10	0.02	1.1	842	421
455887 (8971670)	8.37	0.47	1.6	0.054	0.69	16.9	15.3	8.53	1670	1.13	0.03	1.1	790	384
455888 (8971671)	8.45	0.46	1.5	0.045	0.33	13.4	19.1	9.14	1620	1.05	0.02	0.6	834	354
455889 (8971672)	8.34	0.46	1.5	0.041	0.71	13.9	16.6	9.64	1710	0.98	0.06	1.0	875	409
455890 (8971673)	8.80	0.46	1.5	0.050	0.88	13.8	14.6	9.11	1580	0.77	0.11	1.1	814	390
455891 (8971674)	8.55	0.48	1.6	0.048	0.69	15.6	16.4	9.62	1590	0.72	0.06	0.7	861	407
455892 (8971675)	8.79	0.49	1.6	0.042	0.42	15.0	18.1	8.87	1590	0.76	0.04	0.9	782	389
455893 (8971676)	7.27	0.52	1.4	0.047	0.50	15.5	13.4	5.62	1060	1.89	0.03	0.9	599	316
455894 (8971677)	9.51	0.49	1.8	0.041	0.89	16.8	15.9	8.29	1590	0.93	0.09	1.0	733	452
455895 (8971678)	8.58	0.47	1.8	0.045	1.05	14.8	13.5	8.22	1680	0.79	0.04	0.8	749	420
455896 (8971679)	21.8	0.32	2.3	0.073	1.82	34.1	22.0	2.04	1030	1.90	2.67	12.5	47.6	1760
455897 (8971680)	9.95	0.47	1.9	0.057	1.22	16.2	11.4	7.68	1750	1.14	0.10	1.5	677	473
455898 (8971681)	8.85	0.49	2.0	0.040	0.47	15.6	14.5	6.50	1500	1.12	0.02	1.2	563	407
455899 (8971682)	12.1	0.49	2.5	0.055	1.26	20.4	14.2	5.23	1220	1.50	0.07	1.2	365	377
455900 (8971683)	16.9	0.24	3.3	0.050	2.24	19.6	13.0	3.26	615	1.72	1.36	1.7	61.8	319
455901 (8971684)	15.9	0.17	3.1	0.043	2.12	18.1	10.4	2.61	481	2.52	1.99	1.6	55.7	317
455902 (8971685)	14.6	0.21	3.2	0.048	1.94	17.1	8.7	2.63	745	3.16	1.83	2.8	31.1	279
455903 (8971686)	16.8	0.29	3.0	0.050	1.87	21.2	13.4	3.93	916	2.22	1.22	4.9	36.5	383
455904 (8971687)	18.2	0.29	2.4	0.052	1.74	19.7	18.5	5.00	1050	2.22	0.41	4.4	38.4	155
455905 (8971688)	16.8	0.25	2.7	0.054	2.50	25.3	14.3	3.77	832	1.90	0.90	6.9	39.6	334
455906 (8971689)	15.2	<0.05	2.3	<0.005	1.71	15.5	6.0	1.99	600	2.44	2.47	6.5	27.2	443
455907 (8971690)	19.3	<0.05	2.0	0.007	2.29	11.4	9.5	3.31	1110	2.04	1.32	7.1	120	548
455908 (8971691)	16.4	<0.05	1.5	<0.005	2.82	6.7	10.3	3.56	1310	1.27	0.31	4.0	101	395
455909 (8971692)	18.6	<0.05	1.9	<0.005	2.76	6.5	11.8	3.78	1200	1.31	0.22	3.7	113	261
455910 (8971693)	15.9	<0.05	1.7	<0.005	2.51	16.2	6.5	1.41	428	3.68	1.54	3.8	28.5	273

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AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-089) 4 Acid Digest - Metals Package, ICP/ICP-MS finish with Hg-ICP-MS

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Jan 19, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Unit:	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.05	0.05	0.1	0.005	0.01	0.5	0.1	0.01	1	0.05	0.01	0.1	0.5	10
455911 (8971694)	16.2	<0.05	2.6	<0.005	2.52	17.4	6.3	1.51	587	3.11	1.98	2.5	41.6	386
455912 (8971695)	15.1	<0.05	1.6	<0.005	0.20	4.3	12.4	4.46	1510	0.80	2.33	4.0	90.0	430
455913 (8971696)	15.2	<0.05	2.9	<0.005	2.11	16.0	5.6	1.83	797	2.89	1.83	6.2	46.7	437
455914 (8971697)	13.9	<0.05	2.7	<0.005	1.70	18.0	4.9	1.63	838	2.25	2.68	7.1	33.7	543
455915 (8971698)	14.0	0.19	3.0	0.040	1.25	17.1	4.7	1.91	860	2.93	2.97	6.7	39.1	861
455916 (8971699)	16.8	0.15	2.3	0.044	1.67	16.0	7.3	2.54	880	2.08	2.44	5.5	30.2	537
455917 (8971700)	15.9	<0.05	3.3	0.056	1.96	17.6	6.1	1.84	773	2.39	2.10	7.6	22.9	613
455918 (8971701)	15.5	0.15	2.1	0.052	1.88	11.9	5.7	2.08	952	1.79	2.35	4.8	40.9	383
455919/455920 (8971702)	15.5	0.19	1.4	0.049	1.64	9.0	5.8	2.53	1050	2.21	2.24	3.7	57.9	409
455921 (8971704)	13.4	0.16	1.8	0.038	1.04	9.3	6.1	2.73	878	3.61	3.08	3.0	83.8	322
455922 (8971705)	13.6	0.12	1.5	0.040	1.29	10.5	6.8	2.55	775	2.07	2.67	3.0	63.8	294
455923 (8971706)	9.68	0.25	1.2	0.034	1.03	11.3	8.6	1.75	596	4.53	0.78	1.7	86.1	78
455924 (8971707)	23.0	0.55	2.3	0.077	2.06	35.3	23.5	1.82	1030	2.20	3.05	13.3	23.4	1720
455925 (8971708)	6.35	0.49	0.9	0.017	0.41	4.7	5.1	1.75	664	6.44	0.61	2.5	71.4	62
455926 (8971709)	16.0	<0.05	4.9	0.027	1.47	28.1	8.9	1.84	278	3.09	2.76	3.3	31.2	187
455927 (8971710)	11.1	<0.05	5.4	0.007	0.54	34.1	1.3	0.55	195	3.85	4.47	4.2	21.5	316
455928 (8971711)	10.6	<0.05	5.5	0.008	0.52	28.0	1.1	0.39	187	2.67	4.57	6.1	14.3	282
455929 (8971712)	10.0	0.39	4.6	0.030	0.65	8.3	1.7	3.24	2010	2.02	4.35	4.8	15.4	345
455930 (8971713)	14.4	0.09	5.8	0.027	0.98	30.5	2.2	0.90	531	3.55	4.34	7.6	19.5	264
455931 (8971714)	16.6	0.19	3.4	0.072	1.15	20.4	3.6	1.56	991	2.90	3.78	7.5	17.9	707
455932 (8971715)	17.6	0.22	3.7	0.072	1.23	22.6	4.7	1.56	840	2.89	2.75	7.7	16.4	522
455933 (8971716)	15.8	0.26	3.7	0.036	0.97	19.2	4.2	1.88	902	1.91	3.34	7.5	18.3	632
455934 (8971717)	12.8	0.37	1.6	0.043	1.18	19.9	11.6	4.51	1080	2.17	1.27	1.4	241	433
455935 (8971718)	13.3	0.32	2.1	0.029	0.63	22.9	14.2	4.33	762	2.24	2.26	0.8	223	535
455936 (8971719)	17.9	0.16	2.3	0.061	3.44	41.7	34.7	1.61	592	93.3	2.13	17.5	56.8	1040
455937 (8971720)	13.4	0.29	2.3	0.024	0.71	17.8	16.6	3.95	798	2.43	2.76	2.8	177	535
455938 (8971721)	18.2	0.44	3.7	0.087	1.09	16.1	6.6	3.47	1820	1.60	1.84	7.3	62.8	826
455939 (8971722)	17.6	0.54	3.6	0.088	1.49	15.0	7.0	3.26	1790	1.76	1.67	6.5	57.0	790
455940 (8971723)	18.2	0.40	3.6	0.089	0.80	15.3	4.7	3.33	1840	1.96	1.83	7.4	63.4	810
455941 (8971724)	18.6	0.40	3.8	0.086	0.66	17.3	5.2	3.03	1630	1.99	1.98	7.5	56.0	776
455942 (8971725)	12.3	<0.05	5.5	0.010	0.54	52.1	3.0	0.37	145	3.74	3.86	5.7	8.7	248
455943 (8971726)	13.7	<0.05	4.5	0.021	1.22	30.5	5.3	0.94	359	3.24	3.03	6.0	11.0	214

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AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-089) 4 Acid Digest - Metals Package, ICP/ICP-MS finish with Hg-ICP-MS

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Jan 19, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Unit:	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.05	0.05	0.1	0.005	0.01	0.5	0.1	0.01	1	0.05	0.01	0.1	0.5	10
455944 (8971727)	26.9	0.40	2.4	0.070	3.31	14.9	16.6	4.22	1580	0.88	0.68	8.4	58.2	180
455945 (8971728)	20.6	0.36	2.1	0.042	2.11	5.1	7.9	2.68	1200	0.87	3.25	8.9	33.2	379
455946 (8971729)	13.0	0.53	1.5	0.028	1.08	4.3	8.2	3.38	1160	2.52	0.47	5.0	19.6	162
455947 (8971730)	16.9	<0.05	5.7	0.021	1.21	18.6	10.5	1.98	190	2.00	2.51	4.3	14.0	237
455948 (8971731)	24.7	0.44	2.5	0.077	1.75	38.0	20.5	1.71	951	1.98	2.74	14.5	13.3	1760
455949 (8971732)	18.7	0.06	4.7	0.025	1.20	26.1	14.6	2.96	342	2.30	1.38	3.1	21.1	305
455950 (8971733)	17.7	0.42	2.6	0.077	0.57	11.7	11.0	3.51	1670	1.66	1.65	5.6	51.9	526
455951 (8971734)	18.9	0.24	2.2	0.038	0.24	12.7	31.3	6.02	522	1.30	1.24	1.6	11.5	569
455952 (8971735)	13.2	0.30	2.1	0.059	1.70	15.2	14.9	4.29	908	1.28	1.30	0.8	52.0	256
455953 (8971736)	15.1	0.13	1.0	0.064	1.62	9.2	29.4	6.39	617	0.76	0.61	1.3	89.8	274
455954 (8971737)	14.6	0.25	0.8	0.047	0.16	7.5	10.2	3.32	792	0.36	3.31	1.0	55.4	277
455955 (8971738)	16.4	0.27	1.2	0.069	0.39	9.9	14.4	3.02	742	0.43	2.47	1.3	39.8	360
455956 (8971739)	16.0	0.29	1.6	0.065	0.30	14.2	13.4	2.73	725	0.86	2.50	1.8	29.4	528
455957 (8971740)	17.6	0.38	1.4	0.066	0.20	29.1	12.4	2.65	705	0.55	2.93	1.1	11.1	495
455958 (8971741)	16.5	0.32	2.0	0.049	0.22	19.8	12.6	2.47	627	0.55	2.80	2.4	11.6	750
455959 (8971742)	15.2	0.32	1.8	0.037	0.42	15.2	11.2	2.12	515	0.90	2.55	2.4	12.9	728
455960 (8971743)	18.4	<0.05	2.3	0.183	3.16	35.2	32.5	1.54	577	91.8	2.04	18.1	37.3	1000
455961 (8971744)	16.1	0.18	2.0	0.035	0.29	15.6	10.0	2.15	482	0.93	2.70	3.3	9.1	701
455962 (8971745)	19.9	0.16	2.2	0.053	0.28	29.1	13.9	2.88	546	0.55	3.14	3.8	11.0	858
455963 (8971746)	18.2	0.20	2.0	0.046	0.15	24.1	18.5	3.42	740	0.74	2.44	4.6	108	1190
455964 (8971747)	17.2	0.55	2.5	0.018	1.25	19.3	28.9	5.06	1050	0.52	0.09	12.0	578	743
455965 (8971748)	17.5	0.34	2.3	0.022	0.48	21.4	23.7	4.04	778	0.65	1.54	3.9	140	783
455966 (8971749)	21.4	0.33	2.6	0.012	0.31	17.1	24.5	4.35	862	0.52	1.82	2.1	13.5	813
455967 (8971750)	19.2	0.24	2.2	0.019	0.35	22.9	18.3	3.59	826	0.52	3.01	2.5	9.0	832
455968 (8971751)	20.1	0.21	2.7	0.022	0.71	22.7	49.6	5.32	906	0.85	2.23	4.5	10.9	910

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Certificate of Analysis

AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-089) 4 Acid Digest - Metals Package, ICP/ICP-MS finish with Hg-ICP-MS

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Jan 19, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Tl	U
Unit:	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.1	0.1	0.002	0.01	0.05	0.1	0.5	0.2	0.2	0.05	0.01	0.01	0.01	0.005
455815 (8971598)	1.9	32.0	0.004	0.25	0.11	19.8	0.6	2.0	203	0.52	0.07	2.40	0.12	0.519
455816 (8971599)	1.8	28.1	<0.002	0.23	0.06	17.0	0.6	2.3	195	0.43	0.03	2.28	0.09	0.474
455817 (8971600)	1.9	15.1	<0.002	0.12	0.06	17.5	<0.5	1.2	216	0.35	0.01	4.11	0.05	0.992
455818 (8971601)	3.8	3.0	<0.002	0.22	0.06	19.0	<0.5	0.4	297	0.51	0.03	4.11	<0.01	1.09
455819 (8971602)	2.8	5.5	0.002	0.25	0.08	18.6	0.5	0.5	275	0.88	0.04	3.93	0.02	1.05
455820 (8971603)	2.7	4.5	0.003	0.21	0.10	17.2	0.6	0.5	232	0.52	0.04	3.69	0.02	0.992
455821 (8971604)	2.3	3.5	0.002	0.33	0.08	19.3	0.6	0.5	201	0.65	0.03	4.16	<0.01	1.12
455822 (8971605)	2.0	8.0	0.002	0.24	0.08	19.8	0.5	0.6	237	0.54	0.02	3.00	0.03	0.775
455823 (8971606)	1.5	17.9	0.003	0.08	0.05	19.4	<0.5	1.0	244	0.56	0.01	1.57	0.06	0.381
455824 (8971607)	13.1	107	0.003	0.17	0.09	16.7	1.1	2.2	583	0.93	0.02	4.39	0.48	1.34
455825 (8971608)	1.9	21.1	0.003	0.08	<0.05	17.8	<0.5	1.2	184	0.53	<0.01	2.03	0.07	0.456
455826 (8971609)	3.7	6.2	0.004	0.11	0.27	22.9	1.0	6.4	371	0.48	0.01	2.27	0.02	0.817
455827 (8971610)	5.5	5.0	0.003	0.15	0.22	15.3	2.0	19.7	416	0.65	0.02	3.77	0.01	2.03
455828 (8971611)	4.5	2.5	0.003	0.08	0.22	19.0	1.8	22.8	452	0.25	0.01	2.50	<0.01	2.29
455829 (8971612)	2.0	7.2	0.003	0.28	0.09	22.4	0.9	3.1	166	0.57	0.02	2.52	0.02	0.661
455830 (8971613)	3.2	12.5	0.004	1.04	<0.05	12.5	1.7	4.4	126	0.33	0.05	4.48	0.03	0.892
455831 (8971614)	2.9	5.8	0.003	0.20	0.10	20.7	0.8	3.6	52.1	0.43	0.02	3.52	<0.01	0.816
455832 (8971615)	1.7	13.6	0.003	0.21	0.08	21.8	0.7	4.3	140	0.49	0.02	1.81	0.03	0.514
455833 (8971616)	2.3	13.3	0.002	0.11	0.07	20.8	0.9	1.5	189	0.47	<0.01	2.14	0.03	0.524
455834 (8971617)	2.2	13.4	0.002	0.12	0.06	19.9	0.6	1.8	131	0.49	0.01	2.21	0.05	0.562
455835 (8971618)	2.9	6.9	0.003	0.02	<0.05	17.3	<0.5	2.3	<0.2	0.54	0.02	2.63	0.01	0.535
455836 (8971619)	22.1	194	0.003	0.36	1.91	12.5	1.9	3.0	317	1.20	0.21	19.1	1.01	5.65
455837 (8971620)	2.2	14.1	0.003	1.10	0.08	23.2	2.0	3.7	0.9	0.52	0.07	1.94	0.03	0.616
455838 (8971621)	1.4	28.6	<0.002	0.55	0.14	15.9	1.3	3.1	29.2	0.37	0.02	2.99	0.07	0.527
455839 (8971622)	1.2	23.3	0.004	0.21	0.05	25.1	0.7	2.2	71.5	0.41	0.02	1.64	0.06	0.456
455840 (8971623)	1.1	6.2	0.003	0.15	0.05	24.0	0.6	1.1	130	0.38	0.01	2.00	0.01	0.505
455841 (8971624)	1.1	4.9	0.003	0.13	<0.05	22.7	0.5	1.1	99.4	0.37	0.01	1.91	<0.01	0.497
455842 (8971625)	0.8	4.2	0.003	0.20	<0.05	25.6	0.7	1.3	110	0.34	<0.01	1.55	<0.01	0.417
455843 (8971626)	1.2	10.9	0.003	0.35	0.10	22.0	<0.5	2.3	67.9	0.36	0.14	2.94	0.03	0.736
455844 (8971627)	1.1	25.6	0.003	0.07	0.10	21.6	<0.5	3.4	130	0.35	0.01	2.49	0.07	1.08
455845 (8971628)	1.8	32.3	<0.002	0.14	0.10	12.2	0.8	2.3	120	0.81	0.01	6.86	0.10	1.55
455846 (8971629)	2.4	42.4	0.002	0.46	0.14	13.1	1.7	2.4	166	1.09	0.10	6.93	0.13	1.30

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AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-089) 4 Acid Digest - Metals Package, ICP/ICP-MS finish with Hg-ICP-MS

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Jan 19, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Tl	U
Unit:	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.1	0.1	0.002	0.01	0.05	0.1	0.5	0.2	0.2	0.05	0.01	0.01	0.01	0.005
455847 (8971630)	1.5	44.5	0.002	0.15	0.14	26.3	0.7	1.4	208	0.38	0.02	2.02	0.20	0.472
455848 (8971631)	12.7	101	0.003	0.18	<0.05	18.8	1.0	2.3	612	0.72	0.02	4.42	0.46	1.47
455849 (8971632)	1.6	18.0	0.002	0.24	0.12	25.0	0.6	1.5	160	0.36	0.01	1.72	0.09	0.464
455850 (8971633)	1.9	15.9	0.003	0.15	0.26	25.1	0.6	1.7	151	0.31	0.02	1.87	0.06	0.472
455851 (8971634)	2.3	16.5	0.002	1.14	0.32	28.3	1.5	2.7	161	0.35	0.10	1.67	0.08	0.471
455852 (8971635)	2.4	16.3	0.003	0.22	0.36	28.6	0.8	2.1	197	0.36	0.02	1.72	0.07	0.443
455853 (8971636)	1.0	16.2	0.003	0.15	0.22	28.8	0.7	2.7	66.3	0.32	0.02	1.95	0.07	0.405
455854 (8971637)	2.2	21.5	0.003	0.17	0.21	26.3	0.6	3.0	160	0.32	0.01	1.38	0.10	0.388
455855 (8971638)	1.6	19.2	0.002	0.49	0.84	31.3	1.2	2.5	89.7	0.34	0.03	1.19	0.09	0.370
455856 (8971639)	1.4	16.2	0.002	0.21	0.21	30.3	0.8	2.7	114	0.30	0.01	1.18	0.07	0.348
455857 (8971640)	1.4	18.5	0.003	0.19	0.18	27.5	0.7	2.2	92.8	0.28	0.02	1.22	0.08	0.308
455858 (8971641)	2.3	17.0	0.003	0.14	0.27	28.7	0.7	2.3	149	0.24	0.03	1.49	0.07	0.406
455859 (8971642)	2.7	32.1	0.003	0.14	0.25	27.2	0.6	0.9	231	<0.05	<0.01	1.31	0.16	0.340
455860 (8971643)	23.3	194	0.005	0.36	0.71	12.8	3.2	4.6	349	1.21	0.10	19.0	0.98	5.58
455861 (8971644)	2.8	25.5	0.004	0.30	0.28	26.2	0.7	1.3	160	0.28	0.02	1.37	0.14	0.355
455862 (8971645)	2.6	27.8	0.003	0.16	0.27	28.1	0.8	1.5	156	0.30	0.01	1.44	0.15	0.353
455863 (8971646)	2.0	10.2	0.003	0.16	0.15	27.5	0.8	1.0	102	0.30	<0.01	1.46	0.05	0.364
455864 (8971647)	0.9	6.6	<0.002	0.20	0.11	25.6	0.9	0.9	59.9	0.26	0.01	0.99	0.02	0.266
455865 (8971648)	1.0	9.8	0.002	0.05	0.18	27.3	0.5	1.5	53.3	0.49	0.02	2.37	0.03	0.506
455866 (8971649)	1.7	6.9	0.002	0.08	0.15	22.5	0.6	1.5	133	0.55	<0.01	3.42	0.02	0.742
455867 (8971650)	1.8	6.7	<0.002	0.20	0.14	23.0	0.8	1.4	139	0.48	0.02	3.97	0.02	0.874
455868 (8971651)	1.9	12.0	<0.002	0.15	0.16	16.5	0.7	2.0	166	0.59	0.02	4.06	0.03	0.915
455869 (8971652)	1.7	10.9	<0.002	0.10	0.13	22.3	0.6	1.8	177	0.44	0.02	2.72	0.04	0.720
455870 (8971653)	1.2	9.6	0.004	0.08	0.10	27.8	<0.5	1.5	143	0.26	0.04	1.19	0.05	0.331
455871 (8971654)	1.6	15.7	0.002	0.08	0.21	25.4	<0.5	2.0	163	0.09	0.02	2.36	0.07	0.529
455872 (8971655)	13.1	104	0.002	0.21	<0.05	19.4	1.1	2.2	646	0.75	0.02	3.63	0.48	1.43
455873 (8971656)	1.5	10.8	<0.002	0.09	0.07	22.7	<0.5	1.7	178	0.14	<0.01	2.17	0.04	0.502
455874 (8971657)	2.0	9.3	<0.002	0.16	0.12	21.0	<0.5	1.5	158	0.33	0.02	2.23	0.03	0.515
455875 (8971658)	1.8	12.8	0.002	0.13	0.16	22.5	<0.5	1.6	154	0.33	0.04	2.86	0.04	0.593
455876 (8971659)	2.5	1.0	<0.002	0.98	2.01	21.7	<0.5	0.4	151	0.27	0.28	1.51	<0.01	0.337
455877 (8971660)	3.2	1.8	0.002	0.89	7.69	20.1	<0.5	0.3	174	0.36	0.19	1.27	<0.01	0.288
455878 (8971661)	1.7	1.4	0.003	0.22	1.77	19.4	<0.5	0.4	152	0.26	0.06	1.29	<0.01	0.251

Certified By:

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-089) 4 Acid Digest - Metals Package, ICP/ICP-MS finish with Hg-ICP-MS

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Jan 19, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Tl	U
Unit:	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.1	0.1	0.002	0.01	0.05	0.1	0.5	0.2	0.2	0.05	0.01	0.01	0.01	0.005
455879 (8971662)	1.1	7.7	<0.002	0.16	0.17	19.5	<0.5	0.4	140	0.32	0.04	1.25	0.04	0.247
455880 (8971663)	1.4	18.6	0.004	0.44	0.52	18.7	<0.5	0.7	137	0.10	0.03	1.16	0.11	0.212
455881 (8971664)	2.4	43.6	0.003	1.08	5.19	19.4	<0.5	0.3	178	0.05	0.19	1.57	0.16	0.295
455882 (8971665)	2.0	20.9	<0.002	1.39	3.98	20.8	<0.5	0.2	160	0.06	0.19	1.20	0.08	0.273
455883 (8971666)	1.7	27.2	0.002	1.89	1.50	21.9	<0.5	0.3	207	0.09	0.17	1.33	0.11	0.246
455884 (8971667)	25.6	101	0.010	1.21	1.32	13.7	11.5	9.5	403	0.60	0.38	8.41	0.49	2.39
455885 (8971668)	2.9	26.5	<0.002	0.84	0.31	21.9	<0.5	0.4	147	0.10	0.09	1.39	0.12	0.239
455886 (8971669)	2.8	25.7	0.003	0.85	0.20	17.0	<0.5	0.3	128	<0.05	0.08	1.30	0.13	0.232
455887 (8971670)	2.1	20.9	0.002	0.93	0.85	13.4	<0.5	0.2	196	0.05	0.12	1.31	0.08	0.240
455888 (8971671)	2.7	11.8	<0.002	1.72	0.52	18.7	<0.5	0.3	239	<0.05	0.23	1.09	0.05	0.210
455889 (8971672)	2.0	29.1	0.002	1.39	0.40	20.7	<0.5	0.3	189	0.06	0.21	1.12	0.16	0.204
455890 (8971673)	1.4	39.6	0.002	0.96	0.31	18.0	<0.5	0.3	171	0.06	0.20	1.13	0.26	0.204
455891 (8971674)	1.6	29.8	0.002	0.59	0.23	17.9	<0.5	0.3	145	<0.05	0.14	1.22	0.20	0.214
455892 (8971675)	1.3	17.8	<0.002	0.74	0.25	16.8	<0.5	0.3	169	0.05	0.15	1.17	0.11	0.209
455893 (8971676)	2.4	21.8	<0.002	1.57	0.38	15.7	<0.5	0.3	130	0.05	0.11	1.01	0.13	0.181
455894 (8971677)	1.2	37.7	<0.002	1.01	0.21	20.4	<0.5	0.3	139	0.07	0.12	1.29	0.21	0.233
455895 (8971678)	1.3	40.3	<0.002	0.73	0.29	21.1	<0.5	0.4	194	0.06	0.12	1.15	0.21	0.214
455896 (8971679)	12.1	96.5	<0.002	0.18	0.06	18.4	0.8	2.2	575	0.62	0.02	3.50	0.45	1.17
455897 (8971680)	1.8	45.1	0.003	1.09	0.31	24.1	<0.5	0.6	173	0.07	0.14	1.30	0.24	0.254
455898 (8971681)	1.8	18.8	<0.002	3.29	0.69	23.8	<0.5	0.4	181	0.06	0.35	1.20	0.09	0.257
455899 (8971682)	4.3	43.9	0.004	4.82	0.73	20.6	<0.5	1.1	180	0.08	0.70	2.01	0.18	0.538
455900 (8971683)	2.7	75.5	0.002	2.60	0.44	16.7	<0.5	1.7	116	0.13	0.26	4.40	0.32	0.707
455901 (8971684)	2.5	75.1	0.002	2.72	0.42	15.3	<0.5	1.6	111	0.12	0.25	3.96	0.33	0.744
455902 (8971685)	3.0	65.1	0.002	1.90	0.37	11.5	<0.5	2.2	127	0.20	0.21	3.52	0.29	0.691
455903 (8971686)	3.6	77.2	0.002	1.75	0.37	19.7	<0.5	1.7	133	0.41	0.31	4.06	0.38	0.785
455904 (8971687)	367	63.7	0.003	1.56	0.32	17.3	<0.5	1.7	126	0.33	0.35	3.66	0.30	0.689
455905 (8971688)	2.0	86.9	0.004	0.88	0.27	17.7	<0.5	2.0	116	0.48	0.21	2.36	0.44	0.540
455906 (8971689)	1.5	67.2	<0.002	0.46	0.31	15.7	<0.5	1.6	140	0.38	0.05	2.70	0.29	0.543
455907 (8971690)	2.9	93.5	0.002	1.70	0.56	25.1	0.7	2.7	157	0.42	0.23	1.51	0.49	0.418
455908 (8971691)	3.4	87.8	<0.002	2.16	0.84	24.5	<0.5	2.8	174	0.24	0.27	0.89	0.34	0.255
455909 (8971692)	2.3	99.1	<0.002	2.56	0.85	24.9	0.5	3.5	165	0.23	0.48	0.77	0.37	0.308
455910 (8971693)	2.1	83.9	0.002	2.91	0.62	10.9	<0.5	2.9	117	0.24	0.19	2.65	0.27	0.439

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AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

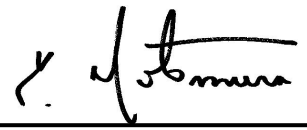
ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-089) 4 Acid Digest - Metals Package, ICP/ICP-MS finish with Hg-ICP-MS

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Jan 19, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Tl	U
Unit:	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.1	0.1	0.002	0.01	0.05	0.1	0.5	0.2	0.2	0.05	0.01	0.01	0.01	0.005
455911 (8971694)	3.1	78.9	0.003	4.67	0.76	15.6	0.6	2.8	144	0.16	0.31	3.46	0.26	0.707
455912 (8971695)	3.0	4.1	0.003	0.23	0.55	45.9	0.9	0.9	126	0.25	0.07	0.40	<0.01	0.104
455913 (8971696)	6.0	71.8	<0.002	3.56	0.69	18.8	0.5	2.6	153	0.42	0.23	3.36	0.26	0.705
455914 (8971697)	44.5	50.3	0.002	2.06	0.43	18.2	<0.5	2.3	163	0.47	0.18	4.02	0.17	0.898
455915 (8971698)	306	48.8	0.004	1.51	1.19	20.0	<0.5	1.9	134	0.45	0.16	3.03	0.29	0.681
455916 (8971699)	35.6	60.9	<0.002	0.58	0.20	19.3	<0.5	2.3	132	0.39	0.07	3.06	0.32	0.679
455917 (8971700)	75.1	65.1	0.004	1.77	0.35	17.6	<0.5	3.0	136	0.55	0.15	3.88	0.29	0.887
455918 (8971701)	117	63.5	0.003	1.85	0.72	19.8	<0.5	2.6	152	0.35	0.15	2.22	0.31	0.698
455919/455920 (8971702)	34.2	65.8	0.004	1.73	0.53	21.1	<0.5	2.2	152	0.25	0.19	1.51	0.34	0.351
455921 (8971704)	2.0	39.7	0.002	0.55	0.24	17.5	<0.5	1.5	151	0.21	0.07	1.69	0.21	0.475
455922 (8971705)	3.0	48.6	<0.002	1.49	0.22	18.7	<0.5	2.3	129	0.28	0.15	2.56	0.23	0.537
455923 (8971706)	2.5	35.5	0.004	2.72	0.30	10.1	<0.5	1.8	70.8	0.09	0.48	1.21	0.13	0.393
455924 (8971707)	13.0	105	<0.002	0.21	<0.05	18.4	0.7	2.5	637	0.68	0.04	3.89	0.47	1.35
455925 (8971708)	1.9	12.6	<0.002	0.68	0.18	6.5	<0.5	0.8	66.6	0.09	0.05	0.85	0.04	0.383
455926 (8971709)	2.3	45.8	<0.002	1.53	0.24	9.6	<0.5	2.6	70.4	0.25	0.10	8.00	0.16	1.86
455927 (8971710)	2.4	16.6	<0.002	1.59	0.22	4.4	<0.5	0.9	98.8	0.36	0.13	9.64	0.05	2.08
455928 (8971711)	2.4	14.9	0.002	1.41	0.21	3.8	<0.5	0.9	99.0	0.59	0.09	10.9	0.04	2.38
455929 (8971712)	2.9	18.6	<0.002	1.79	0.23	11.0	<0.5	1.2	265	0.52	0.26	6.41	0.08	2.22
455930 (8971713)	5.2	30.1	0.002	1.53	0.30	6.8	<0.5	1.8	139	0.65	0.21	9.70	0.11	2.28
455931 (8971714)	151	41.2	<0.002	0.77	0.29	17.4	<0.5	2.6	177	0.54	0.07	4.43	0.18	1.14
455932 (8971715)	248	37.5	<0.002	0.55	0.50	15.0	<0.5	3.3	152	0.59	0.03	4.78	0.15	1.16
455933 (8971716)	59.9	29.0	<0.002	0.66	0.37	18.3	<0.5	2.8	217	0.59	0.04	4.04	0.11	1.20
455934 (8971717)	4.3	37.9	<0.002	0.09	0.23	20.5	<0.5	3.3	164	0.09	0.01	1.89	0.12	0.514
455935 (8971718)	1.5	23.0	<0.002	0.27	0.19	19.6	<0.5	1.8	178	0.06	0.08	2.82	0.08	0.625
455936 (8971719)	22.1	197	<0.002	0.36	2.02	12.9	1.9	3.0	329	1.17	0.23	20.9	1.01	5.37
455937 (8971720)	2.8	40.6	<0.002	0.18	0.23	20.3	<0.5	1.9	165	0.15	0.04	2.87	0.26	0.718
455938 (8971721)	5.5	64.3	0.005	0.20	0.12	39.5	1.2	1.2	166	0.41	0.03	2.28	0.37	0.585
455939 (8971722)	4.1	84.4	0.004	0.18	0.13	35.8	1.0	1.2	208	0.35	<0.01	2.07	0.41	0.537
455940 (8971723)	4.0	43.1	0.004	0.20	0.14	36.9	1.1	1.2	144	0.43	0.03	2.19	0.23	0.566
455941 (8971724)	4.5	37.4	0.004	0.29	0.22	35.5	1.1	1.2	129	0.44	0.03	2.91	0.24	0.727
455942 (8971725)	10.2	17.8	<0.002	0.81	0.22	3.6	<0.5	1.3	104	0.50	0.03	11.0	0.05	2.33
455943 (8971726)	8.4	39.2	<0.002	1.67	0.28	8.0	<0.5	2.4	90.7	0.43	0.08	8.56	0.13	1.63

Certified By:



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Unit:	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.1	0.1	0.002	0.01	0.05	0.1	0.5	0.2	0.2	0.05	0.01	0.01	0.01	0.005
455944 (8971727)	17.8	94.1	<0.002	0.16	0.21	29.6	0.6	7.9	194	0.33	0.05	3.27	0.35	0.738
455945 (8971728)	3.0	69.9	<0.002	0.43	0.21	26.4	<0.5	6.7	188	0.42	0.02	1.55	0.24	0.766
455946 (8971729)	2.8	33.5	<0.002	0.07	0.16	11.8	<0.5	3.3	107	0.15	<0.01	1.33	0.09	0.465
455947 (8971730)	1.7	43.1	<0.002	0.02	0.08	6.7	<0.5	2.8	71.3	0.27	<0.01	8.98	0.13	2.21
455948 (8971731)	13.2	105	0.003	0.16	<0.05	16.3	1.1	2.4	558	0.77	0.03	4.46	0.50	1.43
455949 (8971732)	2.0	45.6	<0.002	0.05	0.10	9.0	<0.5	3.0	58.9	0.18	<0.01	7.49	0.16	1.64
455950 (8971733)	3.4	41.0	0.002	0.20	0.15	38.4	0.9	0.9	129	0.30	0.02	1.61	0.25	0.397
455951 (8971734)	1.4	9.0	<0.002	0.39	0.16	24.2	0.7	0.6	116	0.12	0.02	2.47	0.03	0.416
455952 (8971735)	1.0	53.6	<0.002	0.11	0.13	18.9	<0.5	1.6	164	0.06	0.02	3.21	0.15	0.630
455953 (8971736)	0.8	54.4	<0.002	0.04	0.12	26.2	<0.5	1.7	80.0	0.20	0.01	0.82	0.15	0.163
455954 (8971737)	1.1	6.5	<0.002	0.11	0.11	26.9	<0.5	1.8	246	0.07	0.05	0.85	0.01	0.192
455955 (8971738)	1.2	22.3	<0.002	0.14	0.10	30.0	<0.5	10.2	178	0.07	<0.01	1.12	0.10	0.719
455956 (8971739)	1.3	13.2	<0.002	0.11	0.15	28.6	<0.5	13.3	185	0.10	0.02	1.64	0.04	0.970
455957 (8971740)	4.1	5.2	<0.002	0.09	0.08	26.7	<0.5	12.7	128	<0.05	<0.01	2.09	0.01	1.15
455958 (8971741)	1.4	5.5	<0.002	0.09	0.09	23.7	<0.5	8.3	117	0.14	0.01	2.09	0.01	0.991
455959 (8971742)	1.4	10.6	<0.002	0.75	0.17	21.0	0.5	5.7	127	0.15	0.03	2.24	0.04	0.754
455960 (8971743)	22.5	189	0.004	0.33	0.70	12.6	3.2	4.7	337	1.12	0.09	17.6	0.97	4.94
455961 (8971744)	0.9	8.1	<0.002	0.07	0.10	20.1	<0.5	6.1	110	0.16	0.01	2.41	0.02	0.818
455962 (8971745)	1.4	9.3	<0.002	0.06	0.15	31.6	<0.5	10.2	147	0.22	0.02	3.27	0.02	0.919
455963 (8971746)	1.4	8.3	<0.002	0.06	0.20	29.6	0.6	8.5	112	0.26	<0.01	4.32	0.03	1.05
455964 (8971747)	0.9	86.2	<0.002	0.23	0.21	29.2	0.5	6.9	34.7	0.69	0.05	2.33	0.37	0.644
455965 (8971748)	1.3	24.2	<0.002	0.07	0.16	26.6	0.6	8.6	67.0	0.11	0.02	2.42	0.10	0.970
455966 (8971749)	1.1	16.3	<0.002	0.04	0.09	24.4	<0.5	5.9	42.8	<0.05	<0.01	2.59	0.05	0.976
455967 (8971750)	1.1	16.4	<0.002	0.05	0.15	28.3	<0.5	6.4	83.4	0.06	<0.01	2.60	0.06	0.998
455968 (8971751)	2.4	40.8	<0.002	0.03	0.28	30.9	<0.5	9.0	62.5	0.31	<0.01	2.82	0.17	1.14

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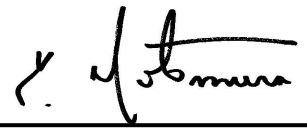

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Certificate of Analysis

AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-089) 4 Acid Digest - Metals Package, ICP/ICP-MS finish with Hg-ICP-MS

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Jan 19, 2018 | SAMPLE TYPE: Drill Core

Analyte:	V	W	Y	Zn	Zr	Hg
Unit:	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.5	0.1	0.1	0.5	0.5	0.01
455815 (8971598)	143	1.2	14.6	77.5	75.9	0.01
455816 (8971599)	98.2	0.9	13.3	71.3	84.3	0.02
455817 (8971600)	135	0.5	17.0	95.5	101	0.03
455818 (8971601)	164	0.2	21.0	106	131	0.04
455819 (8971602)	163	0.2	21.4	103	134	0.02
455820 (8971603)	149	0.3	25.1	92.9	128	0.03
455821 (8971604)	169	0.3	23.8	101	136	0.02
455822 (8971605)	158	0.3	21.2	94.7	99.8	0.02
455823 (8971606)	123	0.3	15.0	78.2	40.4	<0.01
455824 (8971607)	121	0.2	38.4	91.2	91.1	0.01
455825 (8971608)	130	0.4	11.4	86.9	41.9	0.02
455826 (8971609)	192	0.8	38.6	63.3	37.9	0.03
455827 (8971610)	127	1.3	76.3	43.0	59.4	0.02
455828 (8971611)	142	0.4	84.9	46.4	52.0	0.03
455829 (8971612)	192	1.0	27.0	63.9	45.0	0.02
455830 (8971613)	82.1	1.1	17.0	53.5	56.6	0.01
455831 (8971614)	143	1.4	23.1	98.4	72.0	<0.01
455832 (8971615)	175	2.9	25.6	60.1	51.9	0.02
455833 (8971616)	160	0.9	26.8	54.1	51.3	0.02
455834 (8971617)	166	0.6	19.5	73.4	43.4	0.03
455835 (8971618)	143	0.4	19.2	154	56.2	0.02
455836 (8971619)	113	4.9	24.2	82.9	66.6	<0.01
455837 (8971620)	203	0.8	25.1	144	36.4	0.01
455838 (8971621)	146	1.1	15.5	106	55.6	0.03
455839 (8971622)	215	0.9	19.4	82.4	37.0	0.03
455840 (8971623)	215	0.4	19.6	78.0	31.9	0.03
455841 (8971624)	190	0.3	20.2	79.4	43.9	0.01
455842 (8971625)	232	0.3	19.7	85.5	38.7	0.01
455843 (8971626)	135	0.5	14.7	74.7	82.0	0.02
455844 (8971627)	140	7.3	17.4	50.6	83.6	0.01
455845 (8971628)	41.6	1.4	33.5	24.3	82.5	<0.01
455846 (8971629)	63.4	1.1	38.2	30.1	84.6	<0.01

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AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-089) 4 Acid Digest - Metals Package, ICP/ICP-MS finish with Hg-ICP-MS

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Jan 19, 2018 | SAMPLE TYPE: Drill Core

Analyte:	V	W	Y	Zn	Zr	Hg
Unit:	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.5	0.1	0.1	0.5	0.5	0.01
455847 (8971630)	252	0.3	20.9	56.5	29.7	0.01
455848 (8971631)	134	0.2	41.1	94.6	79.2	0.02
455849 (8971632)	238	0.7	21.1	56.1	25.4	0.01
455850 (8971633)	276	0.7	18.2	78.6	32.6	0.02
455851 (8971634)	324	1.2	16.3	78.8	32.6	0.02
455852 (8971635)	345	1.2	17.0	74.8	32.0	0.02
455853 (8971636)	332	1.1	20.2	105	35.6	0.04
455854 (8971637)	283	0.8	19.1	70.4	33.9	0.02
455855 (8971638)	352	0.7	19.3	93.9	31.7	0.05
455856 (8971639)	329	0.6	18.5	84.9	31.4	0.03
455857 (8971640)	281	0.5	16.8	79.3	26.5	0.03
455858 (8971641)	298	0.5	17.8	78.9	30.8	0.03
455859 (8971642)	304	<0.1	19.8	101	26.4	0.04
455860 (8971643)	116	2.8	25.2	101	74.3	0.04
455861 (8971644)	291	0.3	20.4	100	30.3	0.03
455862 (8971645)	309	0.3	20.5	106	30.8	0.04
455863 (8971646)	303	0.2	20.9	108	30.6	0.03
455864 (8971647)	291	0.7	17.5	122	26.7	0.02
455865 (8971648)	313	1.2	22.2	157	31.7	<0.01
455866 (8971649)	181	1.5	15.3	125	58.6	0.01
455867 (8971650)	184	0.7	12.1	92.8	56.2	<0.01
455868 (8971651)	100	0.8	13.8	61.0	82.1	0.03
455869 (8971652)	181	0.7	9.9	74.3	117	0.02
455870 (8971653)	218	0.5	5.3	74.5	55.7	<0.01
455871 (8971654)	243	<0.1	5.7	65.4	61.7	<0.01
455872 (8971655)	140	0.2	39.6	103	91.2	0.03
455873 (8971656)	185	0.3	5.2	59.8	73.9	0.01
455874 (8971657)	180	1.1	5.1	46.7	95.2	0.02
455875 (8971658)	164	1.6	5.5	50.2	83.2	0.03
455876 (8971659)	167	1.9	8.1	78.9	74.5	0.03
455877 (8971660)	157	1.4	6.7	62.1	71.5	0.03
455878 (8971661)	152	0.6	5.7	61.3	70.1	0.03

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AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-089) 4 Acid Digest - Metals Package, ICP/ICP-MS finish with Hg-ICP-MS

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Jan 19, 2018 | SAMPLE TYPE: Drill Core

Analyte:	V	W	Y	Zn	Zr	Hg
Unit:	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.5	0.1	0.1	0.5	0.5	0.01
455879 (8971662)	152	0.3	4.5	64.9	66.2	0.03
455880 (8971663)	146	0.8	5.0	65.4	59.8	0.03
455881 (8971664)	142	1.6	6.9	64.2	83.2	0.04
455882 (8971665)	136	3.7	5.9	55.2	61.8	0.04
455883 (8971666)	179	4.2	5.6	60.9	72.9	0.02
455884 (8971667)	135	3.1	16.4	97.0	53.0	0.02
455885 (8971668)	164	2.6	5.6	75.1	62.9	0.01
455886 (8971669)	155	1.2	5.3	82.2	55.3	<0.01
455887 (8971670)	112	1.6	7.1	69.8	62.2	0.02
455888 (8971671)	132	1.6	4.2	79.2	56.6	0.02
455889 (8971672)	142	2.5	3.8	83.8	53.6	0.02
455890 (8971673)	136	1.8	3.9	81.2	54.2	0.03
455891 (8971674)	128	1.3	4.1	84.8	59.4	0.03
455892 (8971675)	122	1.7	4.2	80.4	59.4	0.03
455893 (8971676)	113	1.7	7.5	65.0	48.3	<0.01
455894 (8971677)	137	1.6	4.9	85.1	66.8	0.02
455895 (8971678)	133	1.7	3.9	71.5	63.9	0.01
455896 (8971679)	130	0.4	37.7	93.6	78.2	0.02
455897 (8971680)	163	3.3	4.8	66.2	65.1	<0.01
455898 (8971681)	152	3.5	4.4	77.9	68.9	<0.01
455899 (8971682)	149	7.2	7.3	61.6	81.4	0.01
455900 (8971683)	131	9.6	6.7	49.5	101	0.02
455901 (8971684)	104	9.4	6.5	39.8	107	<0.01
455902 (8971685)	78.5	8.4	7.0	36.2	106	0.01
455903 (8971686)	161	14.6	6.0	66.1	86.4	0.02
455904 (8971687)	137	15.9	6.3	86.6	70.9	0.01
455905 (8971688)	136	17.9	5.7	65.8	74.8	0.02
455906 (8971689)	151	9.7	5.6	36.1	76.0	0.03
455907 (8971690)	260	11.8	6.1	287	60.1	0.03
455908 (8971691)	219	13.0	4.7	47.9	50.6	0.03
455909 (8971692)	256	18.6	5.6	50.0	60.1	0.02
455910 (8971693)	94.4	11.7	6.3	13.4	50.8	0.03

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AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-089) 4 Acid Digest - Metals Package, ICP/ICP-MS finish with Hg-ICP-MS

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Jan 19, 2018 | SAMPLE TYPE: Drill Core

Analyte:	V	W	Y	Zn	Zr	Hg
Unit:	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.5	0.1	0.1	0.5	0.5	0.01
455911 (8971694)	130	12.0	6.3	13.1	86.9	0.03
455912 (8971695)	397	1.1	21.9	75.0	46.6	0.03
455913 (8971696)	175	12.3	6.4	36.7	97.8	0.01
455914 (8971697)	142	11.1	6.7	154	87.9	0.03
455915 (8971698)	168	12.7	5.7	891	92.0	0.02
455916 (8971699)	162	12.0	4.8	173	70.4	0.02
455917 (8971700)	128	12.7	6.1	181	98.3	0.01
455918 (8971701)	196	13.2	4.2	357	66.9	0.01
455919/455920 (8971702)	213	11.2	4.0	122	42.7	0.02
455921 (8971704)	137	10.7	3.7	53.3	58.4	<0.01
455922 (8971705)	163	8.7	3.9	38.0	40.8	0.01
455923 (8971706)	83.5	6.0	11.3	20.7	38.3	0.02
455924 (8971707)	132	0.4	39.1	97.6	84.4	0.02
455925 (8971708)	48.9	2.4	7.5	22.2	26.6	0.02
455926 (8971709)	52.4	7.6	8.5	29.4	141	<0.01
455927 (8971710)	13.4	4.2	9.9	12.0	152	<0.01
455928 (8971711)	12.4	5.0	7.5	14.8	150	<0.01
455929 (8971712)	19.6	4.5	18.4	22.7	127	0.01
455930 (8971713)	23.9	8.5	11.0	23.1	173	<0.01
455931 (8971714)	97.9	6.4	7.6	321	114	0.01
455932 (8971715)	88.6	5.8	7.8	548	118	<0.01
455933 (8971716)	111	5.4	7.5	138	117	<0.01
455934 (8971717)	110	4.9	6.3	54.8	52.3	<0.01
455935 (8971718)	108	2.8	5.2	50.9	75.2	<0.01
455936 (8971719)	115	4.0	24.7	76.3	69.0	<0.01
455937 (8971720)	112	7.2	6.9	61.2	81.6	0.02
455938 (8971721)	307	0.4	34.8	122	123	<0.01
455939 (8971722)	289	0.2	33.2	118	119	<0.01
455940 (8971723)	296	0.2	34.7	118	121	<0.01
455941 (8971724)	284	0.5	32.4	105	124	<0.01
455942 (8971725)	12.6	3.7	11.9	19.1	155	<0.01
455943 (8971726)	38.1	8.1	11.0	24.4	137	<0.01

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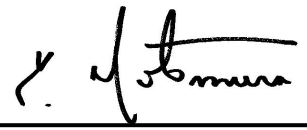

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AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-089) 4 Acid Digest - Metals Package, ICP/ICP-MS finish with Hg-ICP-MS

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Jan 19, 2018 | SAMPLE TYPE: Drill Core

Analyte:	V	W	Y	Zn	Zr	Hg
Unit:	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.5	0.1	0.1	0.5	0.5	0.01
455944 (8971727)	189	17.3	18.7	49.2	72.4	<0.01
455945 (8971728)	300	8.1	6.1	17.9	66.4	0.02
455946 (8971729)	78.5	49.2	17.0	29.4	46.3	0.03
455947 (8971730)	32.4	7.0	8.2	34.0	173	<0.01
455948 (8971731)	117	0.4	41.8	90.2	87.3	<0.01
455949 (8971732)	50.4	3.8	8.9	43.3	154	<0.01
455950 (8971733)	290	0.2	26.3	105	94.1	<0.01
455951 (8971734)	149	1.0	5.6	92.8	66.6	<0.01
455952 (8971735)	98.5	1.5	8.0	39.7	69.4	<0.01
455953 (8971736)	126	1.0	4.7	78.5	31.8	<0.01
455954 (8971737)	160	0.2	8.2	59.3	29.8	<0.01
455955 (8971738)	306	0.8	13.3	57.6	43.6	<0.01
455956 (8971739)	326	1.2	15.1	48.0	56.4	<0.01
455957 (8971740)	276	0.5	18.6	44.1	50.1	<0.01
455958 (8971741)	194	2.4	18.5	38.2	72.2	<0.01
455959 (8971742)	134	3.3	19.9	29.8	66.8	<0.01
455960 (8971743)	114	3.1	24.5	78.7	73.6	<0.01
455961 (8971744)	135	2.8	14.6	28.0	75.4	<0.01
455962 (8971745)	177	1.8	21.4	35.4	82.2	<0.01
455963 (8971746)	165	0.9	24.8	34.0	73.8	<0.01
455964 (8971747)	199	1.1	23.0	42.4	91.2	<0.01
455965 (8971748)	178	0.5	24.4	38.6	82.1	<0.01
455966 (8971749)	172	0.1	21.8	42.9	95.0	<0.01
455967 (8971750)	176	0.3	25.8	35.2	80.5	<0.01
455968 (8971751)	188	2.2	22.6	48.3	102	0.02

Comments: RDL - Reported Detection Limit

8971598-8971751 As, Sb values may be low due to digestion losses.

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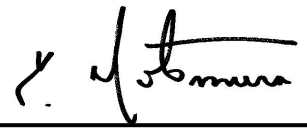

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AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

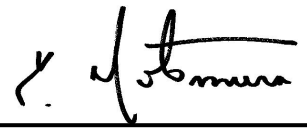
ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(202-551) Fire Assay - Trace Au, AAS finish (50g Charge)

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Jan 19, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Au
Unit:	ppm
Sample ID (AGAT ID) RDL:	0.002
455815 (8971598)	0.030
455816 (8971599)	0.010
455817 (8971600)	0.002
455818 (8971601)	<0.002
455819 (8971602)	<0.002
455820 (8971603)	<0.002
455821 (8971604)	<0.002
455822 (8971605)	<0.002
455823 (8971606)	<0.002
455824 (8971607)	<0.002
455825 (8971608)	<0.002
455826 (8971609)	<0.002
455827 (8971610)	0.025
455828 (8971611)	<0.002
455829 (8971612)	<0.002
455830 (8971613)	0.009
455831 (8971614)	0.005
455832 (8971615)	0.003
455833 (8971616)	<0.002
455834 (8971617)	<0.002
455835 (8971618)	<0.002
455836 (8971619)	0.213
455837 (8971620)	0.102
455838 (8971621)	0.006
455839 (8971622)	<0.002
455840 (8971623)	<0.002
455841 (8971624)	<0.002
455842 (8971625)	0.003
455843 (8971626)	0.016
455844 (8971627)	<0.002
455845 (8971628)	2.79
455846 (8971629)	0.152

Certified By:



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Certificate of Analysis

AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(202-551) Fire Assay - Trace Au, AAS finish (50g Charge)

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Jan 19, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Au
Unit:	ppm
Sample ID (AGAT ID) RDL:	0.002
455847 (8971630)	0.009
455848 (8971631)	<0.002
455849 (8971632)	0.004
455850 (8971633)	0.004
455851 (8971634)	0.041
455852 (8971635)	0.003
455853 (8971636)	<0.002
455854 (8971637)	<0.002
455855 (8971638)	0.004
455856 (8971639)	<0.002
455857 (8971640)	<0.002
455858 (8971641)	<0.002
455859 (8971642)	<0.002
455860 (8971643)	0.233
455861 (8971644)	0.006
455862 (8971645)	<0.002
455863 (8971646)	<0.002
455864 (8971647)	0.004
455865 (8971648)	<0.002
455866 (8971649)	<0.002
455867 (8971650)	0.005
455868 (8971651)	0.005
455869 (8971652)	<0.002
455870 (8971653)	<0.002
455871 (8971654)	0.004
455872 (8971655)	<0.002
455873 (8971656)	0.022
455874 (8971657)	0.006
455875 (8971658)	0.018
455876 (8971659)	0.254
455877 (8971660)	0.031
455878 (8971661)	0.010

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AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(202-551) Fire Assay - Trace Au, AAS finish (50g Charge)

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Jan 19, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Au
Unit:	ppm
Sample ID (AGAT ID) RDL:	0.002
455879 (8971662)	0.006
455880 (8971663)	0.009
455881 (8971664)	0.095
455882 (8971665)	0.098
455883 (8971666)	0.137
455884 (8971667)	1.53
455885 (8971668)	0.066
455886 (8971669)	0.018
455887 (8971670)	0.038
455888 (8971671)	0.101
455889 (8971672)	0.065
455890 (8971673)	0.067
455891 (8971674)	0.026
455892 (8971675)	0.036
455893 (8971676)	0.324
455894 (8971677)	0.019
455895 (8971678)	0.027
455896 (8971679)	<0.002
455897 (8971680)	0.050
455898 (8971681)	0.151
455899 (8971682)	1.21
455900 (8971683)	0.979
455901 (8971684)	0.848
455902 (8971685)	0.429
455903 (8971686)	0.262
455904 (8971687)	0.206
455905 (8971688)	0.035
455906 (8971689)	0.147
455907 (8971690)	1.01
455908 (8971691)	1.54
455909 (8971692)	0.306
455910 (8971693)	0.442

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AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(202-551) Fire Assay - Trace Au, AAS finish (50g Charge)

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Jan 19, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Au
Unit:	ppm
Sample ID (AGAT ID) RDL:	0.002
455911 (8971694)	0.500
455912 (8971695)	0.506
455913 (8971696)	0.433
455914 (8971697)	1.03
455915 (8971698)	1.60
455916 (8971699)	0.452
455917 (8971700)	0.323
455918 (8971701)	1.94
455919/455920 (8971702)	1.36
455921 (8971704)	0.869
455922 (8971705)	0.613
455923 (8971706)	0.581
455924 (8971707)	0.007
455925 (8971708)	0.092
455926 (8971709)	0.162
455927 (8971710)	0.111
455928 (8971711)	0.341
455929 (8971712)	0.128
455930 (8971713)	0.221
455931 (8971714)	0.155
455932 (8971715)	0.010
455933 (8971716)	0.074
455934 (8971717)	<0.002
455935 (8971718)	0.006
455936 (8971719)	0.209
455937 (8971720)	0.044
455938 (8971721)	0.004
455939 (8971722)	<0.002
455940 (8971723)	<0.002
455941 (8971724)	0.011
455942 (8971725)	0.229
455943 (8971726)	0.309

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AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(202-551) Fire Assay - Trace Au, AAS finish (50g Charge)

DATE SAMPLED: Dec 12, 2017 | DATE RECEIVED: Dec 13, 2017 | DATE REPORTED: Jan 19, 2018 | SAMPLE TYPE: Drill Core

Analyte:	Au
Unit:	ppm
Sample ID (AGAT ID) RDL:	0.002
455944 (8971727)	0.003
455945 (8971728)	0.010
455946 (8971729)	<0.002
455947 (8971730)	<0.002
455948 (8971731)	<0.002
455949 (8971732)	<0.002
455950 (8971733)	<0.002
455951 (8971734)	0.013
455952 (8971735)	0.014
455953 (8971736)	<0.002
455954 (8971737)	<0.002
455955 (8971738)	0.005
455956 (8971739)	0.005
455957 (8971740)	<0.002
455958 (8971741)	0.003
455959 (8971742)	0.136
455960 (8971743)	0.247
455961 (8971744)	0.002
455962 (8971745)	<0.002
455963 (8971746)	<0.002
455964 (8971747)	0.013
455965 (8971748)	0.002
455966 (8971749)	<0.002
455967 (8971750)	<0.002
455968 (8971751)	<0.002

Comments: RDL - Reported Detection Limit

Certified By:

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Quality Assurance - Replicate

AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-089) 4 Acid Digest - Metals Package, ICP/ICP-MS finish with Hg-ICP-MS

	REPLICATE #1				REPLICATE #2				REPLICATE #3				REPLICATE #4			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Ag	8971598	0.124	0.156	22.9%	8971609	0.46	0.27		8971617	0.128	0.157	20.4%	8971621	0.36	0.46	24.4%
Al	8971598	7.42	8.58	14.5%	8971609	8.09	8.42	4.0%	8971617	7.26	7.87	8.1%	8971622	7.53	7.53	0.0%
As	8971621	3.89	4.18	7.2%	8971609	2.9	2.9	0.0%	8971617	2.63	2.24	16.0%	8971621	4.5	4.5	0.0%
Ba	8971598	436	493	12.3%	8971609	53	53	0.0%	8971617	228	244	6.8%	8971622	318	320	0.6%
Be	8971621	1.25	1.23	1.6%	8971609	2.77	2.89	4.2%	8971617	2.30	2.56	10.7%	8971621	1.95	1.93	1.0%
Bi	8971621	0.153	0.161	5.1%	8971609	0.11	0.11	0.0%	8971617	0.06	0.06	0.0%	8971621	0.20	0.19	5.1%
Ca	8971598	3.34	3.79	12.6%	8971609	3.98	4.12	3.5%	8971617	5.07	5.49	8.0%	8971622	5.34	5.30	0.8%
Cd	8971598	0.04	0.03	28.6%	8971609	0.064	0.065	1.6%	8971617	0.024	0.031	25.5%	8971621	0.02	0.02	0.0%
Ce	8971598	45.7	43.6	4.7%	8971609	37.6	36.5	3.0%	8971617	31.7	32.3	1.9%	8971621	25.3	26.0	2.7%
Co	8971621	35.4	36.5	3.1%	8971609	32.3	31.2	3.5%	8971617	28.3	29.3	3.5%	8971621	41.7	40.0	4.2%
Cr	8971621	23.5	24.8	5.4%	8971609	9.15	9.59	4.7%	8971617	25.0	25.8	3.1%	8971622	33.1	31.8	4.0%
Cs	8971621	0.233	0.239	2.5%	8971609	0.140	0.133	5.1%	8971617	0.175	0.168	4.1%	8971621	0.236	0.235	0.4%
Cu	8971598	67.4	77.0	13.3%	8971609	33.7	34.7	2.9%	8971617	85.1	96.5	12.6%	8971622	122	121	0.8%
Fe	8971598	7.18	8.09	11.9%	8971609	8.23	8.55	3.8%	8971617	5.01	5.44	8.2%	8971622	5.75	5.69	1.0%
Ga	8971621	15.5	16.2	4.4%	8971609	19.9	19.0	4.6%	8971617	16.1	16.7	3.7%	8971621	16.5	15.8	4.3%
Ge	8971621	< 0.05	< 0.05	0.0%	8971609	0.157	0.150	4.6%	8971617	0.184	0.220	17.8%	8971621	0.125	0.134	6.9%
Hf	8971621	1.64	1.91	15.2%	8971609	1.2	1.3	8.0%	8971617	1.4	1.4	0.0%	8971621	1.80	1.85	2.7%
In	8971621	< 0.005	< 0.005	0.0%	8971609	0.0626	0.0619	1.1%	8971617	0.048	0.051	6.1%	8971621	0.059	0.056	5.2%
K	8971598	0.84	0.95	12.3%	8971609	0.15	0.15	0.0%	8971617	0.453	0.488	7.4%	8971622	0.71	0.71	0.0%
La	8971621	10.6	10.7	0.9%	8971609	15.1	14.7	2.7%	8971617	14.1	14.6	3.5%	8971621	10.7	10.7	0.0%
Li	8971598	12.3	14.2	14.3%	8971609	12.7	13.5	6.1%	8971617	14.6	16.3	11.0%	8971622	15.0	15.1	0.7%
Mg	8971598	1.70	1.95	13.7%	8971609	2.04	2.12	3.8%	8971617	2.68	2.93	8.9%	8971622	3.12	3.09	1.0%
Mn	8971598	931	1060	13.0%	8971609	798	830	3.9%	8971617	968	1060	9.1%	8971622	974	965	0.9%
Mo	8971621	2.29	2.38	3.9%	8971609	1.77	1.64	7.6%	8971617	1.56	1.34	15.2%	8971621	2.15	2.11	1.9%
Na	8971598	2.97	3.39	13.2%	8971609	2.58	2.67	3.4%	8971617	2.59	2.74	5.6%	8971622	2.28	2.30	0.9%
Nb	8971621	5.03	5.52	9.3%	8971609	8.6	9.1	5.6%	8971617	5.4	5.1	5.7%	8971621	6.0	5.7	5.1%
Ni	8971598	28.3	34.9	20.9%	8971609	32.7	34.2	4.5%	8971617	29.1	32.4	10.7%	8971622	35.7	35.0	2.0%
P	8971598	663	829	22.3%	8971609	617	648	4.9%	8971617	419	455	8.2%	8971622	354	355	0.3%
Pb	8971621	1.4	1.3	7.4%	8971609	3.7	3.5	5.6%	8971617	2.23	2.85	24.4%	8971621	2.2	1.8	20.0%
Rb	8971621	28.6	31.1	8.4%	8971609	6.2	6.0	3.3%	8971617	13.4	13.5	0.7%	8971621	30.4	29.5	3.0%
Re	8971621	< 0.002	< 0.002	0.0%	8971609	0.0037	0.0034	8.5%	8971617	0.002	0.002	0.0%	8971621	0.002	0.002	0.0%

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S	8971598	0.25	0.29	14.8%	8971609	0.114	0.120	5.1%	8971617	0.12	0.13	8.0%	8971622	0.208	0.194	7.0%
Sb	8971621	0.14	0.14	0.0%	8971609	0.27	0.25	7.7%	8971617	0.06	0.06	0.0%	8971621	0.076	0.058	26.9%
Sc	8971598	19.8	25.0	23.2%	8971609	22.9	24.2	5.5%	8971617	19.9	21.6	8.2%	8971622	25.1	24.7	1.6%
Se	8971621	1.3	1.3	0.0%	8971609	0.98	0.84	15.4%	8971617	0.6	0.5	18.2%	8971621	1.37	1.12	20.1%
Sn	8971621	3.11	4.00	25.0%	8971609	6.4	6.2	3.2%	8971617	1.8	1.8	0.0%	8971621	2.9	2.8	3.5%
Sr	8971598	203	221	8.5%	8971609	371	379	2.1%	8971617	131	149	12.9%	8971622	71.5	71.9	0.6%
Ta	8971621	0.373	0.408	9.0%	8971609	0.483	0.589	19.8%	8971617	0.491	0.435	12.1%	8971621	0.49	0.45	8.5%
Te	8971621	0.02	0.02	0.0%	8971609	0.01	< 0.01		8971617	0.01	0.01	0.0%	8971621	0.06	0.04	
Th	8971621	2.99	3.04	1.7%	8971609	2.27	2.31	1.7%	8971617	2.21	2.22	0.5%	8971621	2.93	2.93	0.0%
Tl	8971621	0.07	0.07	0.0%	8971609	0.02	0.02	0.0%	8971617	0.05	0.04	22.2%	8971621	0.08	0.08	0.0%
U	8971621	0.527	0.555	5.2%	8971609	0.817	0.842	3.0%	8971617	0.562	0.583	3.7%	8971621	0.561	0.556	0.9%
V	8971598	143	180	22.9%	8971609	192	202	5.1%	8971617	166	183	9.7%	8971622	215	211	1.9%
W	8971621	1.15	1.22	5.9%	8971609	0.8	1.0	22.2%	8971617	0.6	0.6	0.0%	8971621	1.3	1.3	0.0%
Y	8971621	15.5	16.5	6.3%	8971609	38.6	37.0	4.2%	8971617	19.5	19.5	0.0%	8971621	15.9	15.3	3.8%
Zn	8971598	77.5	86.9	11.4%	8971609	63.3	64.7	2.2%	8971617	73.4	81.5	10.5%	8971622	82.4	80.4	2.5%
Zr	8971621	55.6	63.8	13.7%	8971609	37.9	42.9	12.4%	8971617	43.4	44.1	1.6%	8971621	59.6	61.5	3.1%
Hg	8971621	0.030	0.036	18.2%	8971609	0.03	0.01		8971617	0.03	0.03	0.0%	8971621	< 0.01	0.01	
	REPLICATE #5				REPLICATE #6				REPLICATE #7				REPLICATE #8			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Ag	8971622	0.49	0.23		8971633	0.23	0.21	9.1%	8971634	0.31	0.46		8971645	0.255	0.192	28.2%
Al	8971633	7.55	7.56	0.1%	8971634	7.86	7.67	2.4%	8971645	7.66	7.83	2.2%	8971647	7.22	7.47	3.4%
As	8971622	3.2	2.5	24.6%	8971633	8.4	7.4	12.7%	8971634	25.5	24.4	4.4%	8971645	10.7	9.75	9.3%
Ba	8971633	118	116	1.7%	8971634	118	117	0.9%	8971645	197	200	1.5%	8971647	45	46	2.2%
Be	8971622	2.26	2.03	10.7%	8971633	2.06	1.91	7.6%	8971634	2.26	2.00	12.2%	8971645	3.03	3.03	0.0%
Bi	8971622	0.08	0.08	0.0%	8971633	0.08	0.08	0.0%	8971634	0.134	0.135	0.7%	8971645	0.09	0.09	0.0%
Ca	8971633	4.39	4.36	0.7%	8971634	4.48	4.44	0.9%	8971645	4.52	4.61	2.0%	8971647	4.75	4.62	2.8%
Cd	8971622	0.031	0.024	25.5%	8971633	0.038	0.046	19.0%	8971634	0.04	0.04	0.0%	8971645	0.04	0.04	0.0%
Ce	8971622	23.9	23.5	1.7%	8971633	22.2	22.5	1.3%	8971634	20.1	20.1	0.0%	8971645	24.6	23.3	5.4%
Co	8971622	37.4	32.5	14.0%	8971633	48.5	44.2	9.3%	8971634	117	115	1.7%	8971645	41.8	40.8	2.4%
Cr	8971633	35.0	35.0	0.0%	8971634	38.1	38.8	1.8%	8971645	11.3	12.9	13.2%	8971647	11.4	11.8	3.4%
Cs	8971622	0.19	0.19	0.0%	8971633	0.30	0.29	3.4%	8971634	0.21	0.21	0.0%	8971645	1.09	1.09	0.0%
Cu	8971633	80.5	80.0	0.6%	8971634	480	462	3.8%	8971645	57.0	56.4	1.1%	8971647	109	108	0.9%
Fe	8971633	7.38	7.36	0.3%	8971634	8.93	8.82	1.2%	8971645	8.30	8.47	2.0%	8971647	8.43	8.44	0.1%
Ga	8971622	16.7	15.7	6.2%	8971633	18.0	17.1	5.1%	8971634	17.3	17.2	0.6%	8971645	19.2	19.5	1.6%

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ATTENTION TO: ALAN SMITH, STEPHEN ROACH

Ge	8971622	0.18	0.19	5.4%	8971633	0.175	0.213	19.6%	8971634	0.156	0.118	27.7%	8971645	0.13	0.09	
Hf	8971622	1.25	1.20	4.1%	8971633	1.0	1.0	0.0%	8971634	1.1	1.0	9.5%	8971645	0.8	0.8	0.0%
In	8971622	0.057	0.050	13.1%	8971633	0.0500	0.0494	1.2%	8971634	0.057	0.057	0.0%	8971645	0.089	0.089	0.0%
K	8971633	0.46	0.46	0.0%	8971634	0.56	0.55	1.8%	8971645	0.60	0.62	3.3%	8971647	0.223	0.226	1.3%
La	8971622	10.5	10.5	0.0%	8971633	9.7	9.6	1.0%	8971634	8.6	8.5	1.2%	8971645	10.2	9.9	3.0%
Li	8971633	11.8	12.0	1.7%	8971634	13.2	13.1	0.8%	8971645	11.8	11.9	0.8%	8971647	14.1	14.5	2.8%
Mg	8971633	2.96	3.00	1.3%	8971634	3.18	3.12	1.9%	8971645	2.48	2.53	2.0%	8971647	3.02	3.11	2.9%
Mn	8971633	1130	1110	1.8%	8971634	1130	1110	1.8%	8971645	1300	1330	2.3%	8971647	1300	1350	3.8%
Mo	8971622	1.11	1.05	5.6%	8971633	1.34	1.23	8.6%	8971634	1.46	1.42	2.8%	8971645	1.03	1.02	1.0%
Na	8971633	2.40	2.36	1.7%	8971634	2.27	2.24	1.3%	8971645	2.56	2.62	2.3%	8971647	2.38	2.47	3.7%
Nb	8971622	5.1	4.5	12.5%	8971633	5.0	4.4	12.8%	8971634	4.34	4.46	2.7%	8971645	5.35	5.28	1.3%
Ni	8971633	37.4	37.1	0.8%	8971634	42.0	40.9	2.7%	8971645	22.1	22.5	1.8%	8971647	22.1	22.6	2.2%
P	8971633	278	281	1.1%	8971634	311	305	1.9%	8971645	352	365	3.6%	8971647	370	372	0.5%
Pb	8971622	1.2	1.1	8.7%	8971633	1.9	2.2	14.6%	8971634	2.3	2.3	0.0%	8971645	2.58	1.94	28.3%
Rb	8971622	23.3	20.9	10.9%	8971633	15.9	15.2	4.5%	8971634	16.5	16.8	1.8%	8971645	27.8	28.1	1.1%
Re	8971622	0.0037	0.0031	17.6%	8971633	0.003	0.003	0.0%	8971634	0.002	0.003		8971645	0.0031	0.0039	22.9%
S	8971633	0.15	0.14	6.9%	8971634	1.14	1.07	6.3%	8971645	0.157	0.150	4.6%	8971647	0.201	0.261	26.0%
Sb	8971622	0.05	0.05	0.0%	8971633	0.26	0.25	3.9%	8971634	0.32	0.33	3.1%	8971645	0.27	0.27	0.0%
Sc	8971633	25.1	24.7	1.6%	8971634	28.3	27.7	2.1%	8971645	28.1	29.0	3.2%	8971647	25.6	26.2	2.3%
Se	8971622	0.73	0.63	14.7%	8971633	0.55	0.52	5.6%	8971634	1.5	1.4	6.9%	8971645	0.8	0.7	13.3%
Sn	8971622	2.2	2.1	4.7%	8971633	1.7	1.6	6.1%	8971634	2.70	2.78	2.9%	8971645	1.5	1.5	0.0%
Sr	8971633	151	149	1.3%	8971634	161	152	5.8%	8971645	156	162	3.8%	8971647	59.9	62.7	4.6%
Ta	8971622	0.41	0.35	15.8%	8971633	0.312	0.283	9.7%	8971634	0.35	0.37	5.6%	8971645	0.30	0.25	18.2%
Te	8971622	0.02	0.01		8971633	0.02	0.02	0.0%	8971634	0.10	0.13	26.1%	8971645	0.01	0.01	0.0%
Th	8971622	1.64	1.87	13.1%	8971633	1.87	1.81	3.3%	8971634	1.67	1.75	4.7%	8971645	1.44	1.37	5.0%
Tl	8971622	0.06	0.06	0.0%	8971633	0.06	0.06	0.0%	8971634	0.08	0.08	0.0%	8971645	0.15	0.15	0.0%
U	8971622	0.456	0.466	2.2%	8971633	0.472	0.435	8.2%	8971634	0.471	0.491	4.2%	8971645	0.353	0.348	1.4%
V	8971633	276	273	1.1%	8971634	324	316	2.5%	8971645	309	321	3.8%	8971647	291	299	2.7%
W	8971622	0.86	0.84	2.4%	8971633	0.7	0.7	0.0%	8971634	1.15	1.14	0.9%	8971645	0.30	0.23	26.4%
Y	8971622	19.4	17.6	9.7%	8971633	18.2	17.2	5.6%	8971634	16.3	16.3	0.0%	8971645	20.5	20.7	1.0%
Zn	8971633	78.6	76.0	3.4%	8971634	78.8	79.2	0.5%	8971645	106	108	1.9%	8971647	122	122	0.0%
Zr	8971622	37.0	36.0	2.7%	8971633	32.6	29.9	8.6%	8971634	32.6	30.7	6.0%	8971645	30.8	28.7	7.1%
Hg	8971622	0.03	0.03	0.0%	8971633	0.02	0.01		8971634	0.02	0.01		8971645	0.04	0.04	0.0%

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Quality Assurance - Replicate

AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

	REPLICATE #9				REPLICATE #10				REPLICATE #11				REPLICATE #12			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Ag	8971647	0.20	0.20	0.0%	8971652	0.11	0.14	24.0%	8971657	0.173	0.153	12.3%	8971663	0.25	0.23	8.3%
Al	8971652	7.57	7.44	1.7%	8971657	7.27	7.65	5.1%	8971663	2.74	2.84	3.6%	8971669	2.92	3.04	4.0%
As	8971647	9.2	11.6		8971652	20.5	17.4	16.4%	8971657	28.5	32.5	13.1%	8971663	62.4	61.7	1.1%
Ba	8971652	237	232	2.1%	8971657	153	160	4.5%	8971663	59	62	5.0%	8971669	60	62	3.3%
Be	8971647	2.87	2.65	8.0%	8971652	2.66	2.26	16.3%	8971657	2.03	2.15	5.7%	8971663	1.75	1.88	7.2%
Bi	8971647	0.03	0.03	0.0%	8971652	0.03	0.04	28.6%	8971657	0.02	0.02	0.0%	8971663	0.132	0.148	11.4%
Ca	8971652	3.62	3.54	2.2%	8971657	3.54	3.69	4.1%	8971663	5.71	6.04	5.6%	8971669	4.62	4.77	3.2%
Cd	8971647	0.03	0.03	0.0%	8971652	0.04	0.04	0.0%	8971657	0.034	0.036	5.7%	8971663	0.083	0.064	25.9%
Ce	8971647	17.4	17.8	2.3%	8971652	33.3	34.0	2.1%	8971657	30.0	30.9	3.0%	8971663	33.7	34.4	2.1%
Co	8971647	58.4	73.0	22.2%	8971652	56.3	46.4	19.3%	8971657	38.0	49.0	25.3%	8971663	79.0	80.4	1.8%
Cr	8971652	7.58	6.11	21.5%	8971657	7.89	7.32	7.5%	8971663	670	699	4.2%	8971669	844	878	3.9%
Cs	8971647	0.136	0.124	9.2%	8971652	0.207	0.201	2.9%	8971657	0.09	0.09	0.0%	8971663	0.615	0.633	2.9%
Cu	8971652	44.6	41.2	7.9%	8971657	27.5	23.4	16.1%	8971663	62.3	61.6	1.1%	8971669	118	124	5.0%
Fe	8971652	7.70	7.55	2.0%	8971657	6.66	6.95	4.3%	8971663	8.70	9.21	5.7%	8971669	9.46	9.76	3.1%
Ga	8971647	18.6	17.7	5.0%	8971652	18.8	18.3	2.7%	8971657	18.2	19.5	6.9%	8971663	8.50	8.76	3.0%
Ge	8971647	0.270	0.253	6.5%	8971652	0.13	0.15	14.3%	8971657	0.11	0.12	8.7%	8971663	0.436	0.414	5.2%
Hf	8971647	0.73	0.76	4.0%	8971652	3.3	2.4		8971657	2.7	2.7	0.0%	8971663	1.60	1.66	3.7%
In	8971647	0.048	0.047	2.1%	8971652	0.053	0.061	14.0%	8971657	0.0304	0.0315	3.6%	8971663	0.0359	0.0367	2.2%
K	8971652	0.37	0.37	0.0%	8971657	0.36	0.37	2.7%	8971663	0.45	0.46	2.2%	8971669	0.61	0.63	3.2%
La	8971647	7.3	7.4	1.4%	8971652	13.8	14.5	4.9%	8971657	13.1	13.5	3.0%	8971663	14.2	14.8	4.1%
Li	8971652	6.96	6.78	2.6%	8971657	4.14	4.26	2.9%	8971663	7.32	7.76	5.8%	8971669	15.5	16.7	7.5%
Mg	8971652	1.98	1.96	1.0%	8971657	2.07	2.15	3.8%	8971663	7.95	8.41	5.6%	8971669	8.55	8.84	3.3%
Mn	8971652	1100	1070	2.8%	8971657	1320	1390	5.2%	8971663	1710	1810	5.7%	8971669	1510	1580	4.5%
Mo	8971647	1.02	0.833	20.2%	8971652	1.63	1.48	9.6%	8971657	2.01	1.72	15.5%	8971663	0.732	0.792	7.9%
Na	8971652	3.70	3.60	2.7%	8971657	4.21	4.43	5.1%	8971663	< 0.01	< 0.01	0.0%	8971669	0.02	0.02	0.0%
Nb	8971647	5.3	5.7	7.3%	8971652	6.8	4.6		8971657	5.1	5.3	3.8%	8971663	2.7	2.9	7.1%
Ni	8971652	30.9	29.6	4.3%	8971657	34.9	37.6	7.4%	8971663	693	706	1.9%	8971669	842	856	1.6%
P	8971652	454	451	0.7%	8971657	481	512	6.2%	8971663	427	443	3.7%	8971669	421	451	6.9%
Pb	8971647	0.9	1.6		8971652	1.7	2.4		8971657	2.0	1.3		8971663	1.4	1.5	6.9%
Rb	8971647	6.6	6.4	3.1%	8971652	10.9	10.6	2.8%	8971657	9.3	9.4	1.1%	8971663	18.6	19.3	3.7%
Re	8971647	< 0.002	0.003		8971652	< 0.002	< 0.002	0.0%	8971657	< 0.002	0.003		8971663	0.0038	0.0030	23.5%
S	8971652	0.099	0.092	7.3%	8971657	0.16	0.15	6.5%	8971663	0.44	0.46	4.4%	8971669	0.853	0.885	3.7%

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ATTENTION TO: ALAN SMITH, STEPHEN ROACH

Sb	8971647	0.11	0.11	0.0%	8971652	0.127	0.114	10.8%	8971657	0.119	0.127	6.5%	8971663	0.52	0.29	
Sc	8971652	22.3	22.0	1.4%	8971657	21.0	22.7	7.8%	8971663	18.7	19.7	5.2%	8971669	17.0	17.7	4.0%
Se	8971647	0.9	0.9	0.0%	8971652	0.57	0.50	13.1%	8971657	< 0.5	< 0.5	0.0%	8971663	< 0.5	< 0.5	0.0%
Sn	8971647	0.9	0.9	0.0%	8971652	1.82	1.88	3.2%	8971657	1.5	1.5	0.0%	8971663	0.70	0.78	10.8%
Sr	8971652	177	178	0.6%	8971657	158	168	6.1%	8971663	137	144	5.0%	8971669	128	136	6.1%
Ta	8971647	0.26	0.35	29.5%	8971652	0.44	0.34		8971657	0.330	0.339	2.7%	8971663	0.10	0.12	18.2%
Te	8971647	0.014	0.016	13.3%	8971652	0.02	< 0.01		8971657	0.02	0.02	0.0%	8971663	0.029	0.037	24.2%
Th	8971647	0.990	0.972	1.8%	8971652	2.72	2.53	7.2%	8971657	2.23	2.36	5.7%	8971663	1.16	1.20	3.4%
Tl	8971647	0.02	0.02	0.0%	8971652	0.04	0.04	0.0%	8971657	0.03	0.03	0.0%	8971663	0.112	0.119	6.1%
U	8971647	0.266	0.273	2.6%	8971652	0.720	0.573	22.7%	8971657	0.515	0.577	11.4%	8971663	0.212	0.217	2.3%
V	8971652	181	175	3.4%	8971657	180	194	7.5%	8971663	146	153	4.7%	8971669	155	162	4.4%
W	8971647	0.69	0.88	24.2%	8971652	0.7	0.2		8971657	1.1	1.1	0.0%	8971663	0.8	0.9	11.8%
Y	8971647	17.5	17.0	2.9%	8971652	9.86	9.54	3.3%	8971657	5.13	5.47	6.4%	8971663	5.03	5.22	3.7%
Zn	8971652	74.3	72.1	3.0%	8971657	46.7	46.4	0.6%	8971663	65.4	70.4	7.4%	8971669	82.2	86.8	5.4%
Zr	8971647	26.7	27.3	2.2%	8971652	117	99.7	16.0%	8971657	95.2	94.2	1.1%	8971663	59.8	60.8	1.7%
Hg	8971647	0.02	0.02	0.0%	8971652	0.02	0.02	0.0%	8971657	0.02	0.02	0.0%	8971663	0.03	0.02	
	REPLICATE #13				REPLICATE #14				REPLICATE #15				REPLICATE #16			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Ag	8971669	0.09	0.19		8971672	0.55	0.13		8971681	0.27	0.27	0.0%	8971688	0.21	0.19	10.0%
Al	8971672	2.69	2.66	1.1%	8971681	2.90	3.04	4.7%	8971688	7.45	7.45	0.0%	8971705	6.66	6.59	1.1%
As	8971669	431	453	5.0%	8971672	784	802	2.3%	8971681	1050	1070	1.9%	8971688	123	105	15.8%
Ba	8971672	59	60	1.7%	8971681	45	48	6.5%	8971688	311	312	0.3%	8971705	222	222	0.0%
Be	8971669	1.31	1.39	5.9%	8971672	1.45	1.42	2.1%	8971681	0.863	0.929	7.4%	8971688	1.91	1.89	1.1%
Bi	8971669	0.10	0.14		8971672	0.156	0.154	1.3%	8971681	0.18	0.18	0.0%	8971688	0.09	0.10	10.5%
Ca	8971672	5.81	5.65	2.8%	8971681	7.56	7.77	2.7%	8971688	3.40	3.44	1.2%	8971705	3.06	3.00	2.0%
Cd	8971669	0.068	0.077	12.4%	8971672	0.09	0.09	0.0%	8971681	0.16	0.15	6.5%	8971688	0.05	0.06	18.2%
Ce	8971669	36.6	41.0	11.3%	8971672	33.1	33.0	0.3%	8971681	38.3	39.5	3.1%	8971688	64.2	65.5	2.0%
Co	8971669	108	106	1.9%	8971672	90.9	94.8	4.2%	8971681	79.6	80.8	1.5%	8971688	22.4	22.5	0.4%
Cr	8971672	929	949	2.1%	8971681	668	697	4.2%	8971688	19.6	18.4	6.3%	8971705	26.7	22.4	17.5%
Cs	8971669	0.555	0.558	0.5%	8971672	0.64	0.68	6.1%	8971681	0.24	0.25	4.1%	8971688	0.732	0.749	2.3%
Cu	8971672	171	147	15.1%	8971681	127	131	3.1%	8971688	2.23	2.92	26.8%	8971705	129	126	2.4%
Fe	8971672	9.35	9.23	1.3%	8971681	8.71	9.06	3.9%	8971688	6.65	6.72	1.0%	8971705	5.55	5.51	0.7%
Ga	8971669	10.2	9.96	2.4%	8971672	8.34	8.55	2.5%	8971681	8.85	9.25	4.4%	8971688	16.8	17.0	1.2%
Ge	8971669	0.433	0.423	2.3%	8971672	0.46	0.46	0.0%	8971681	0.493	0.497	0.8%	8971688	0.248	0.239	3.7%

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ATTENTION TO: ALAN SMITH, STEPHEN ROACH

Hf	8971669	1.5	1.6	6.5%	8971672	1.5	1.5	0.0%	8971681	2.0	2.0	0.0%	8971688	2.73	2.78	1.8%
In	8971669	0.043	0.043	0.0%	8971672	0.0412	0.0392	5.0%	8971681	0.0404	0.0408	1.0%	8971688	0.0541	0.0557	2.9%
K	8971672	0.710	0.717	1.0%	8971681	0.474	0.501	5.5%	8971688	2.50	2.51	0.4%	8971705	1.29	1.29	0.0%
La	8971669	15.7	17.3	9.7%	8971672	13.9	14.0	0.7%	8971681	15.6	16.3	4.4%	8971688	25.3	25.9	2.3%
Li	8971672	16.6	16.4	1.2%	8971681	14.5	15.0	3.4%	8971688	14.3	14.3	0.0%	8971705	6.83	6.89	0.9%
Mg	8971672	9.64	9.50	1.5%	8971681	6.50	6.78	4.2%	8971688	3.77	3.78	0.3%	8971705	2.55	2.52	1.2%
Mn	8971672	1710	1690	1.2%	8971681	1500	1570	4.6%	8971688	832	833	0.1%	8971705	775	773	0.3%
Mo	8971669	1.10	1.09	0.9%	8971672	0.98	1.46		8971681	1.12	0.88	24.0%	8971688	1.90	1.78	6.5%
Na	8971672	0.056	0.053	5.5%	8971681	0.02	0.02	0.0%	8971688	0.904	0.912	0.9%	8971705	2.67	2.63	1.5%
Nb	8971669	1.1	1.2	8.7%	8971672	1.0	1.5		8971681	1.2	1.2	0.0%	8971688	6.89	7.26	5.2%
Ni	8971672	875	873	0.2%	8971681	563	610	8.0%	8971688	39.6	40.2	1.5%	8971705	63.8	62.4	2.2%
P	8971672	409	406	0.7%	8971681	407	433	6.2%	8971688	334	333	0.3%	8971705	294	285	3.1%
Pb	8971669	2.8	3.4	19.4%	8971672	2.00	2.07	3.4%	8971681	1.82	1.74	4.5%	8971688	2.0	2.1	4.9%
Rb	8971669	25.7	25.2	2.0%	8971672	29.1	30.2	3.7%	8971681	18.8	19.3	2.6%	8971688	86.9	87.8	1.0%
Re	8971669	0.0028	0.0035	22.2%	8971672	0.0021	0.0026	21.3%	8971681	< 0.002	0.002		8971688	0.004	< 0.002	
S	8971672	1.39	1.38	0.7%	8971681	3.29	3.47	5.3%	8971688	0.88	0.89	1.1%	8971705	1.49	1.54	3.3%
Sb	8971669	0.20	0.22	9.5%	8971672	0.396	0.389	1.8%	8971681	0.694	0.713	2.7%	8971688	0.27	0.27	0.0%
Sc	8971672	20.7	20.3	2.0%	8971681	23.8	25.6	7.3%	8971688	17.7	17.5	1.1%	8971705	18.7	17.8	4.9%
Se	8971669	< 0.5	< 0.5	0.0%	8971672	< 0.5	< 0.5	0.0%	8971681	< 0.5	< 0.5	0.0%	8971688	< 0.5	< 0.5	0.0%
Sn	8971669	0.3	0.4	28.6%	8971672	0.33	0.37	11.4%	8971681	0.4	0.4	0.0%	8971688	2.03	2.33	13.8%
Sr	8971672	189	186	1.6%	8971681	181	195	7.4%	8971688	116	117	0.9%	8971705	129	130	0.8%
Ta	8971669	0.05	0.06	18.2%	8971672	0.06	0.09		8971681	0.06	0.07	15.4%	8971688	0.477	0.486	1.9%
Te	8971669	0.08	0.11		8971672	0.21	0.18	15.4%	8971681	0.350	0.427	19.8%	8971688	0.21	0.19	10.0%
Th	8971669	1.30	1.39	6.7%	8971672	1.12	1.17	4.4%	8971681	1.20	1.20	0.0%	8971688	2.36	2.48	5.0%
Tl	8971669	0.135	0.139	2.9%	8971672	0.164	0.180	9.3%	8971681	0.093	0.096	3.2%	8971688	0.436	0.433	0.7%
U	8971669	0.232	0.256	9.8%	8971672	0.204	0.224	9.3%	8971681	0.257	0.257	0.0%	8971688	0.540	0.563	4.2%
V	8971672	142	142	0.0%	8971681	152	163	7.0%	8971688	136	135	0.7%	8971705	163	155	5.0%
W	8971669	1.2	1.5	22.2%	8971672	2.5	2.7	7.7%	8971681	3.52	3.78	7.1%	8971688	17.9	17.4	2.8%
Y	8971669	5.35	5.41	1.1%	8971672	3.8	3.9	2.6%	8971681	4.40	4.49	2.0%	8971688	5.72	5.79	1.2%
Zn	8971672	83.8	83.7	0.1%	8971681	77.9	82.2	5.4%	8971688	65.8	66.5	1.1%	8971705	38.0	37.3	1.9%
Zr	8971669	55.3	61.6	10.8%	8971672	53.6	52.1	2.8%	8971681	68.9	67.3	2.3%	8971688	74.8	79.9	6.6%
Hg	8971669	< 0.01	0.02		8971672	0.02	0.03		8971681	< 0.01	0.03		8971688	0.02	0.01	
	REPLICATE #17				REPLICATE #18				REPLICATE #19				REPLICATE #20			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD

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CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

Ag	8971705	0.33	0.50		8971706	0.27	0.37		8971717	0.23	0.16		8971722	0.205	0.238	14.9%
Al	8971706	3.67	3.51	4.5%	8971717	6.13	6.58	7.1%	8971722	6.96	7.21	3.5%	8971724	7.13	7.38	3.4%
As	8971705	107	88.4	19.0%	8971706	149	150	0.7%	8971717	138	150	8.3%	8971722	2.05	2.23	8.4%
Ba	8971706	165	159	3.7%	8971717	246	265	7.4%	8971722	272	284	4.3%	8971724	183	187	2.2%
Be	8971693	0.35	0.40	13.3%	8971697	1.98	2.11	6.4%	8971705	1.72	1.65	4.2%	8971706	1.15	1.12	2.6%
Bi	8971705	0.137	0.155	12.3%	8971706	0.326	0.265	20.6%	8971717	0.01	0.01	0.0%	8971722	0.04	0.04	0.0%
Ca	8971706	3.57	3.50	2.0%	8971717	5.46	5.82	6.4%	8971722	5.06	5.25	3.7%	8971724	5.55	5.70	2.7%
Cd	8971705	0.065	0.052	22.2%	8971706	0.03	0.03	0.0%	8971717	0.05	0.08		8971722	0.19	0.19	0.0%
Ce	8971705	24.1	26.9	11.0%	8971706	25.4	27.4	7.6%	8971717	46.6	47.6	2.1%	8971722	36.7	37.4	1.9%
Co	8971705	29.5	32.6	10.0%	8971706	37.7	37.9	0.5%	8971717	52.6	58.0	9.8%	8971722	51.8	53.5	3.2%
Cr	8971706	136	118	14.2%	8971717	251	257	2.4%	8971722	75.3	79.1	4.9%	8971724	72.5	74.2	2.3%
Cs	8971705	0.47	0.48	2.1%	8971706	0.30	0.31	3.3%	8971717	0.17	0.17	0.0%	8971722	1.85	1.86	0.5%
Cu	8971706	11.0	12.2	10.3%	8971717	5.52	5.33	3.5%	8971722	128	133	3.8%	8971724	124	126	1.6%
Fe	8971706	4.84	4.75	1.9%	8971717	6.11	6.52	6.5%	8971722	10.1	10.4	2.9%	8971724	9.73	9.97	2.4%
Ga	8971705	13.6	14.9	9.1%	8971706	9.68	9.90	2.2%	8971717	12.8	13.9	8.2%	8971722	17.6	18.2	3.4%
Ge	8971705	0.117	0.100	15.7%	8971706	0.252	0.245	2.8%	8971717	0.374	0.378	1.1%	8971722	0.537	0.465	14.4%
Hf	8971705	1.53	1.65	7.5%	8971706	1.2	1.3	8.0%	8971717	1.6	1.7	6.1%	8971722	3.6	3.6	0.0%
In	8971705	0.0401	0.0448	11.1%	8971706	0.0340	0.0302	11.8%	8971717	0.043	0.046	6.7%	8971722	0.0882	0.0873	1.0%
K	8971706	1.03	0.98	5.0%	8971717	1.18	1.27	7.3%	8971722	1.49	1.54	3.3%	8971724	0.660	0.685	3.7%
La	8971705	10.5	11.3	7.3%	8971706	11.3	11.9	5.2%	8971717	19.9	20.0	0.5%	8971722	15.0	15.2	1.3%
Li	8971706	8.6	8.3	3.6%	8971717	11.6	12.6	8.3%	8971722	7.0	7.3	4.2%	8971724	5.2	5.2	0.0%
Mg	8971706	1.75	1.68	4.1%	8971717	4.51	4.87	7.7%	8971722	3.26	3.35	2.7%	8971724	3.03	3.12	2.9%
Mn	8971706	596	571	4.3%	8971717	1080	1180	8.8%	8971722	1790	1860	3.8%	8971724	1630	1670	2.4%
Mo	8971705	2.07	2.06	0.5%	8971706	4.53	3.60	22.9%	8971717	2.17	2.47	12.9%	8971722	1.76	1.75	0.6%
Na	8971706	0.776	0.753	3.0%	8971717	1.27	1.35	6.1%	8971722	1.67	1.75	4.7%	8971724	1.98	2.03	2.5%
Nb	8971705	3.03	3.10	2.3%	8971706	1.7	1.9	11.1%	8971717	1.4	1.4	0.0%	8971722	6.5	7.4	12.9%
Ni	8971706	86.1	82.3	4.5%	8971717	241	265	9.5%	8971722	57.0	59.6	4.5%	8971724	56.0	56.7	1.2%
P	8971706	78	77	1.3%	8971717	433	470	8.2%	8971722	790	808	2.3%	8971724	776	787	1.4%
Pb	8971705	3.0	3.8	23.5%	8971706	2.5	3.1	21.4%	8971717	4.25	4.21	0.9%	8971722	4.1	4.4	7.1%
Rb	8971705	48.6	50.8	4.4%	8971706	35.5	36.5	2.8%	8971717	37.9	40.4	6.4%	8971722	84.4	85.8	1.6%
Re	8971705	< 0.002	0.003		8971706	0.004	0.003	28.6%	8971717	< 0.002	0.003		8971722	0.004	0.004	0.0%
S	8971706	2.72	2.57	5.7%	8971717	0.093	0.103	10.2%	8971722	0.184	0.192	4.3%	8971724	0.294	0.309	5.0%
Sb	8971705	0.22	0.31		8971706	0.30	0.44		8971717	0.23	0.19	19.0%	8971722	0.13	0.15	14.3%
Sc	8971706	10.1	9.9	2.0%	8971717	20.5	22.6	9.7%	8971722	35.8	37.3	4.1%	8971724	35.5	35.9	1.1%

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Se	8971705	< 0.5	< 0.5	0.0%	8971706	< 0.5	< 0.5	0.0%	8971717	< 0.5	< 0.5	0.0%	8971722	1.0	1.1	9.5%
Sn	8971705	2.3	2.0	14.0%	8971706	1.8	1.8	0.0%	8971717	3.34	3.62	8.0%	8971722	1.2	1.2	0.0%
Sr	8971706	70.8	68.4	3.4%	8971717	164	175	6.5%	8971722	208	217	4.2%	8971724	129	135	4.5%
Ta	8971705	0.28	0.29	3.5%	8971706	0.090	0.097	7.5%	8971717	0.09	0.09	0.0%	8971722	0.35	0.41	15.8%
Te	8971705	0.15	0.20	28.6%	8971706	0.48	0.35		8971717	0.01	0.02		8971722	< 0.01	0.02	
Th	8971705	2.56	2.87	11.4%	8971706	1.21	1.28	5.6%	8971717	1.89	1.93	2.1%	8971722	2.07	2.18	5.2%
Tl	8971705	0.233	0.255	9.0%	8971706	0.13	0.13	0.0%	8971717	0.12	0.13	8.0%	8971722	0.414	0.421	1.7%
U	8971705	0.537	0.603	11.6%	8971706	0.393	0.411	4.5%	8971717	0.514	0.539	4.7%	8971722	0.537	0.577	7.2%
V	8971706	83.5	81.2	2.8%	8971717	110	119	7.9%	8971722	289	299	3.4%	8971724	284	289	1.7%
W	8971705	8.7	9.1	4.5%	8971706	6.0	6.4	6.5%	8971717	4.9	5.1	4.0%	8971722	0.2	0.2	0.0%
Y	8971705	3.9	4.0	2.5%	8971706	11.3	11.7	3.5%	8971717	6.34	6.82	7.3%	8971722	33.2	34.3	3.3%
Zn	8971706	20.7	20.4	1.5%	8971717	54.8	58.9	7.2%	8971722	118	122	3.3%	8971724	105	107	1.9%
Zr	8971705	40.8	43.4	6.2%	8971706	38.3	44.0	13.9%	8971717	52.3	57.8	10.0%	8971722	119	123	3.3%
Hg	8971705	0.01	0.02		8971706	0.02	0.02	0.0%	8971717	< 0.01	< 0.01	0.0%	8971722	< 0.01	< 0.01	0.0%
	REPLICATE #21				REPLICATE #22				REPLICATE #23				REPLICATE #24			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Ag	8971724	0.15	0.32		8971729	0.19	0.24	23.3%	8971741	0.091	0.101	10.4%	8971747	0.193	0.184	4.8%
Al	8971729	3.80	3.67	3.5%	8971741	7.18	6.99	2.7%	8971747	5.93	5.37	9.9%				
As	8971724	8.63	9.65	11.2%	8971729	4.5	4.5	0.0%	8971741	7.5	9.1	19.3%	8971747	27.0	23.2	15.1%
Ba	8971729	270	262	3.0%	8971741	64	63	1.6%	8971747	245	222	9.9%				
Be	8971717	1.44	1.63	12.4%	8971722	2.50	2.53	1.2%	8971724	2.71	2.70	0.4%	8971729	1.33	1.40	5.1%
Bi	8971724	0.06	0.05	18.2%	8971729	0.01	0.03		8971741	0.013	0.015	14.3%	8971747	0.03	0.03	0.0%
Ca	8971729	5.54	5.41	2.4%	8971741	5.62	5.58	0.7%	8971747	6.85	7.23	5.4%				
Cd	8971724	0.132	0.158	17.9%	8971729	0.100	0.108	7.7%	8971741	< 0.02	< 0.02	0.0%	8971747	< 0.02	< 0.02	0.0%
Ce	8971724	41.7	42.3	1.4%	8971729	10.3	10.1	2.0%	8971741	50.5	50.5	0.0%	8971747	53.8	49.5	8.3%
Co	8971724	51.1	53.4	4.4%	8971729	4.63	4.56	1.5%	8971741	27.0	31.4	15.1%	8971747	81.8	70.4	15.0%
Cr	8971729	48.3	49.5	2.5%	8971741	< 0.5	1.2		8971747	591	530	10.9%				
Cs	8971724	1.94	2.08	7.0%	8971729	0.164	0.165	0.6%	8971741	0.066	0.064	3.1%	8971747	2.45	2.38	2.9%
Cu	8971729	1.39	1.20	14.7%	8971741	3.81	3.12	19.9%	8971747	11.5	12.2	5.9%				
Fe	8971729	4.63	4.55	1.7%	8971741	7.00	6.97	0.4%	8971747	9.86	9.04	8.7%				
Ga	8971724	18.6	19.3	3.7%	8971729	13.0	12.7	2.3%	8971741	16.5	17.1	3.6%	8971747	17.2	16.2	6.0%
Ge	8971724	0.396	0.369	7.1%	8971729	0.531	0.472	11.8%	8971741	0.32	0.31	3.2%	8971747	0.547	0.490	11.0%
Hf	8971724	3.8	3.8	0.0%	8971729	1.5	1.4	6.9%	8971741	2.0	2.1	4.9%	8971747	2.5	2.3	8.3%
In	8971724	0.086	0.087	1.2%	8971729	0.028	0.029	3.5%	8971741	0.049	0.049	0.0%	8971747	0.018	0.019	5.4%

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K	8971729	1.08	1.04	3.8%	8971741	0.22	0.21	4.7%	8971747	1.25	1.10	12.8%				
La	8971724	17.3	17.4	0.6%	8971729	4.3	4.3	0.0%	8971741	19.8	19.6	1.0%	8971747	19.3	17.7	8.6%
Li	8971729	8.16	7.89	3.4%	8971741	12.6	12.3	2.4%	8971747	28.9	26.0	10.6%				
Mg	8971729	3.38	3.29	2.7%	8971741	2.47	2.41	2.5%	8971747	5.06	4.51	11.5%				
Mn	8971729	1160	1140	1.7%	8971741	627	619	1.3%	8971747	1050	977	7.2%				
Mo	8971724	1.99	2.07	3.9%	8971729	2.52	2.84	11.9%	8971741	0.554	0.587	5.8%	8971747	0.52	0.57	9.2%
Na	8971729	0.47	0.46	2.2%	8971741	2.80	2.80	0.0%	8971747	0.09	0.11	20.0%				
Nb	8971724	7.48	7.44	0.5%	8971729	5.0	5.5	9.5%	8971741	2.43	2.61	7.1%	8971747	12.0	9.4	24.3%
Ni	8971729	19.6	19.6	0.0%	8971741	11.6	10.2	12.8%	8971747	578	519	10.8%				
P	8971729	162	163	0.6%	8971741	750	700	6.9%	8971747	743	644	14.3%				
Pb	8971724	4.5	4.5	0.0%	8971729	2.76	2.54	8.3%	8971741	1.4	0.9		8971747	0.9	1.0	10.5%
Rb	8971724	37.4	39.4	5.2%	8971729	33.5	33.2	0.9%	8971741	5.5	5.5	0.0%	8971747	86.2	79.0	8.7%
Re	8971724	0.0039	0.0033	16.7%	8971729	< 0.002	< 0.002	0.0%	8971741	< 0.002	< 0.002	0.0%	8971747	< 0.002	< 0.002	0.0%
S	8971729	0.07	0.07	0.0%	8971741	0.09	0.10	10.5%	8971747	0.23	0.20	14.0%				
Sb	8971724	0.216	0.213	1.4%	8971729	0.16	0.17	6.1%	8971741	0.093	0.096	3.2%	8971747	0.205	0.196	4.5%
Sc	8971729	11.8	11.6	1.7%	8971741	23.7	22.4	5.6%	8971747	29.2	26.9	8.2%				
Se	8971724	1.1	1.1	0.0%	8971729	< 0.5	< 0.5	0.0%	8971741	< 0.5	< 0.5	0.0%	8971747	0.54	0.59	8.8%
Sn	8971724	1.22	1.30	6.3%	8971729	3.3	3.3	0.0%	8971741	8.3	8.5	2.4%	8971747	6.90	6.22	10.4%
Sr	8971729	107	106	0.9%	8971741	117	118	0.9%	8971747	34.7	35.1	1.1%				
Ta	8971724	0.44	0.44	0.0%	8971729	0.15	0.23		8971741	0.144	0.166	14.2%	8971747	0.69	0.54	24.4%
Te	8971724	0.03	0.02		8971729	< 0.01	0.03		8971741	0.01	< 0.01		8971747	0.05	0.05	0.0%
Th	8971724	2.91	2.96	1.7%	8971729	1.33	1.29	3.1%	8971741	2.09	1.97	5.9%	8971747	2.33	2.16	7.6%
Tl	8971724	0.236	0.234	0.9%	8971729	0.09	0.09	0.0%	8971741	0.01	0.01	0.0%	8971747	0.365	0.328	10.7%
U	8971724	0.727	0.721	0.8%	8971729	0.465	0.421	9.9%	8971741	0.991	0.976	1.5%	8971747	0.644	0.590	8.8%
V	8971729	78.5	78.8	0.4%	8971741	194	181	6.9%	8971747	199	181	9.5%				
W	8971724	0.5	0.5	0.0%	8971729	49.2	55.5	12.0%	8971741	2.43	2.69	10.2%	8971747	1.1	0.8	
Y	8971724	32.4	34.1	5.1%	8971729	17.0	16.9	0.6%	8971741	18.5	18.9	2.1%	8971747	23.0	20.2	13.0%
Zn	8971729	29.4	29.6	0.7%	8971741	38.2	37.1	2.9%	8971747	42.4	38.2	10.4%				
Zr	8971724	124	130	4.7%	8971729	46.3	42.2	9.3%	8971741	72.2	76.1	5.3%	8971747	91.2	80.7	12.2%
Hg	8971724	< 0.01	< 0.01	0.0%	8971729	0.03	< 0.01		8971741	< 0.01	< 0.01	0.0%	8971747	< 0.01	< 0.01	0.0%
	REPLICATE #25				REPLICATE #26											
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD								
Be	8971741	1.85	1.75	5.6%	8971747	2.61	2.13	20.3%								

(202-551) Fire Assay - Trace Au, AAS finish (50g Charge)

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Quality Assurance - Replicate

AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

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CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

	REPLICATE #1				REPLICATE #2				REPLICATE #3				REPLICATE #4			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Au	8971609	< 0.002	< 0.002	0.0%	8971621	0.006	0.008	28.6%	8971622	< 0.002	0.003		8971633	0.004	< 0.002	
	REPLICATE #5				REPLICATE #6				REPLICATE #7				REPLICATE #8			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Au	8971645	< 0.002	< 0.002	0.0%	8971647	0.004	0.009		8971657	0.006	0.007	15.4%	8971669	0.018	0.019	5.4%
	REPLICATE #9				REPLICATE #10				REPLICATE #11				REPLICATE #12			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Au	8971672	0.0647	0.0581	10.7%	8971681	0.151	0.175	14.7%	8971693	0.442	0.507	13.7%	8971697	1.03	1.25	19.3%
	REPLICATE #13				REPLICATE #14				REPLICATE #15				REPLICATE #16			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Au	8971705	0.613	0.538	13.0%	8971717	< 0.002	0.003		8971722	< 0.002	< 0.002	0.0%	8971729	< 0.002	< 0.002	0.0%
	REPLICATE #17				REPLICATE #18											
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD								
Au	8971741	0.003	< 0.002		8971747	0.013	0.008									

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AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

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ATTENTION TO: ALAN SMITH, STEPHEN ROACH

(201-089) 4 Acid Digest - Metals Package, ICP/ICP-MS finish with Hg-ICP-MS

	CRM #1 (ref.SY-4)				CRM #2 (ref.TILL-2)				CRM #3 (ref.SY-4)				CRM #4 (ref.SY-4)			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Al	10.95	11.14	102%	90% - 110%	8.17	8.85	108%	90% - 110%	10.95	11.03	101%	90% - 110%	10.95	11.44	104%	90% - 110%
As					26	26	101%	90% - 110%								
Ba	340	334	98%	90% - 110%	540	564	104%	90% - 110%	340	329	97%	90% - 110%	340	347	102%	90% - 110%
Be	2.6	2.8	106%	90% - 110%	4.0	4.4	110%	90% - 110%	2.6	2.5	95%	90% - 110%	2.6	2.8	109%	90% - 110%
Ca	5.72	5.56	97%	90% - 110%	0.907	0.937	103%	90% - 110%	5.72	5.44	95%	90% - 110%	5.72	5.63	98%	90% - 110%
Ce	122	127	104%	90% - 110%	98	89	90%	90% - 110%	122	111	91%	90% - 110%				
Co	2.8	2.6	92%	90% - 110%					2.8	2.7	95%	90% - 110%				
Cr					60.3	61.4	102%	90% - 110%								
Cs	1.5	1.5	98%	90% - 110%	12	11	88%	90% - 110%	1.5	1.4	96%	90% - 110%				
Cu	7	5	76%	90% - 110%	150	153	102%	90% - 110%					7	5	71%	90% - 110%
Fe	4.34	4.12	95%	90% - 110%	3.77	3.85	102%	90% - 110%	4.34	4.04	93%	90% - 110%	4.34	4.17	96%	90% - 110%
Ga	35	33	95%	90% - 110%					35	35	99%	90% - 110%				
K	1.37	1.41	103%	90% - 110%									1.37	1.49	109%	90% - 110%
La	58	54	93%	90% - 110%	44	40	91%	90% - 110%	58	54	94%	90% - 110%				
Li	37	39	105%	90% - 110%	47	51.0	109%	90% - 110%	37	39	105%	90% - 110%	37	41	110%	90% - 110%
Mg	0.325	0.311	96%	90% - 110%	1.10	1.18	108%	90% - 110%	0.325	0.31	95%	90% - 110%	0.325	0.322	99%	90% - 110%
Mn					780	824	106%	90% - 110%								
Mo					14	13	95%	90% - 110%								
Na	5.267	5.30	101%	90% - 110%	1.624	1.75	107%	90% - 110%	5.267	5.27	100%	90% - 110%	5.267	5.54	105%	90% - 110%
Nb	13	14	107%	90% - 110%	20	16	81%	90% - 110%	13	15	115%	90% - 110%				
Ni	9	7	77%	90% - 110%	32	35	109%	90% - 110%	9	7	77%	90% - 110%	9	7	76%	90% - 110%
Pb	10	11	109%	90% - 110%	31	31	102%	90% - 110%	10	9	94%	90% - 110%				
Rb	55	56	102%	90% - 110%	143	136	95%	90% - 110%	55	56	102%	90% - 110%				
Sb					0.8	0.6	73%	90% - 110%								
Sc	1.1	0.9	81%	90% - 110%	12	12.8	106%	90% - 110%								
Sr	1191	1204	101%	90% - 110%	144	156	108%	90% - 110%	1191	1196	100%	90% - 110%	1191	1286	108%	90% - 110%
Ta	0.9	1.1	120%	90% - 110%					0.9	0.9	99%	90% - 110%				
Th	1.4	1.2	84%	90% - 110%	18.4	17.4	94%	90% - 110%	1.4	1.2	84%	90% - 110%				
U	0.8	0.6	76%	90% - 110%	5.7	4.5	79%	90% - 110%	0.8	0.7	82%	90% - 110%				
V	8	7	89%	90% - 110%	77	83.1	108%	90% - 110%	8	7	85%	90% - 110%	8	8	95%	90% - 110%
W					5	4	87%	90% - 110%								

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ATTENTION TO: ALAN SMITH, STEPHEN ROACH

Y	119	113	95%	90% - 110%					119	109	91%	90% - 110%				
Zn	93	88	94%	90% - 110%	130	132	102%	90% - 110%	93	86	92%	90% - 110%	93	91	98%	90% - 110%
	CRM #5 (ref.TILL-2)				CRM #6 (ref.SY-4)				CRM #7 (ref.TILL-2)				CRM #8 (ref.SY-4)			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Al									8.17	8.58	105%	90% - 110%	10.95	11.55	105%	90% - 110%
Ba									540	540	100%	90% - 110%	340	354	104%	90% - 110%
Be									4.0	4.2	105%	90% - 110%	2.6	2.9	111%	90% - 110%
Ca									0.907	0.913	101%	90% - 110%	5.72	5.68	99%	90% - 110%
Ce	98	95	97%	90% - 110%	122	122	100%	90% - 110%					122	129	106%	90% - 110%
Co					2.8	3	108%	90% - 110%					2.8	2.5	89%	90% - 110%
Cr									60.3	59.3	98%	90% - 110%				
Cs	12	10	87%	90% - 110%	1.5	1.5	100%	90% - 110%					1.5	1.6	106%	90% - 110%
Cu									150	148	98%	90% - 110%				
Fe									3.77	3.73	99%	90% - 110%	4.34	4.25	98%	90% - 110%
Ga					35	35	100%	90% - 110%					35	34	97%	90% - 110%
K													1.37	1.51	110%	90% - 110%
La	44	43	98%	90% - 110%	58	60	104%	90% - 110%					58	63	108%	90% - 110%
Li									47	49	105%	90% - 110%	37	40	108%	90% - 110%
Mg									1.10	1.15	104%	90% - 110%	0.325	0.352	108%	90% - 110%
Mn									780	794	102%	90% - 110%				
Mo	14	13	90%	90% - 110%												
Na									1.624	1.70	105%	90% - 110%	5.267	5.59	106%	90% - 110%
Nb	20	16	81%	90% - 110%	13	14	107%	90% - 110%					13	14	107%	90% - 110%
Ni									32	34	105%	90% - 110%	9	11	126%	90% - 110%
Pb	31	34	110%	90% - 110%	10	11	110%	90% - 110%					10	10	98%	90% - 110%
Rb	143	144	101%	90% - 110%	55	58	105%	90% - 110%					55	57	103%	90% - 110%
Sb	0.8	0.7	86%	90% - 110%												
Sc									12	12	99%	90% - 110%	1.1	1.3	118%	90% - 110%
Sr									144	149	104%	90% - 110%	1191	1289	108%	90% - 110%
Ta					0.9	0.9	98%	90% - 110%					0.9	1	109%	90% - 110%
Th	18.4	19.3	105%	90% - 110%	1.4	1.2	88%	90% - 110%					1.4	1.2	85%	90% - 110%
U	5.7	5	87%	90% - 110%	0.8	0.7	87%	90% - 110%								
V									77	79	102%	90% - 110%	8	8	104%	90% - 110%
W	5	5	92%	90% - 110%												

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Y					119	112	94%	90% - 110%					119	112	94%	90% - 110%
Zn									130	120	92%	90% - 110%	93	92	99%	90% - 110%
	CRM #9 (ref.SY-4)				CRM #10 (ref.TILL-2)				CRM #11 (ref.SY-4)				CRM #12 (ref.TILL-2)			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Al	10.95	11.52	105%	90% - 110%									8.17	8.37	102%	90% - 110%
As					26	29	111%	90% - 110%								
Ba	340	352	104%	90% - 110%									540	529	98%	90% - 110%
Be	2.6	2.8	109%	90% - 110%									4.0	4.1	102%	90% - 110%
Ca	5.72	5.66	99%	90% - 110%									0.907	0.887	98%	90% - 110%
Ce					98	105	107%	90% - 110%	122	131	107%	90% - 110%				
Co									2.8	2.8	99%	90% - 110%				
Cr													60.3	53.7	89%	90% - 110%
Cs					12	12	99%	90% - 110%	1.5	1.6	108%	90% - 110%				
Cu	7	8	110%	90% - 110%									150	146	97%	90% - 110%
Fe	4.34	4.21	97%	90% - 110%									3.77	3.64	96%	90% - 110%
Ga									35	37	106%	90% - 110%				
K	1.37	1.48	108%	90% - 110%												
La					44	48	110%	90% - 110%	58	62	106%	90% - 110%				
Li	37	40	108%	90% - 110%									47	48	102%	90% - 110%
Mg	0.325	0.323	99%	90% - 110%									1.10	1.11	101%	90% - 110%
Mn													780	765	98%	90% - 110%
Mo					14	13	96%	90% - 110%								
Na	5.267	5.60	106%	90% - 110%									1.624	1.67	103%	90% - 110%
Nb					20	16	81%	90% - 110%	13	13	103%	90% - 110%				
Ni	9	8	86%	90% - 110%									32	33	103%	90% - 110%
Pb					31	31	101%	90% - 110%	10	10	104%	90% - 110%				
Rb					143	142	99%	90% - 110%	55	61	110%	90% - 110%				
Sb					0.8	0.7	82%	90% - 110%								
Sc	1.1	0.8	70%	90% - 110%									12	11	94%	90% - 110%
Sr	1191	1270	107%	90% - 110%									144	146	101%	90% - 110%
Ta					1.9	1.4	75%	90% - 110%	0.9	0.8	87%	90% - 110%				
Th					18.4	19.1	104%	90% - 110%	1.4	1.3	91%	90% - 110%				
U					5.7	4.9	86%	90% - 110%								
V	8	7	93%	90% - 110%									77	74	96%	90% - 110%

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AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

W					5	5	91%	90% - 110%								
Y									119	117	98%	90% - 110%				
Zn	93	90	97%	90% - 110%									130	117	90%	90% - 110%
	CRM #13 (ref.SY-4)															
Parameter	Expect	Actual	Recovery	Limits												
Al	10.95	11.32	103%	90% - 110%												
Ba	340	346	102%	90% - 110%												
Be	2.6	2.8	109%	90% - 110%												
Ca	5.72	5.57	97%	90% - 110%												
Fe	4.34	4.15	96%	90% - 110%												
K	1.37	1.45	106%	90% - 110%												
Li	37	40	108%	90% - 110%												
Mg	0.325	0.318	98%	90% - 110%												
Na	5.267	5.54	105%	90% - 110%												
Ni	9	7	79%	90% - 110%												
Sr	1191	1244	104%	90% - 110%												
V	8	8	99%	90% - 110%												
Zn	93	91	98%	90% - 110%												

(202-551) Fire Assay - Trace Au, AAS finish (50g Charge)

	CRM #1 (ref.WW07)				CRM #2 (ref.WW07)				CRM #3 (ref.WW07)				CRM #4 (ref.WW07)			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Au	6.56	6.12	93%	90% - 110%	6.56	6.09	93%	90% - 110%	6.56	6.47	99%	90% - 110%	6.56	6.1	93%	90% - 110%
	CRM #5 (ref.GS45)				CRM #6 (ref.GS45)				CRM #7 (ref.GS45)							
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits				
Au	2.89	3	104%	90% - 110%	2.89	2.66	92%	90% - 110%	2.89	2.83	98%	90% - 110%				

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Method Summary

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12020		ICP-MS
Al	MIN-200-12020		ICP/OES
As	MIN-200-12020		ICP-MS
Ba	MIN-200-12020		ICP/OES
Be	MIN-200-12020		ICP-MS
Bi	MIN-200-12020		ICP-MS
Ca	MIN-200-12020		ICP/OES
Cd	MIN-200-12020		ICP-MS
Ce	MIN-200-12020		ICP-MS
Co	MIN-200-12020		ICP-MS
Cr	MIN-200-12020		ICP/OES
Cs	MIN-200-12020		ICP-MS
Cu	MIN-200-12020		ICP-MS
Fe	MIN-200-12020		ICP/OES
Ga	MIN-200-12020		ICP-MS
Ge	MIN-200-12020		ICP-MS
Hf	MIN-200-12020		ICP-MS
In	MIN-200-12020		ICP-MS
K	MIN-200-12020		ICP/OES
La	MIN-200-12020		ICP-MS
Li	MIN-200-12020		ICP-MS
Mg	MIN-200-12020		ICP/OES
Mn	MIN-200-12020		ICP/OES
Mo	MIN-200-12020		ICP-MS
Na	MIN-200-12020		ICP/OES
Nb	MIN-200-12020		ICP-MS
Ni	MIN-200-12020		ICP-MS
P	MIN-200-12020		ICP/OES
Pb	MIN-200-12020		ICP-MS
Rb	MIN-200-12020		ICP-MS
Re	MIN-200-12020		ICP-MS
S	MIN-200-12020		ICP/OES
Sb	MIN-200-12020		ICP-MS
Sc	MIN-200-12020		ICP-MS
Se	MIN-200-12020		ICP-MS
Sn	MIN-200-12020		ICP-MS
Sr	MIN-200-12020		ICP-MS
Ta	MIN-200-12020		ICP-MS
Te	MIN-200-12020		ICP-MS
Th	MIN-200-12020		ICP-MS
Tl	MIN-200-12020		ICP-MS
U	MIN-200-12020		ICP-MS
V	MIN-200-12020		ICP/OES
W	MIN-200-12020		ICP-MS
Y	MIN-200-12020		ICP-MS
Zn	MIN-200-12020		ICP/OES
Zr	MIN-200-12020		ICP-MS
Hg	MIN-200-12022		CVAAS

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Method Summary

CLIENT NAME: IAMGOLD CORPORATION, COTE GOLD DIVISION

AGAT WORK ORDER: 17B294321

PROJECT: Watershed East - 259

ATTENTION TO: ALAN SMITH, STEPHEN ROACH

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Au	MIN-200-12004	BUGBEE, E: A Textbook of Fire Assaying	AA

APPENDIX 3

BEN16-09A QA/QC

IAMGOLD CORPORATION

QUALITY CONTROL REPORT

Hole Number **BEN16-09A** Project: **BENNEWEIS** Project Number: **240**

Sample #	Sample Type	Duplicate of	Standard name	Laboratory	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)	FA4 Au (ppm)	FA5 Au (ppm)	SFA Au (ppm)	SFA2 Au (ppm)	SFA3 Au (ppm)	GA Au (ppm)	GA2 Au (ppm)	GA3 Au (ppm)	GA4 Au (ppm)	GA5 Au (ppm)	AR Au (ppm)	AR2 Au (ppm)	AR3 Au (ppm)	Wt (kg)
283012	STANDARD		OREAS 522	ActLabs	-	-	0.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
283024	BLKDIA			ActLabs	-	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
283036	STANDARD		OREAS 206	ActLabs	-	-	1.97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
283048	BLKDIA			ActLabs	-	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
283060	STANDARD		OREAS 501	ActLabs	-	-	0.23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
283072	BLKDIA			ActLabs	-	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
283084	STANDARD		OREAS 504	ActLabs	-	-	1.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
283096	BLKDIA			ActLabs	-	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
283112	STANDARD		OREAS 522	ActLabs	-	-	0.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
283124	BLKDIA			ActLabs	-	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
283136	STANDARD		OREAS 206	ActLabs	-	-	2.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
283148	BLKDIA			ActLabs	-	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
283160	STANDARD		OREAS 501	ActLabs	-	-	0.27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
283172	BLKDIA			ActLabs	-	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
283184	STANDARD		OREAS 504	ActLabs	-	-	1.73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
283196	BLKDIA			ActLabs	-	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
283208	STANDARD		OREAS 522	ActLabs	-	-	0.57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
283220	BLKDIA			ActLabs	-	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
283232	STANDARD		OREAS 206	ActLabs	-	-	2.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
283244	BLKDIA			ActLabs	-	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
283256	STANDARD		OREAS 501	ActLabs	-	-	0.22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
283268	BLKDIA			ActLabs	-	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
283280	STANDARD		OREAS 504	ActLabs	-	-	1.71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
283292	BLKDIA			ActLabs	-	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
283304	STANDARD		OREAS 522	ActLabs	-	-	0.56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

IAMGOLD CORPORATION

QUALITY CONTROL REPORT

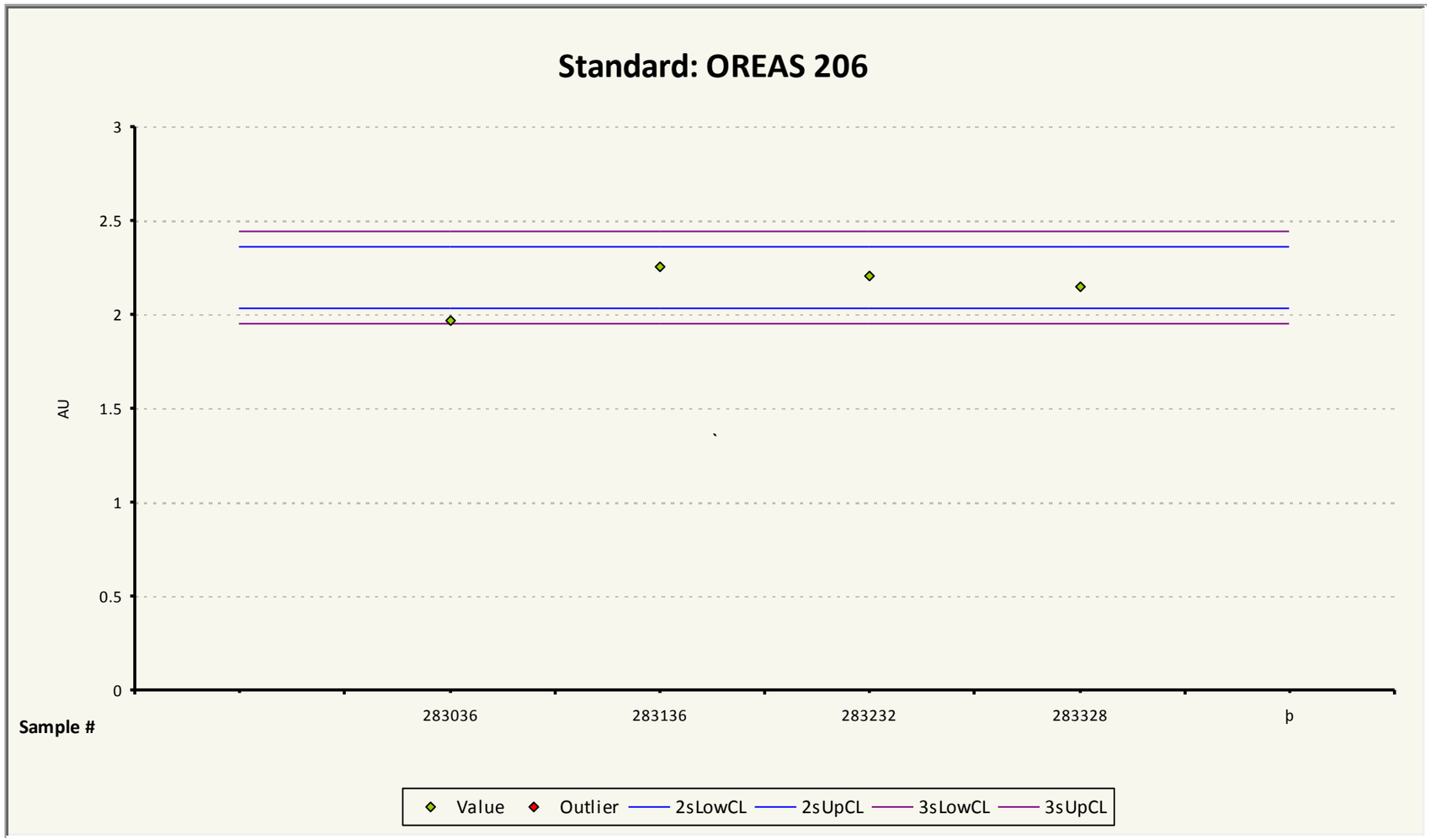
Hole Number **BEN16-09A** Project: **BENNEWEIS** Project Number: **240**

283316	BLKDIA		ActLabs	-	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
283328	STANDARD	OREAS 206	ActLabs	-	-	2.14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

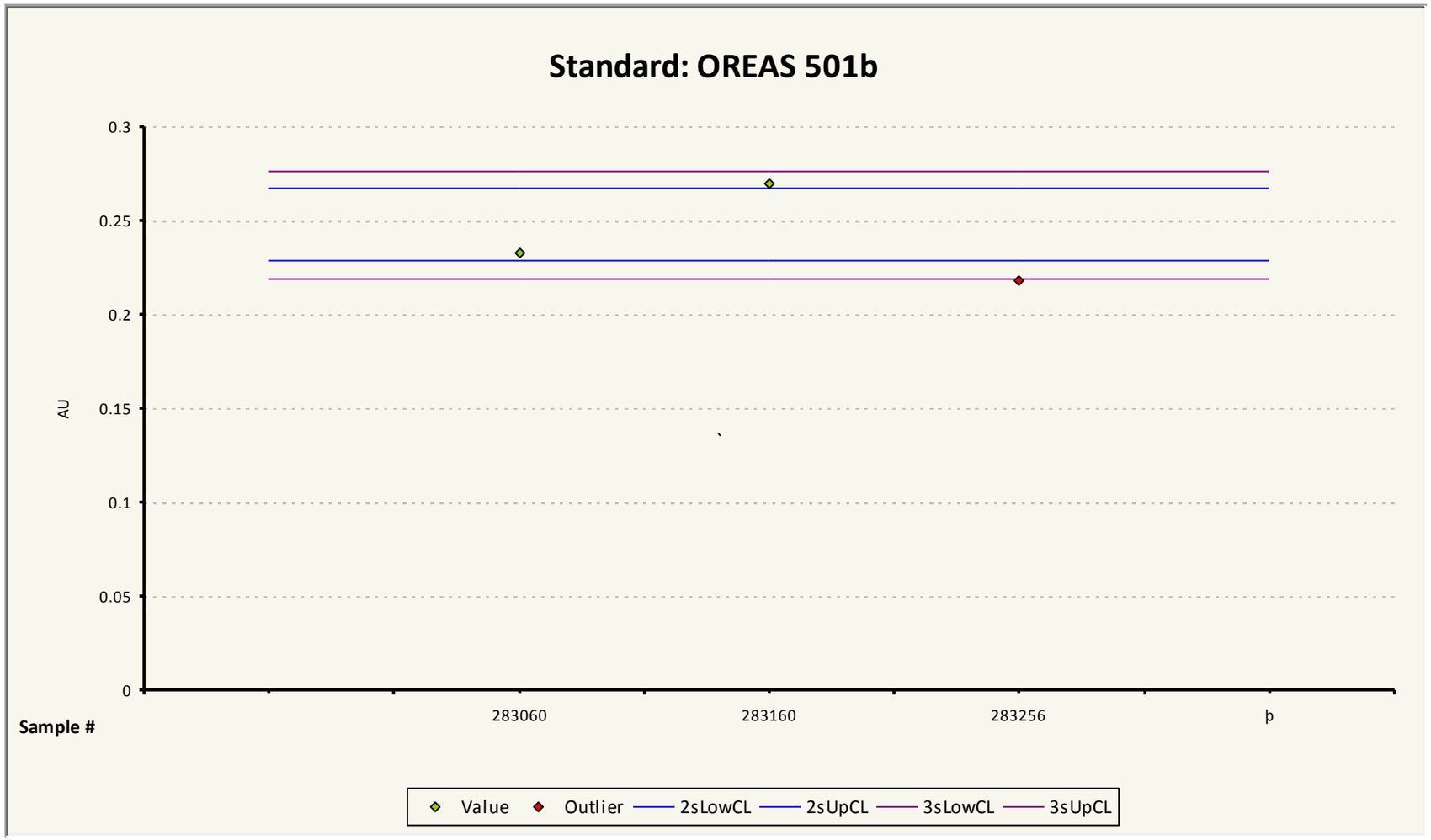
Filter Certificates: A16-12700-Au (R) *Filter QC Sample Type: OREAS 206* *Filter QC Sample Type: AU*



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

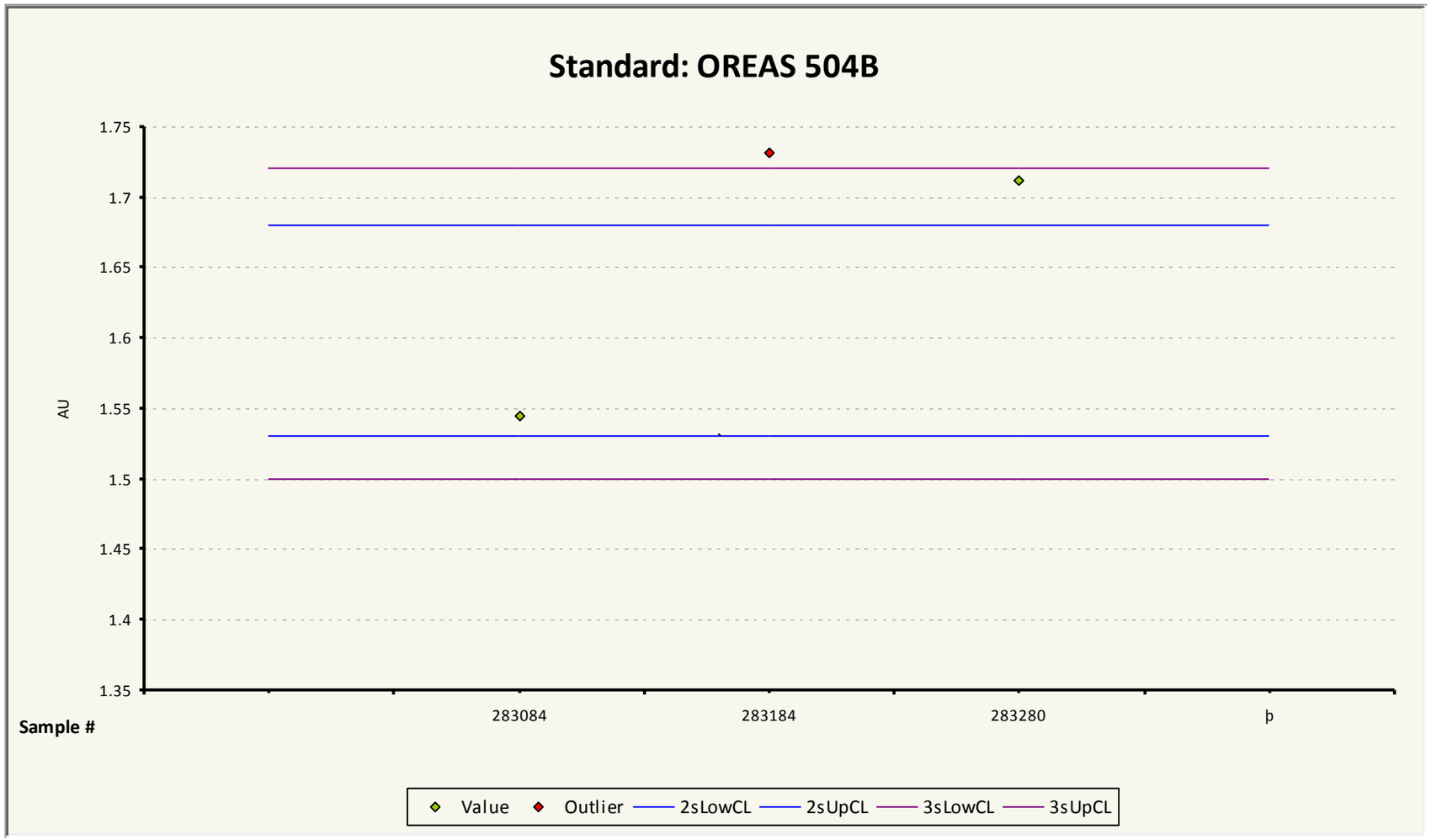
Filter Certificates: *A16-12700-Au (R)* *Filter QC Sample Type:* *OREAS 501b* *Filter QC Sample Type:* *AU*



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

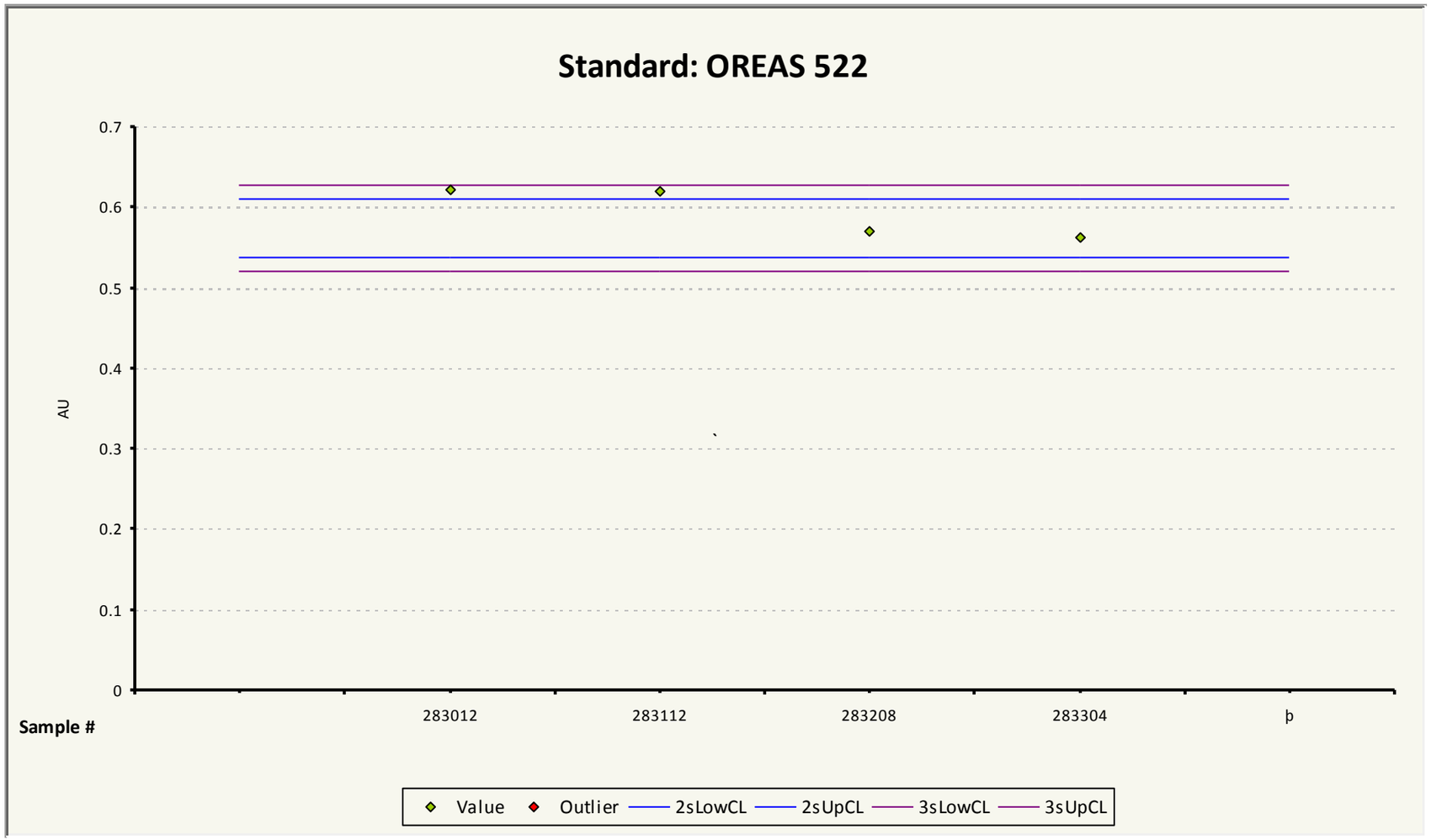
Filter Certificates: *A16-12700-Au (R)* *Filter QC Sample Type:* *OREAS 504B* *Filter QC Sample Type:* *AU*



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

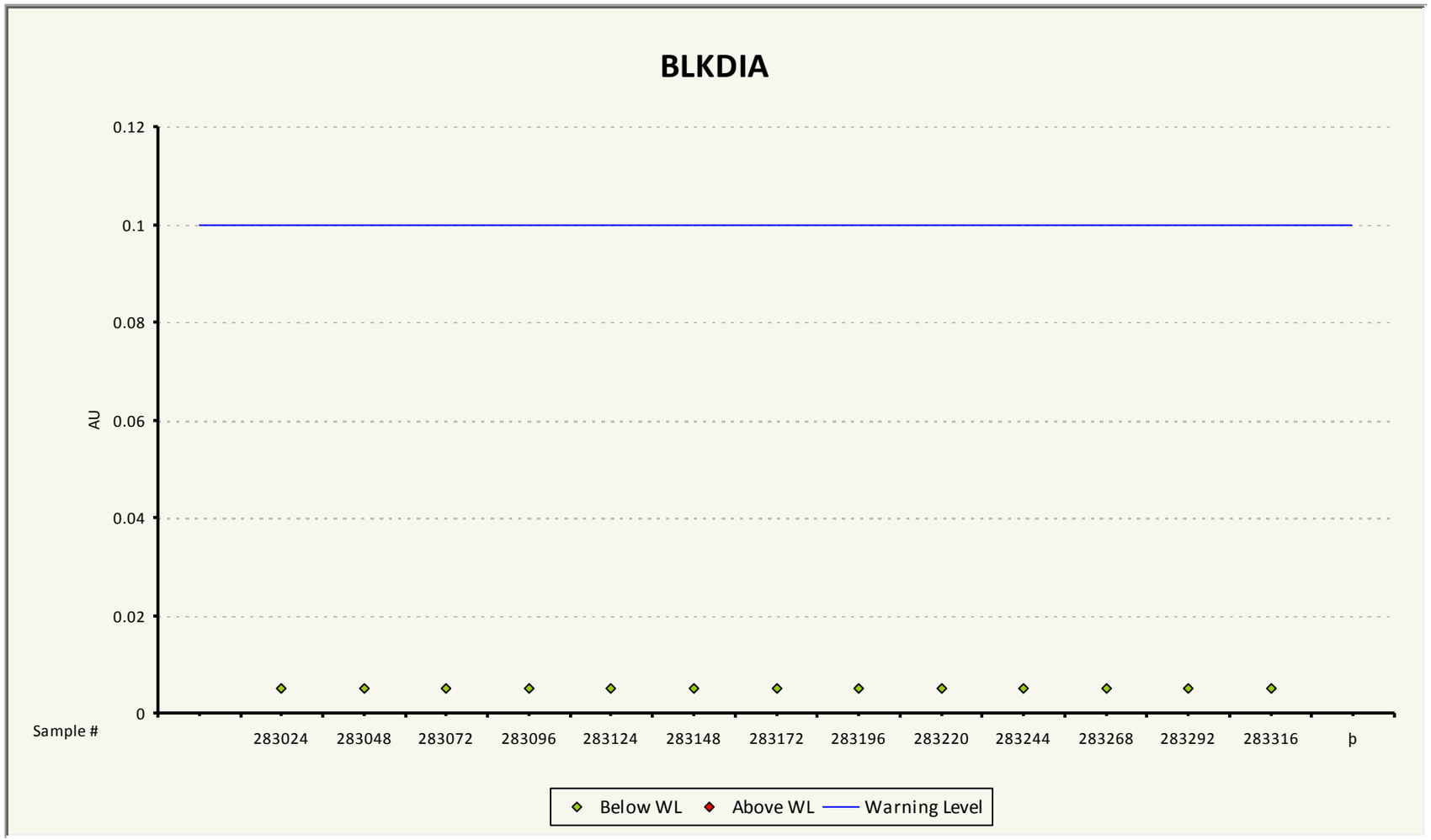
Filter Certificates: A16-12700-Au (R) *Filter QC Sample Type: OREAS 522* *Filter QC Sample Type: AU*



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

Filter Certificates: *A16-12700-Au (R)* ***Filter QC Sample Type:*** *BLKDIA* ***Filter QC Sample Type:*** *AU*



KER15-01 QA/QC

QUALITY CONTROL REPORT

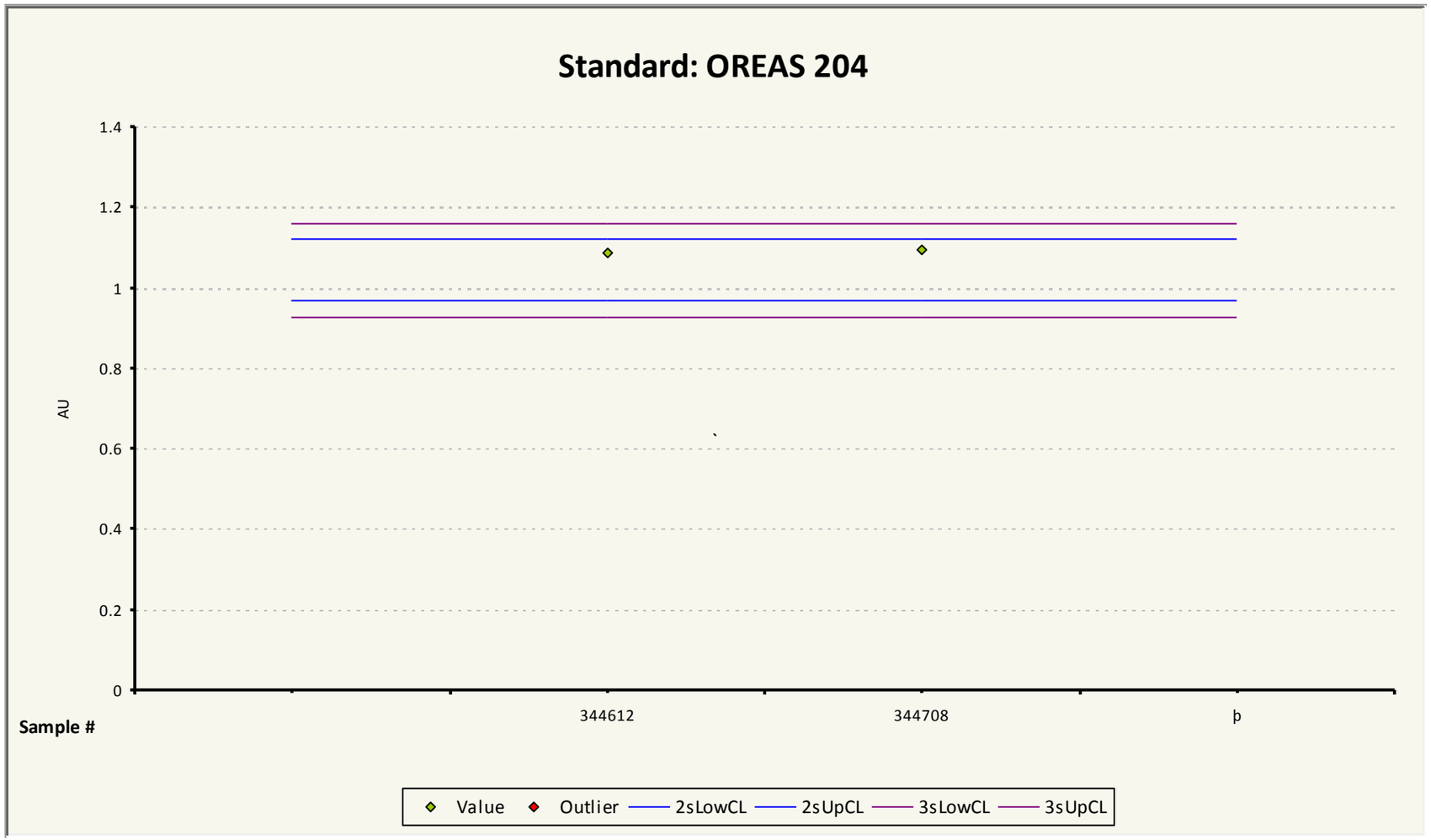
Hole Number **KER15-01** Project: **CHESTER 3B-JACK RABBIT** Project Number: **234**

Sample #	Sample Type	Duplicate of	Standard name	Laboratory	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)	FA4 Au (ppm)	FA5 Au (ppm)	SFA Au (ppm)	SFA2 Au (ppm)	SFA3 Au (ppm)	GA Au (ppm)	GA2 Au (ppm)	GA3 Au (ppm)	GA4 Au (ppm)	GA5 Au (ppm)	AR Au (ppm)	AR2 Au (ppm)	AR3 Au (ppm)	Wt (kg)
344612	STANDARD		OREAS 204	ActLabs	-	-	1.09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
344624	BLKDIA			ActLabs	-	-	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
344636	STANDARD		OREAS 206	ActLabs	-	-	2.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
344648	BLKDIA			ActLabs	-	-	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
344660	STANDARD		OREAS 501	ActLabs	-	-	0.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
344672	BLKDIA			ActLabs	-	-	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
344684	STANDARD		OREAS 504	ActLabs	-	-	1.53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
344696	BLKDIA			ActLabs	-	-	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
344708	STANDARD		OREAS 204	ActLabs	-	-	1.09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
344720	BLKDIA			ActLabs	-	-	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
344732	STANDARD		OREAS 206	ActLabs	-	-	2.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
344744	BLKDIA			ActLabs	-	-	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
344756	STANDARD		OREAS 501	ActLabs	-	-	0.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
344768	BLKDIA			ActLabs	-	-	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
344780	STANDARD		OREAS 504	ActLabs	-	-	1.59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
344792	BLKDIA			ActLabs	-	-	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

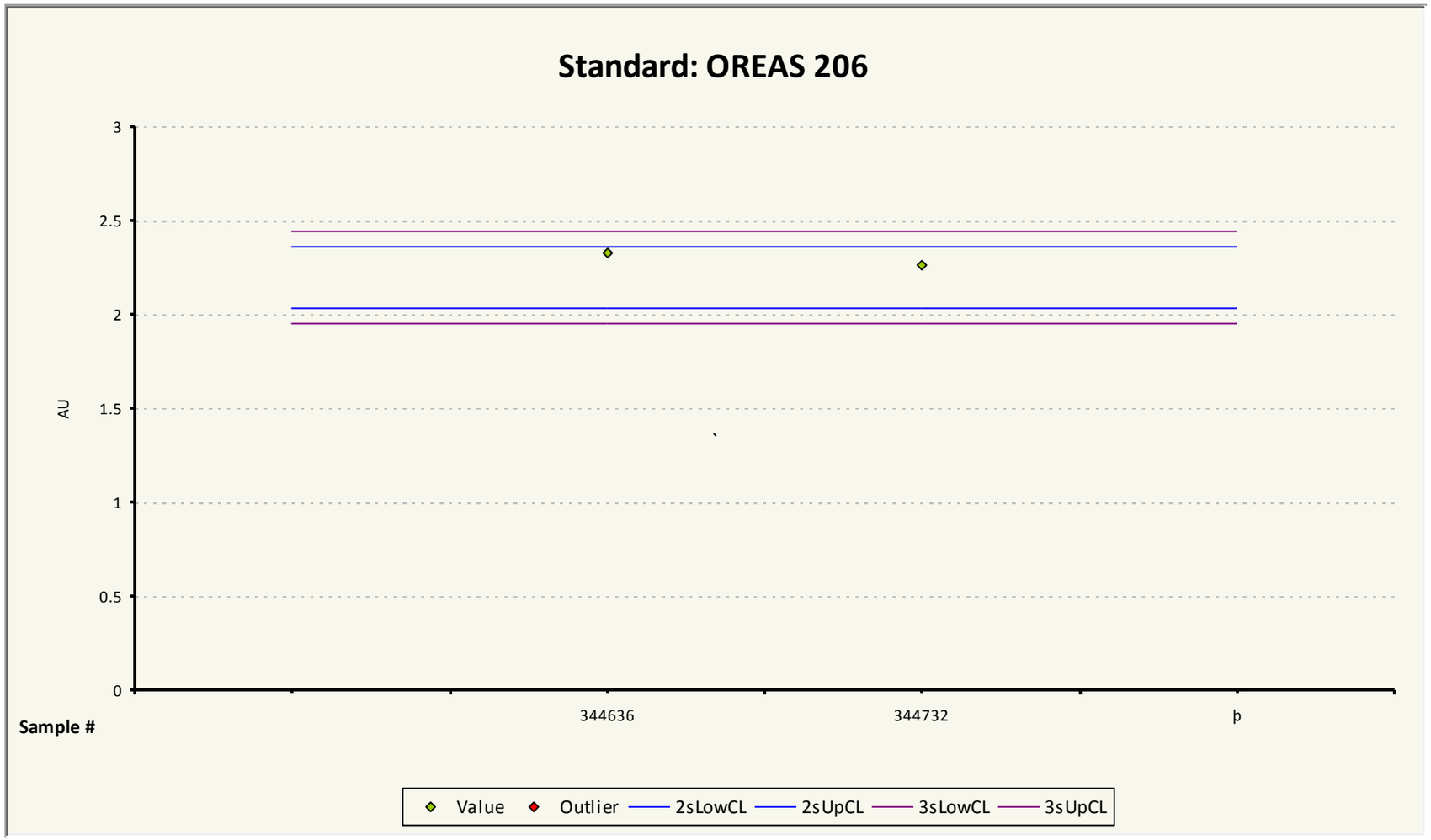
Filter Certificates: *SU1600061A* *Filter QC Sample Type:* *OREAS 204* *Filter QC Sample Type:* *AU*



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

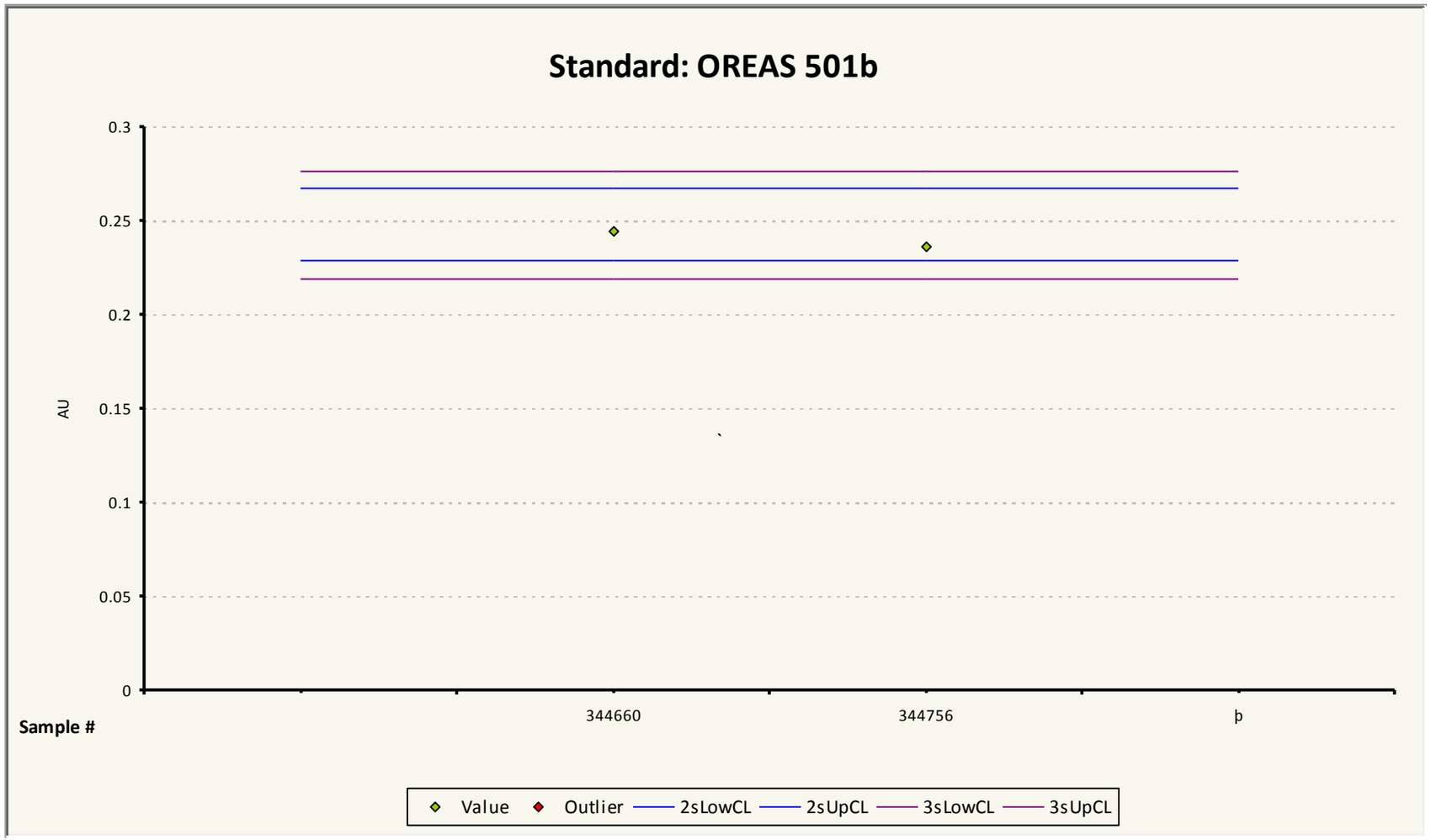
Filter Certificates: ***SU1600061A*** *Filter QC Sample Type:* ***OREAS 206*** *Filter QC Sample Type:* ***AU***



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

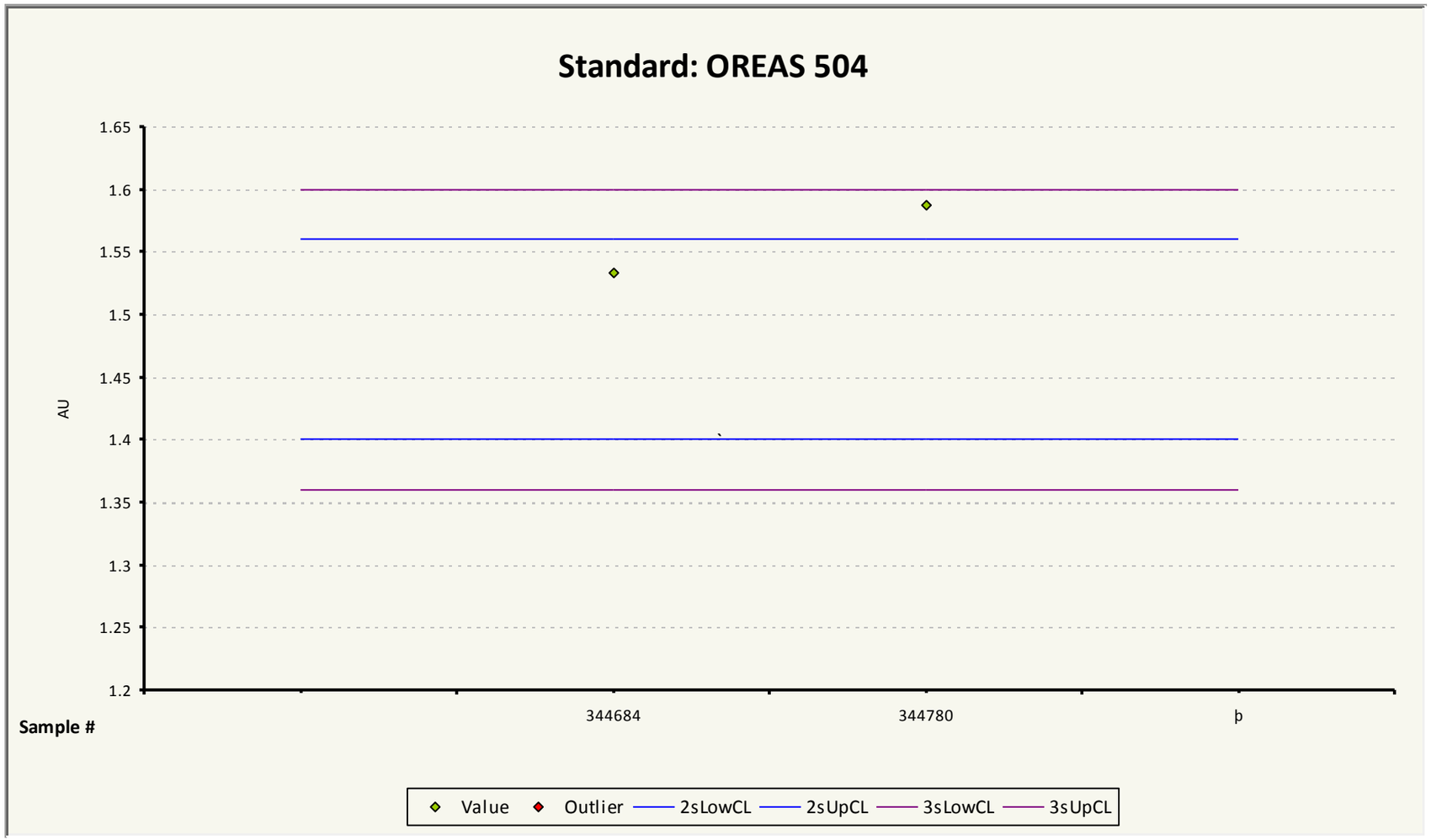
Filter Certificates: ***SU1600061A*** ***Filter QC Sample Type:*** ***OREAS 501b*** ***Filter QC Sample Type:*** ***AU***



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

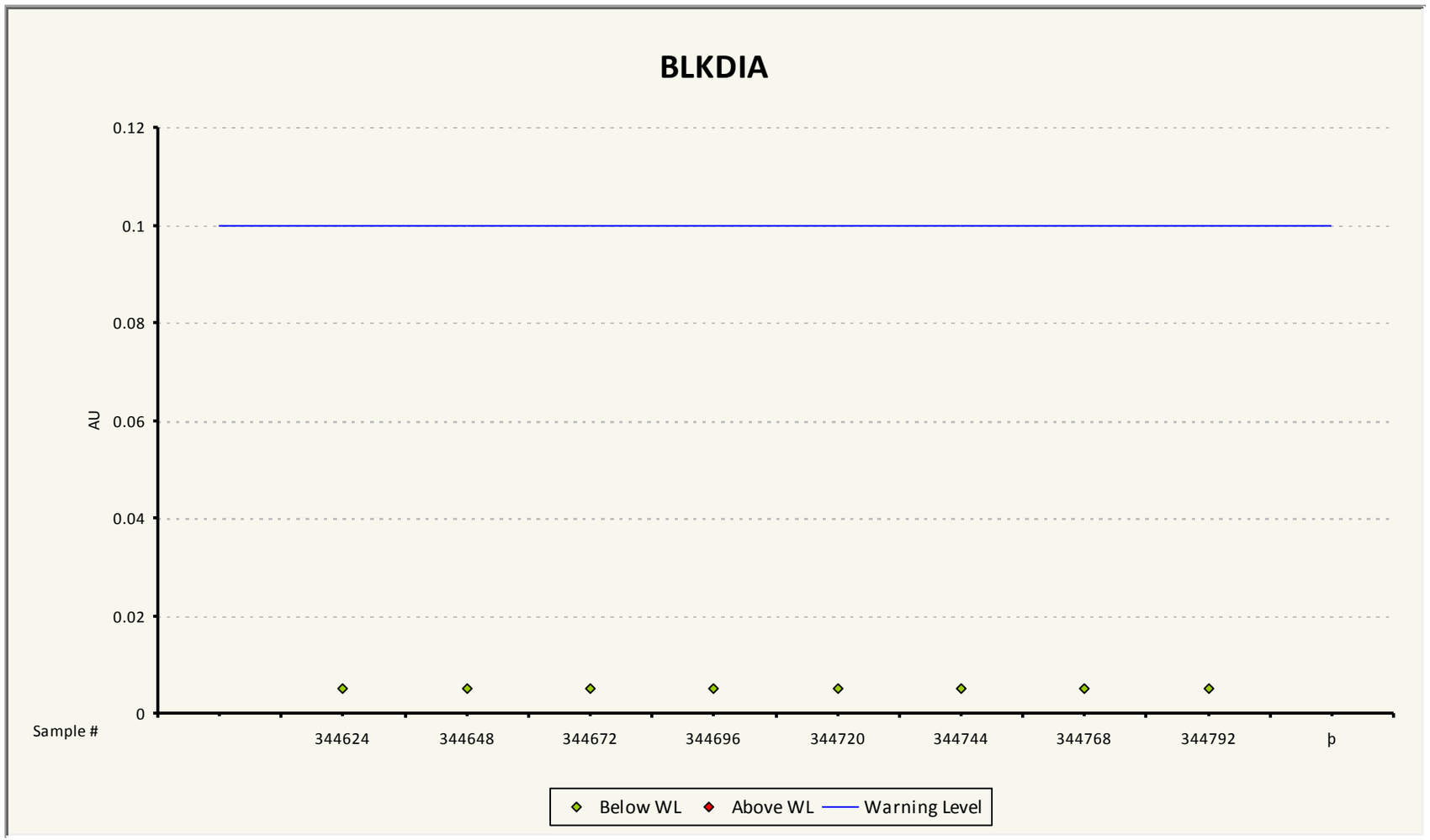
Filter Certificates: ***SU1600061A*** *Filter QC Sample Type:* ***OREAS 504*** *Filter QC Sample Type:* ***AU***



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

Filter Certificates: ***SU1600061A*** ***Filter QC Sample Type:*** ***BLKDIA*** ***Filter QC Sample Type:*** ***AU***



KER15-02 QA/QC

QUALITY CONTROL REPORT

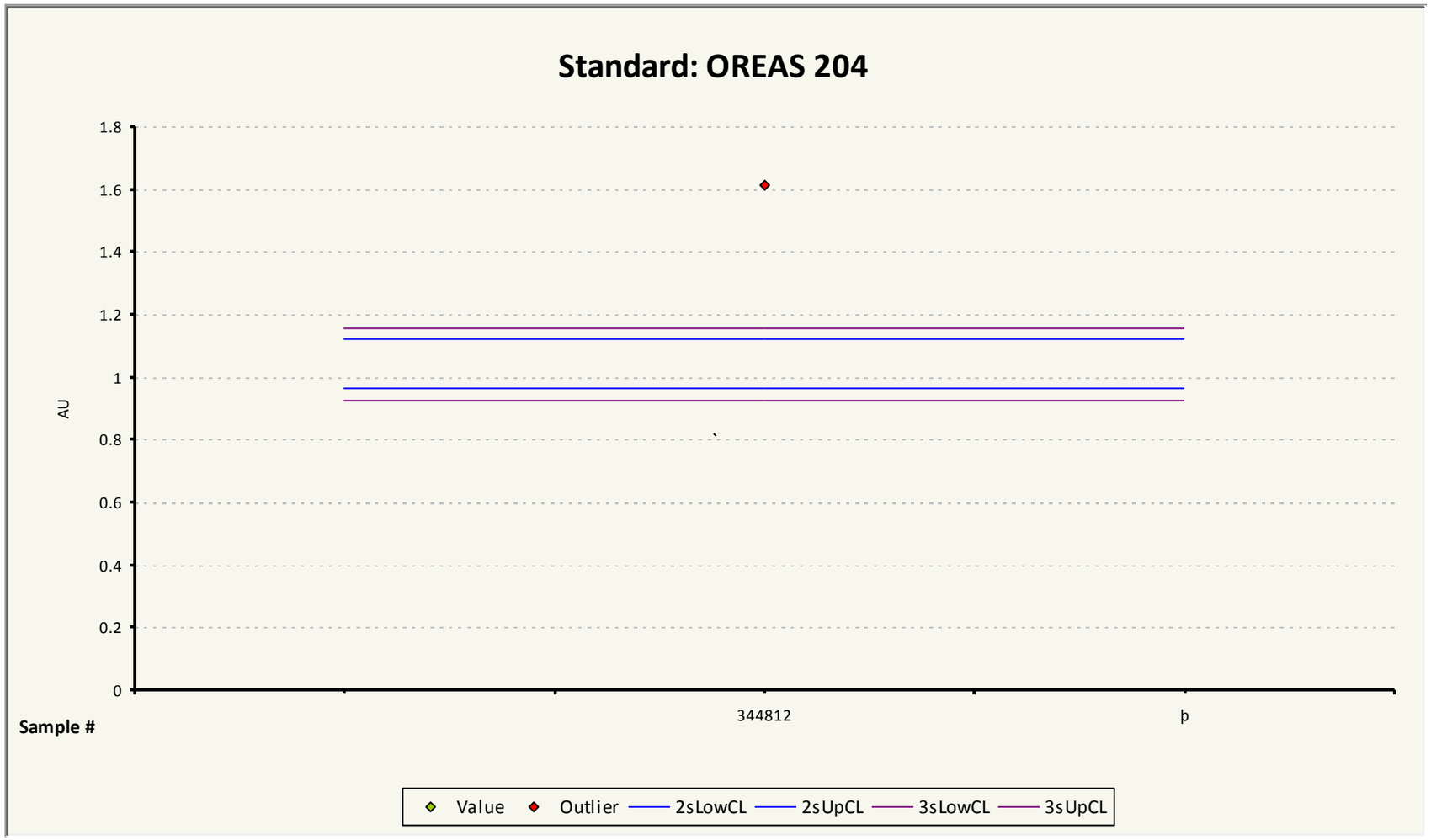
Hole Number **KER15-02** Project: **CHESTER 3B-JACK RABBIT** Project Number: **234**

Sample #	Sample Type	Duplicate of	Standard name	Laboratory	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)	FA4 Au (ppm)	FA5 Au (ppm)	SFA Au (ppm)	SFA2 Au (ppm)	SFA3 Au (ppm)	GA Au (ppm)	GA2 Au (ppm)	GA3 Au (ppm)	GA4 Au (ppm)	GA5 Au (ppm)	AR Au (ppm)	AR2 Au (ppm)	AR3 Au (ppm)	Wt (kg)
344812	STANDARD		OREAS 204	SGS	-	-	1.61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
344824	BLKDIA			SGS	-	-	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
344836	STANDARD		OREAS 206	SGS	-	-	2.31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
344848	BLKDIA			SGS	-	-	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
344860	STANDARD		OREAS 501	SGS	-	-	0.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
344872	BLKDIA			SGS	-	-	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
344884	STANDARD			SGS	-	-	1.55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

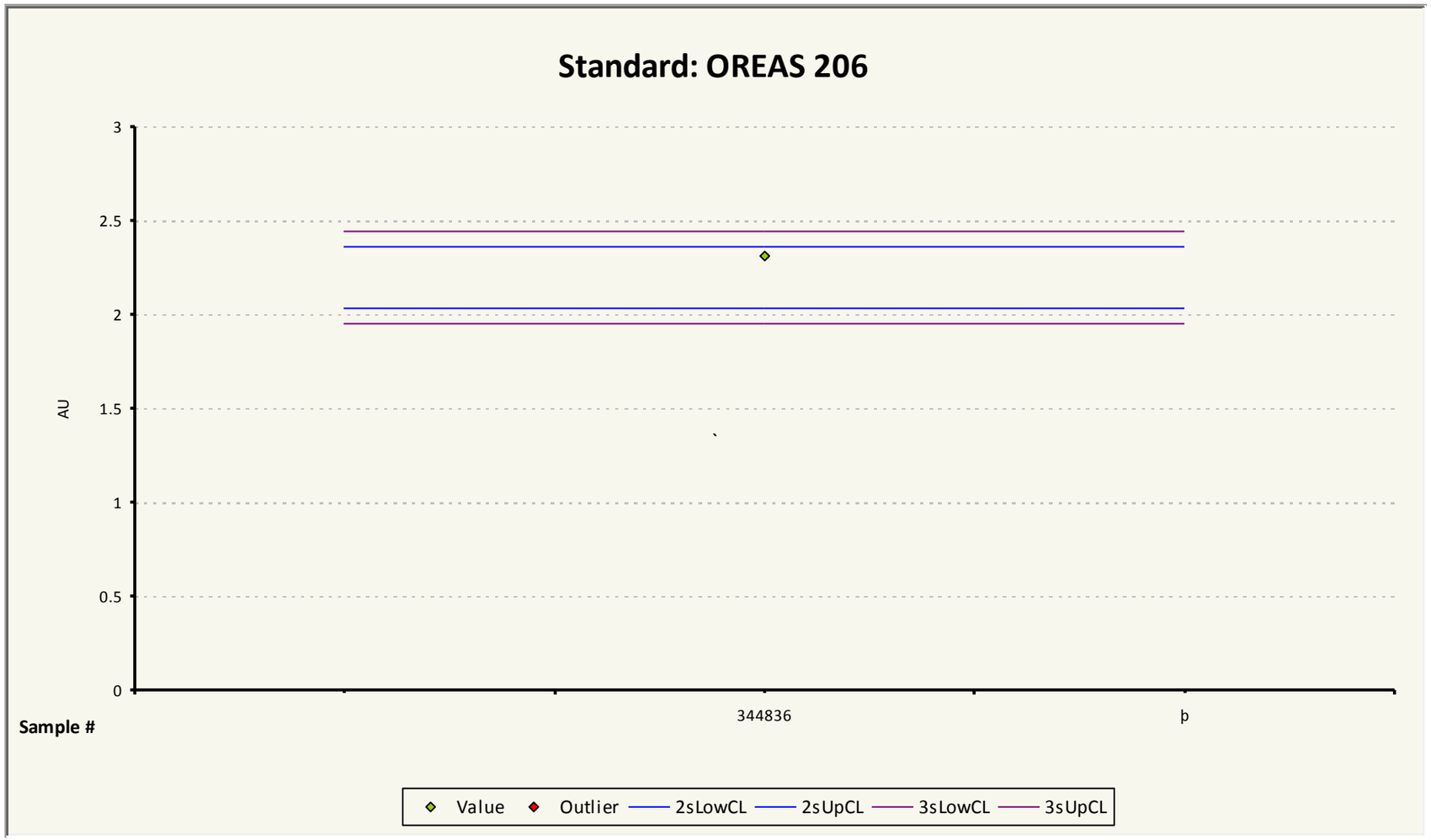
Filter Certificates: ***SU1600110A*** *Filter QC Sample Type:* ***OREAS 204*** *Filter QC Sample Type:* ***AU***



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

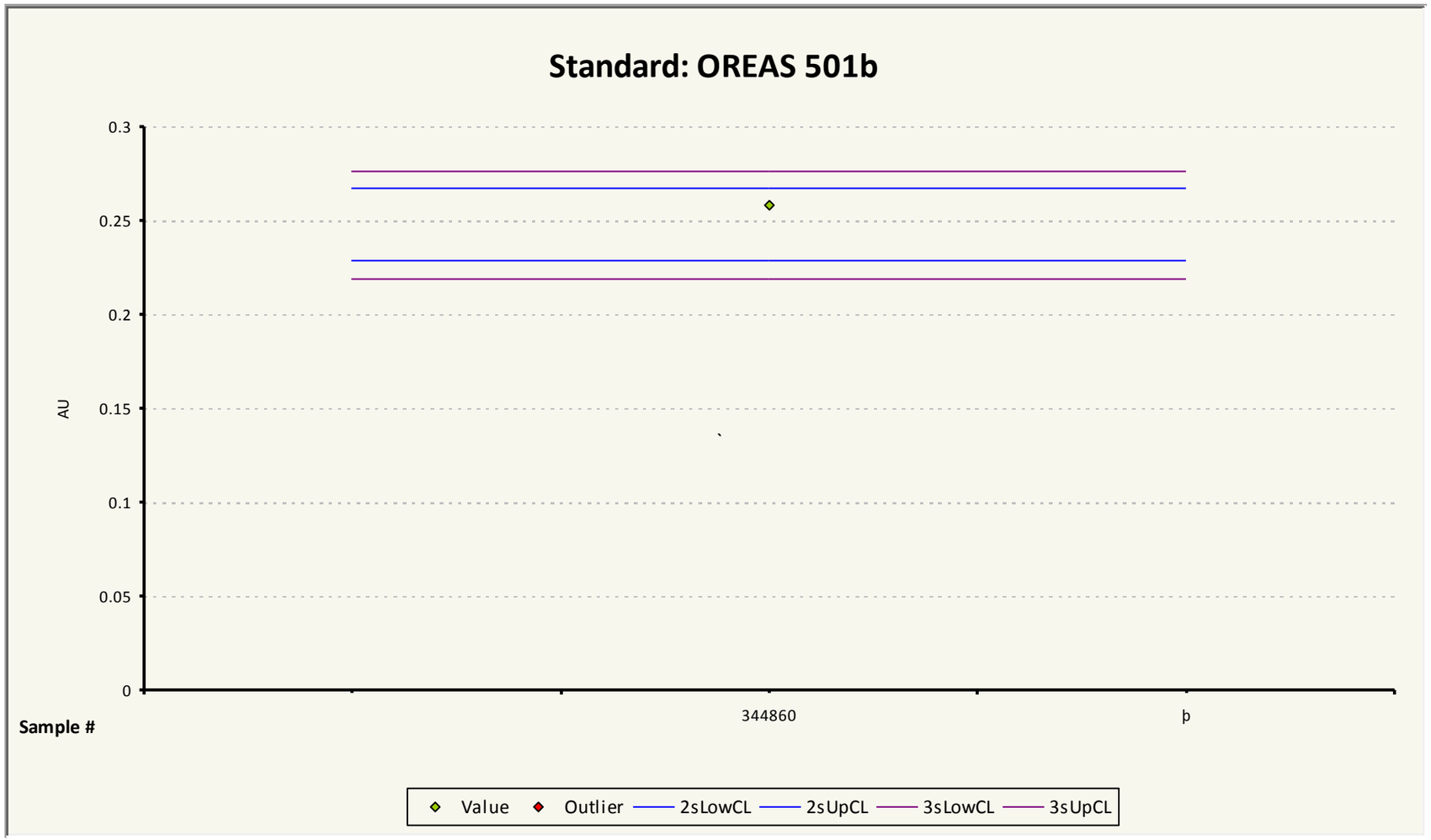
Filter Certificates: *SU1600110A* *Filter QC Sample Type:* *OREAS 206* *Filter QC Sample Type:* *AU*



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

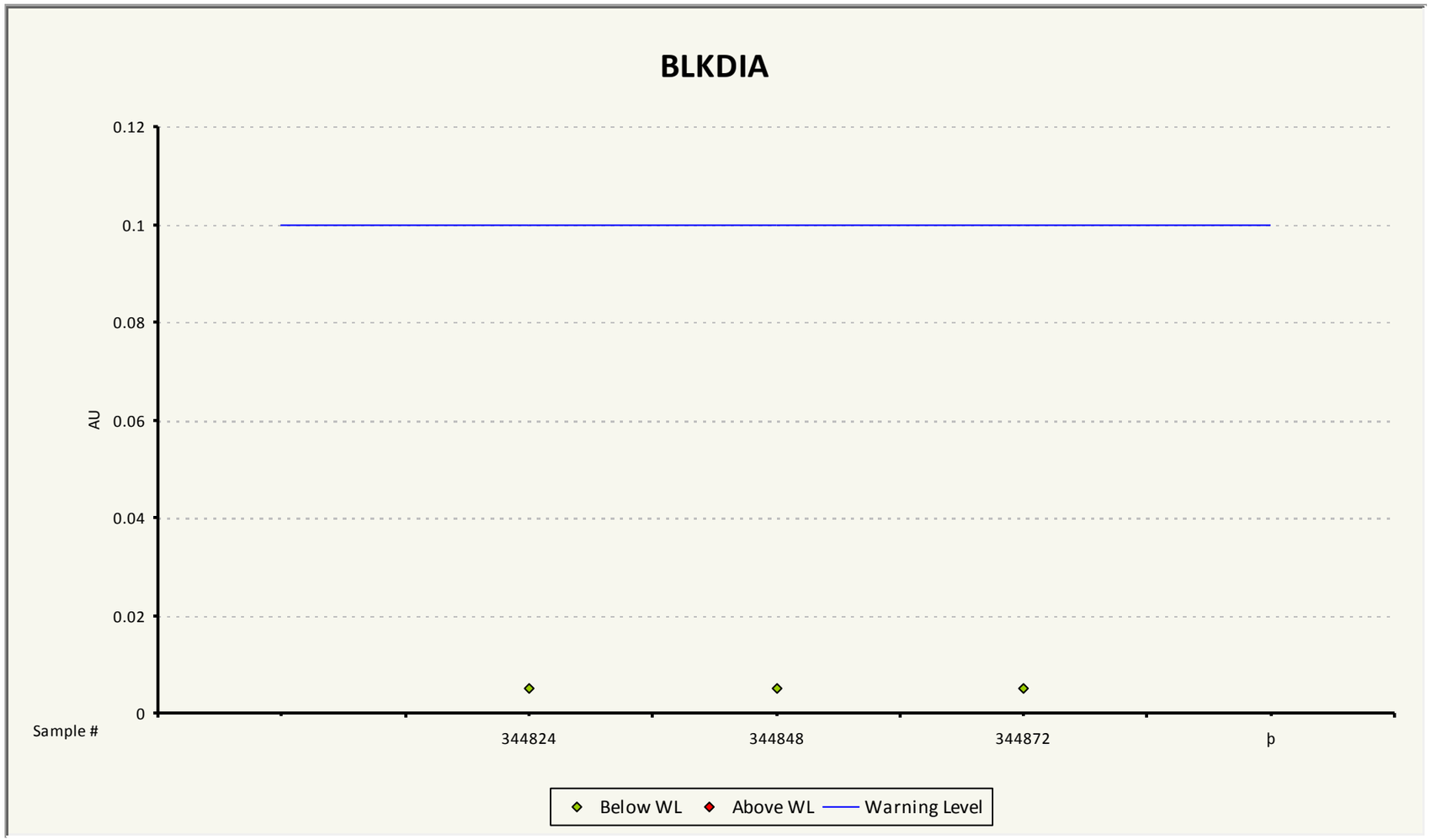
Filter Certificates: *SU1600110A* *Filter QC Sample Type:* *OREAS 501b* *Filter QC Sample Type:* *AU*



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

Filter Certificates: ***SU1600110A*** ***Filter QC Sample Type:*** ***BLKDIA*** ***Filter QC Sample Type:*** ***AU***



WAT16-01 QA/QC

QUALITY CONTROL REPORT

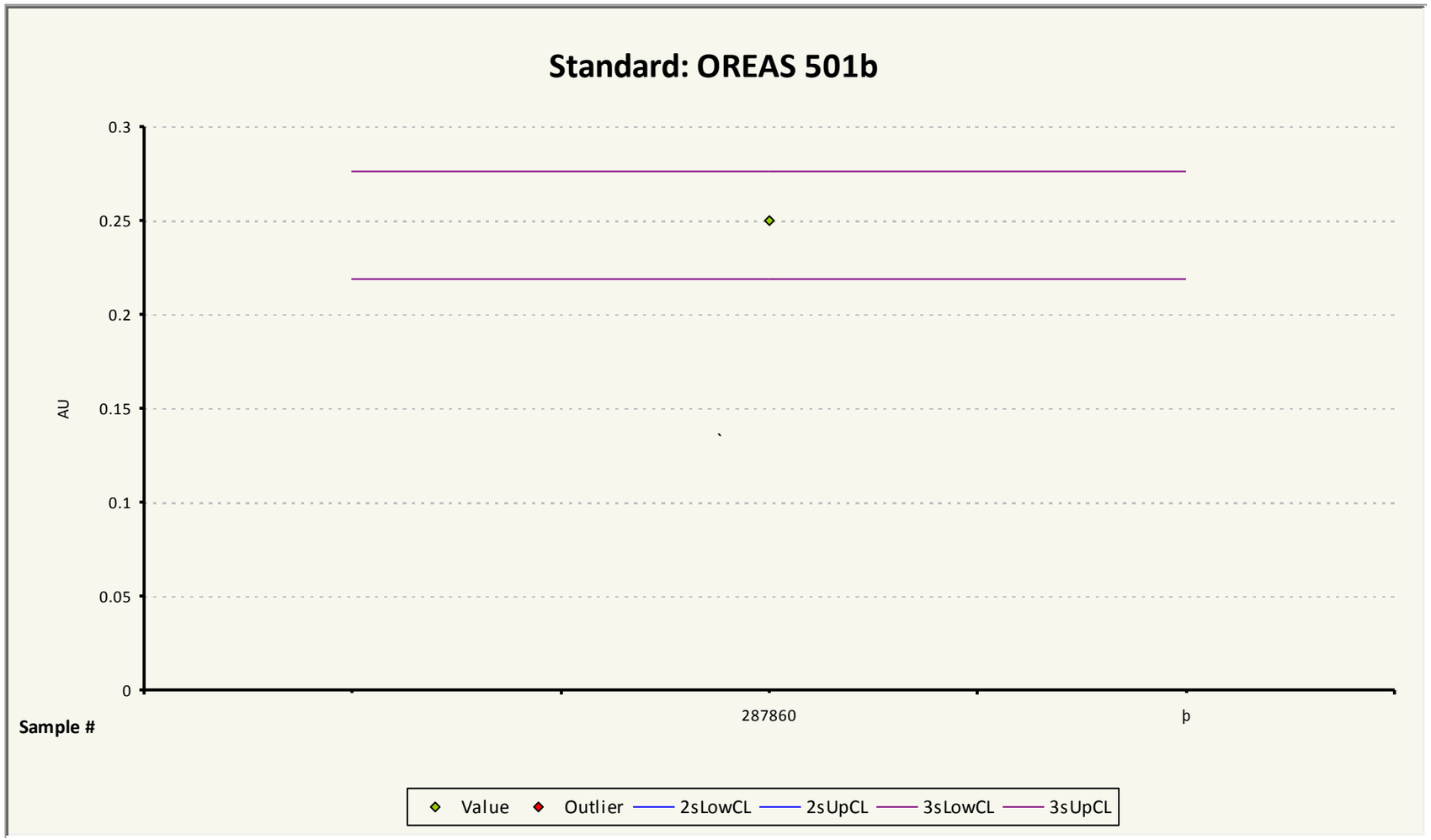
Hole Number **WAT16-01** Project: **TAAC** Project Number: **251**

Sample #	Sample Type	Duplicate of	Standard name	Laboratory	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)	FA4 Au (ppm)	FA5 Au (ppm)	SFA Au (ppm)	SFA2 Au (ppm)	SFA3 Au (ppm)	GA Au (ppm)	GA2 Au (ppm)	GA3 Au (ppm)	GA4 Au (ppm)	GA5 Au (ppm)	AR Au (ppm)	AR2 Au (ppm)	AR3 Au (ppm)	Wt (kg)
289224	BLKDIA			ActLabs	0	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
289236	STANDARD		OREAS 62c	ActLabs	5	-	5.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
289248	BLKDIA			ActLabs	0	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
289812	STANDARD		OREAS 522		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
289824	BLKDIA				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
287836	STANDARD		OREAS 62c	ActLabs	5	-	5.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
287848	BLKDIA			ActLabs	0	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
287860	STANDARD		OREAS 501	ActLabs	0	-	0.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
287872	BLKDIA			ActLabs	0	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
287884	STANDARD		OREAS 504	ActLabs	2	-	1.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
287896	BLKDIA			ActLabs	0	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

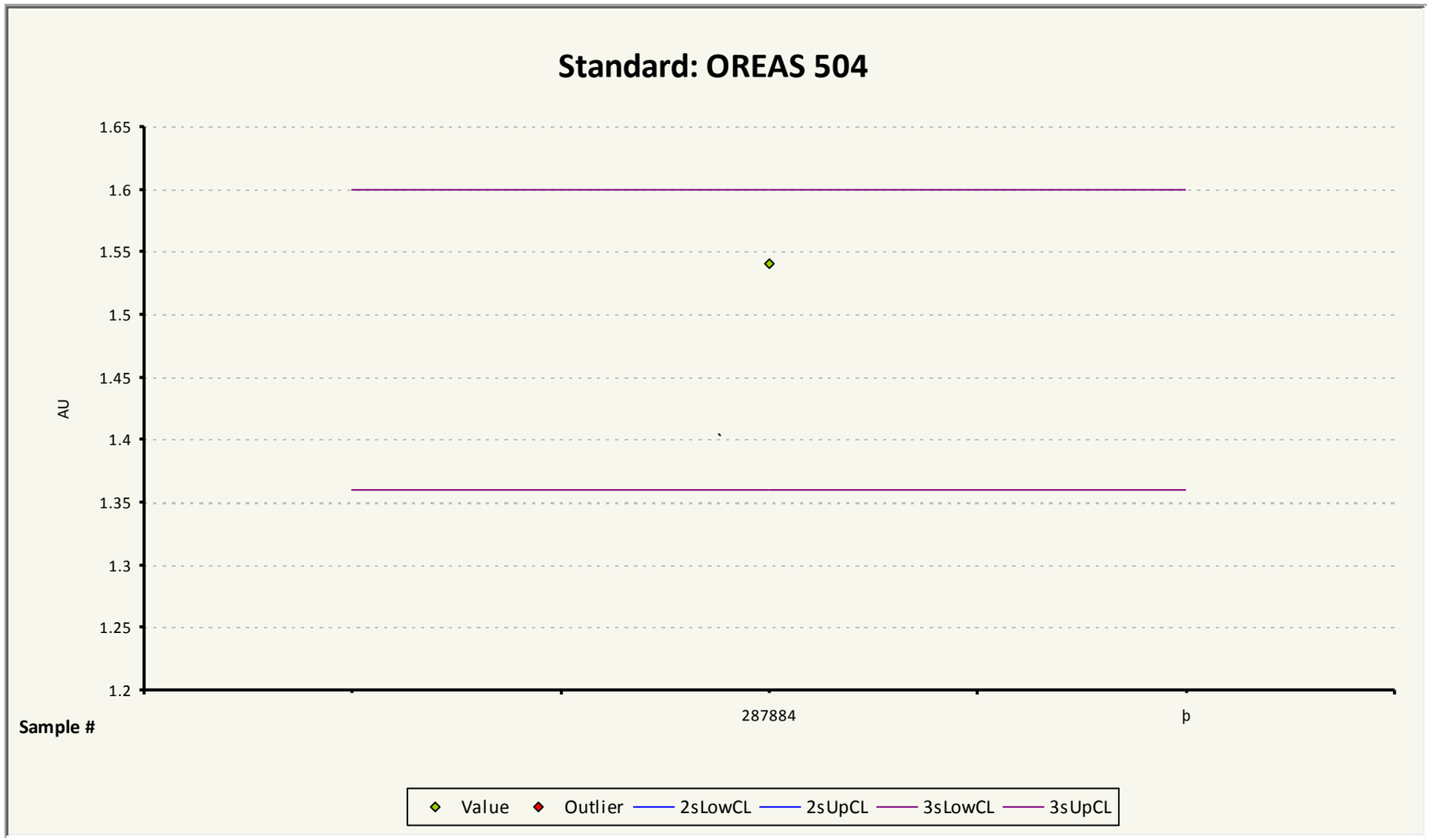
Filter Certificates: *A16-13640-Au (R)* *Filter QC Sample Type:* *OREAS 501b* *Filter QC Sample Type:* *AU*



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

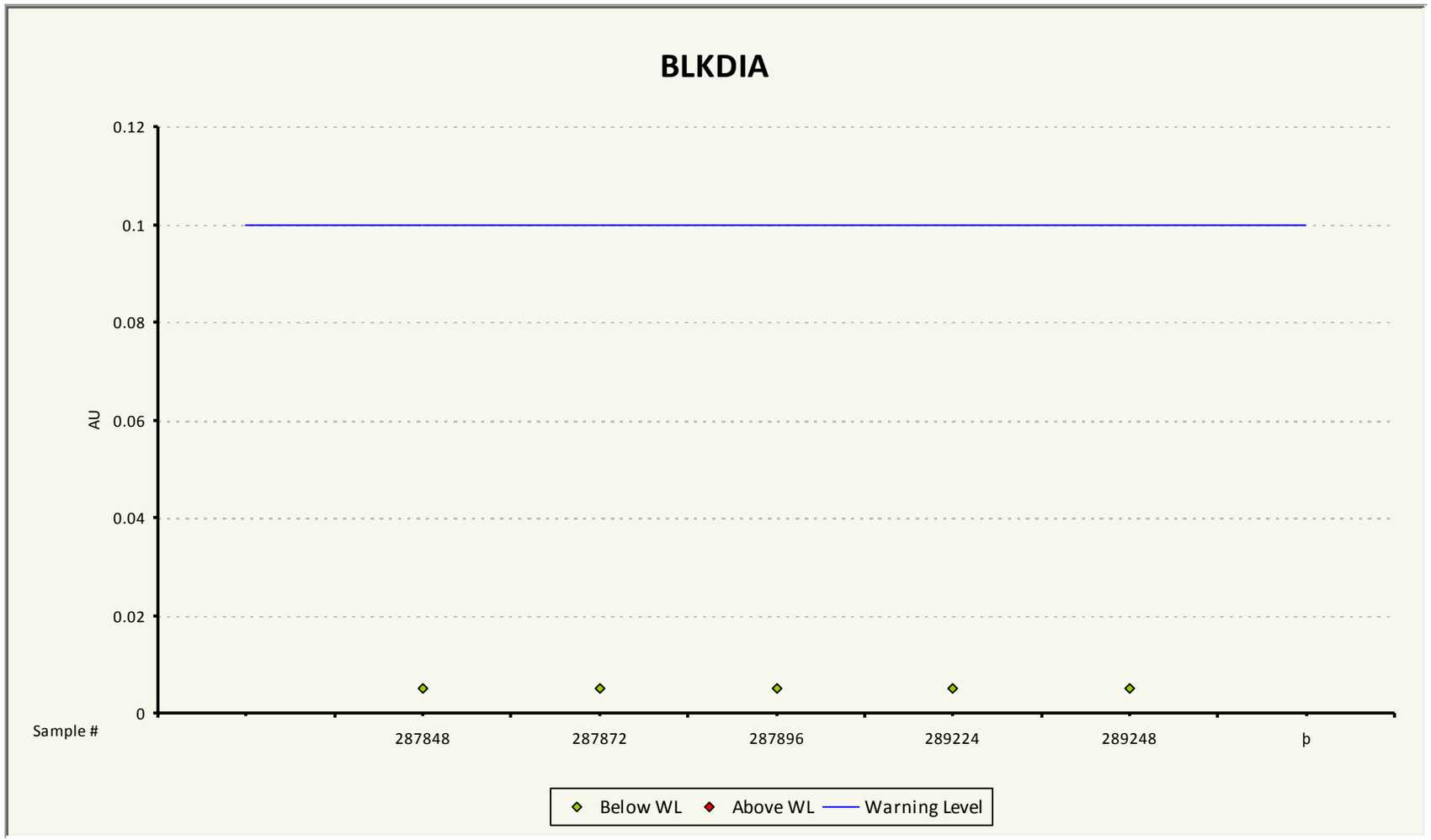
Filter Certificates: *A16-13640-Au (R)* *Filter QC Sample Type:* *OREAS 504* *Filter QC Sample Type:* *AU*



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

Filter Certificates: A16-13640-Au (R) *Filter QC Sample Type: BLKDIA* *Filter QC Sample Type: AU*



WAT16-02 QA/QC

QUALITY CONTROL REPORT

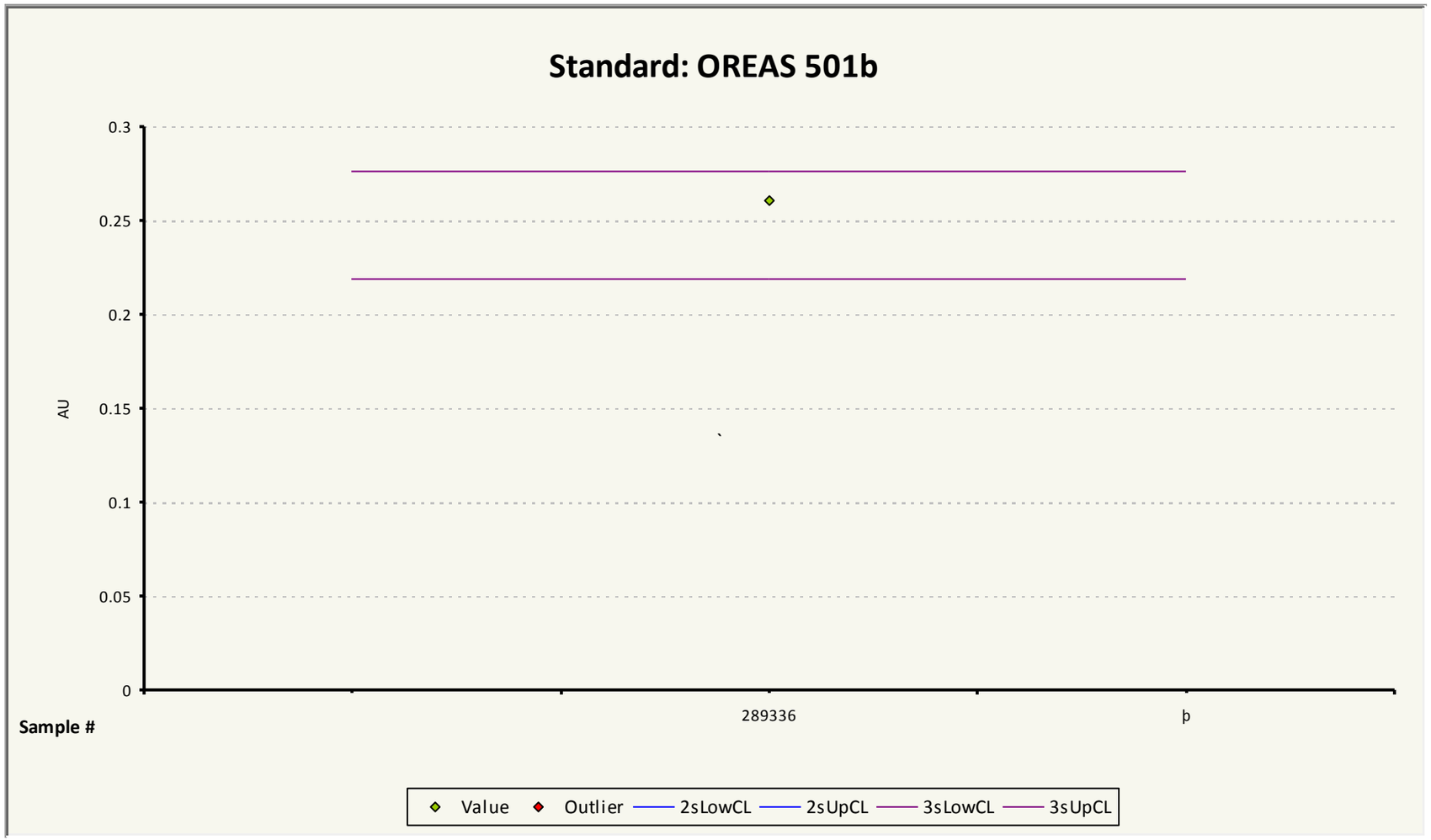
Hole Number **WAT16-02** Project: **TAAC** Project Number: **251**

Sample #	Sample Type	Duplicate of	Standard name	Laboratory	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)	FA4 Au (ppm)	FA5 Au (ppm)	SFA Au (ppm)	SFA2 Au (ppm)	SFA3 Au (ppm)	GA Au (ppm)	GA2 Au (ppm)	GA3 Au (ppm)	GA4 Au (ppm)	GA5 Au (ppm)	AR Au (ppm)	AR2 Au (ppm)	AR3 Au (ppm)	Wt (kg)
289312	STANDARD			ActLabs	5	-	5.00	-	-	-	-	-	-	-	9.19	9.19	-	-	-	-	-	-	-
289324	BLKDIA			ActLabs	0	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
289336	STANDARD		OREAS 501	ActLabs	0	-	0.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
289348	BLKDIA			ActLabs	0	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
289360	STANDARD		OREAS 504	ActLabs	1	-	1.45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
289372	BLKDIA			ActLabs	0	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
289384	STANDARD		OREAS 522	ActLabs	1	-	0.57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
289396	BLKDIA			ActLabs	0	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

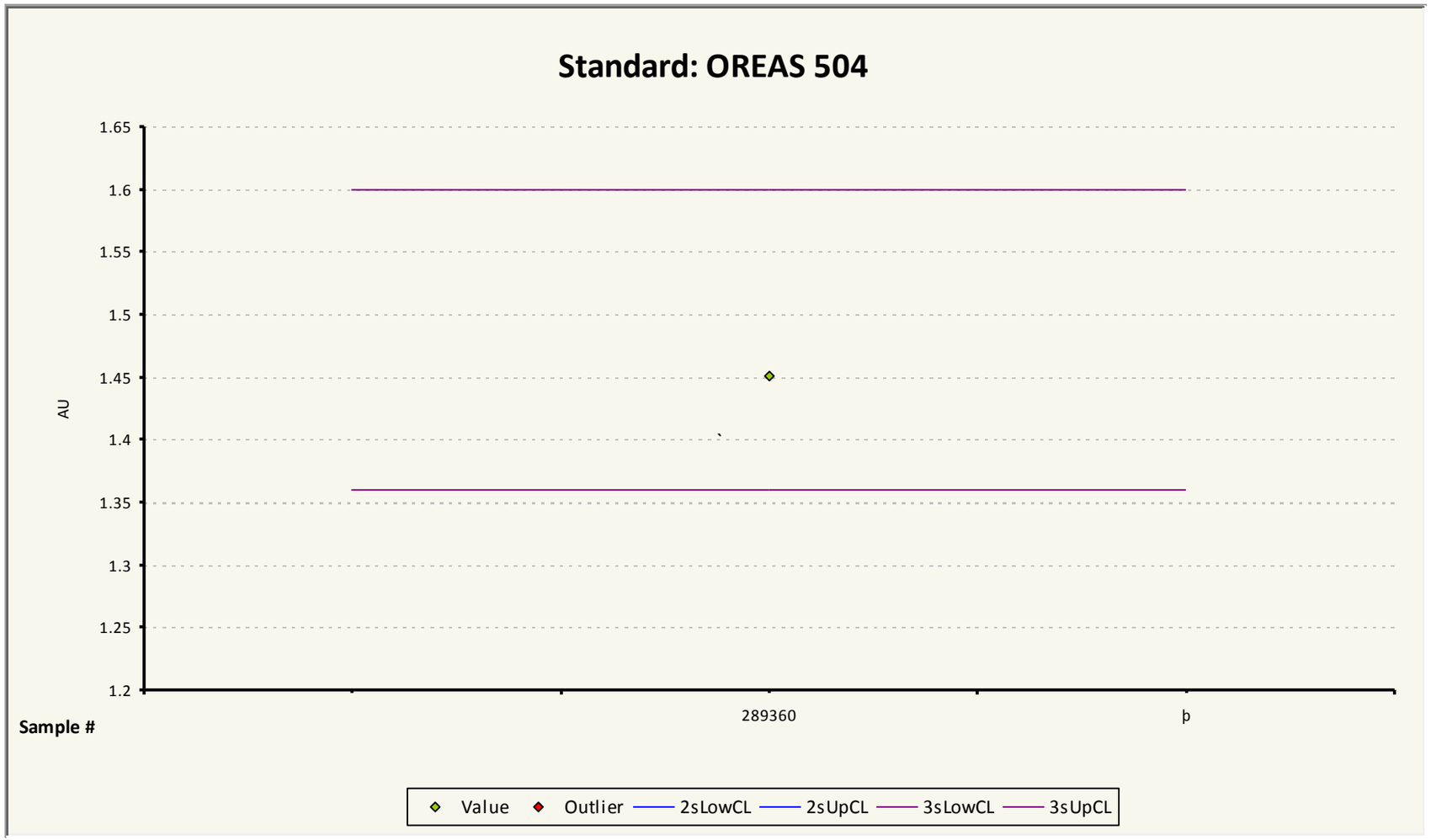
Filter Certificates: *A16-13774-Au* *Filter QC Sample Type:* *OREAS 501b* *Filter QC Sample Type:* *AU*



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

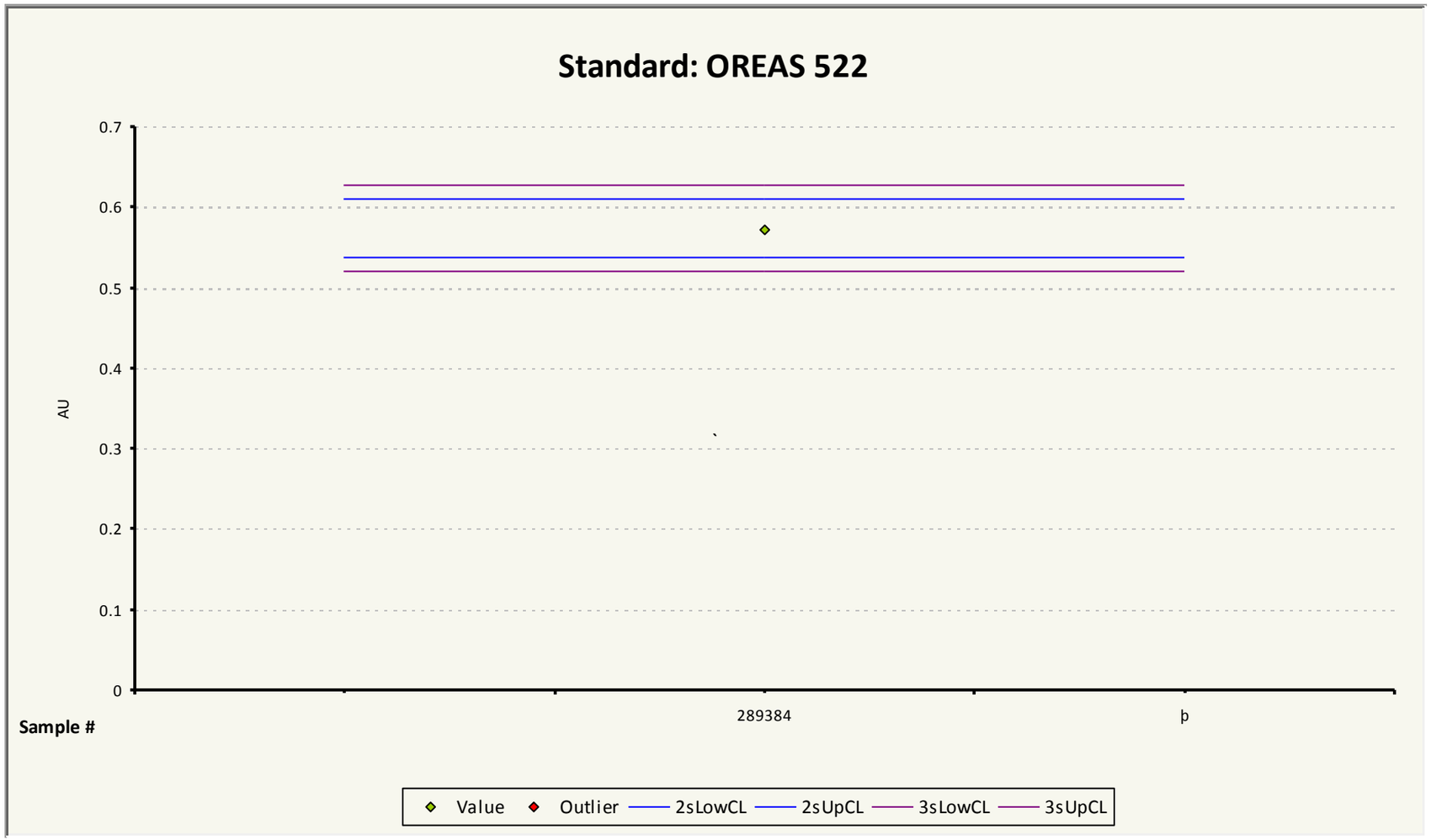
Filter Certificates: *A16-13774-Au* *Filter QC Sample Type:* *OREAS 504* *Filter QC Sample Type:* *AU*



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

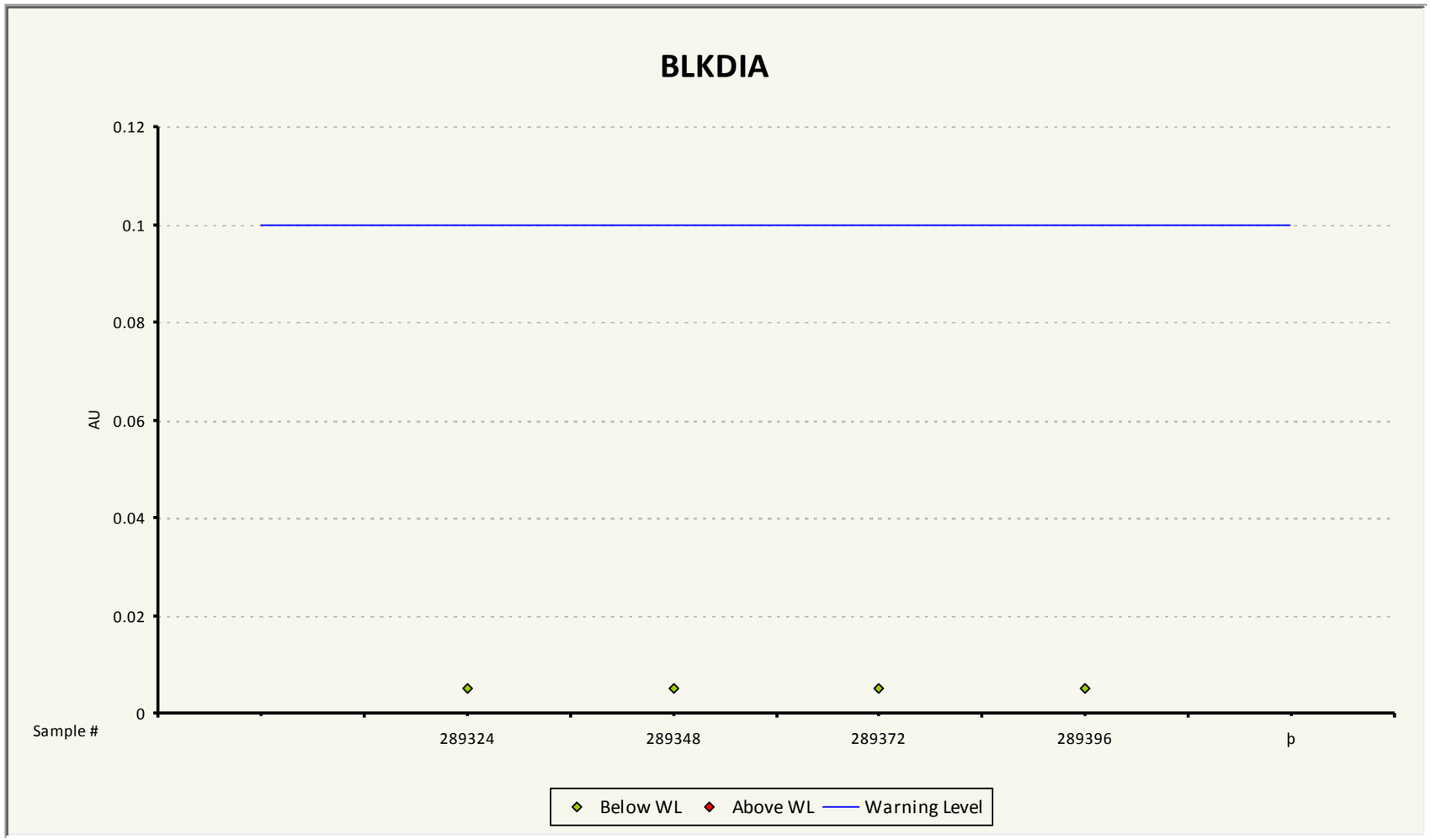
Filter Certificates: *A16-13774-Au* *Filter QC Sample Type:* *OREAS 522* *Filter QC Sample Type:* *AU*



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

Filter Certificates: ***A16-13774-Au*** ***Filter QC Sample Type:*** ***BLKDIA*** ***Filter QC Sample Type:*** ***AU***



WAT16-03 QA/QC

QUALITY CONTROL REPORT

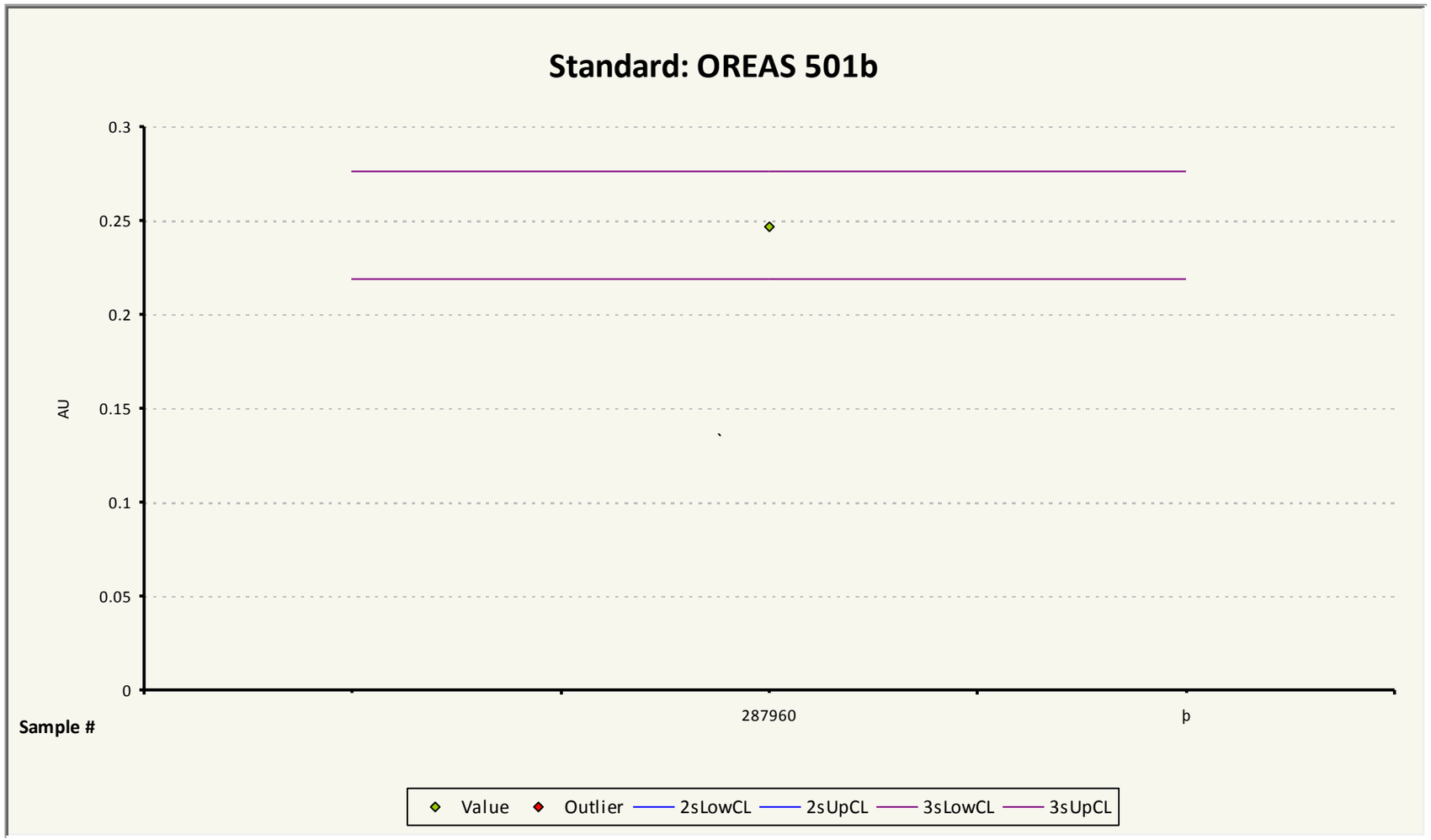
Hole Number: **WAT16-03** Project: **TAAC** Project Number: **251**

Sample #	Sample Type	Duplicate of	Standard name	Laboratory	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)	FA4 Au (ppm)	FA5 Au (ppm)	SFA Au (ppm)	SFA2 Au (ppm)	SFA3 Au (ppm)	GA Au (ppm)	GA2 Au (ppm)	GA3 Au (ppm)	GA4 Au (ppm)	GA5 Au (ppm)	AR Au (ppm)	AR2 Au (ppm)	AR3 Au (ppm)	Wt (kg)
287912	STANDARD		OREAS 522	ActLabs	1	-	0.59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
287924	BLKDIA			ActLabs	0	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
287936	STANDARD		OREAS 62c	ActLabs	5	-	5.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
287948	BLKDIA			ActLabs	0	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
287960	STANDARD		OREAS 501	ActLabs	0	-	0.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
287972	BLKDIA			ActLabs	0	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
287984	STANDARD		OREAS 504	ActLabs	2	-	1.53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
287996	BLKDIA			ActLabs	0	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
287512	STANDARD		OREAS 522	ActLabs	1	-	0.56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

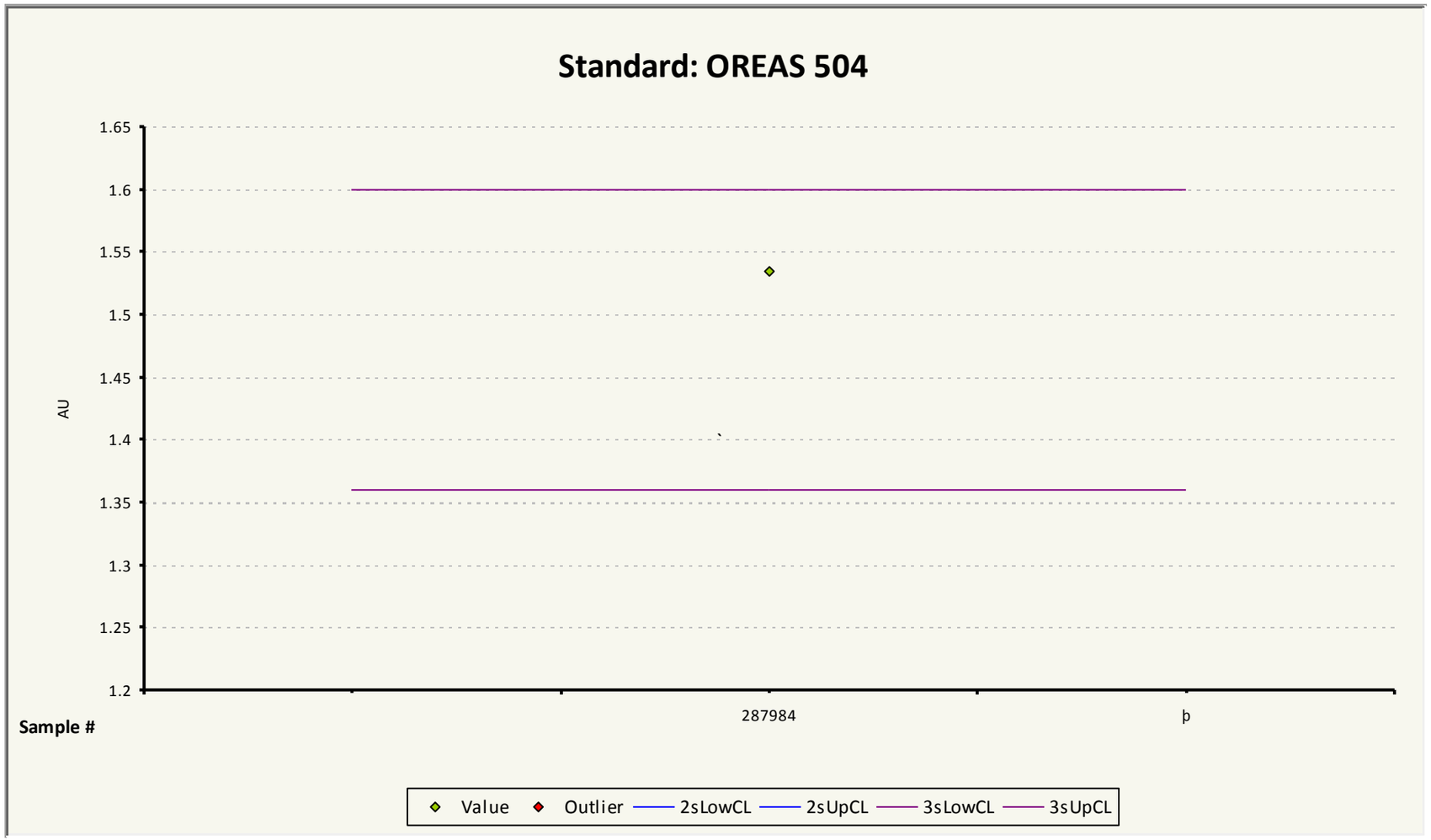
Filter Certificates: *A16-13776-Au* *Filter QC Sample Type:* *OREAS 501b* *Filter QC Sample Type:* *AU*



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

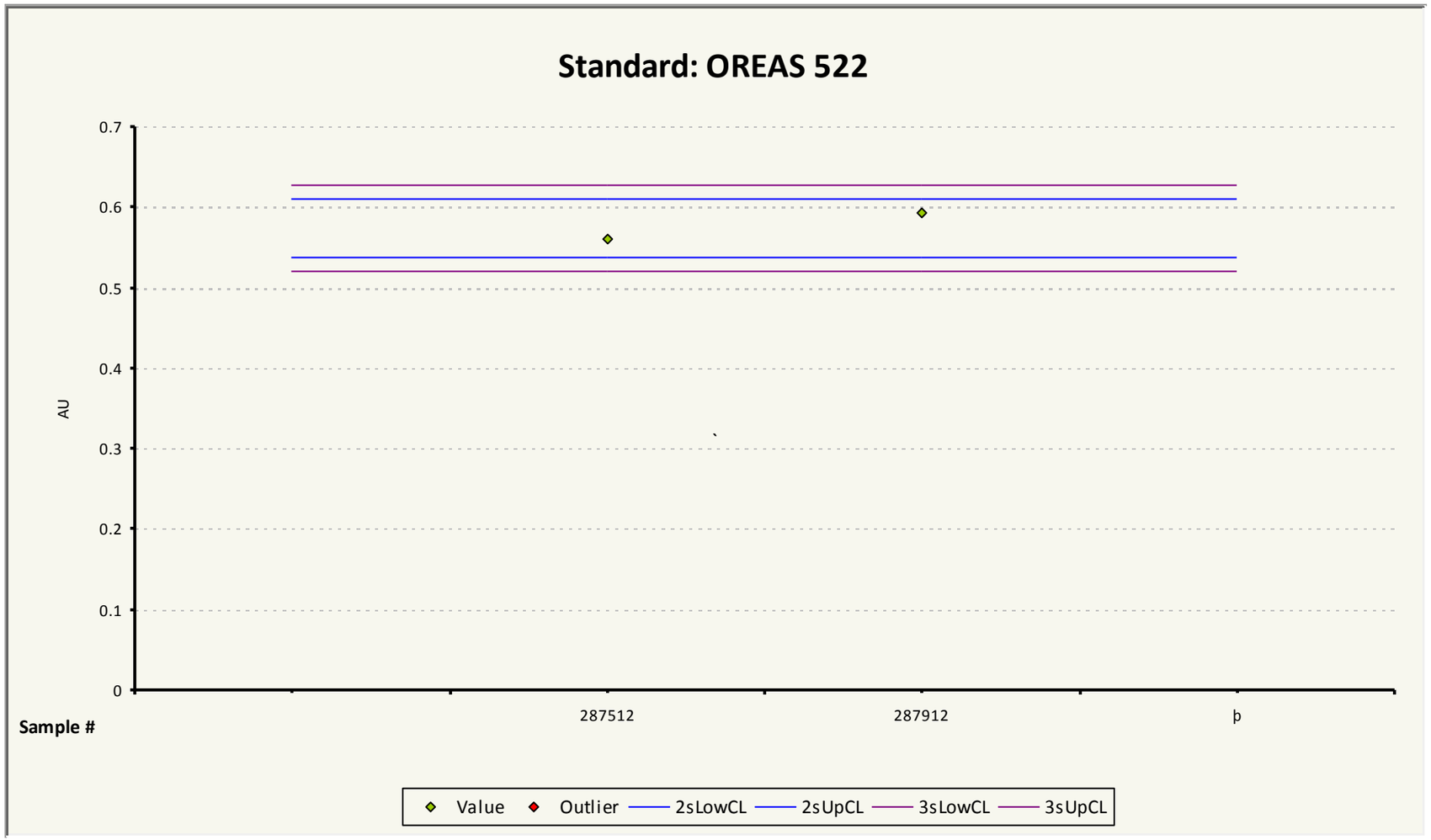
Filter Certificates: *A16-13776-Au* *Filter QC Sample Type:* *OREAS 504* *Filter QC Sample Type:* *AU*



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

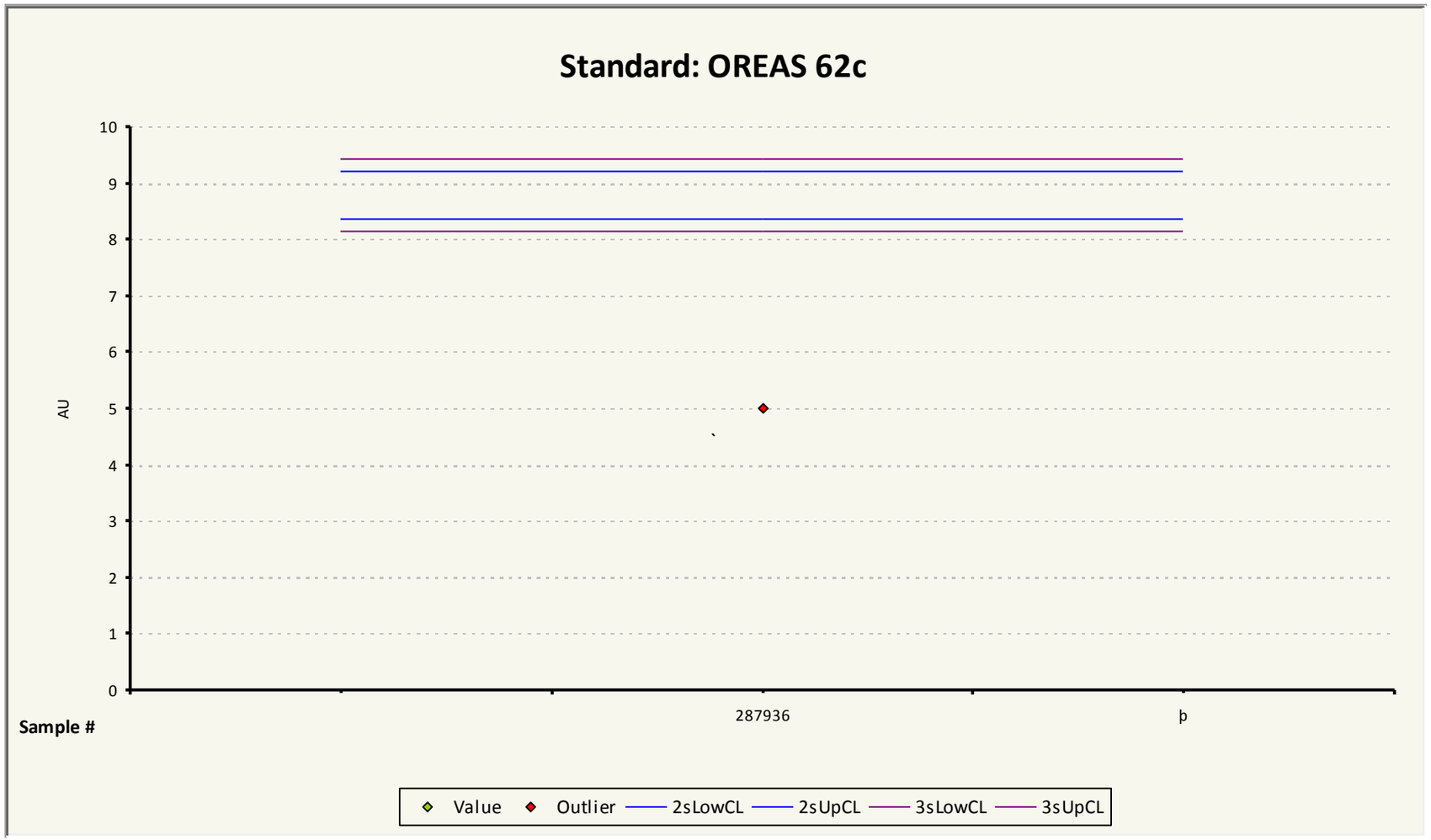
Filter Certificates: *A16-13776-Au* ***Filter QC Sample Type:*** *OREAS 522* ***Filter QC Sample Type:*** *AU*



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

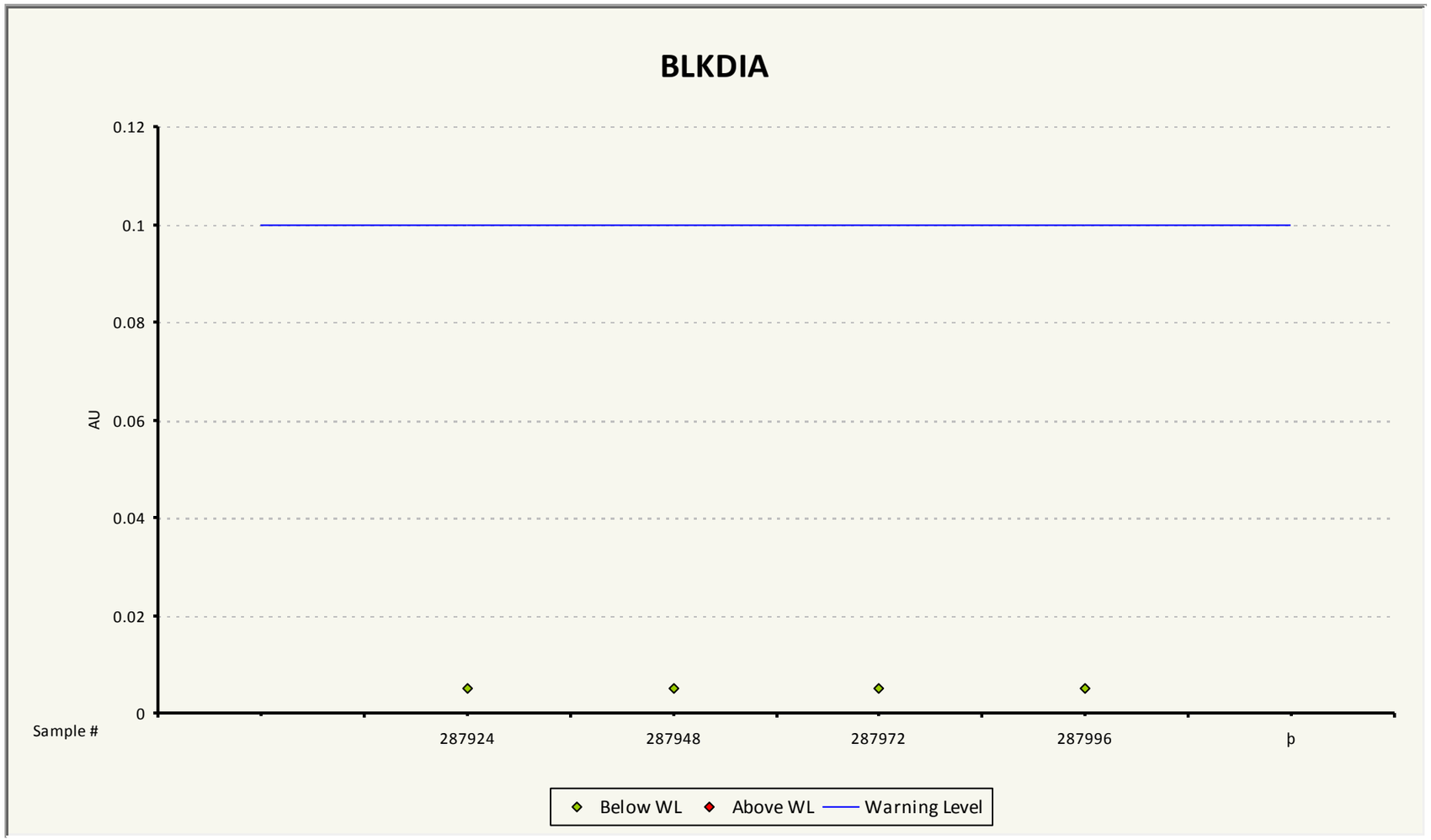
Filter Certificates: A16-13776-Au *Filter QC Sample Type: OREAS 62c* *Filter QC Sample Type: AU*



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

Filter Certificates: ***A16-13776-Au*** ***Filter QC Sample Type:*** ***BLKDIA*** ***Filter QC Sample Type:*** ***AU***



WAT16-04 QA/QC

IAMGOLD CORPORATION

QUALITY CONTROL REPORT

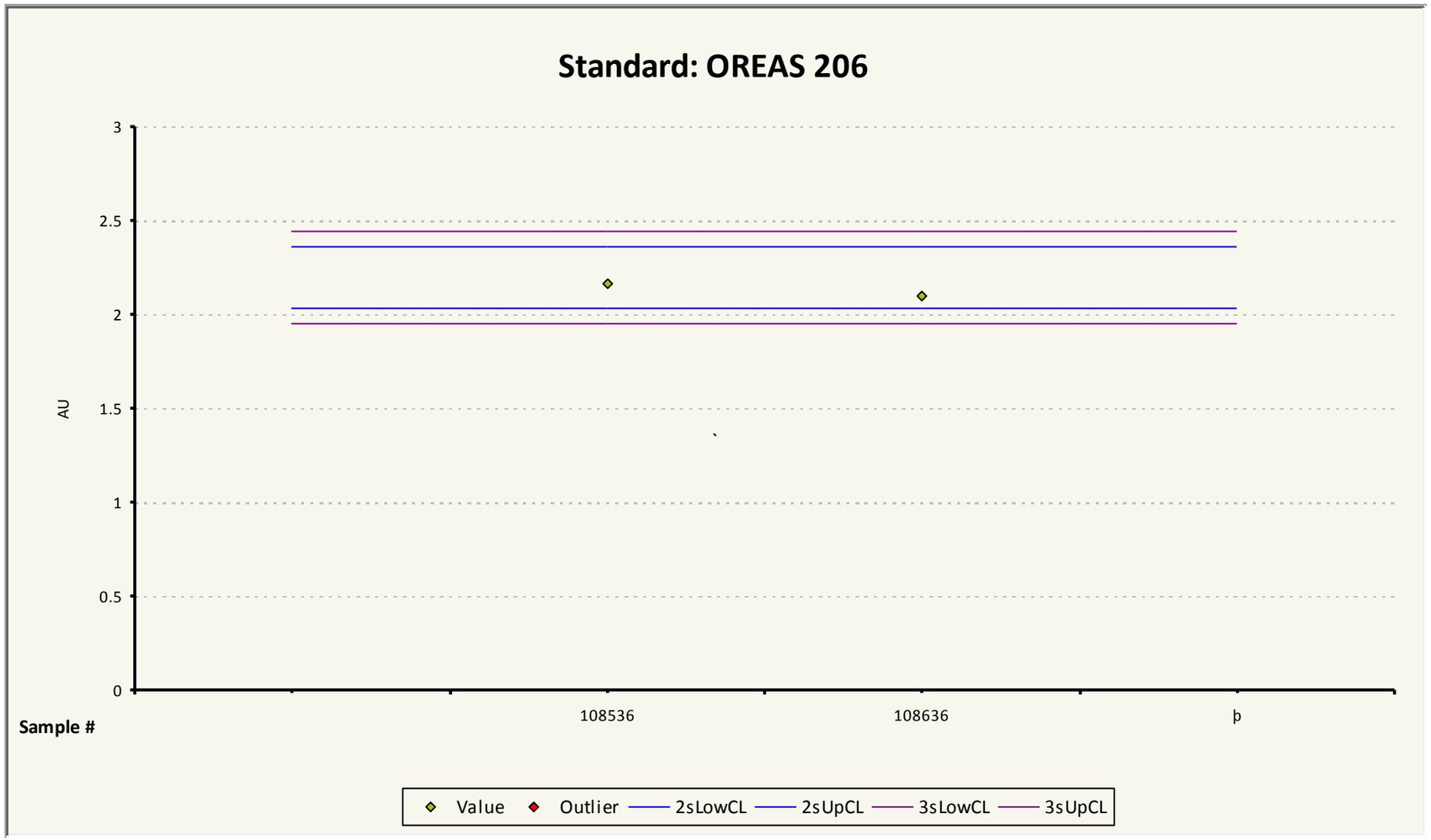
Hole Number **WAT16-04** Project: **TAAC** Project Number: **251**

Sample #	Sample Type	Duplicate of	Standard name	Laboratory	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)	FA4 Au (ppm)	FA5 Au (ppm)	SFA Au (ppm)	SFA2 Au (ppm)	SFA3 Au (ppm)	GA Au (ppm)	GA2 Au (ppm)	GA3 Au (ppm)	GA4 Au (ppm)	GA5 Au (ppm)	AR Au (ppm)	AR2 Au (ppm)	AR3 Au (ppm)	Wt (kg)
289896	BLKDIA			ActLabs	0	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
108512	STANDARD		OREAS 522	ActLabs	1	-	0.55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
108524	BLKDIA			ActLabs	0	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
108536	STANDARD		OREAS 206	ActLabs	2	-	2.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
108548	BLKDIA			ActLabs	0	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
108560	STANDARD		OREAS 501	ActLabs	0	-	0.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
108572	BLKDIA			ActLabs	0	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
108584	STANDARD		OREAS 504	ActLabs	2	-	1.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
108596	BLKDIA			ActLabs	0	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
108612	STANDARD		OREAS 522	ActLabs	0	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
108624	BLKDIA			ActLabs	0	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
108636	STANDARD		OREAS 206	ActLabs	2	-	2.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
108648	BLKDIA			ActLabs	0	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
108660	STANDARD		OREAS 501	ActLabs	0	-	0.23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

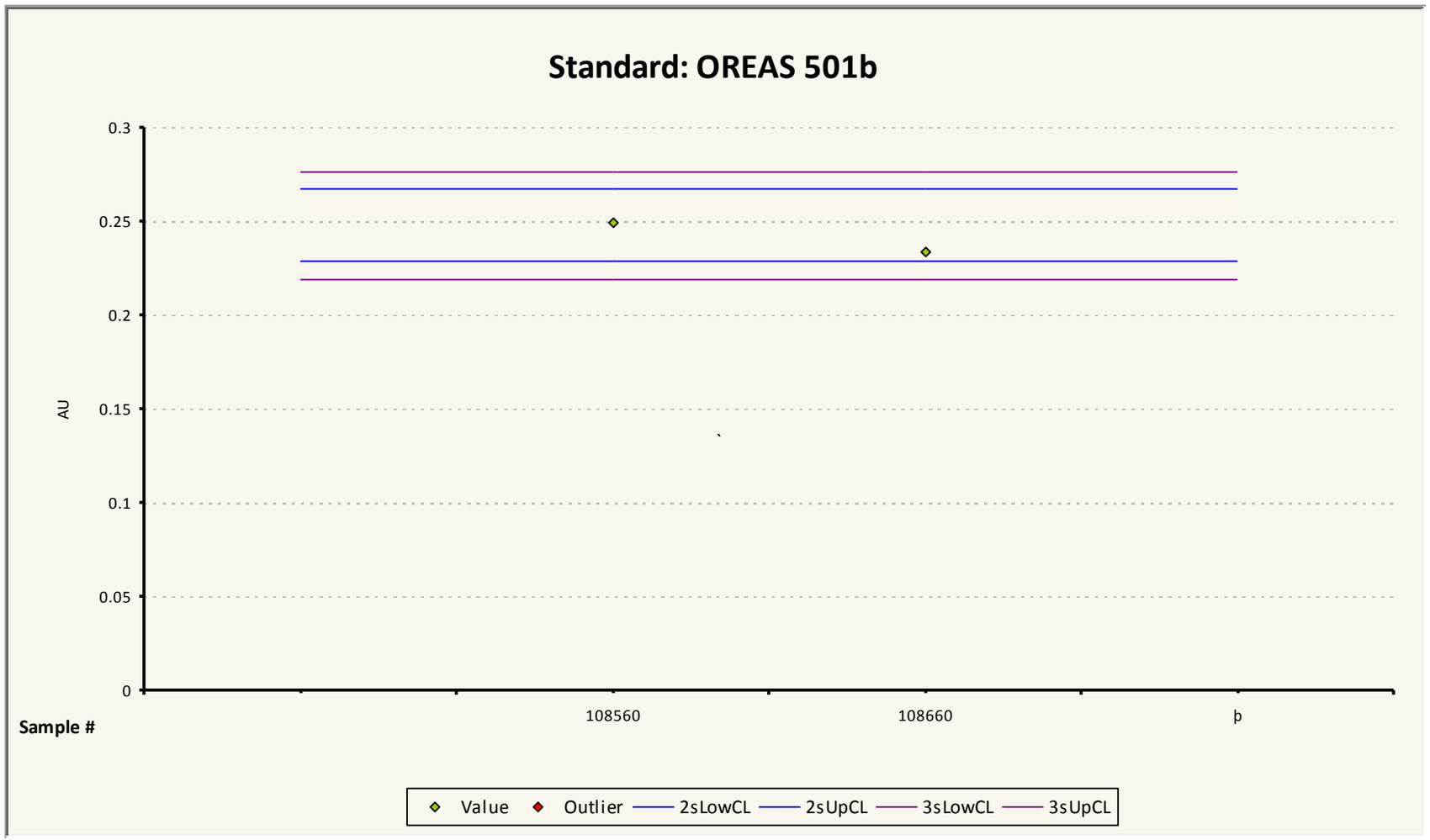
Filter Certificates: *A17-00275-Au* *Filter QC Sample Type:* *OREAS 206* *Filter QC Sample Type:* *AU*



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

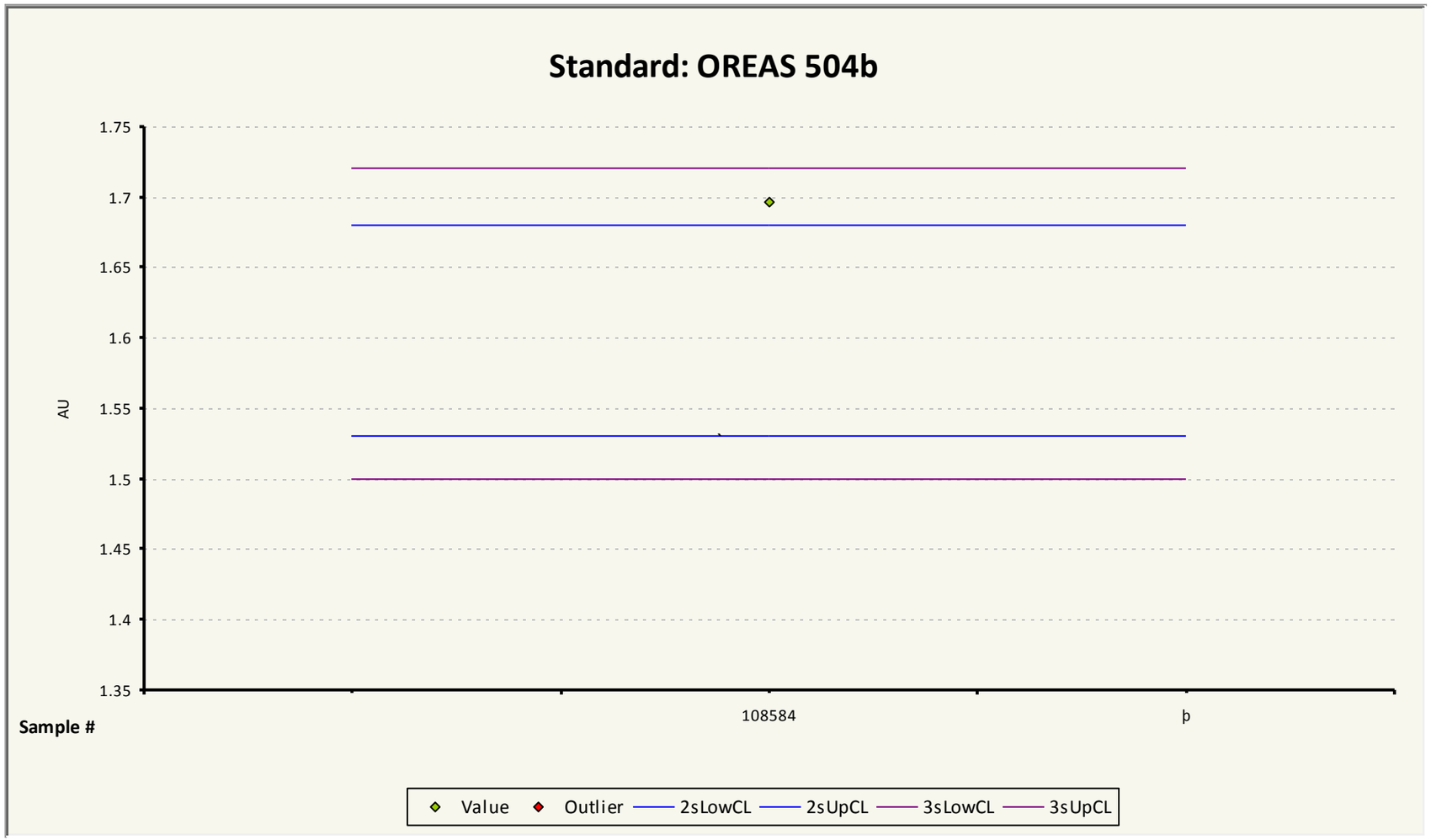
Filter Certificates: *A17-00275-Au* ***Filter QC Sample Type:*** *OREAS 501b* ***Filter QC Sample Type:*** *AU*



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

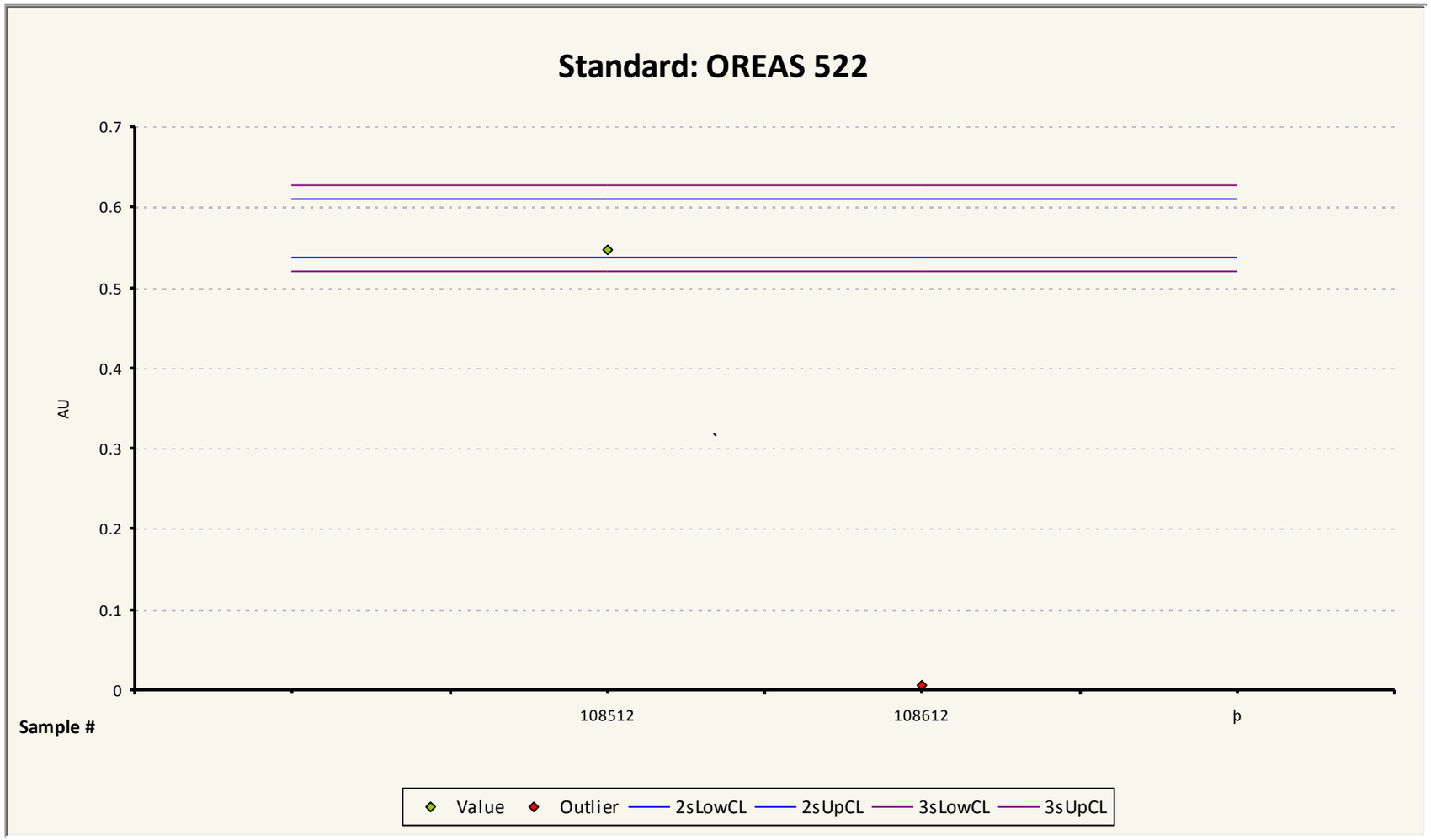
Filter Certificates: *A17-00275-Au* *Filter QC Sample Type:* *OREAS 504b* *Filter QC Sample Type:* *AU*



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

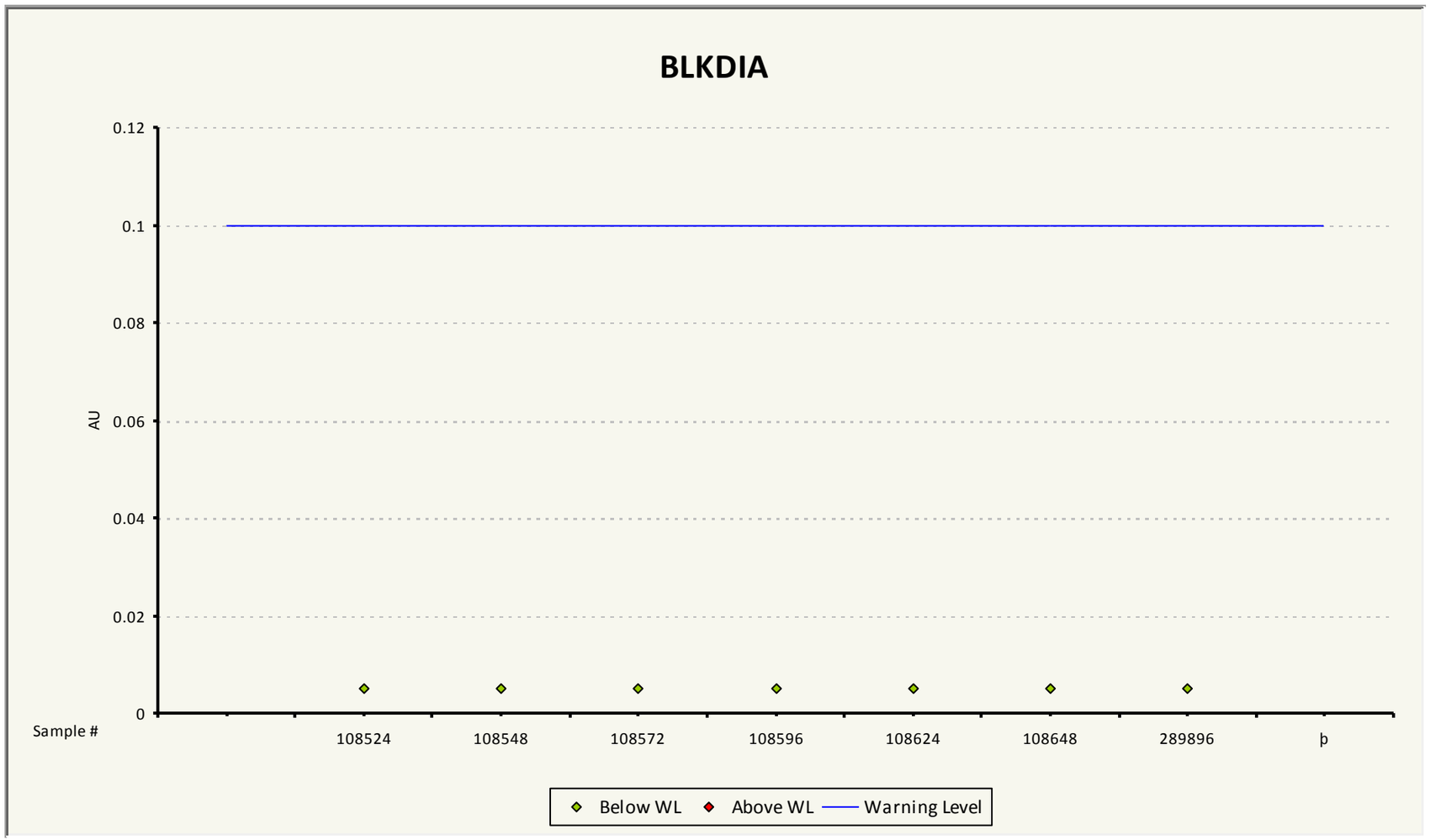
Filter Certificates: *A17-00275-Au* *Filter QC Sample Type:* *OREAS 522* *Filter QC Sample Type:* *AU*



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

Filter Certificates: *A17-00275-Au* ***Filter QC Sample Type:*** *BLKDIA* ***Filter QC Sample Type:*** *AU*



WAT17-05 QA/QC

QUALITY CONTROL REPORT

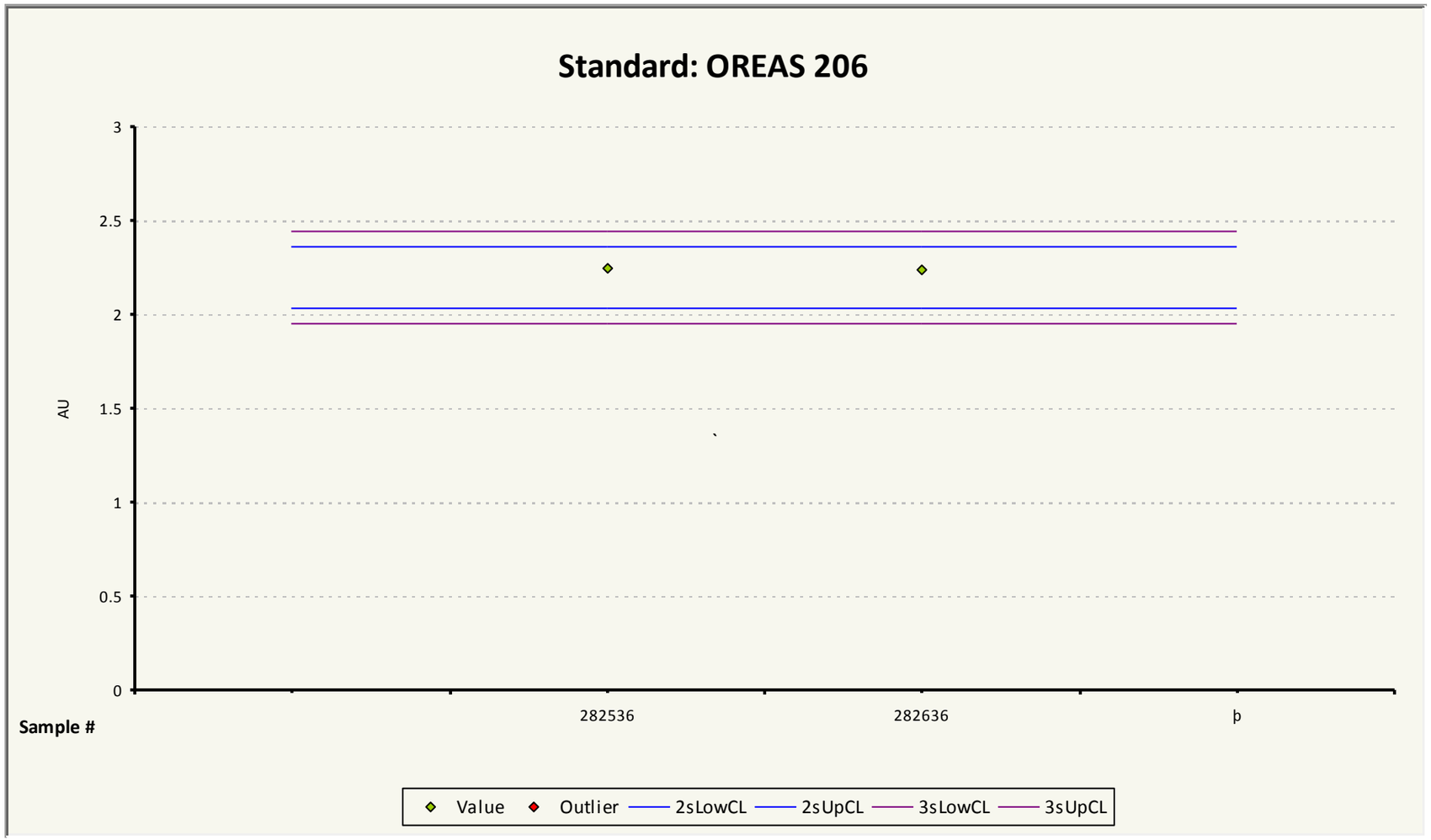
Hole Number **WAT17-05** Project: **TAAC** Project Number: **259**

Sample #	Sample Type	Duplicate of	Standard name	Laboratory	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)	FA4 Au (ppm)	FA5 Au (ppm)	SFA Au (ppm)	SFA2 Au (ppm)	SFA3 Au (ppm)	GA Au (ppm)	GA2 Au (ppm)	GA3 Au (ppm)	GA4 Au (ppm)	GA5 Au (ppm)	AR Au (ppm)	AR2 Au (ppm)	AR3 Au (ppm)	Wt (kg)
282512	STANDARD		OREAS 62c	ActLabs	-	-	5.00	-	-	-	-	-	-	-	9.06	-	-	-	-	-	-	-	-
282524	BLKDIA			ActLabs	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
282536	STANDARD		OREAS 206	ActLabs	-	-	2.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
282548	BLKDIA			ActLabs	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
282560	STANDARD		OREAS 501	ActLabs	-	-	0.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
282572	BLKDIA			ActLabs	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
282584	STANDARD		OREAS 501	ActLabs	-	-	1.57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
282596	BLKDIA			ActLabs	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
282612	STANDARD		OREAS 62c	ActLabs	-	-	5.00	-	-	-	-	-	-	-	10.30	-	-	-	-	-	-	-	-
282624	BLKDIA			ActLabs	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
282636	STANDARD		OREAS 206	ActLabs	-	-	2.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
282648	BLKDIA			ActLabs	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
282660	STANDARD		OREAS 501	ActLabs	-	-	0.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
282672	BLKDIA			ActLabs	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
282684	STANDARD		OREAS 504	ActLabs	-	-	1.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
282696	BLKDIA			ActLabs	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

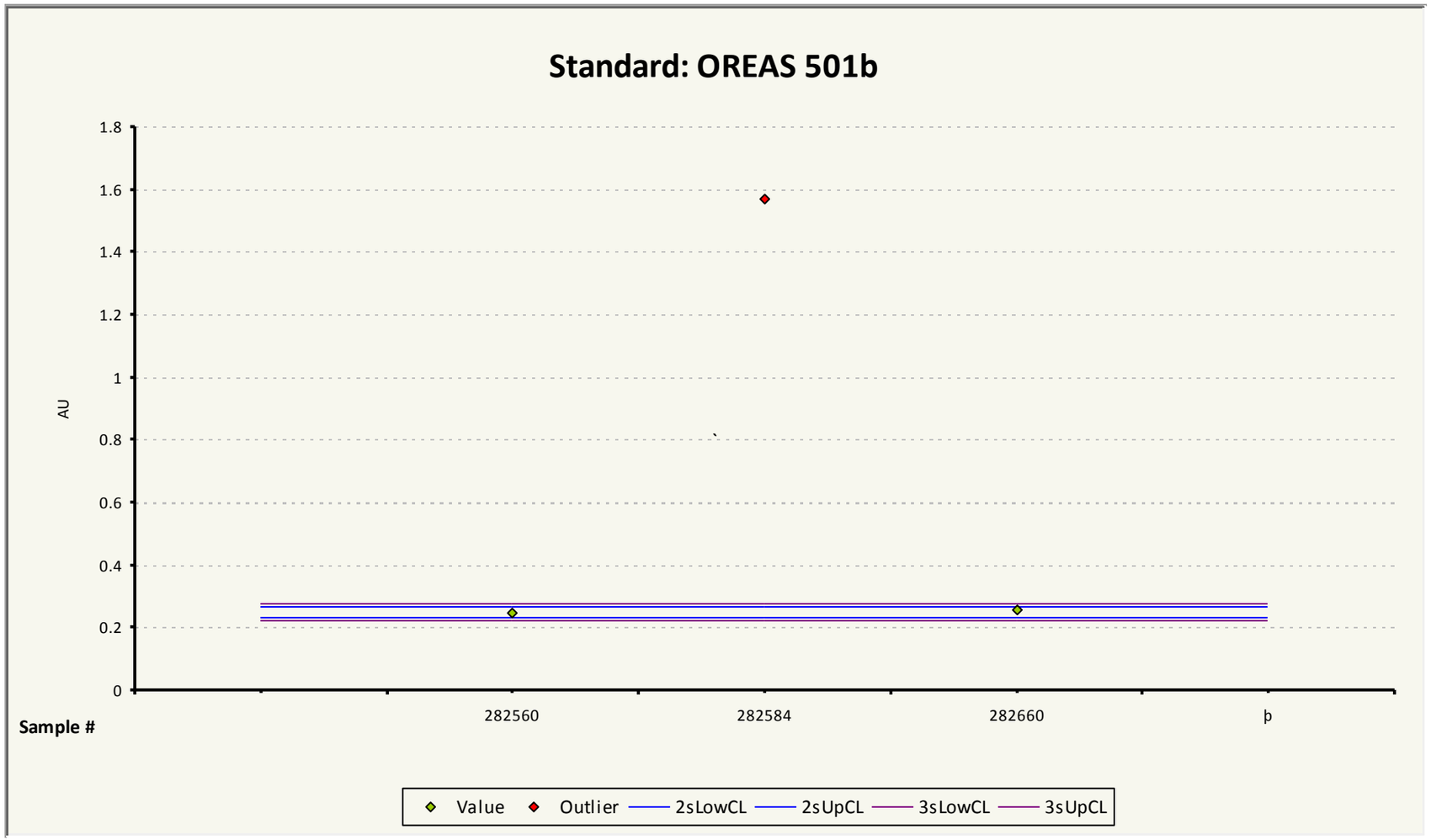
Filter Certificates: A17-04541-Au *Filter QC Sample Type: OREAS 206* *Filter QC Sample Type: AU*



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

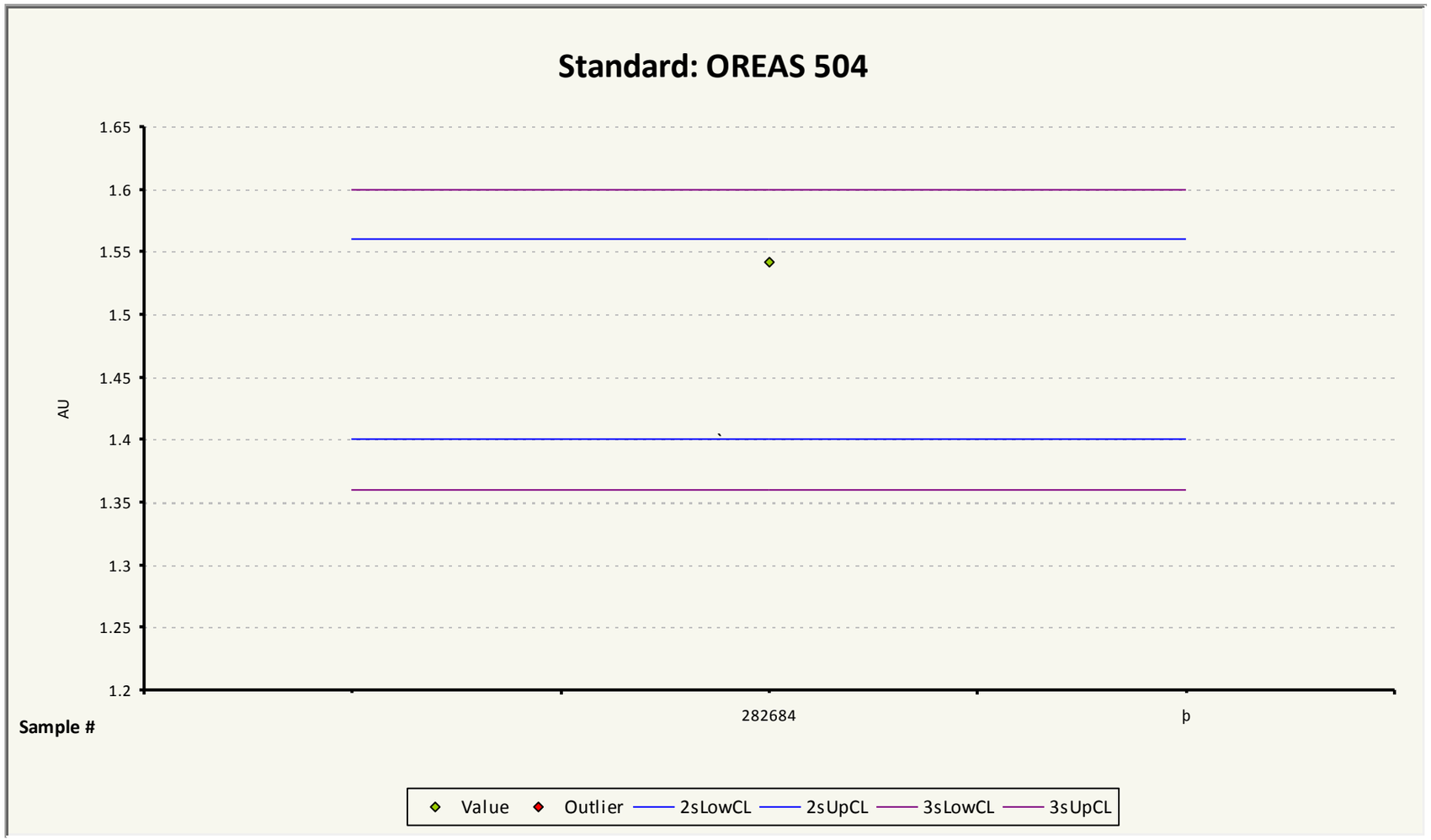
Filter Certificates: *A17-04541-Au* ***Filter QC Sample Type:*** *OREAS 501b* ***Filter QC Sample Type:*** *AU*



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

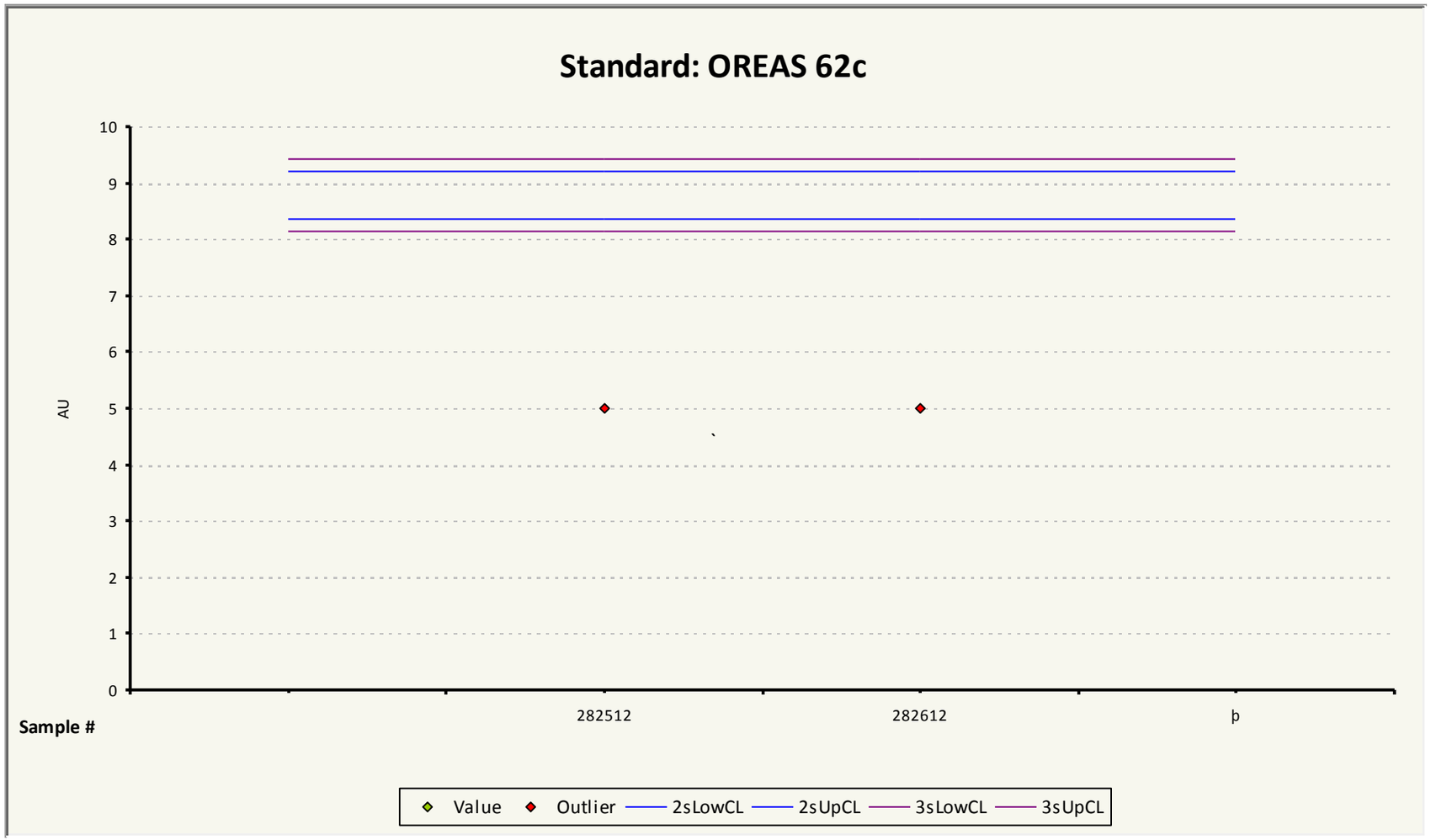
Filter Certificates: *A17-04541-Au* *Filter QC Sample Type:* *OREAS 504* *Filter QC Sample Type:* *AU*



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

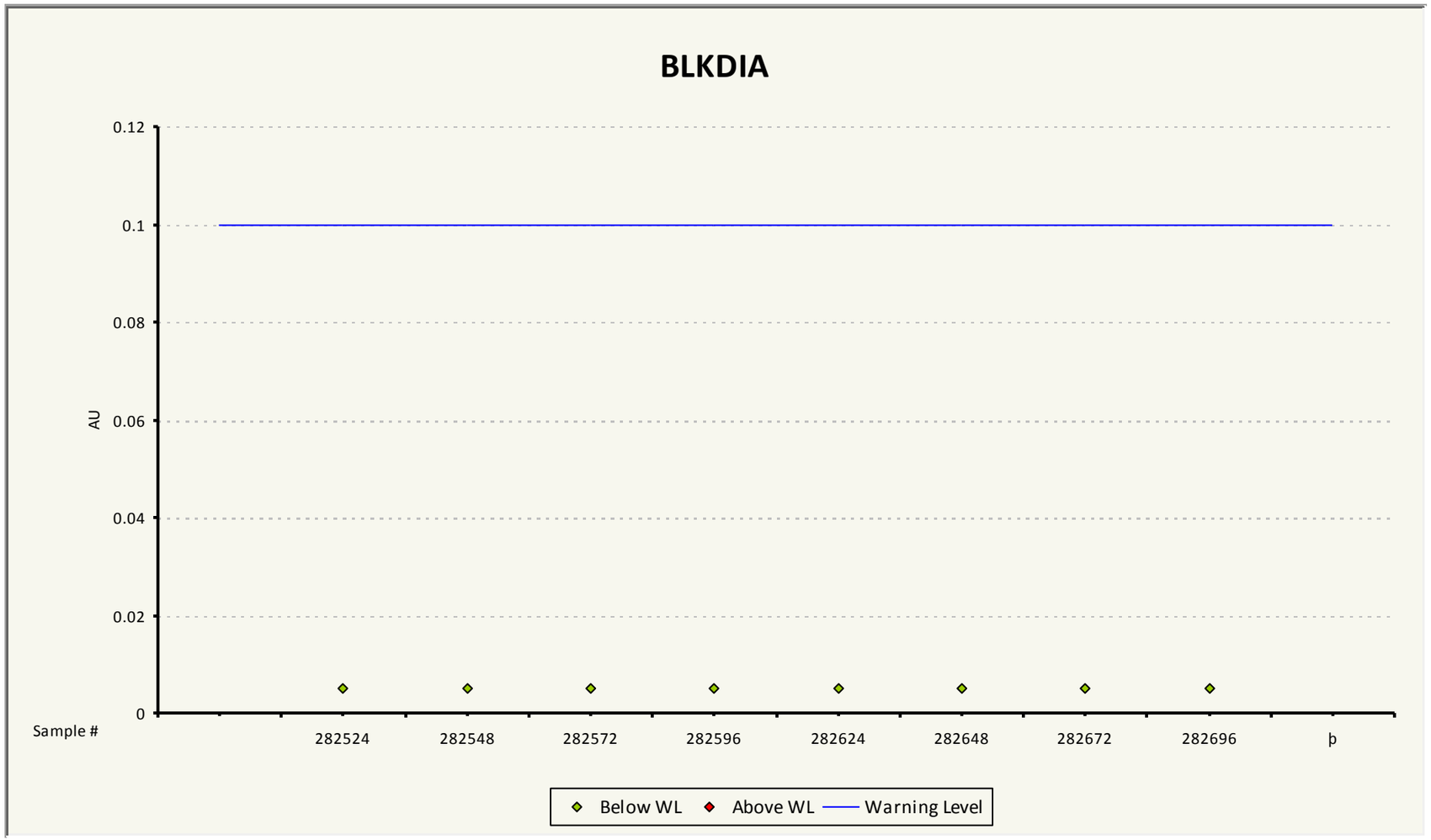
Filter Certificates: *A17-04541-Au* *Filter QC Sample Type:* *OREAS 62c* *Filter QC Sample Type:* *AU*



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

Filter Certificates: ***A17-04541-Au*** ***Filter QC Sample Type:*** ***BLKDIA*** ***Filter QC Sample Type:*** ***AU***



WAT17-06 QA/QC

QUALITY CONTROL REPORT

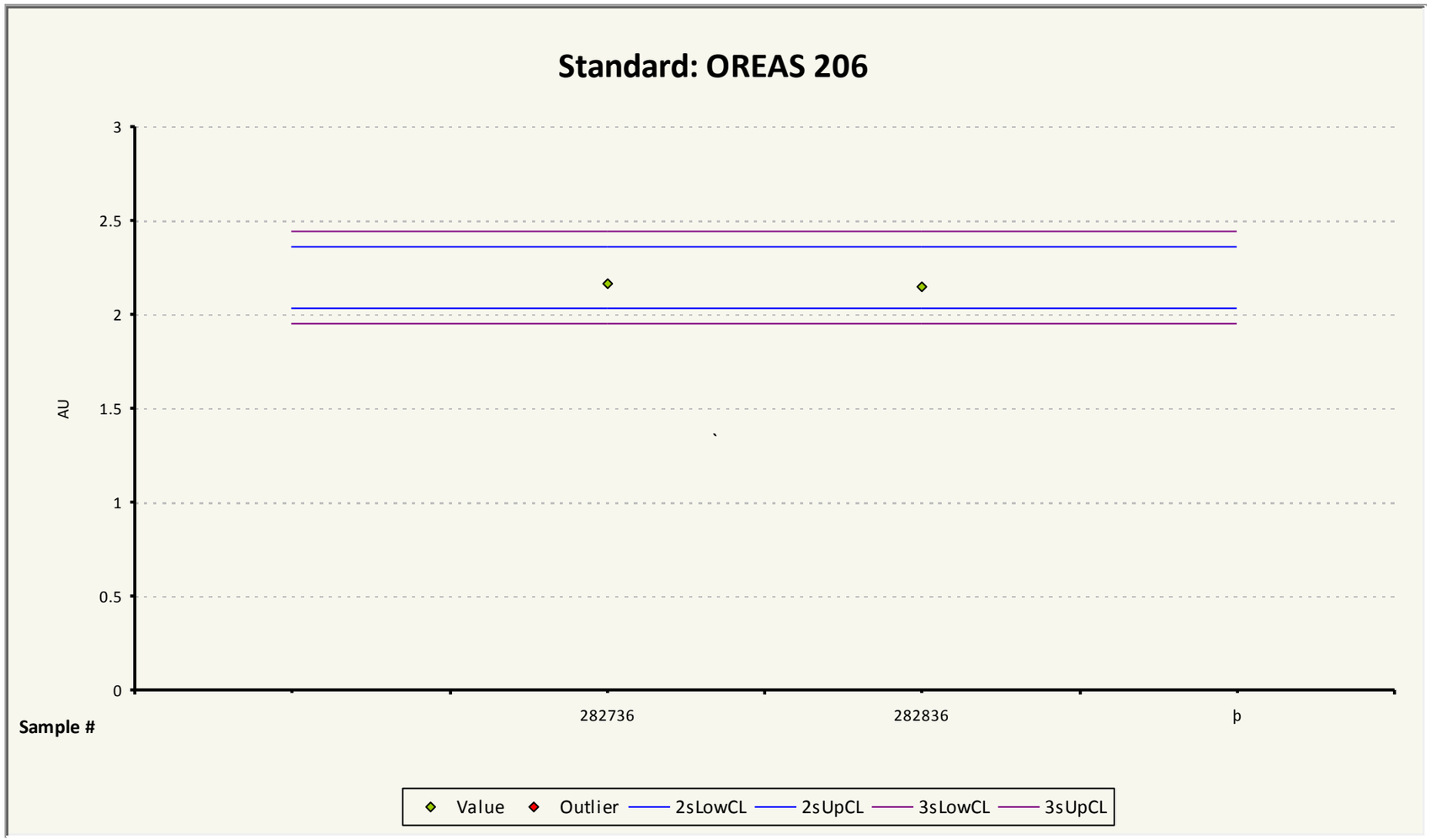
Hole Number **WAT17-06** Project: **TAAC** Project Number: **251**

Sample #	Sample Type	Duplicate of	Standard name	Laboratory	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)	FA4 Au (ppm)	FA5 Au (ppm)	SFA Au (ppm)	SFA2 Au (ppm)	SFA3 Au (ppm)	GA Au (ppm)	GA2 Au (ppm)	GA3 Au (ppm)	GA4 Au (ppm)	GA5 Au (ppm)	AR Au (ppm)	AR2 Au (ppm)	AR3 Au (ppm)	Wt (kg)
282712	STANDARD		OREAS 62c	ActLabs	5	-	5.00	-	-	-	-	-	-	-	8.81	-	-	-	-	-	-	-	-
282724	BLKDIA			ActLabs	<0	-	<0.01	-	-	-	-	-	-	-	<0.01	-	-	-	-	-	-	-	-
282736	STANDARD		OREAS 206	ActLabs	2	-	2.16	-	-	-	-	-	-	-	2.16	-	-	-	-	-	-	-	-
282748	BLKDIA			ActLabs	<0	-	<0.01	-	-	-	-	-	-	-	<0.01	-	-	-	-	-	-	-	-
282760	STANDARD		OREAS 501	ActLabs	0	-	0.25	-	-	-	-	-	-	-	0.25	-	-	-	-	-	-	-	-
282772	BLKDIA			ActLabs	<0	-	<0.01	-	-	-	-	-	-	-	<0.01	-	-	-	-	-	-	-	-
282784	STANDARD		OREAS 504	ActLabs	2	-	1.60	-	-	-	-	-	-	-	1.60	-	-	-	-	-	-	-	-
282796	BLKDIA			ActLabs	<0	-	<0.01	-	-	-	-	-	-	-	<0.01	-	-	-	-	-	-	-	-
282812	STANDARD		OREAS 62c	ActLabs	5	-	5.00	-	-	-	-	-	-	-	8.60	-	-	-	-	-	-	-	-
282824	BLKDIA			ActLabs	<0	-	<0.01	-	-	-	-	-	-	-	<0.01	-	-	-	-	-	-	-	-
282836	STANDARD		OREAS 206	ActLabs	2	-	2.15	-	-	-	-	-	-	-	2.15	-	-	-	-	-	-	-	-
282848	BLKDIA			ActLabs	<0	-	<0.01	-	-	-	-	-	-	-	<0.01	-	-	-	-	-	-	-	-
282860	STANDARD		OREAS 501	ActLabs	0	-	0.25	-	-	-	-	-	-	-	0.25	-	-	-	-	-	-	-	-
282872	BLKDIA			ActLabs	<0	-	<0.01	-	-	-	-	-	-	-	<0.01	-	-	-	-	-	-	-	-

IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

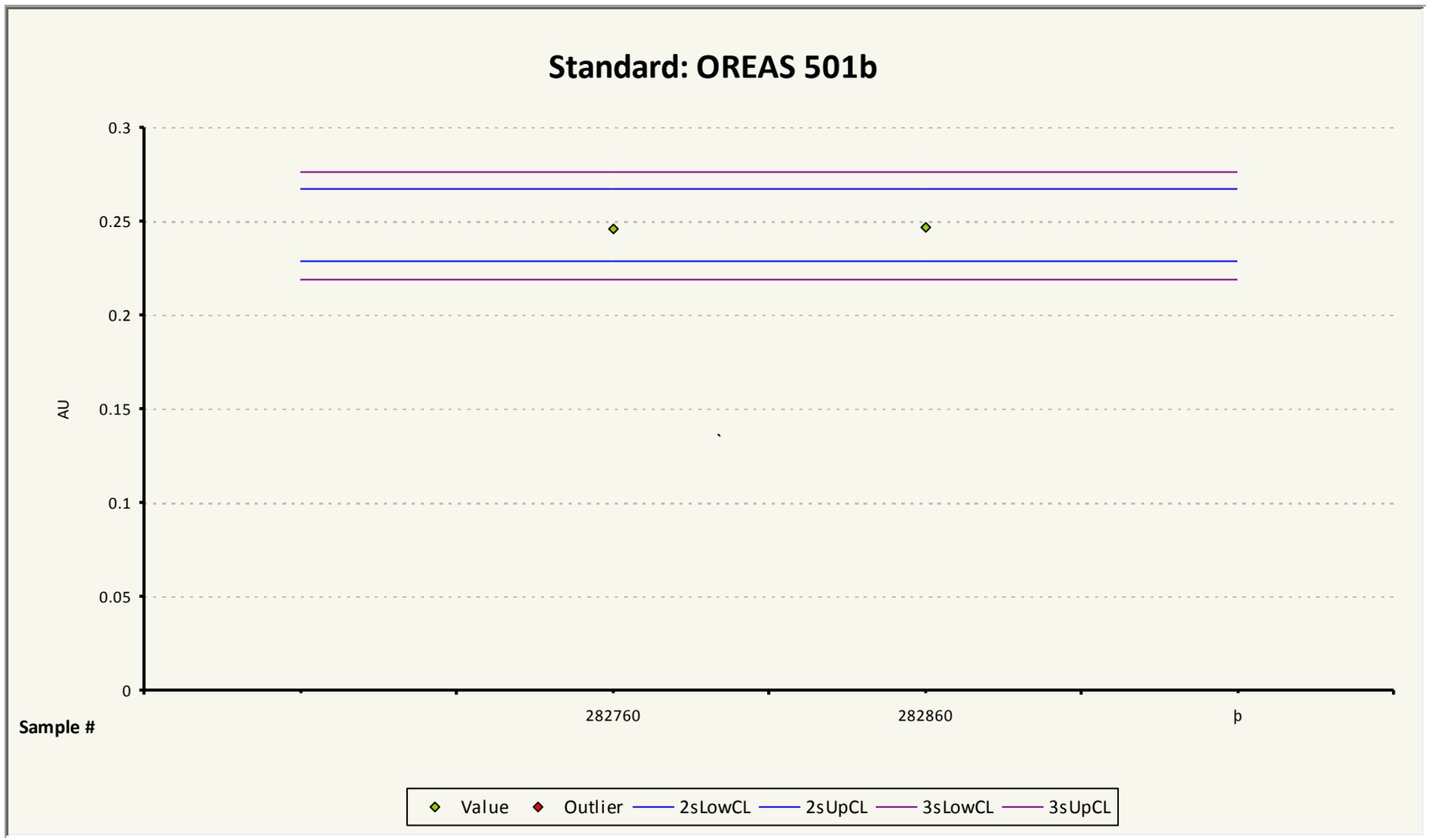
Filter Certificates: A17-04917-Au *Filter QC Sample Type: OREAS 206* *Filter QC Sample Type: AU*



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

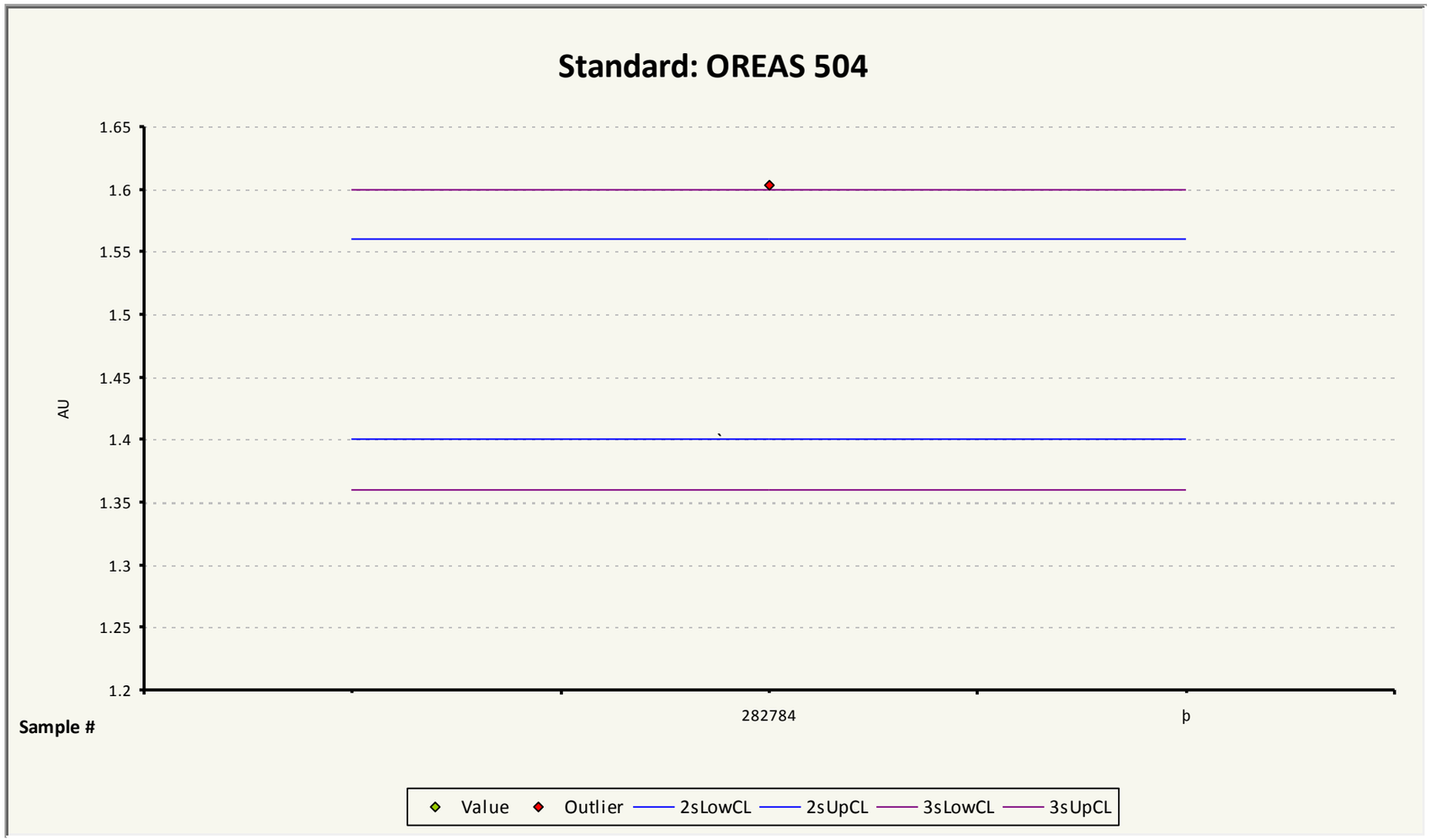
Filter Certificates: *A17-04917-Au* *Filter QC Sample Type:* *OREAS 501b* *Filter QC Sample Type:* *AU*



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

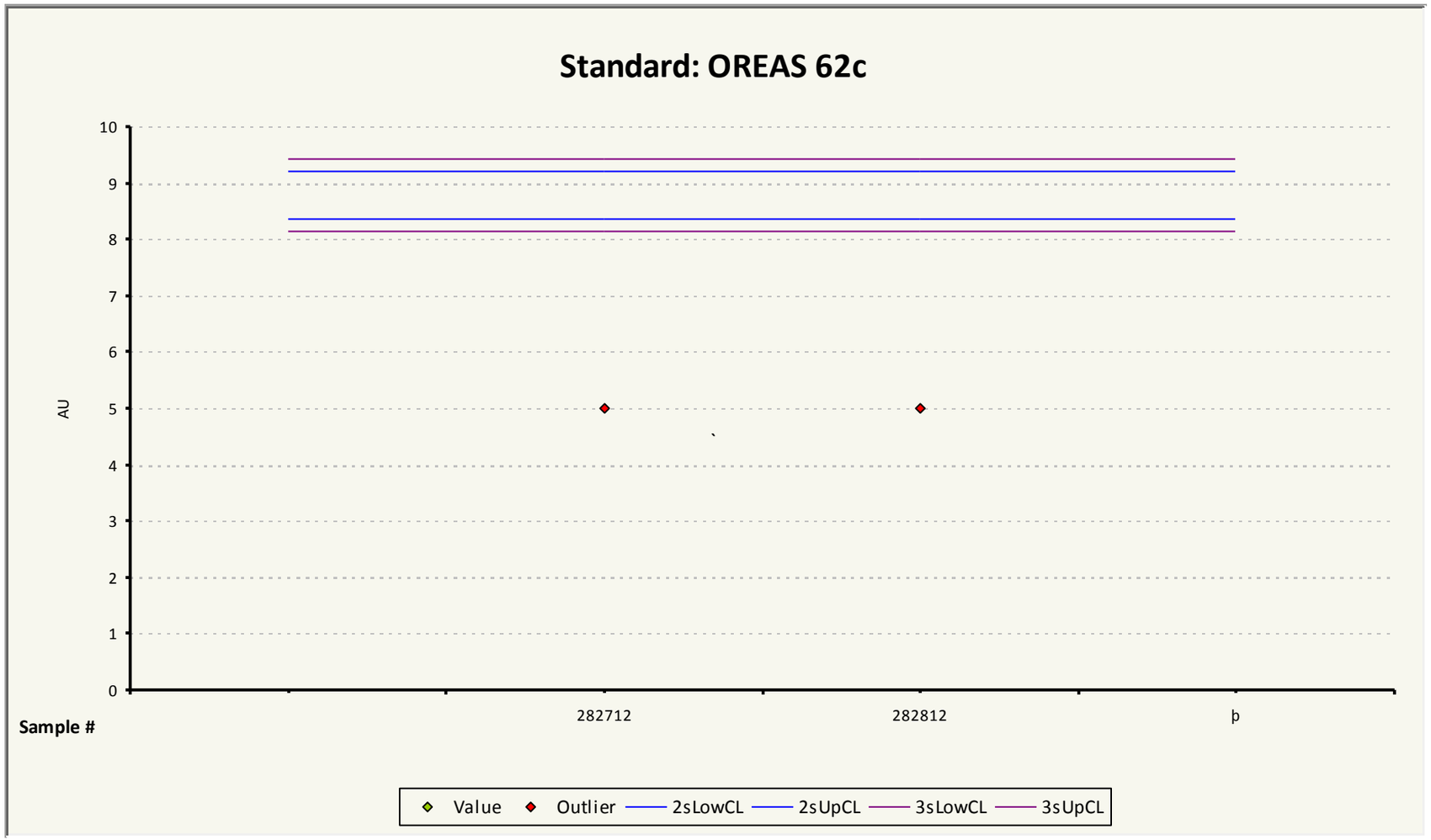
Filter Certificates: *A17-04917-Au* *Filter QC Sample Type:* *OREAS 504* *Filter QC Sample Type:* *AU*



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

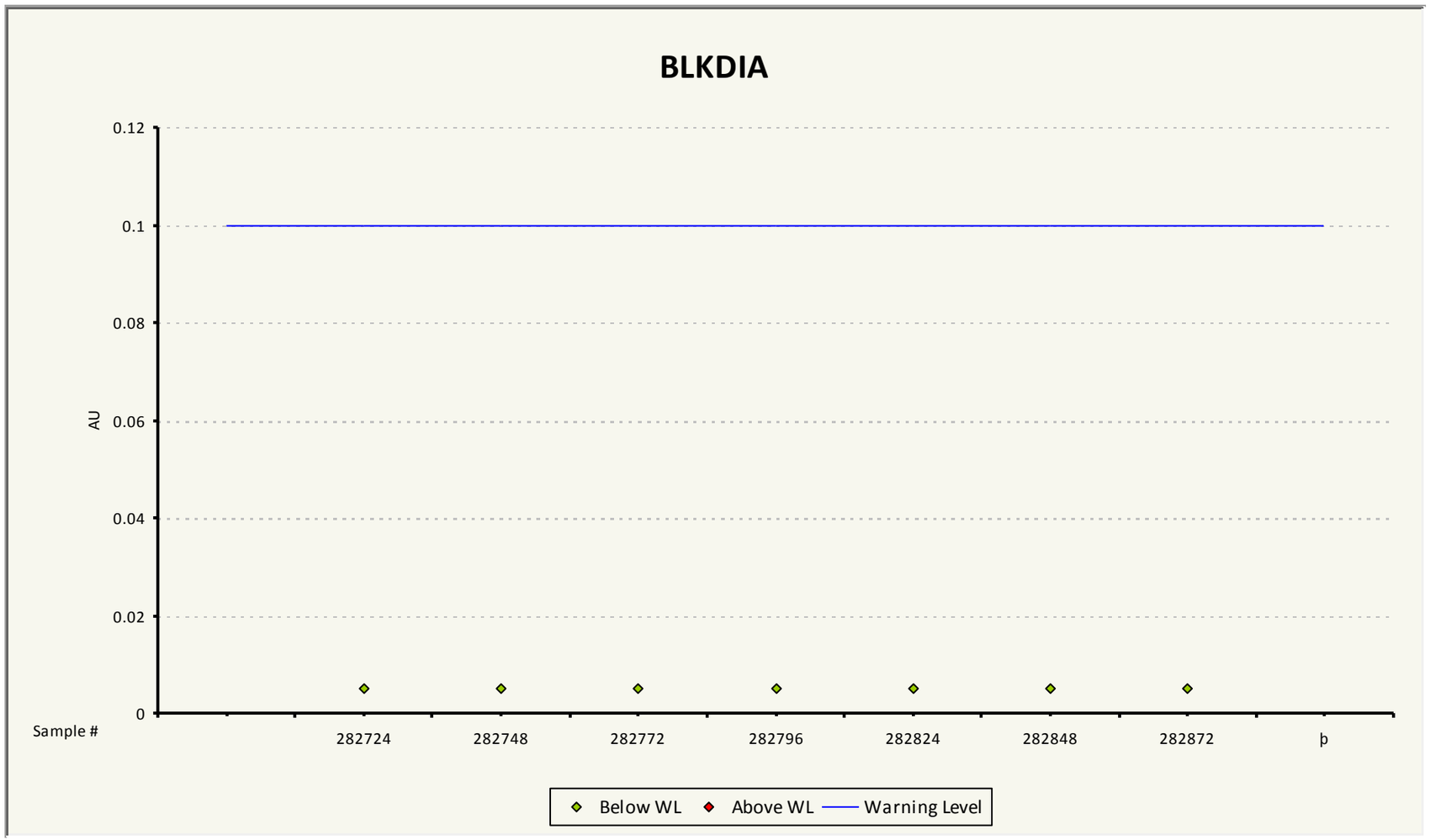
Filter Certificates: *A17-04917-Au (R)* *Filter QC Sample Type:* *OREAS 62c* *Filter QC Sample Type:* *AU*



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

Filter Certificates: ***A17-04917-Au*** ***Filter QC Sample Type:*** ***BLKDIA*** ***Filter QC Sample Type:*** ***AU***



WAT17-07 QA/QC

IAMGOLD CORPORATION

QUALITY CONTROL REPORT

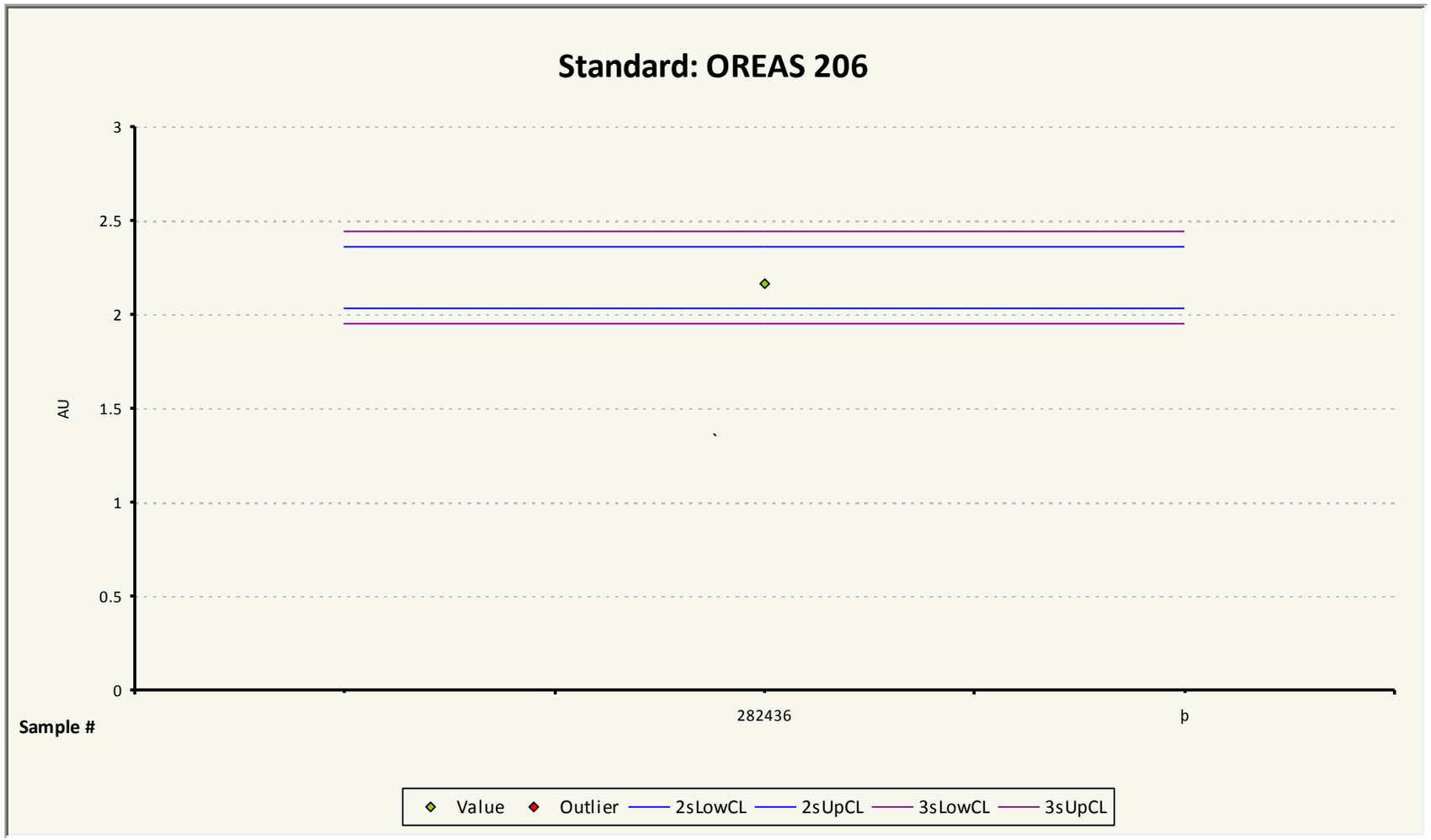
Hole Number **WAT17-07** Project: **TAAC** Project Number: **259**

Sample #	Sample Type	Duplicate of	Standard name	Laboratory	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)	FA4 Au (ppm)	FA5 Au (ppm)	SFA Au (ppm)	SFA2 Au (ppm)	SFA3 Au (ppm)	GA Au (ppm)	GA2 Au (ppm)	GA3 Au (ppm)	GA4 Au (ppm)	GA5 Au (ppm)	AR Au (ppm)	AR2 Au (ppm)	AR3 Au (ppm)	Wt (kg)
282412	STANDARD		OREAS 62c	ActLabs	-	-	5.00	-	-	-	-	-	-	-	9.16	-	-	-	-	-	-	-	-
282424	BLKDIA			ActLabs	-	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
282436	STANDARD		OREAS 206	ActLabs	-	-	2.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
282448	BLKDIA			ActLabs	-	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
282460	STANDARD		OREAS 501	ActLabs	-	-	0.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
282472	BLKDIA			ActLabs	-	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
282484	STANDARD		OREAS 504	ActLabs	-	-	1.58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
282496	BLKDIA			ActLabs	-	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

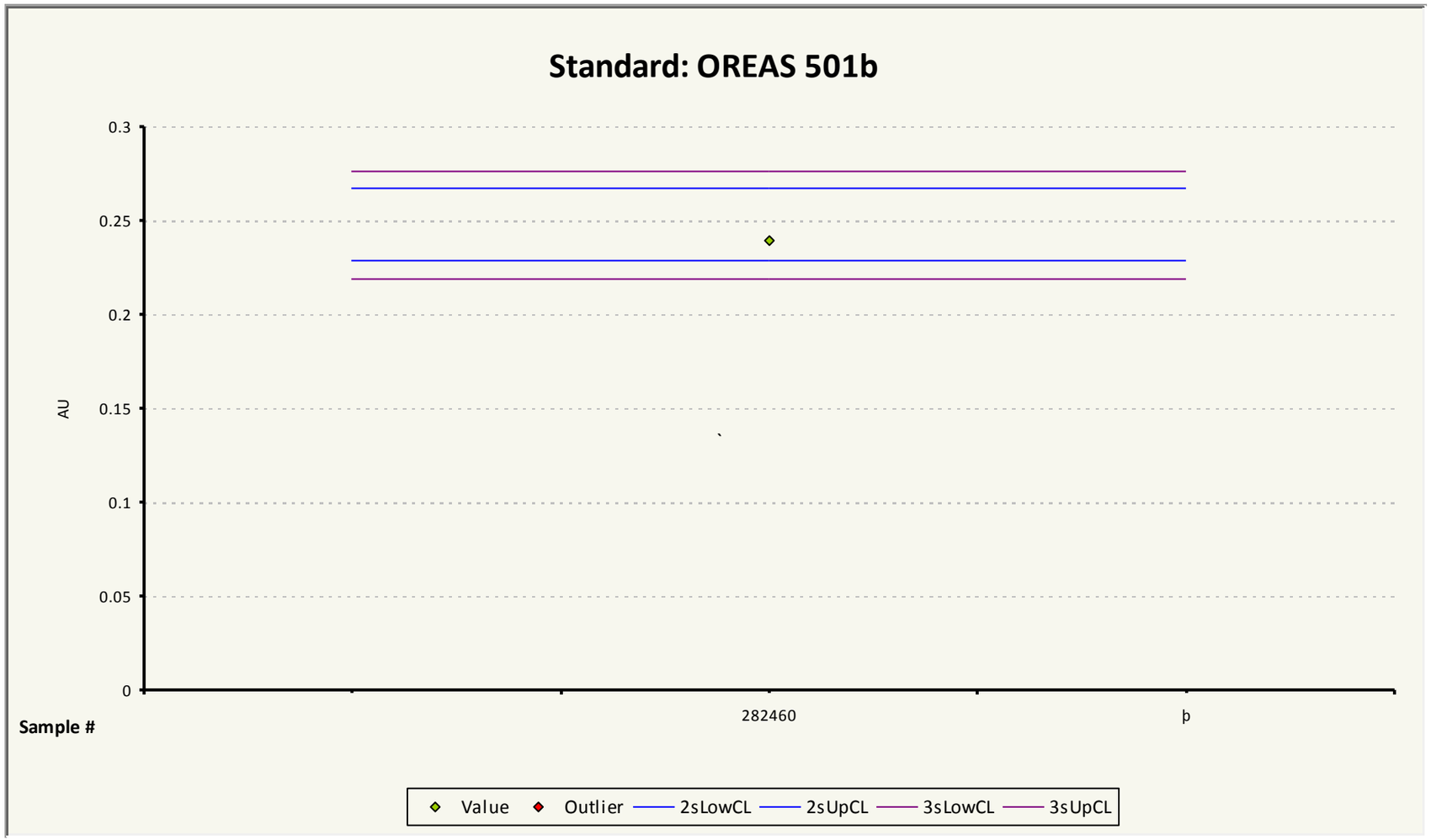
Filter Certificates: *A17-04363-Au* *Filter QC Sample Type:* *OREAS 206* *Filter QC Sample Type:* *AU*



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

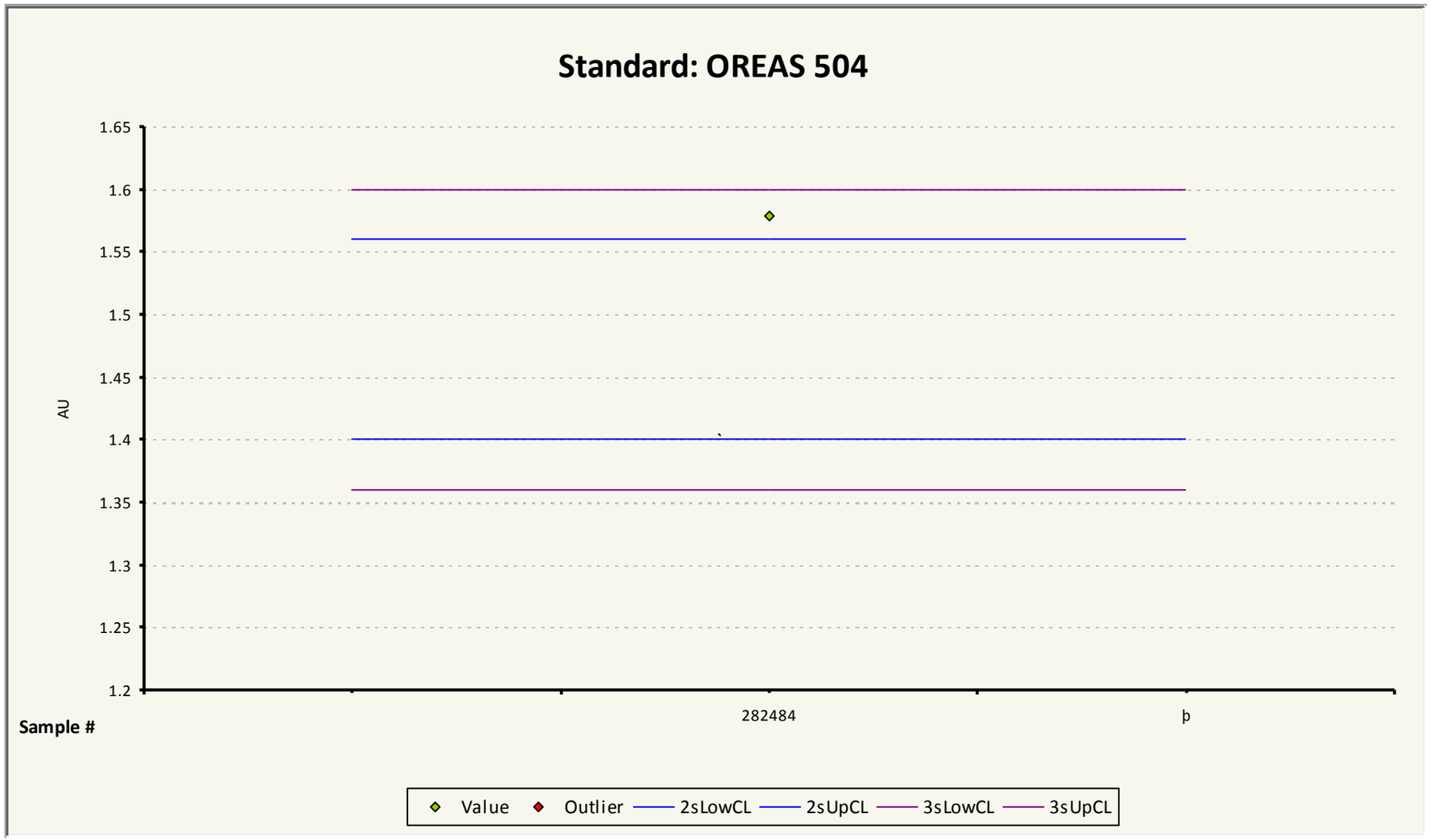
Filter Certificates: *A17-04363-Au* *Filter QC Sample Type:* *OREAS 501b* *Filter QC Sample Type:* *AU*



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

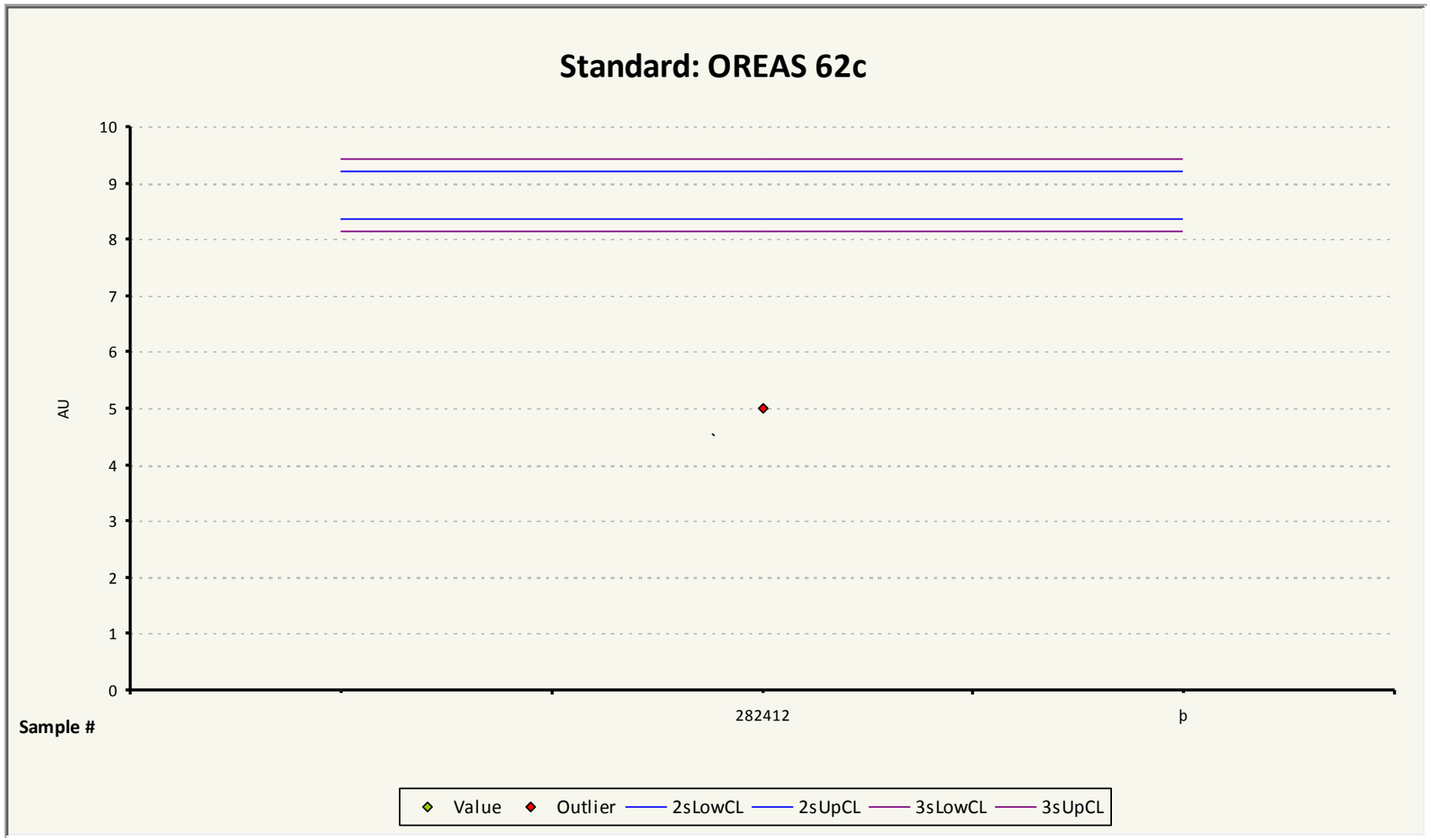
Filter Certificates: *A17-04363-Au* *Filter QC Sample Type:* *OREAS 504* *Filter QC Sample Type:* *AU*



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

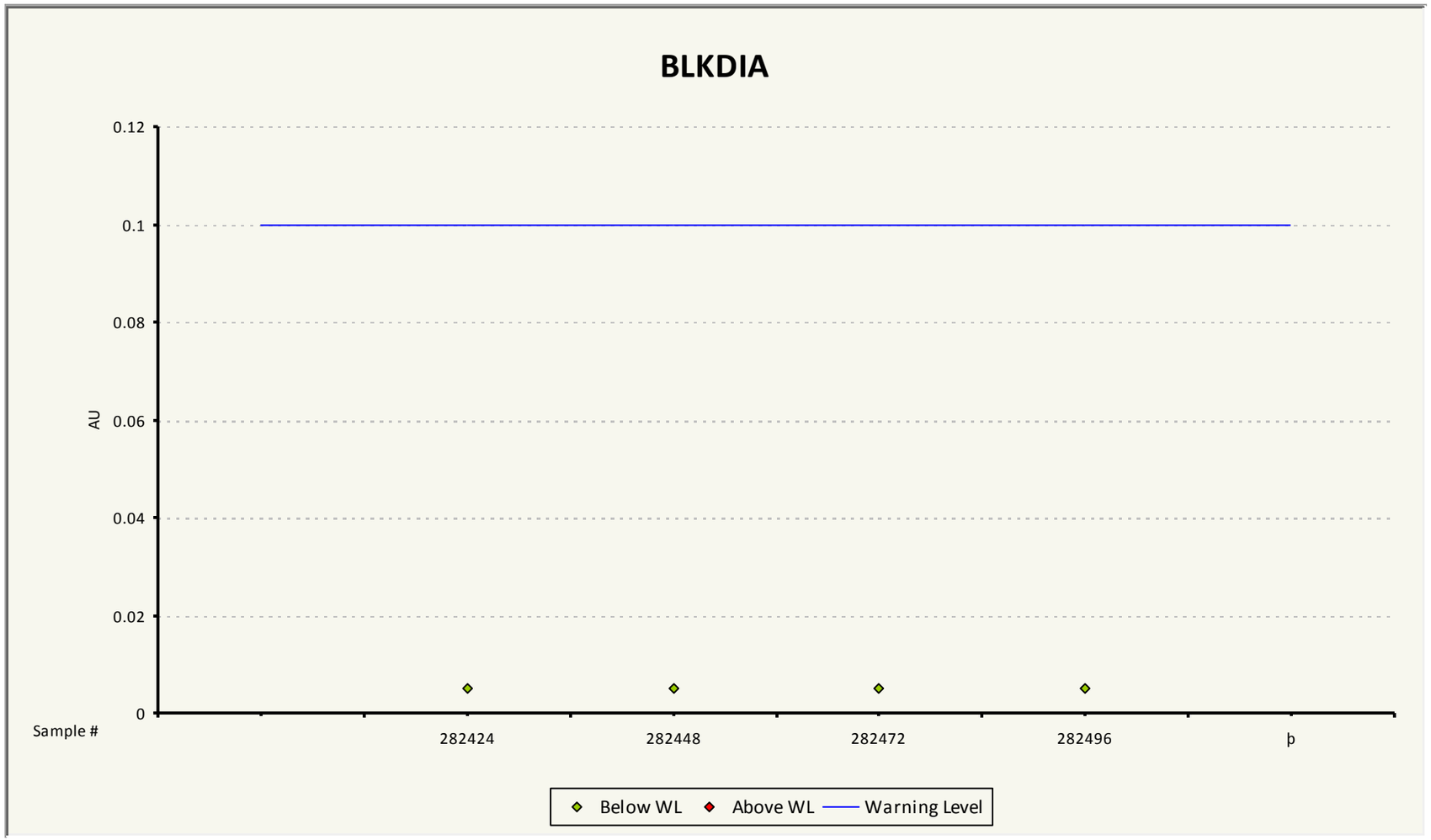
Filter Certificates: *A17-04363-Au (R)* *Filter QC Sample Type:* *OREAS 62c* *Filter QC Sample Type:* *AU*



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

Filter Certificates: ***A17-04363-Au*** ***Filter QC Sample Type:*** ***BLKDIA*** ***Filter QC Sample Type:*** ***AU***



WAT17-08A QA/QC

QUALITY CONTROL REPORT

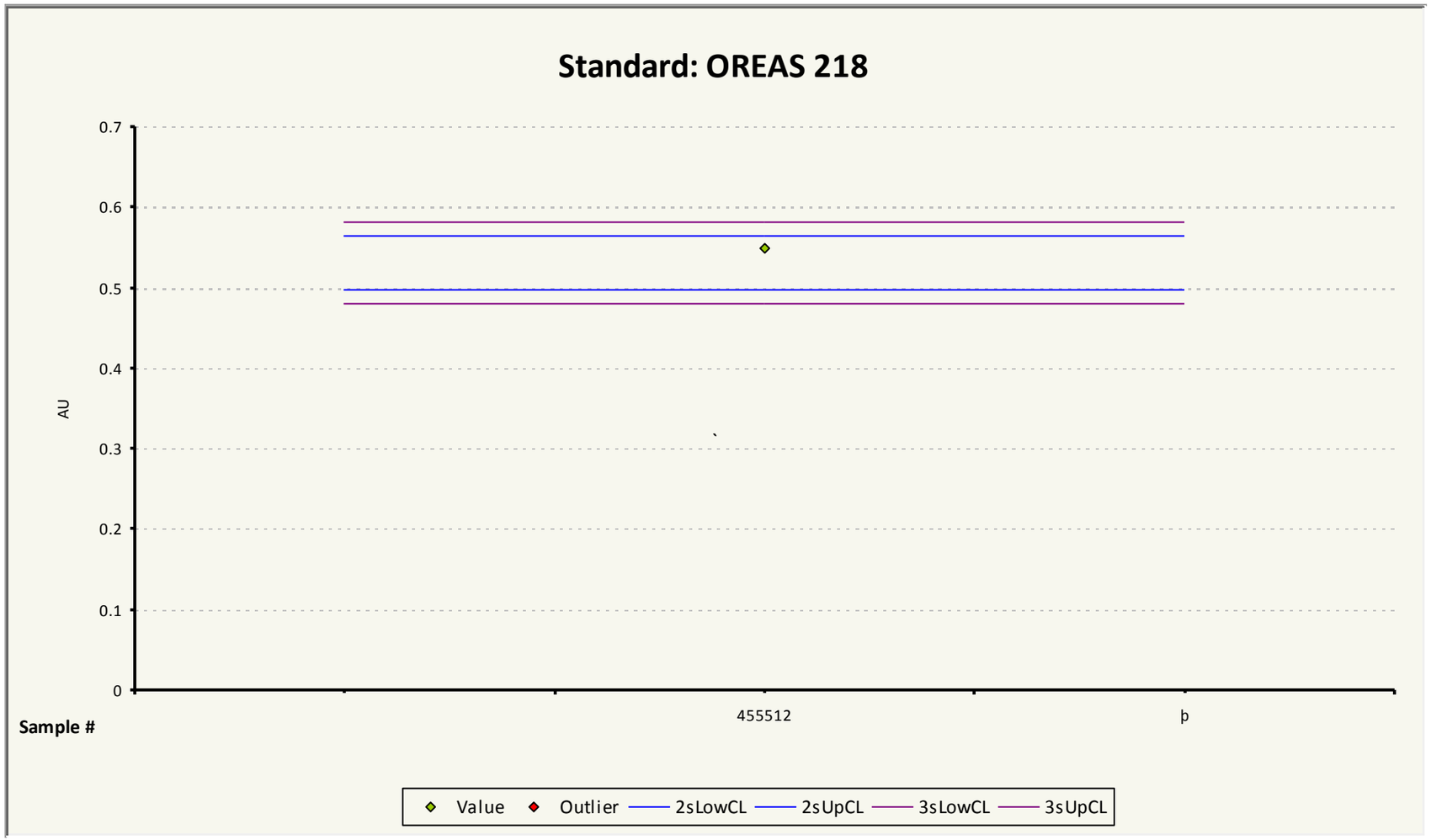
Hole Number **WAT17-08A** Project: **WATERSHED EAST** Project Number: **259**

Sample #	Sample Type	Duplicate of	Standard name	Laboratory	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)	FA4 Au (ppm)	FA5 Au (ppm)	SFA Au (ppm)	SFA2 Au (ppm)	SFA3 Au (ppm)	GA Au (ppm)	GA2 Au (ppm)	GA3 Au (ppm)	GA4 Au (ppm)	GA5 Au (ppm)	AR Au (ppm)	AR2 Au (ppm)	AR3 Au (ppm)	Wt (kg)
455512	STANDARD		OREAS 218	ActLabs	1	-	0.55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
455524	BLKDIA			ActLabs	0	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
455536	STANDARD		OREAS 501	ActLabs	0	-	0.23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
455548	BLKDIA			ActLabs	0	-	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
455560	STANDARD		OREAS 501	ActLabs	2	-	1.59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
455572	BLKDIA			ActLabs	0	-	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
455584	STANDARD		OREAS 504	ActLabs	1	-	1.49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
455596	BLKDIA			ActLabs	0	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

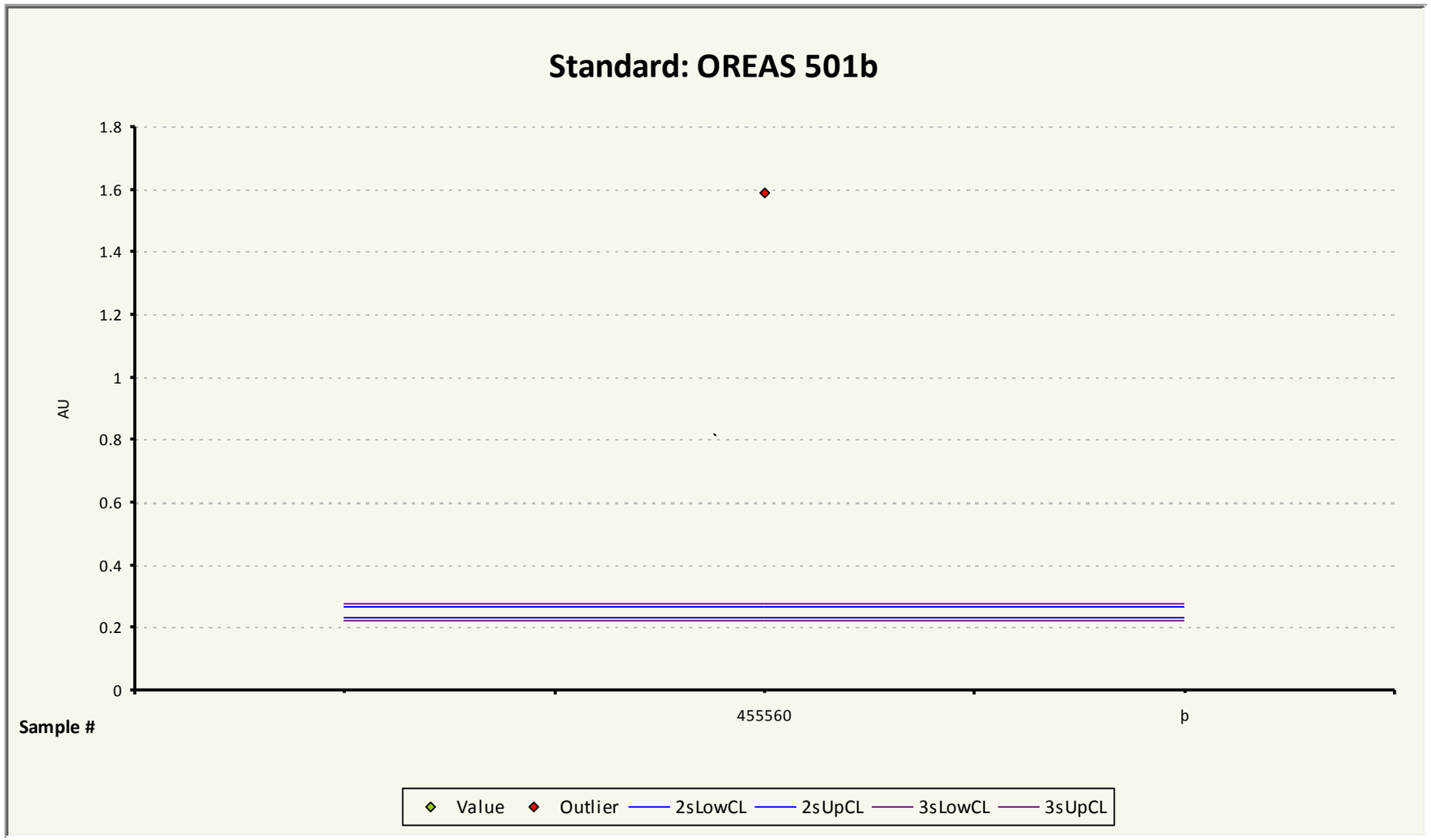
Filter Certificates: 17B296297-Au *Filter QC Sample Type: OREAS 218* *Filter QC Sample Type: AU*



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

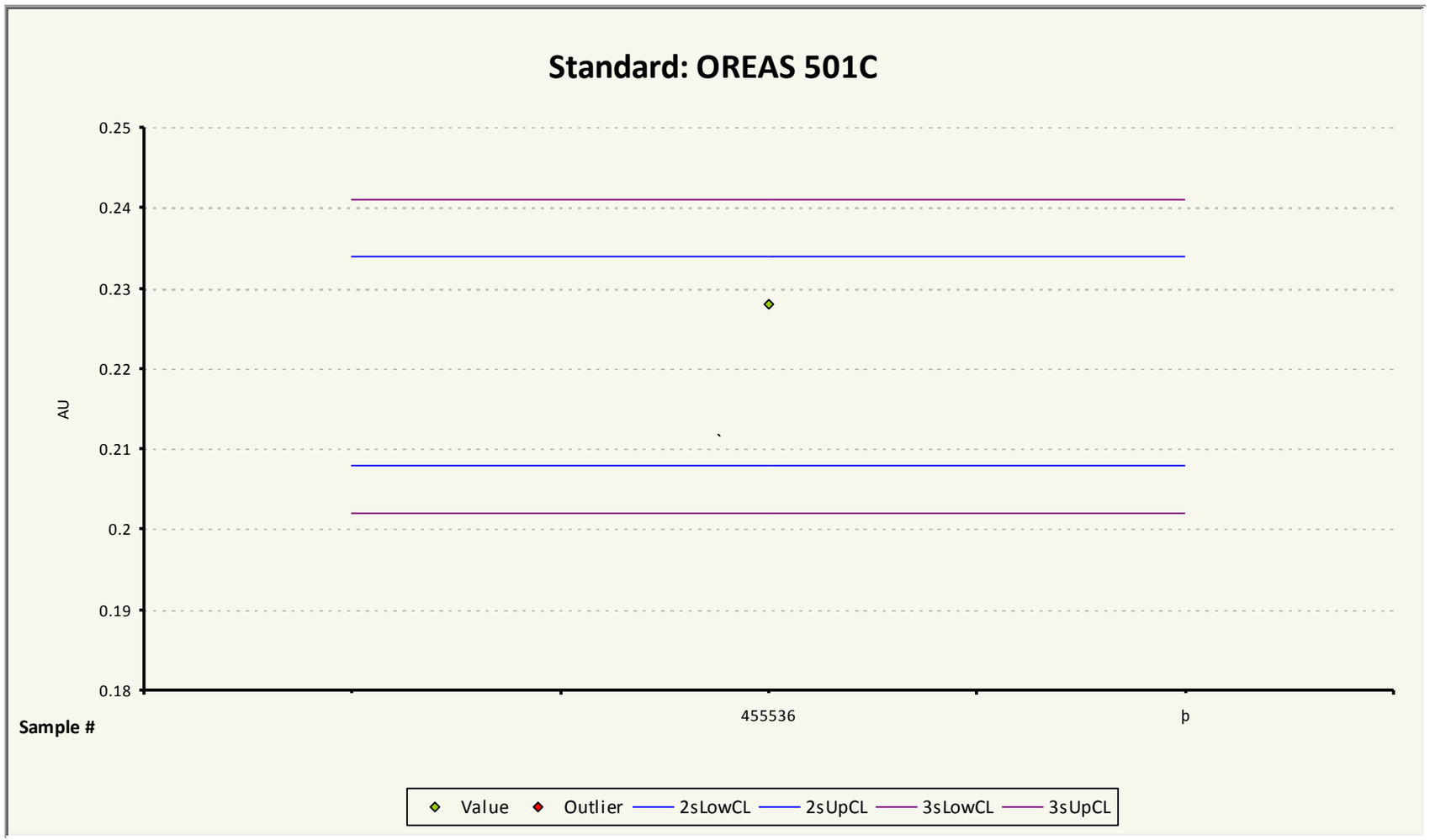
Filter Certificates: 17B296297-Au *Filter QC Sample Type: OREAS 501b* *Filter QC Sample Type: AU*



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

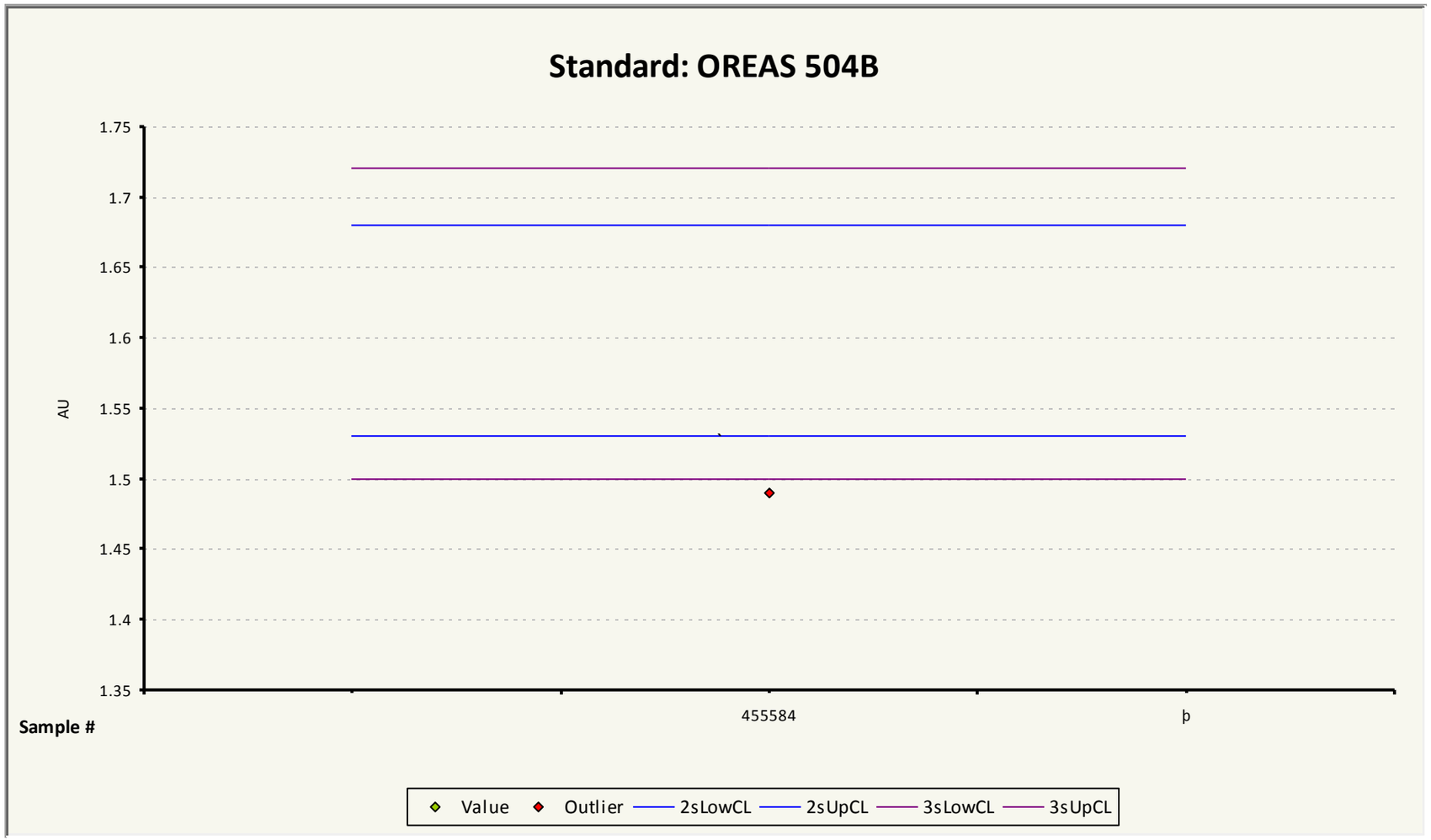
Filter Certificates: *17B296297-Au* *Filter QC Sample Type:* *OREAS 501C* *Filter QC Sample Type:* *AU*



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

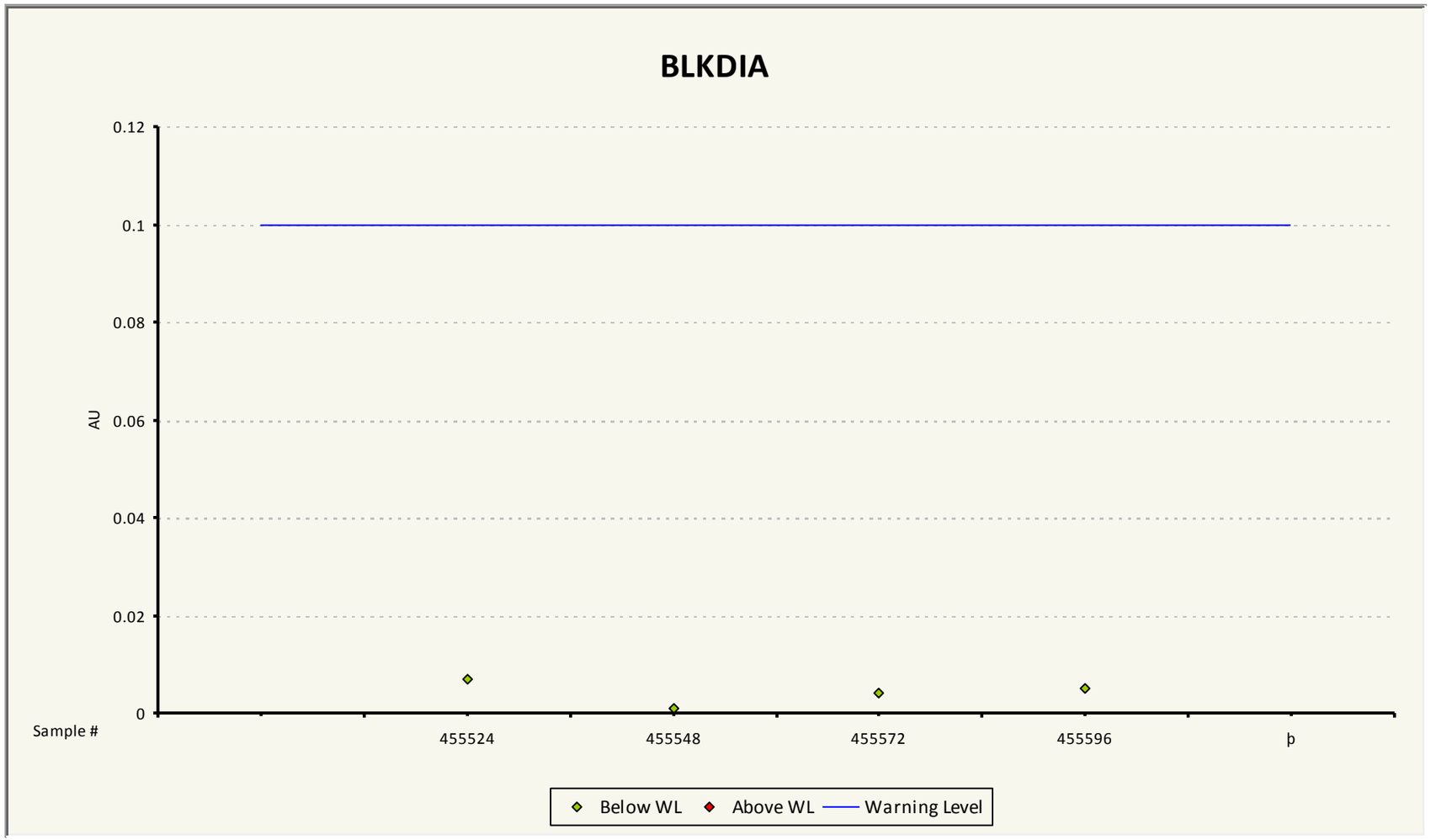
Filter Certificates: 17B296297-Au *Filter QC Sample Type: OREAS 504B* *Filter QC Sample Type: AU*



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

Filter Certificates: ***17B296297-Au*** ***Filter QC Sample Type:*** ***BLKDIA*** ***Filter QC Sample Type:*** ***AU***



WAT17-09 QA/QC

QUALITY CONTROL REPORT

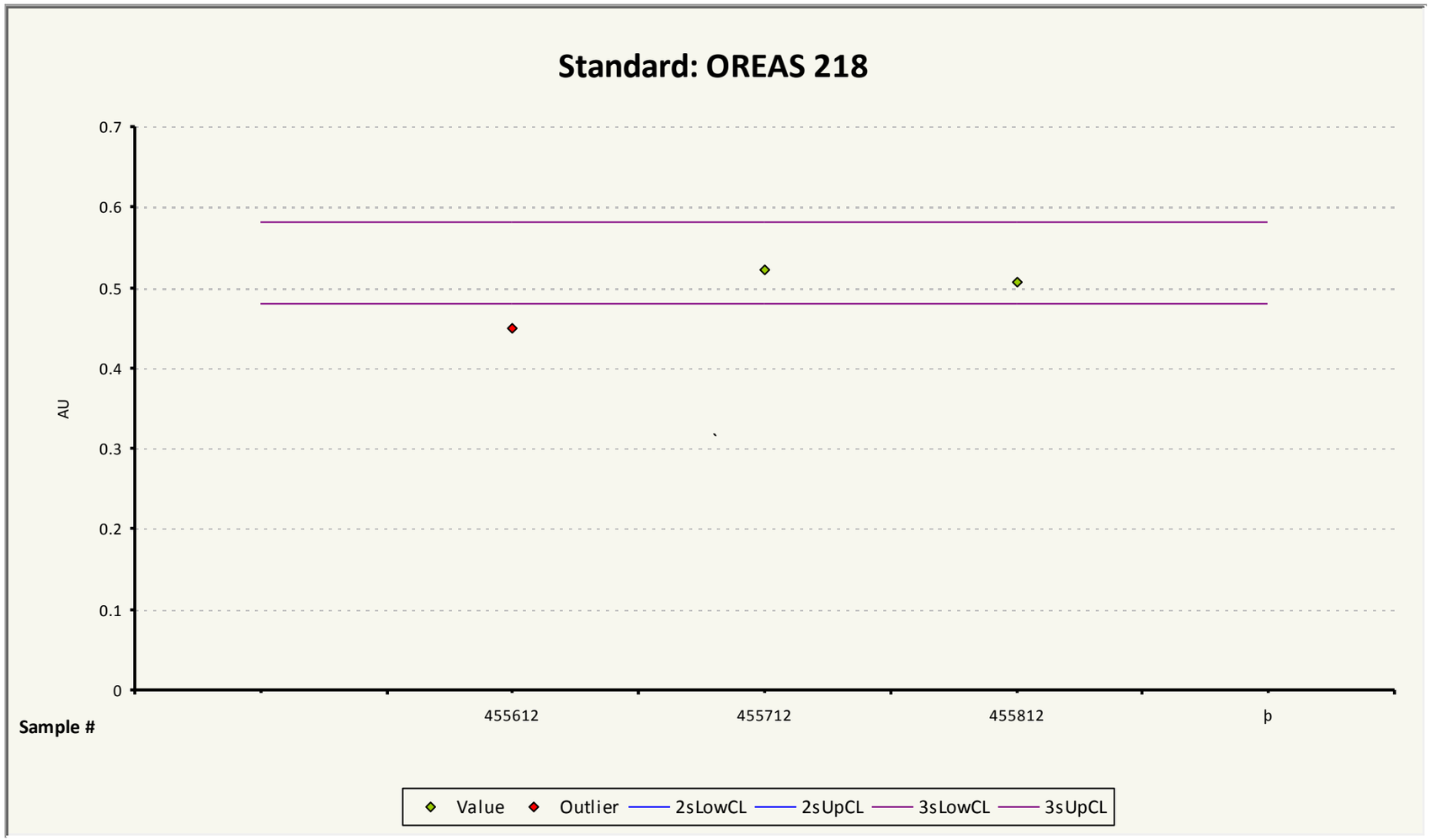
Hole Number **WAT17-09** Project: **WATERSHED EAST** Project Number: **259**

Sample #	Sample Type	Duplicate of	Standard name	Laboratory	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)	FA4 Au (ppm)	FA5 Au (ppm)	SFA Au (ppm)	SFA2 Au (ppm)	SFA3 Au (ppm)	GA Au (ppm)	GA2 Au (ppm)	GA3 Au (ppm)	GA4 Au (ppm)	GA5 Au (ppm)	AR Au (ppm)	AR2 Au (ppm)	AR3 Au (ppm)	Wt (kg)
455612	STANDARD		OREAS 218	ActLabs	-	-	0.45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
455624	BLKDIA			ActLabs	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
455636	STANDARD		OREAS 501	ActLabs	-	-	0.23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
455648	BLKDIA			ActLabs	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
455660	STANDARD		OREAS 501	ActLabs	-	-	0.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
455672	BLKDIA			ActLabs	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
455684	STANDARD		OREAS 504	ActLabs	-	-	1.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
455696	BLKDIA			ActLabs	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
455712	STANDARD		OREAS 218	ActLabs	-	-	0.52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
455724	BLKDIA			ActLabs	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
455736	STANDARD		OREAS 501	ActLabs	-	-	0.22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
455748	BLKDIA			ActLabs	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
455760	STANDARD		OREAS 501	ActLabs	-	-	0.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
455772	BLKDIA			ActLabs	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
455784	STANDARD		OREAS 504	ActLabs	-	-	1.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
455796	BLKDIA			ActLabs	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
455812	STANDARD		OREAS 218	ActLabs	-	-	0.51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

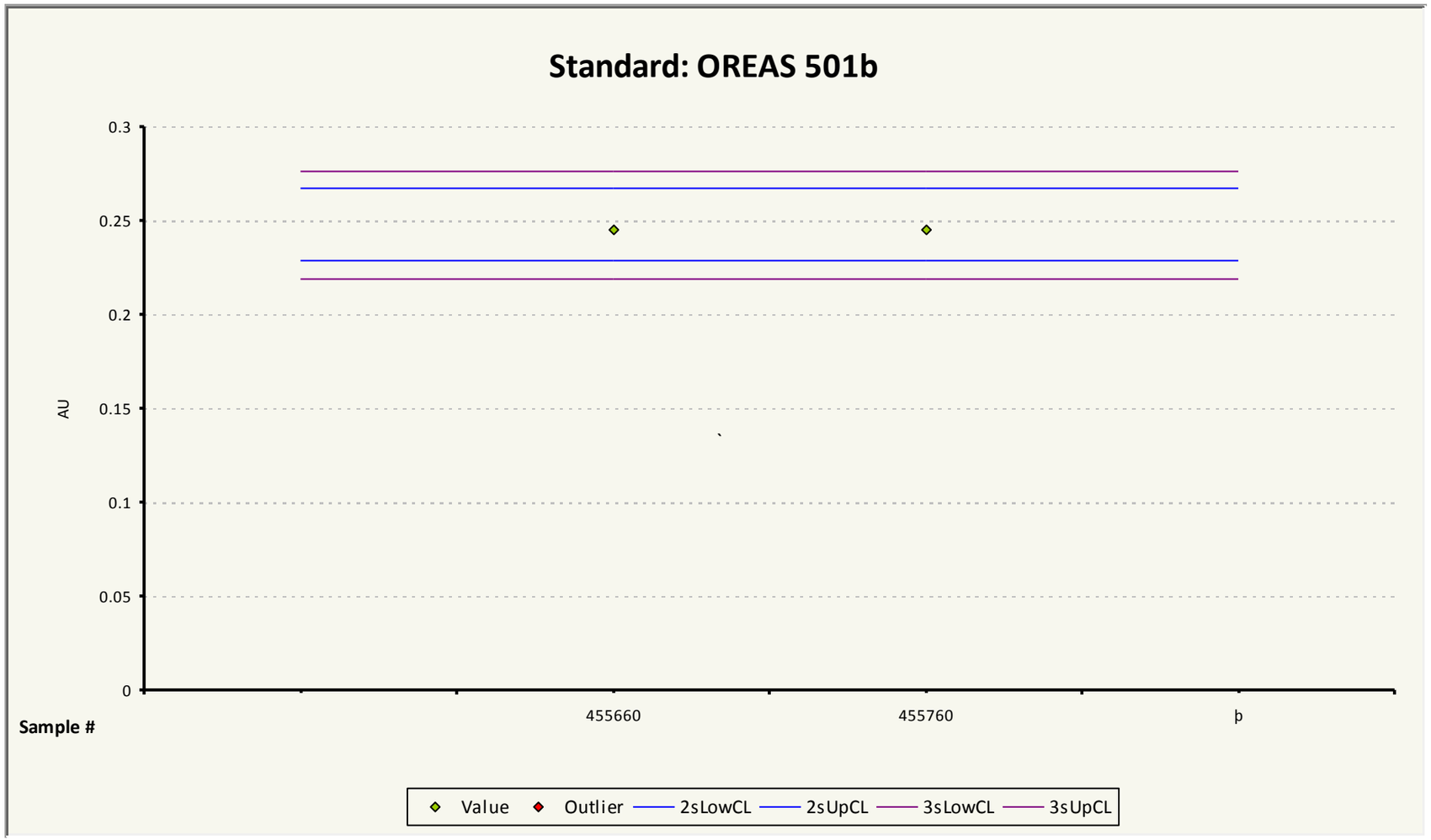
Filter Certificates: 17B296302-Au *Filter QC Sample Type: OREAS 218* *Filter QC Sample Type: AU*



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

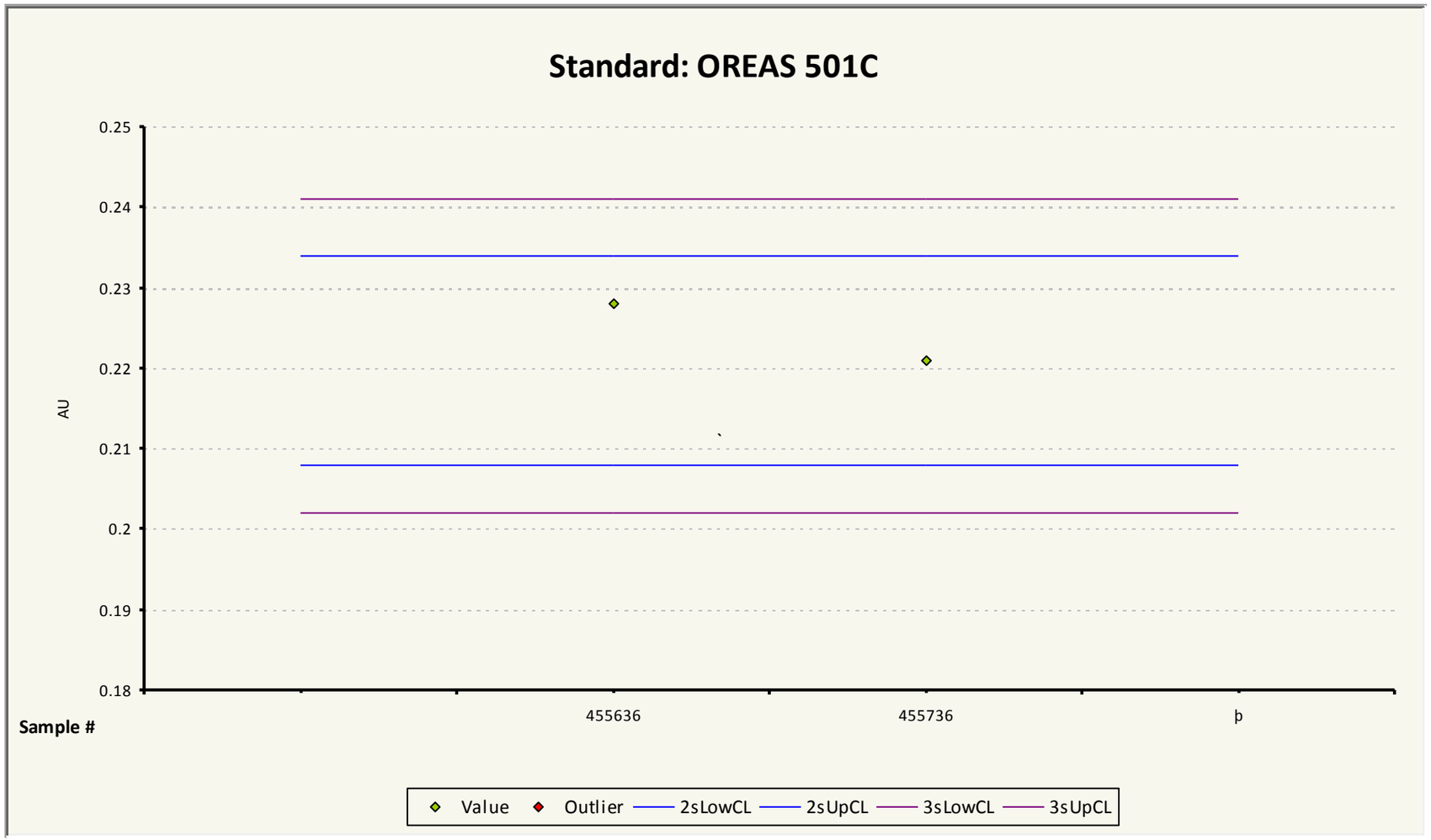
Filter Certificates: 17B296302-Au *Filter QC Sample Type: OREAS 501b* *Filter QC Sample Type: AU*



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

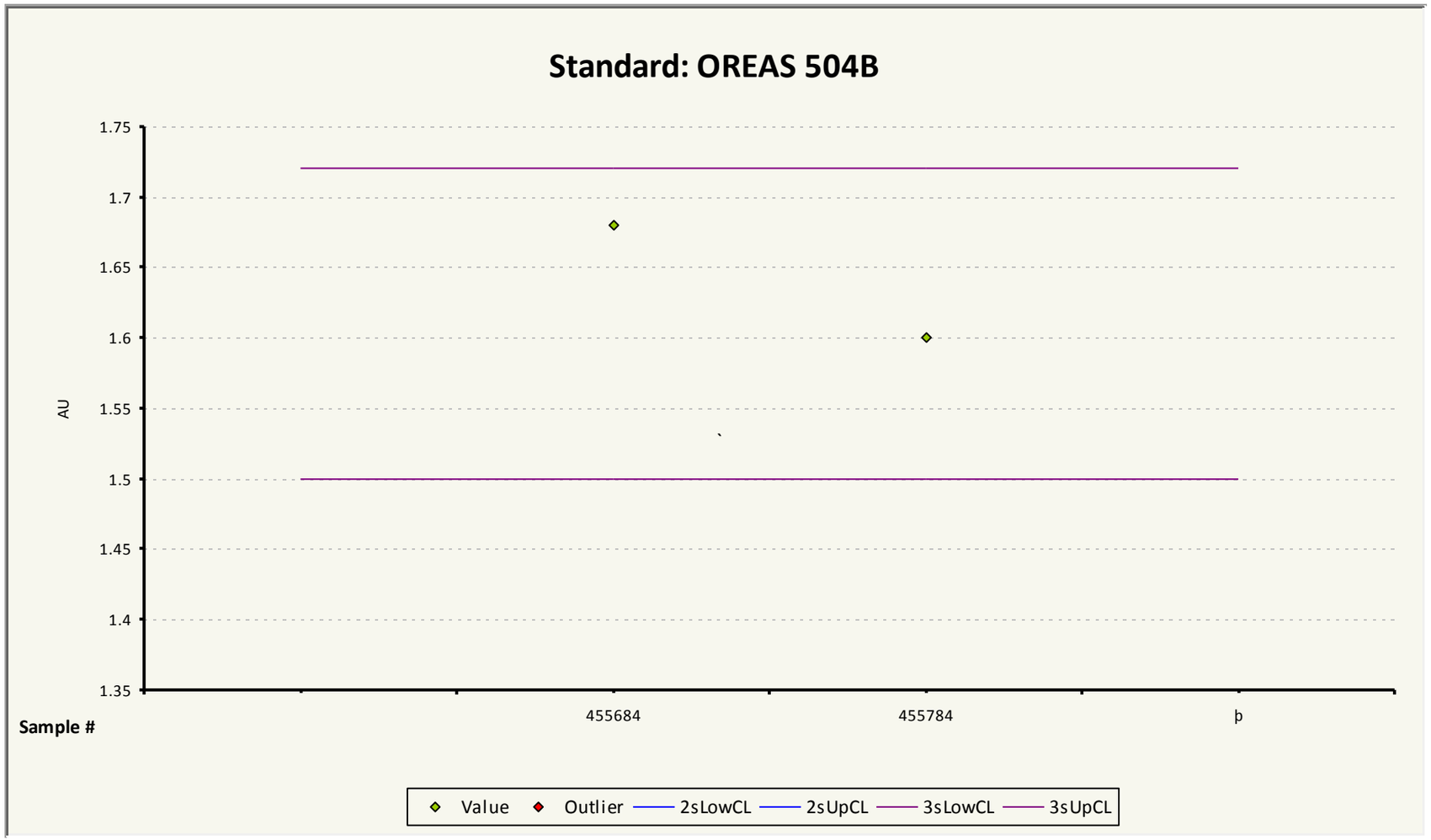
Filter Certificates: ***17B296302-Au*** ***Filter QC Sample Type:*** ***OREAS 501C*** ***Filter QC Sample Type:*** ***AU***



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

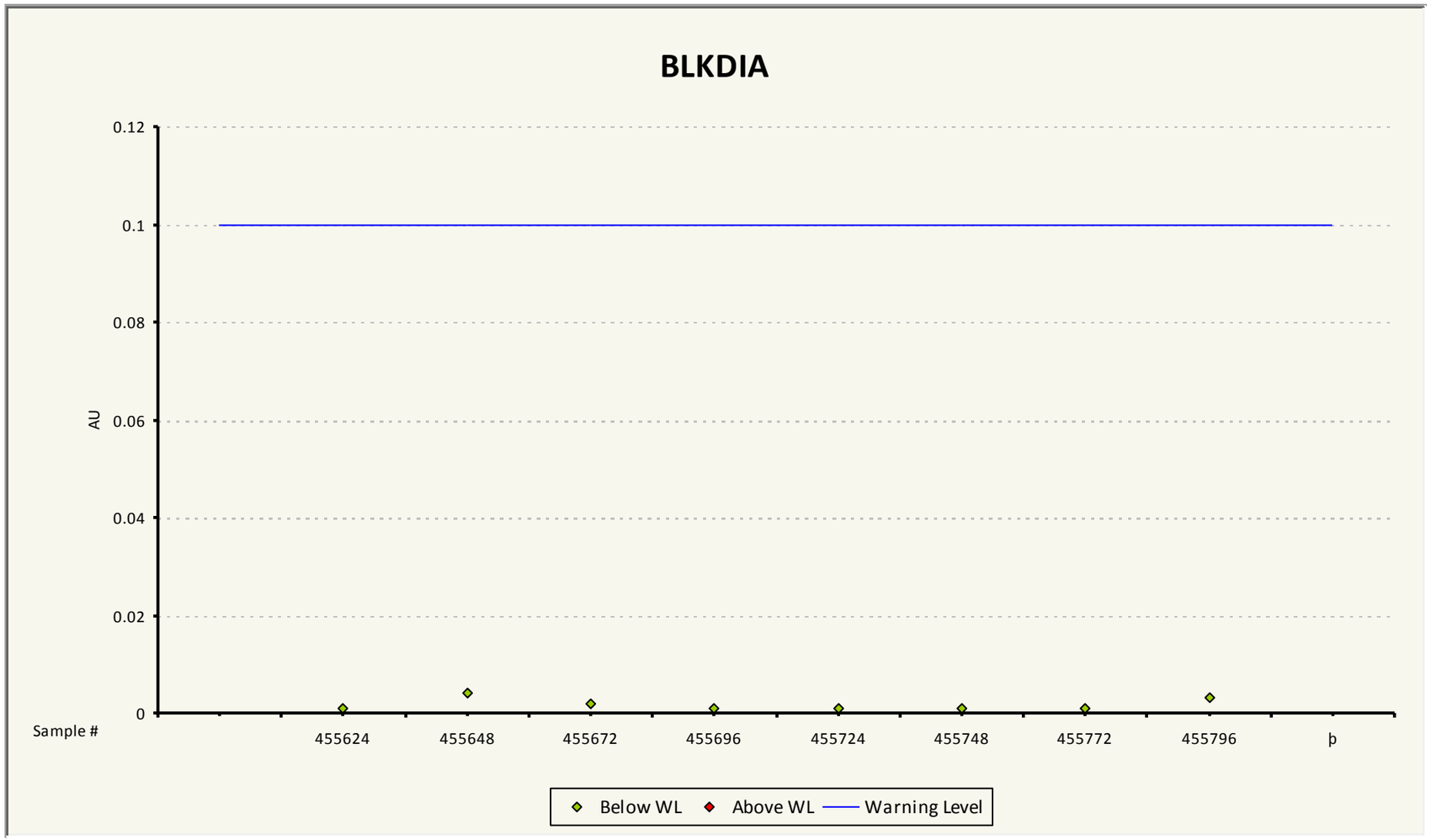
Filter Certificates: 17B296302-Au *Filter QC Sample Type: OREAS 504B* *Filter QC Sample Type: AU*



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

Filter Certificates: ***17B296302-Au*** ***Filter QC Sample Type:*** ***BLKDIA*** ***Filter QC Sample Type:*** ***AU***



WAT17-10 QA/QC

QUALITY CONTROL REPORT

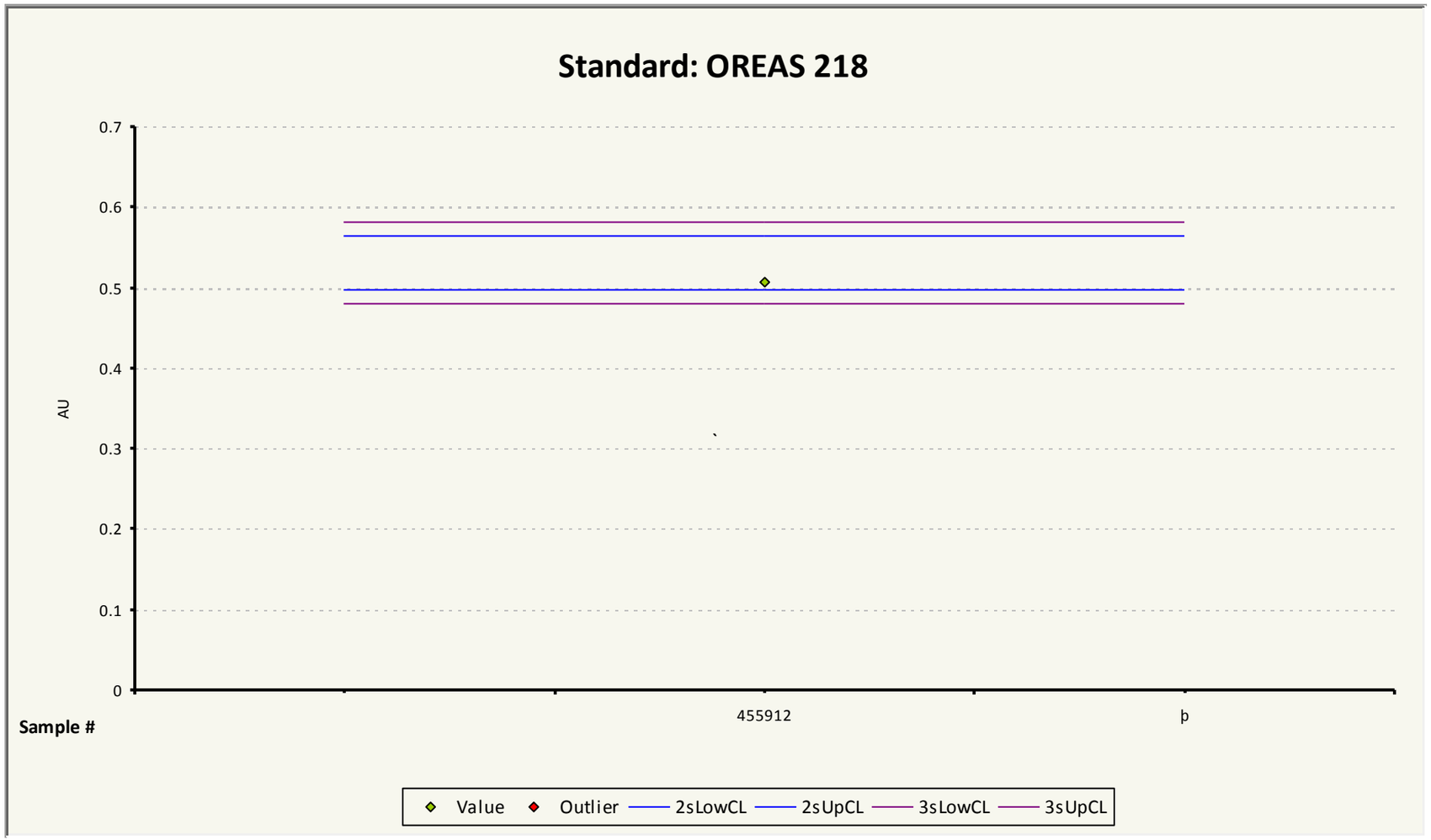
Hole Number **WAT17-10** Project: **WATERSHED EAST** Project Number: **259**

Sample #	Sample Type	Duplicate of	Standard name	Laboratory	Au (ppm)	AV Au (ppm)	FA Au (ppm)	FA2 Au (ppm)	FA3 Au (ppm)	FA4 Au (ppm)	FA5 Au (ppm)	SFA Au (ppm)	SFA2 Au (ppm)	SFA3 Au (ppm)	GA Au (ppm)	GA2 Au (ppm)	GA3 Au (ppm)	GA4 Au (ppm)	GA5 Au (ppm)	AR Au (ppm)	AR2 Au (ppm)	AR3 Au (ppm)	Wt (kg)
455824	BLKDIA			ActLabs	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
455836	STANDARD		OREAS 501	ActLabs	-	-	0.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
455848	BLKDIA			ActLabs	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
455860	STANDARD		OREAS 501	ActLabs	-	-	0.23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
455872	BLKDIA			ActLabs	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
455884	STANDARD		OREAS 504	ActLabs	-	-	1.53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
455896	BLKDIA			ActLabs	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
455912	STANDARD		OREAS 218	ActLabs	-	-	0.51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
455924	BLKDIA			ActLabs	-	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
455936	STANDARD		OREAS 501	ActLabs	-	-	0.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
455948	BLKDIA			ActLabs	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
455960	STANDARD		OREAS 501	ActLabs	-	-	0.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

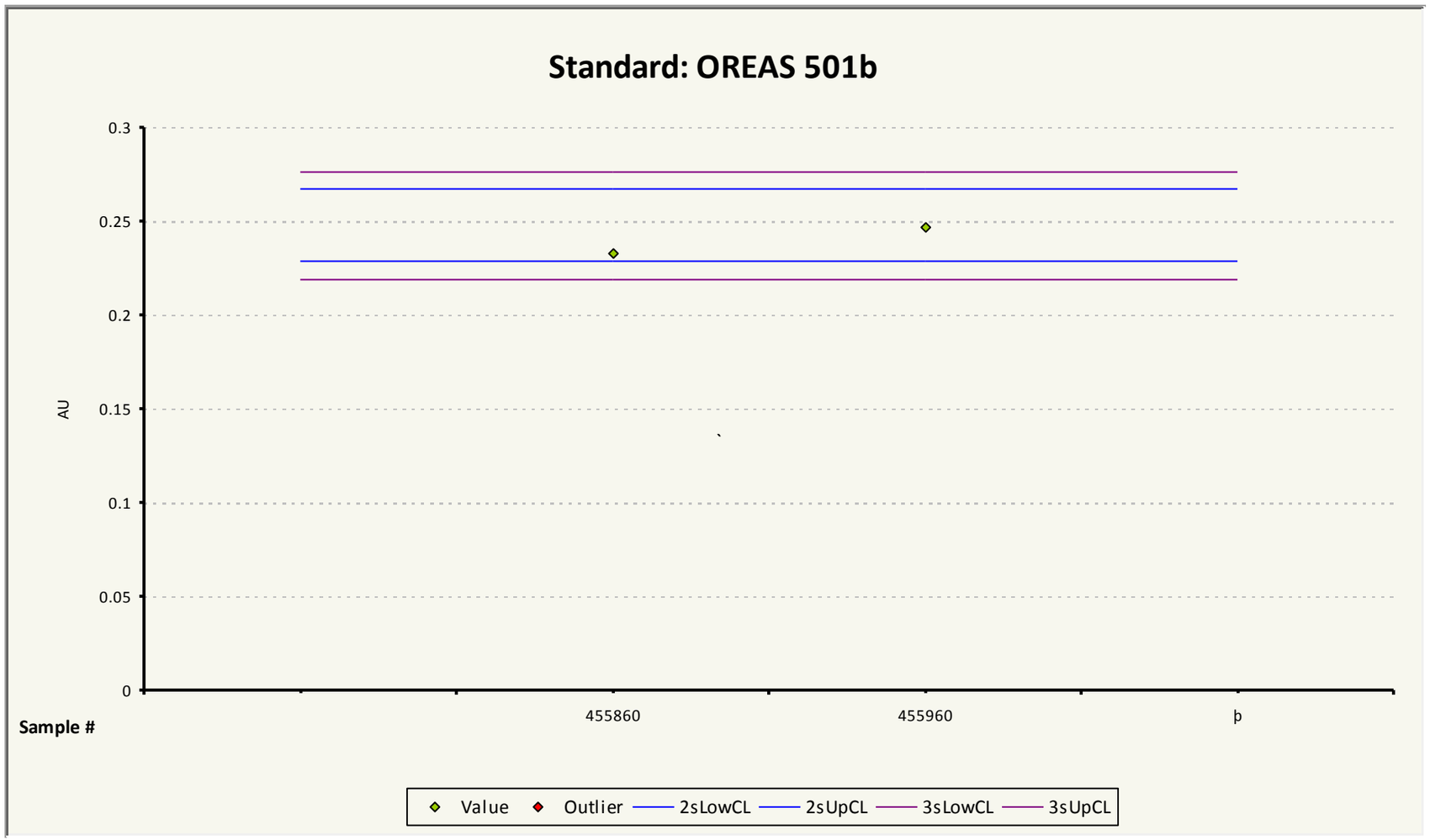
Filter Certificates: 17B296321-Au *Filter QC Sample Type: OREAS 218* *Filter QC Sample Type: AU*



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

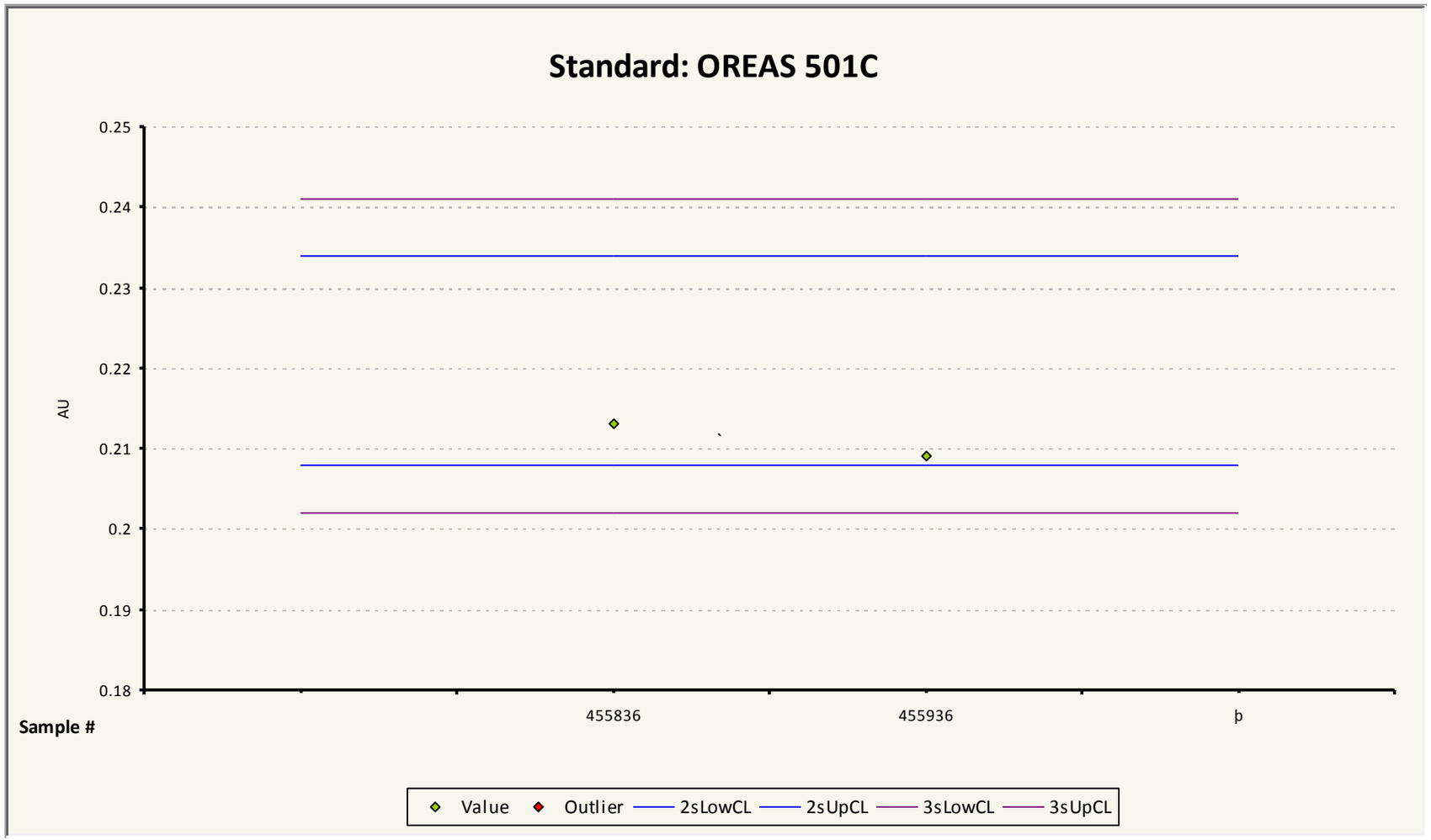
Filter Certificates: *17B296321-Au* ***Filter QC Sample Type:*** *OREAS 501b* ***Filter QC Sample Type:*** *AU*



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

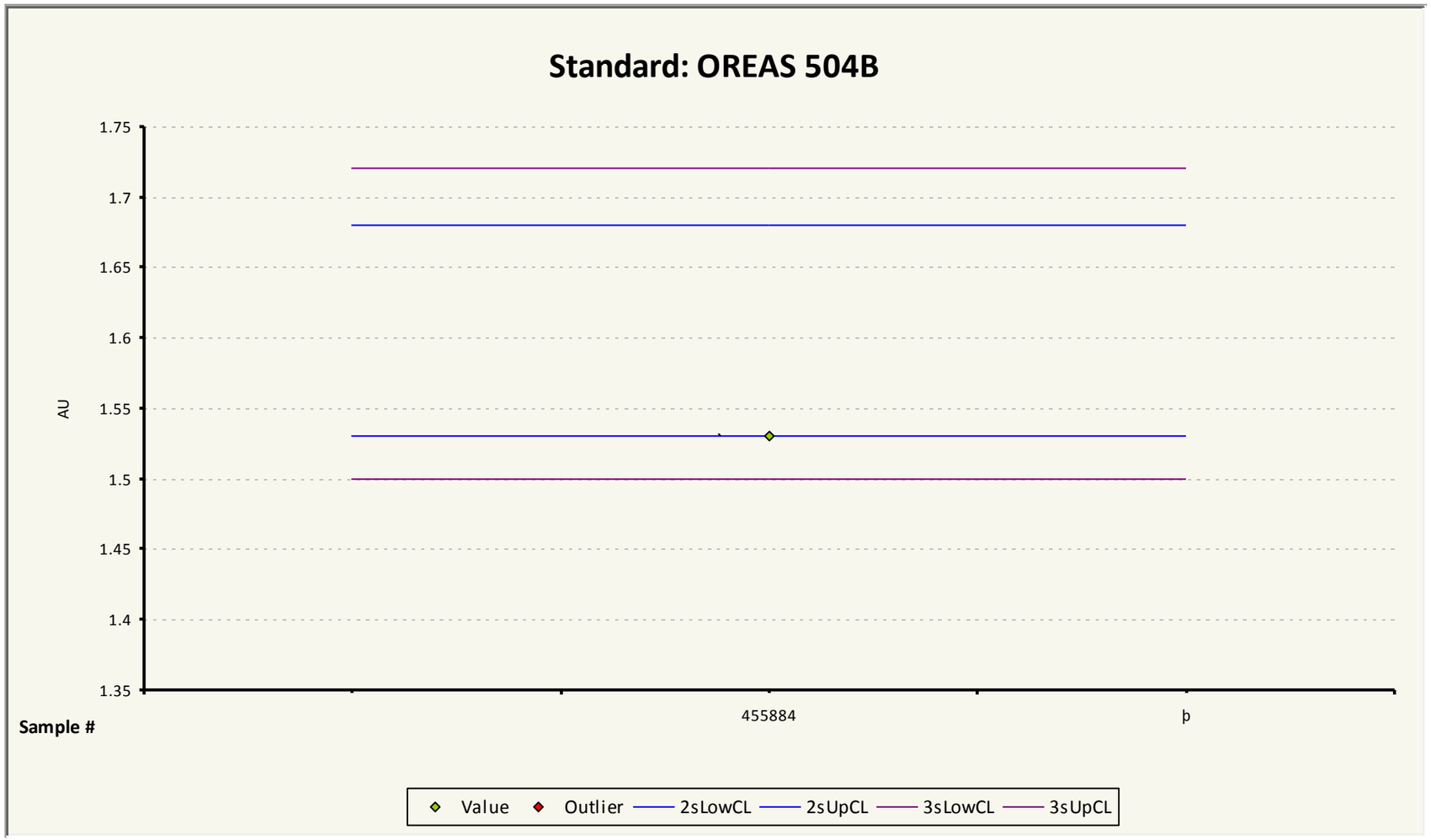
Filter Certificates: 17B296321-Au *Filter QC Sample Type: OREAS 501C* *Filter QC Sample Type: AU*



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

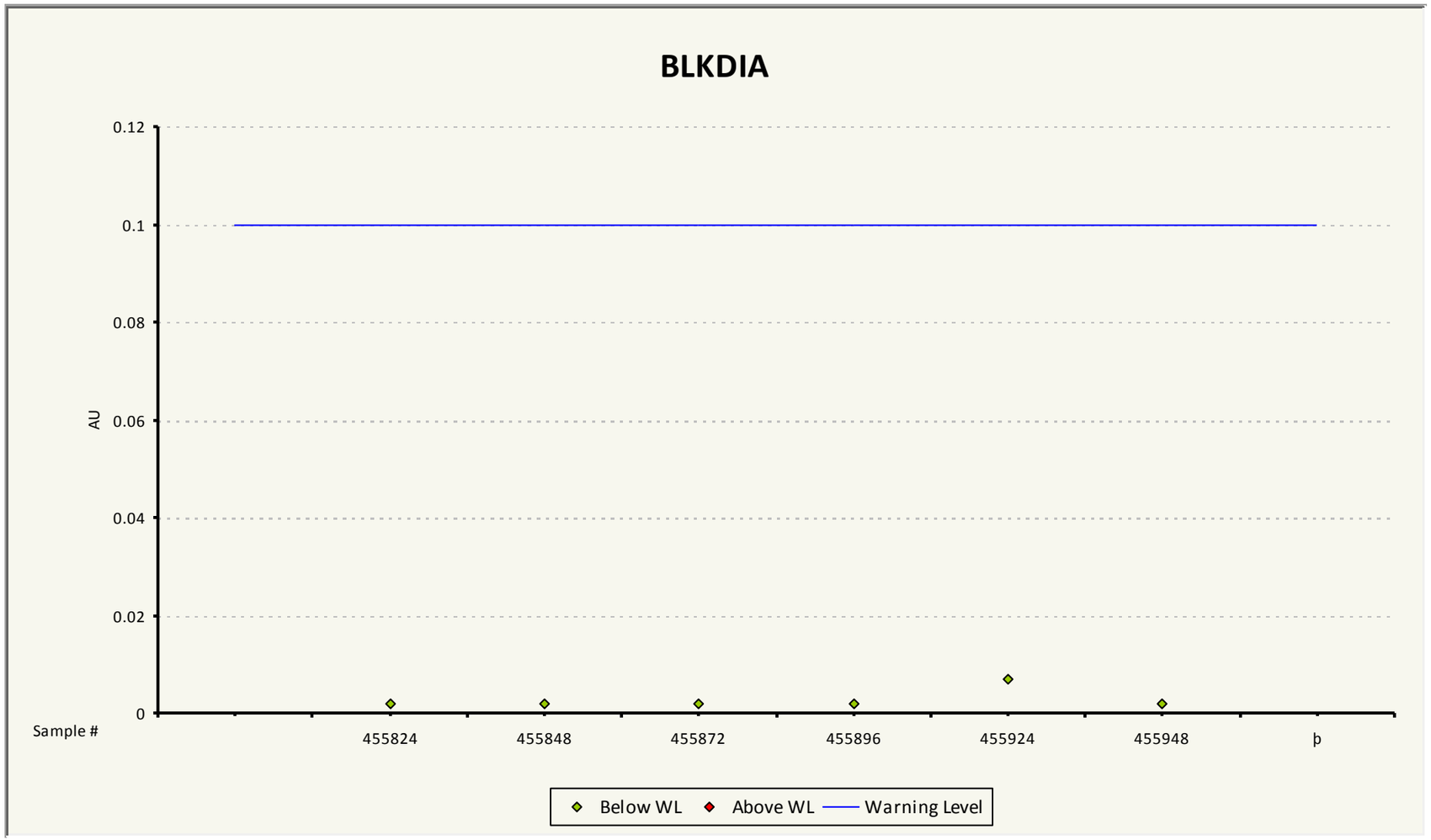
Filter Certificates: 17B296321-Au *Filter QC Sample Type: OREAS 504B* *Filter QC Sample Type: AU*



IAMGOLD CORPORATION

QUALITY CONTROL GRAPHICAL REPORT

Filter Certificates: ***17B296321-Au*** ***Filter QC Sample Type:*** ***BLKDIA*** ***Filter QC Sample Type:*** ***AU***



APPENDIX 4

NEVILLE
ST. LOUIS
CHESTER
BENNEWEIS
WAT17-06
WAT17-05
WAT17-07
WAT16-04
WAT16-02
WAT17-10
WAT17-08A
WAT17-08
WAT17-09
WAT16-03
WAT16-01
KER15-02
KER15-01
BEN16-09ABEN16-09
PAT-28522
PAT-28523
PAT-28521
PAT-28524
PAT-28519
PAT-28520
41P12F382
41P12C002
41P12C021
41P12C022
41P12C041
41P12C061
41P12C081
41P12C084
41P12C103
41P12C104
41P12C105
41P12C123
41P12C071
41P12C091
LEA-107448

294294 280928 224922 165491 120329 339883 212909 337873 317816 175726 136842 284636 124835 211872 201009
260886 142766 235559 260885 158781 102012 165492 327538 297528 204091 120330 296907 326184 194258 243787 175727 243786 256117 256116 201010 343572 182809
280989 115329 194822 129028 326835 294899 212189 324202 111581 242469 259747 195820 163806 279858 176959 298507 256118 107890 223826 292680 231796 289779 107889
326235 333844 150723 158211 158803 287600 280233 275493 279073 278307 158998 178527 158948 158947 160364
218919 212122 158212 129603 297612 129029 102081 164885 116022 275494 294845 190872 306898 344565 103635 297910 134359 123979
202075 325419 177617 313368 278143 276769 202174 177622 156847 230987 297569 203446 259525 136184 176057 183318 219189
127572 114974 155540 325420 163532 211558 210757 278956 296275 127571 261465 163531 222310 258884 268951 278091 278067 223601 326182 237570 130791 105649 239984
222958 100408 157524 156875 117234 162886 144770 142951 295380 227358 190065
258885 296276 325564 229571 326201 127573 295620 238107 335657 141533 283286
201414 172180 228300 144766 117235 127574 276770 336955 195672 148055 105265
275509 155584 209470 201413 158168 128895 324155 324154 224906 119922 279779 292564

434000 435000 436000 437000 438000 439000
5270000 5269000 5268000 5267000

2015 to 2017 Swayze East Drilling Plan Map (1:10,000 scale)(Nad 83, Zone 17N)

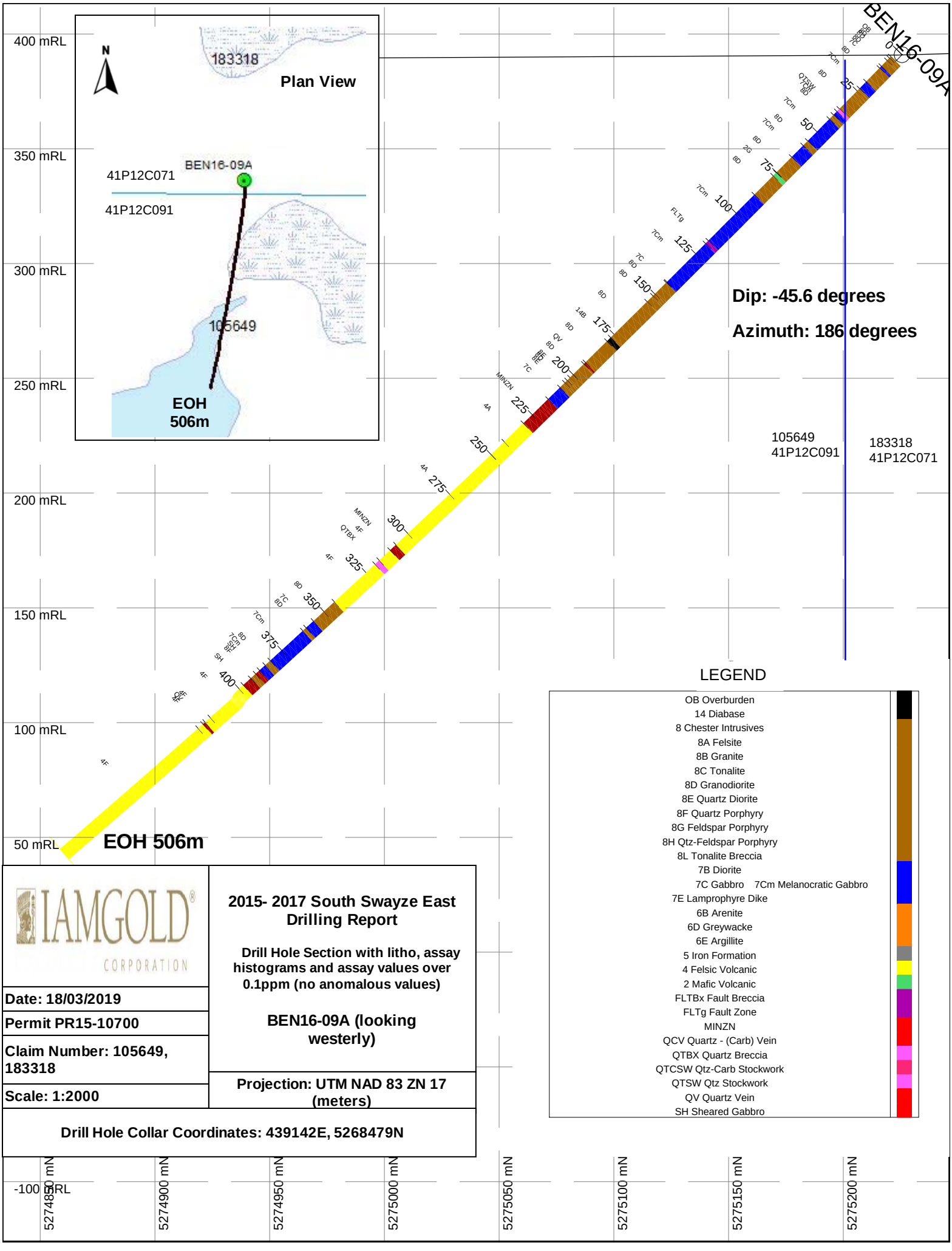
- WatershedEast_20152017_DDH_Collars
- Exploration Grid Lines
- Roads & Drill Trails
- Arimathea East Outline
- King Errington Outline
- Watershed Outline
- TME Outline
- Leases & Patents
- MENDM_Boundary_Claims
- IAMGOLD_cell_claims_Feb25_2019

Waterbodies

TYPE

- Lake
- Wetland
- Townships

APPENDIX 5



LEGEND

- OB Overburden
- 14 Diabase
- 8 Chester Intrusives
- 8A Felsite
- 8B Granite
- 8C Tonalite
- 8D Granodiorite
- 8E Quartz Diorite
- 8F Quartz Porphyry
- 8G Feldspar Porphyry
- 8H Qtz-Feldspar Porphyry
- 8L Tonalite Breccia
- 7B Diorite
- 7C Gabbro 7Cm Melanocratic Gabbro
- 7E Lamprophyre Dike
- 6B Arenite
- 6D Greywacke
- 6E Argillite
- 5 Iron Formation
- 4 Felsic Volcanic
- 2 Mafic Volcanic
- FLTBx Fault Breccia
- FLTg Fault Zone
- MINZN
- QCV Quartz - (Carb) Vein
- QTBX Quartz Breccia
- QTCSW Qtz-Carb Stockwork
- QTSW Qtz Stockwork
- QV Quartz Vein
- SH Sheared Gabbro

IAMGOLD CORPORATION

2015- 2017 South Swayze East Drilling Report

Drill Hole Section with litho, assay histograms and assay values over 0.1ppm (no anomalous values)

BEN16-09A (looking westerly)

Date: 18/03/2019

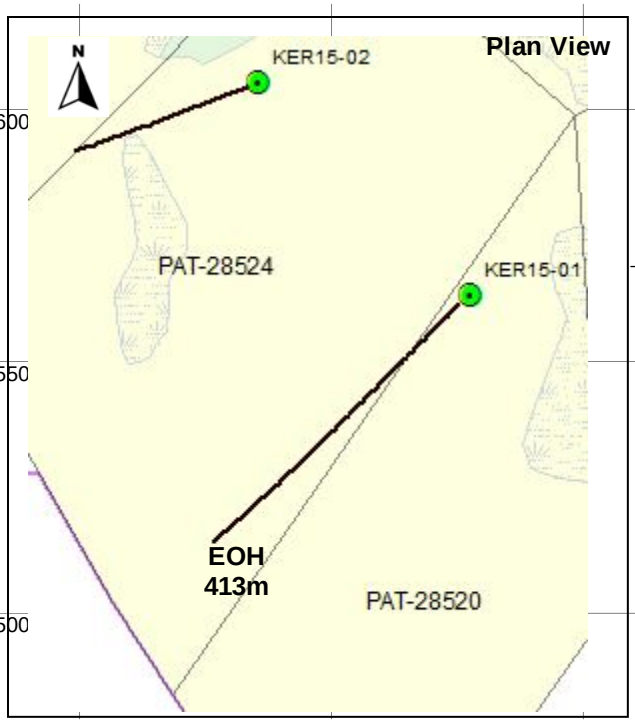
Permit PR15-10700

Claim Number: 105649, 183318

Scale: 1:2000

Projection: UTM NAD 83 ZN 17 (meters)

Drill Hole Collar Coordinates: 439142E, 5268479N



KER15-01

Dip: -50 degrees

Azimuth: 225 degrees

PAT-28524 PAT-28520

EOH 413m

5269600
5269550
5269500
5269450 mRL
5269400 mRL
5269350 mRL

5709350 mN
5709400 mN
5709450 mN
5709500 mN
5709550 mN
5709600 mN

LEGEND

- OB Overburden
- 14 Diabase
- 8 Chester Intrusives
- 8A Felsite
- 8B Granite
- 8C Tonalite
- 8D Granodiorite
- 8E Quartz Diorite
- 8F Quartz Porphyry
- 8G Feldspar Porphyry
- 8H Qtz-Feldspar Porphyry
- 8L Tonalite Breccia
- 7B Diorite
- 7C Gabbro 7Cm Melanocratic Gabbro
- 7E Lamprophyre Dike
- 6B Arenite
- 6D Greywacke
- 6E Argillite
- 5 Iron Formation
- 4 Felsic Volcanic
- 2 Mafic Volcanic
- FLTBx Fault Breccia
- FLTg Fault Zone
- MINZN
- QCV Quartz - (Carb) Vein
- QTBX Quartz Breccia
- QTCSW Qtz-Carb Stockwork
- QTSW Qtz Stockwork
- QV Quartz Vein
- SH Sheared Gabbro

IAMGOLD CORPORATION

2015- 2017 South Swayze East Drilling Report

Drill Hole Section with litho, assay histograms and assay values over 0.1ppm

KER15-01 (looking north-westerly)

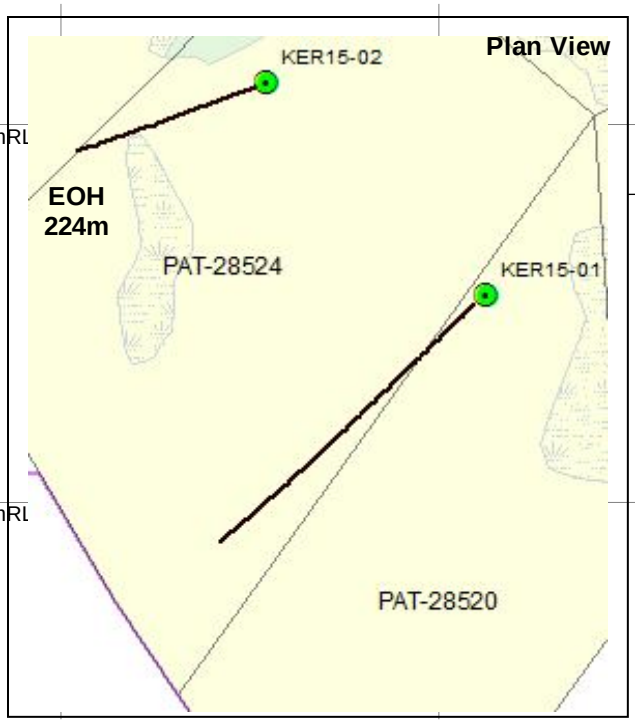
Date: 18/03/2019

Claim Number: PAT 28520 PAT-28524

Scale: 1:1500

Projection: UTM NAD 83 ZN 17 (meters)

Drill Hole Collar Coordinates: 434743E, 5269575N



KER15-02

400 mRL
350 mRL
300 mRL
250 mRL
150 mRL

OB
8D
7B
8D
7Cm
8D
50
SH
QTCSW
7B
7Cm
14B
7C
14B
100
14B
14B
150
FLTbx
QTCSW
4F
7Cm
4G
7C
4F
SH
200
4G

Dip: -46.3 degrees

Azimuth: 251 degrees

PAT-28524
41P12C021

EOH 224m

LEGEND

OB Overburden
14 Diabase
8 Chester Intrusives
8A Felsite
8B Granite
8C Tonalite
8D Granodiorite
8E Quartz Diorite
8F Quartz Porphyry
8G Feldspar Porphyry
8H Qtz-Feldspar Porphyry
8L Tonalite Breccia
7B Diorite
7C Gabbro 7Cm Melanocratic Gabbro
7E Lamprophyre Dike
6B Arenite
6D Greywacke
6E Argillite
5 Iron Formation
4 Felsic Volcanic
2 Mafic Volcanic
FLTBx Fault Breccia
FLTg Fault Zone
MINZN
QCV Quartz - (Carb) Vein
QTBX Quartz Breccia
QTCSW Qtz-Carb Stockwork
QTSW Qtz Stockwork
QV Quartz Vein
SH Sheared Gabbro

IAMGOLD CORPORATION

2015- 2017 South Swayze East Drilling Report

Drill Hole Section with litho, assay histograms and assay values over 0.1ppm

KER15-02 (looking northerly)

Date: 18/03/2019

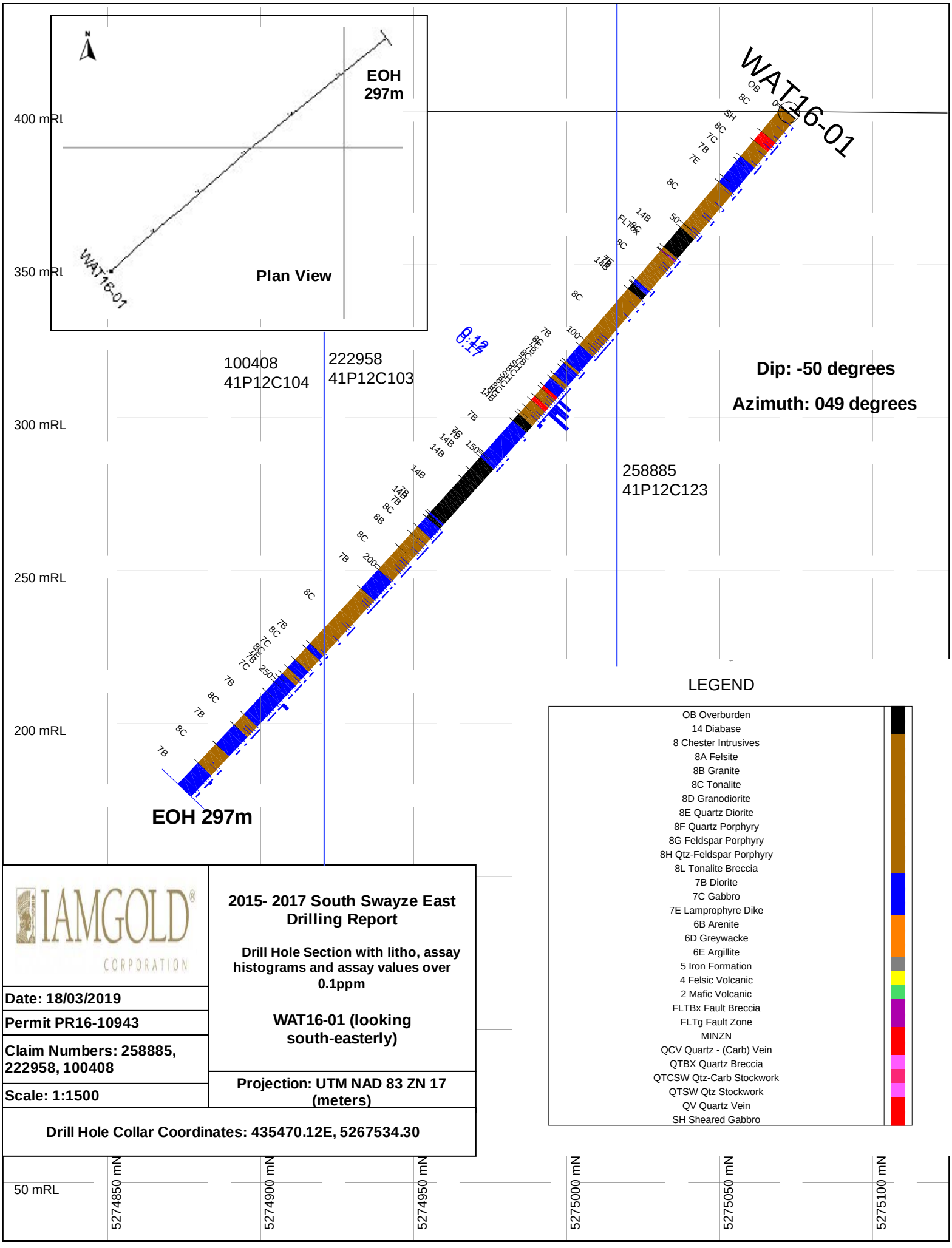
Claim Number: PAT 28524

Scale: 1:1000

Projection: UTM NAD 83 ZN 17 (meters)

Drill Hole Collar Coordinates: 434575E, 5269743N

5274850 mN
5274900 mN
5274950 mN
5275000 mN



IAMGOLD CORPORATION

2015- 2017 South Swayze East Drilling Report

Drill Hole Section with litho, assay histograms and assay values over 0.1ppm

WAT16-01 (looking south-easterly)

Date: 18/03/2019

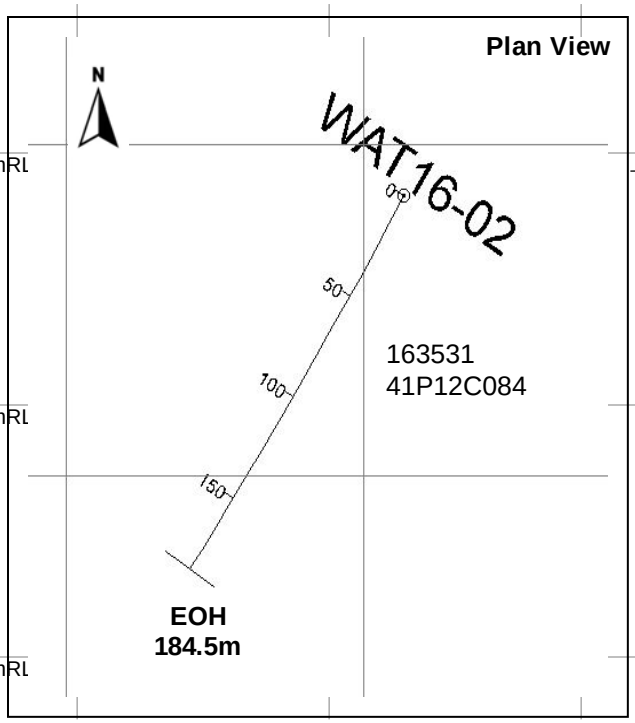
Permit PR16-10943

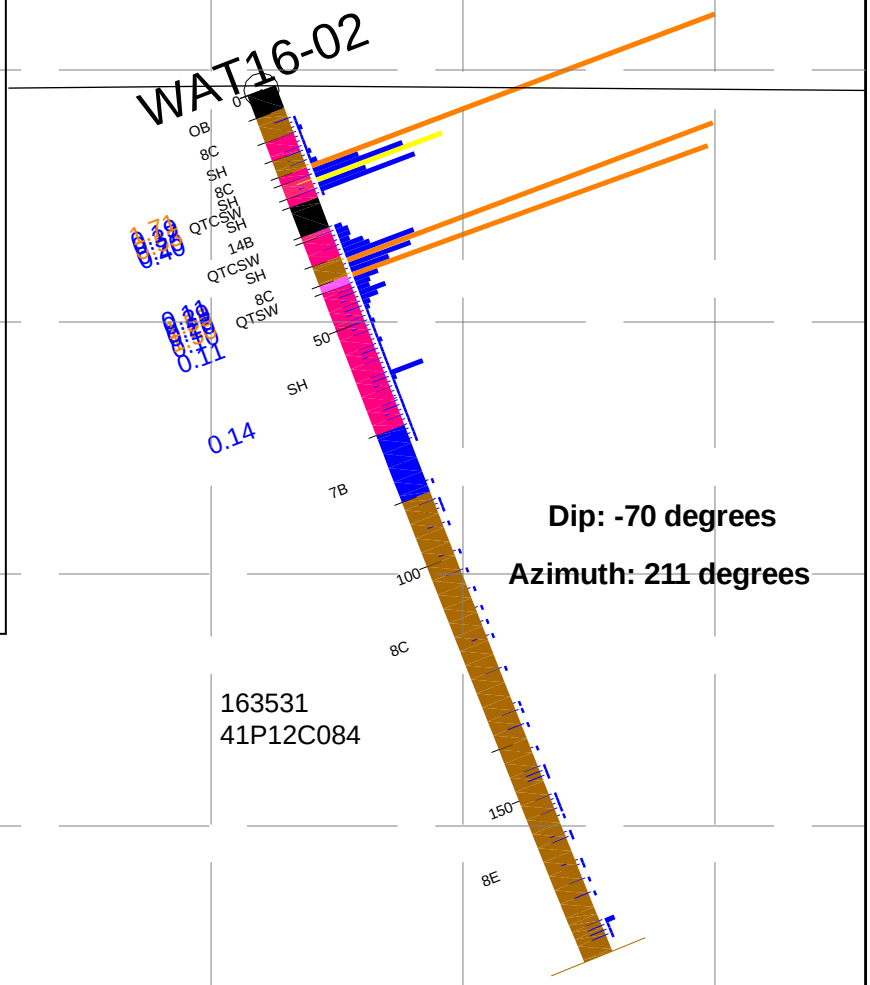
Claim Numbers: 258885, 222958, 100408

Scale: 1:1500

Projection: UTM NAD 83 ZN 17 (meters)

Drill Hole Collar Coordinates: 435470.12E, 5267534.30





400 mRL

350 mRL

300 mRL

250 mRL

200 mRL

50 mRL

LEGEND

OB Overburden
14 Diabase
8 Chester Intrusives
8A Felsite
8B Granite
8C Tonalite
8D Granodiorite
8E Quartz Diorite
8F Quartz Porphyry
8G Feldspar Porphyry
8H Qtz-Feldspar Porphyry
8L Tonalite Breccia
7B Diorite
7C Gabbro
7E Lamprophyre Dike
6B Arenite
6D Greywacke
6E Argillite
5 Iron Formation
4 Felsic Volcanic
2 Mafic Volcanic
FLTBx Fault Breccia
FLTg Fault Zone
MINZN
QCV Quartz - (Carb) Vein
QTBX Quartz Breccia
QTCSW Qtz-Carb Stockwork
QTSW Qtz Stockwork
QV Quartz Vein
SH Sheared Gabbro

EOH 413m

IAMGOLD CORPORATION

2015- 2017 South Swayze East Drilling Report

Drill Hole Section with litho, assay histograms and assay values over 0.1ppm

WAT16-02 (looking south-easterly)

Date: 18/03/2019

Permit PR16-10943

Claim Number: 163531

Scale: 1:1500

Projection: UTM NAD 83 ZN 17 (meters)

Drill Hole Collar Coordinates: 435856.77E, 5268092.30N

5274700 mN

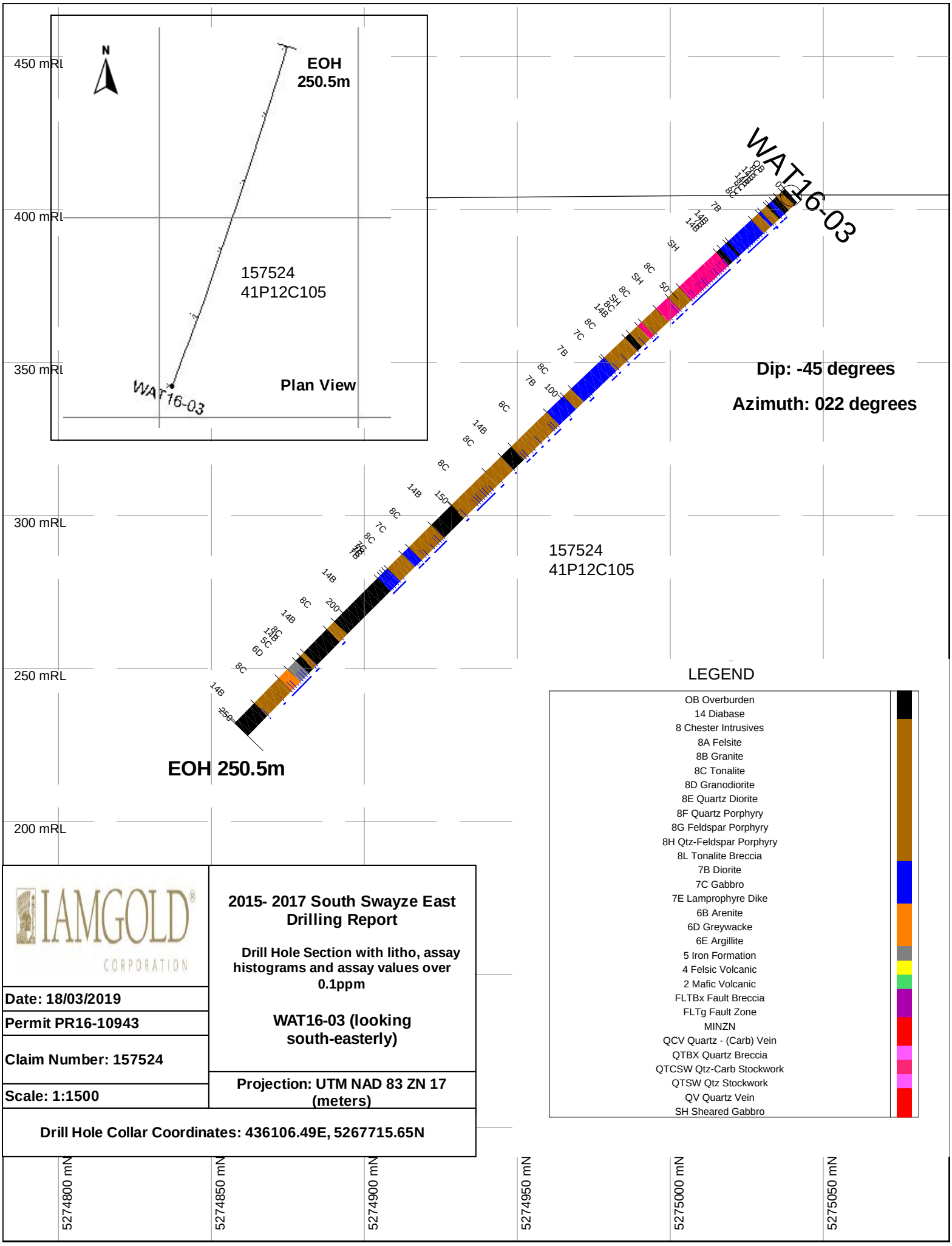
5274750 mN

5274800 mN

5274850 mN

5274900 mN

5274950 mN



IAMGOLD CORPORATION

2015- 2017 South Swayze East Drilling Report

Drill Hole Section with litho, assay histograms and assay values over 0.1ppm

WAT16-03 (looking south-easterly)

Date: 18/03/2019

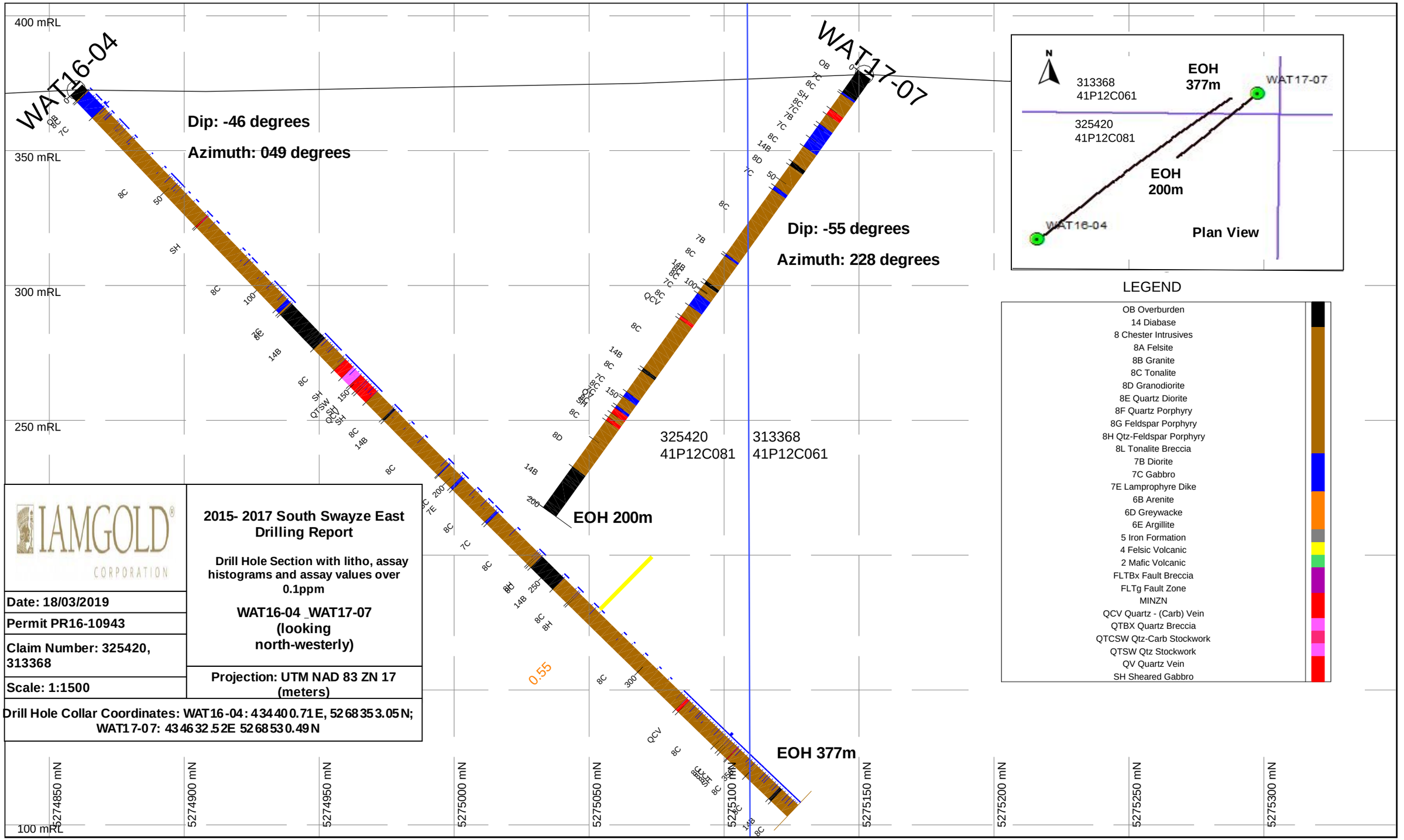
Permit PR16-10943

Claim Number: 157524

Scale: 1:1500

Projection: UTM NAD 83 ZN 17 (meters)

Drill Hole Collar Coordinates: 436106.49E, 5267715.65N



LEGEND

- OB Overburden
- 14 Diabase
- 8 Chester Intrusives
- 8A Felsite
- 8B Granite
- 8C Tonalite
- 8D Granodiorite
- 8E Quartz Diorite
- 8F Quartz Porphyry
- 8G Feldspar Porphyry
- 8H Qtz-Feldspar Porphyry
- 8L Tonalite Breccia
- 7B Diorite
- 7C Gabbro
- 7E Lamprophyre Dike
- 6B Arenite
- 6D Greywacke
- 6E Argillite
- 5 Iron Formation
- 4 Felsic Volcanic
- 2 Mafic Volcanic
- FLTBx Fault Breccia
- FLTg Fault Zone
- MINZN
- QCV Quartz - (Carb) Vein
- QTBX Quartz Breccia
- QTCSW Qtz-Carb Stockwork
- QTSW Qtz Stockwork
- QV Quartz Vein
- SH Sheared Gabbro

IAMGOLD CORPORATION

2015- 2017 South Swayze East Drilling Report

Drill Hole Section with litho, assay histograms and assay values over 0.1ppm

WAT16-04 _WAT17-07 (looking north-westerly)

Date: 18/03/2019

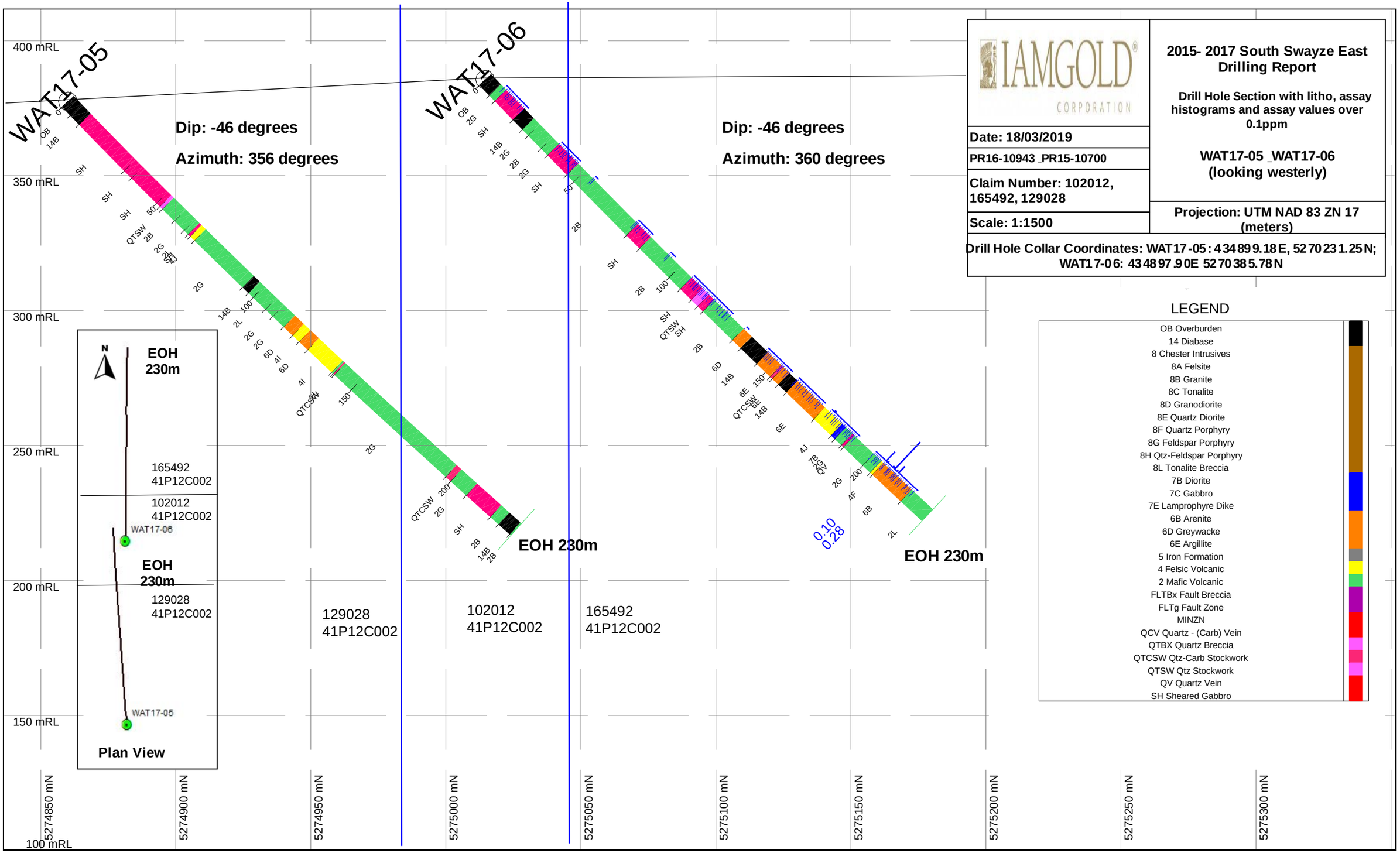
Permit PR16-10943

Claim Number: 325420, 313368

Scale: 1:1500

Projection: UTM NAD 83 ZN 17 (meters)

Drill Hole Collar Coordinates: WAT16-04: 434400.71E, 5268353.05N; WAT17-07: 434632.52E 5268530.49N



IAMGOLD CORPORATION

2015- 2017 South Swayze East Drilling Report

Drill Hole Section with litho, assay histograms and assay values over 0.1ppm

WAT17-05 _WAT17-06 (looking westerly)

Date: 18/03/2019

PR16-10943 _PR15-10700

Claim Number: 102012, 165492, 129028

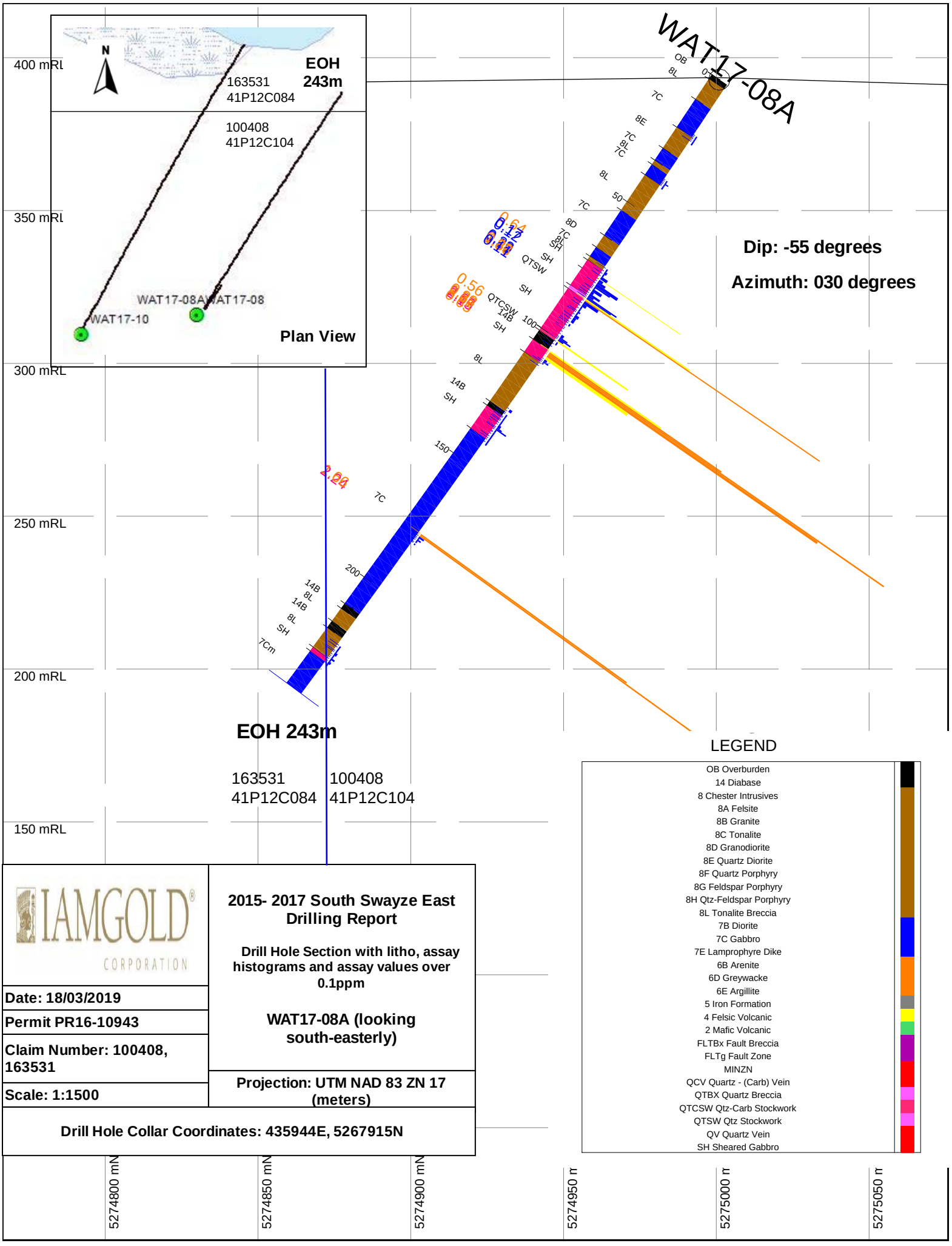
Scale: 1:1500

Projection: UTM NAD 83 ZN 17 (meters)

Drill Hole Collar Coordinates: WAT17-05 : 434899.18E, 5270231.25N; WAT17-06: 434897.90E 5270385.78N

LEGEND

- OB Overburden
- 14 Diabase
- 8 Chester Intrusives
- 8A Felsite
- 8B Granite
- 8C Tonalite
- 8D Granodiorite
- 8E Quartz Diorite
- 8F Quartz Porphyry
- 8G Feldspar Porphyry
- 8H Qtz-Feldspar Porphyry
- 8L Tonalite Breccia
- 7B Diorite
- 7C Gabbro
- 7E Lamprophyre Dike
- 6B Arenite
- 6D Greywacke
- 6E Argillite
- 5 Iron Formation
- 4 Felsic Volcanic
- 2 Mafic Volcanic
- FLTBx Fault Breccia
- FLTg Fault Zone
- MINZN
- QCV Quartz - (Carb) Vein
- QTBX Quartz Breccia
- QTCSW Qtz-Carb Stockwork
- QTSW Qtz Stockwork
- QV Quartz Vein
- SH Sheared Gabbro



LEGEND

- OB Overburden
- 14 Diabase
- 8 Chester Intrusives
- 8A Felsite
- 8B Granite
- 8C Tonalite
- 8D Granodiorite
- 8E Quartz Diorite
- 8F Quartz Porphyry
- 8G Feldspar Porphyry
- 8H Qtz-Feldspar Porphyry
- 8L Tonalite Breccia
- 7B Diorite
- 7C Gabbro
- 7E Lamprophyre Dike
- 6B Arenite
- 6D Greywacke
- 6E Argillite
- 5 Iron Formation
- 4 Felsic Volcanic
- 2 Mafic Volcanic
- FLTBx Fault Breccia
- FLTg Fault Zone
- MINZN
- QCV Quartz - (Carb) Vein
- QTBX Quartz Breccia
- QTCSW Qtz-Carb Stockwork
- QTSW Qtz Stockwork
- QV Quartz Vein
- SH Sheared Gabbro

IAMGOLD CORPORATION

2015- 2017 South Swayze East Drilling Report

Drill Hole Section with litho, assay histograms and assay values over 0.1ppm

WAT17-08A (looking south-easterly)

Date: 18/03/2019

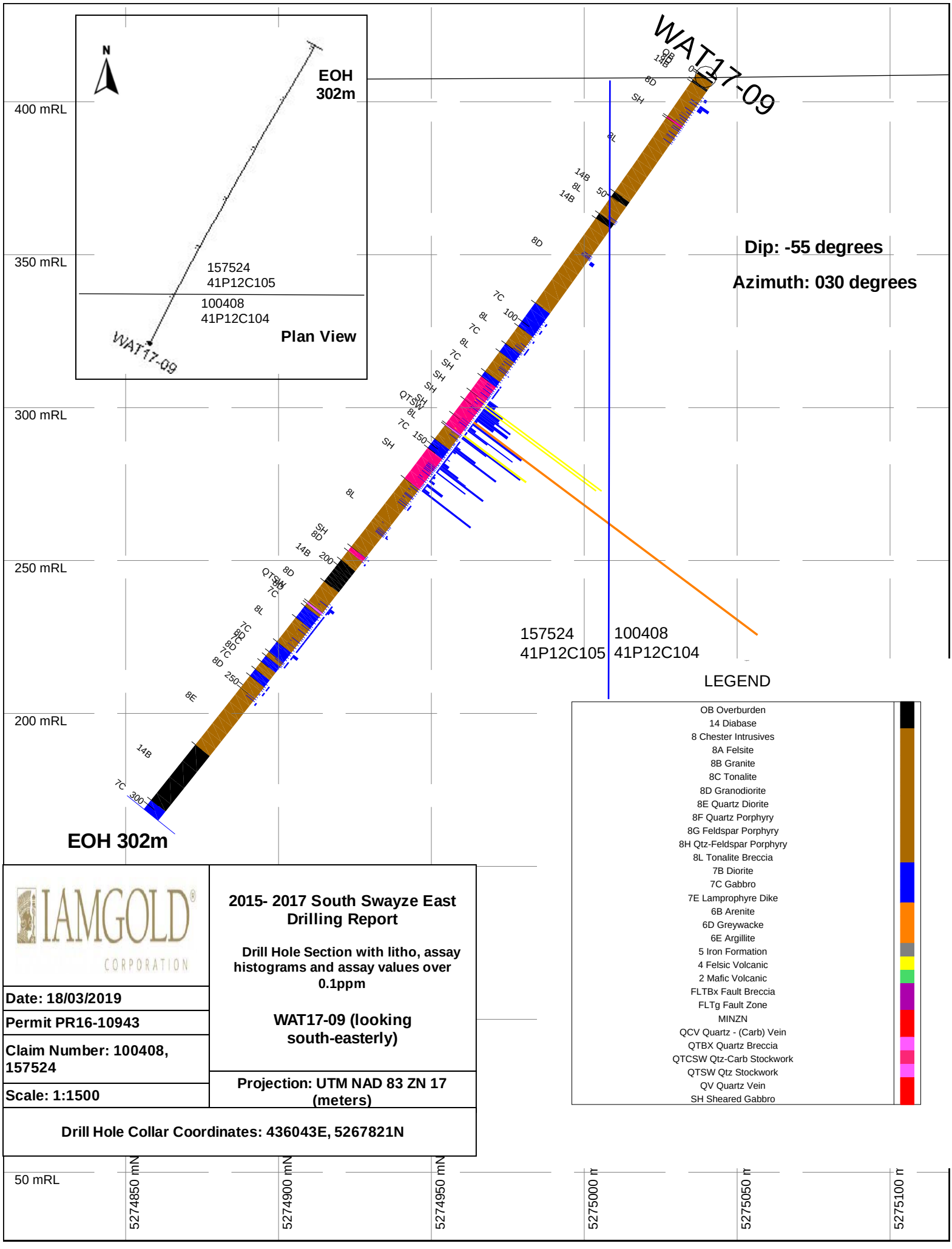
Permit PR16-10943

Claim Number: 100408, 163531

Scale: 1:1500

Projection: UTM NAD 83 ZN 17 (meters)

Drill Hole Collar Coordinates: 435944E, 5267915N



IAMGOLD CORPORATION

2015- 2017 South Swayze East Drilling Report

Drill Hole Section with litho, assay histograms and assay values over 0.1ppm

WAT17-09 (looking south-easterly)

Date: 18/03/2019

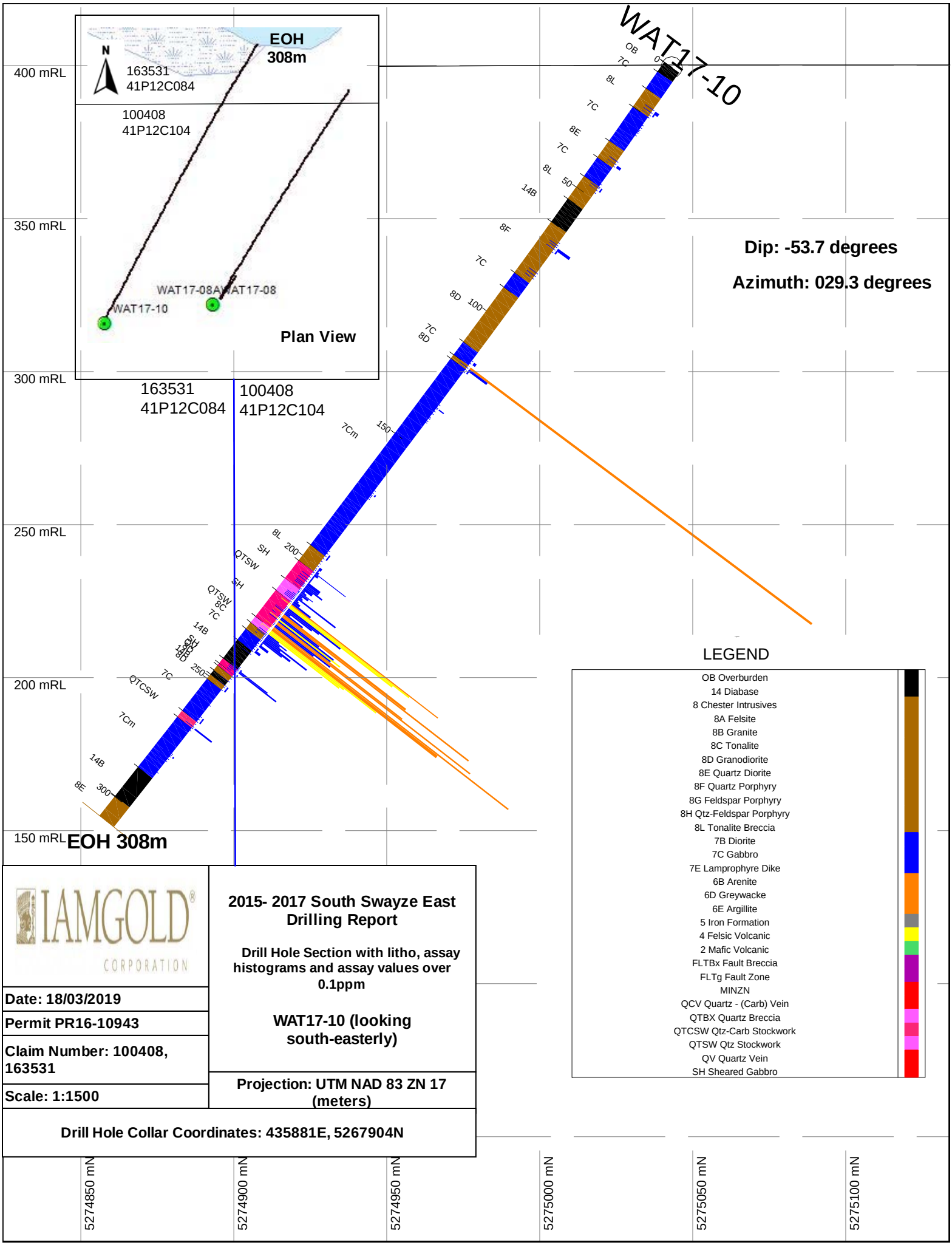
Permit PR16-10943

Claim Number: 100408, 157524

Scale: 1:1500

Projection: UTM NAD 83 ZN 17 (meters)

Drill Hole Collar Coordinates: 436043E, 5267821N



IAMGOLD CORPORATION

2015- 2017 South Swayze East Drilling Report

Drill Hole Section with litho, assay histograms and assay values over 0.1ppm

WAT17-10 (looking south-easterly)

Date: 18/03/2019

Permit PR16-10943

Claim Number: 100408, 163531

Scale: 1:1500

Projection: UTM NAD 83 ZN 17 (meters)

Drill Hole Collar Coordinates: 435881E, 5267904N

APPENDIX 6

Symbol or Abbreviation	Meaning	Symbol or Abbreviation	Meaning
#	number	BX	breccia
%	percent	BX	brecciated
//	parallel to	BXD or Bx'd	brecciated
>	greater than	BXFLT	fault breccia
<	less than	C.A.	core axis
°	degrees	ca	calcite
AB	albitization	CALA	Canadian Association of Laboratory Accreditation
ab	albite	cb	carbonate
AC	alteration of carbonate	CB	carbonatization
ACC	Acicular	cb	carbonate
adj	adjacent	CBV	carbonate vein
AFG	alteration of feldspar grains	cg	coarse grained
AG	argillic	cgr	coarse grained rock
Ag	silver	chl	chlorite
AK	ankerite	CHLV	chlorite vein
ank	ankerite	CL	chloritization
ANV	ankerite vein	CLS	clusters
AK-SID	ankerite-siderite	CLTS	clots
alt	alteration	cm	centimeter
altd	altered	Corp.	corporation
altn	alteration	cpy	chalcopyrite
amp	amphibole	cs	carbonate stringers
amph	amphibole	Cu	copper
Ang	angle	CX	crystalline
AP	aphanitic	DDH	diamond drill hole
approx or ~	approximately	DG	dark gray
ARG	argillite	DGR	dark green
Aspy	arsenopyrite	dh	down hole
assoc	associated	Direct	direction
Au	Gold	DISS/DIS	disseminated
B.Sc	bachelor of science	DRKG	dark grey
BE	beige	DYK	dyke
BED	bedding	Elev.	elevation
BEGR	beige-green	ep	epidote
bi	biotite	EP	epidotization
BIO	biotization	EQ	equigranular
bio	biotite	EV	epidote vein
BLB	blebs	FAC	fracture controlled
BLK	Black	FACV	Fracture fill vein
BLKDIA	blank diabase	fd	feldspar
BNDS	bands/banded	Fe	iron
BO	boudinaged	Fe-Carb	Iron-Carbonate
BR	brown	Fecb	iron carbonate

Symbol or Abbreviation	Meaning	Symbol or Abbreviation	Meaning
feld	feldspar	km	kilometer
fg	fine grained	KSPAR	potassic feldspar
fgr	fine grained rock	LAM	laminated
FLD	folded	LCT	lithological contact
FLT	fault	LG	light gray
FLTD	faulted	LGR	light green
FLTZN	fault zone	loc	local
FOL	foliated	Ltd.	limited
FOL	along foliation	LX	Leucoxene
foln	foliation	m	meter
FP	feldpar porphyritic	M	medium
fracs	fractures	mag	magnetism
frc	fracture	MAG	magnetite
FRC	along fractures	Mag. Fie.	magnetic field
FRG	fragments	Maj	major
frgs or frags	fragments	MAS	massive
FU	fuchsite	MET	metasomatized
g/t	grams per tonne	mfc	mafic
GG	green-grey	MFCV or MFCVOL	mafic volcanic
GM	groundmass	mg	medium grained
GR	green	mg/MG	medium grained
graph	graphite	mgr	medium grained rock
GRBLK	green black	min	mineralization
GREBL	green-blue	mm	milimeter
GREBLK	green black	Mnr	minor
GREG	greenish gray	mod	moderate/ moderately
GRN-BLK	green-black	ms	moderate to strong
GY	gray	msv	massive
hem	hematite	MTC	marginal to contacts
HM	hematization	MTV	marginal to veins
Hons	honours	mus	muscovite
IEC	Internation Electrotechnical Commission	MV	mafic volcanic
IM	mafic intrusive	MX or MTX	matrix
IMDIA	diabase	NE	northeast
inc	increased	NET	net Textured
Inc.	incorporated	NTS	National Topographic System
Inte	intensity	Numb	number
Inter	interval	nvs	no visible sulphides
irreg	irregular	NW	northwest
IS	Interstitial	OB	overburden
ISO	International Standards Organization	P.Geo	professional geologist

Symbol or Abbreviation	Meaning	Symbol or Abbreviation	Meaning
perv	pervasive	Ser	sericite
PG	pegmatitic	sh	sheared
phenos	phenocrysts	SHRD	sheared
PI	pink	shring	shearing
PIL	pillowed	shrp	sharp
plag	plagioclase	SHRZN	shear zone
PO	porphyritic	SI	silicification
po	pyrrhotite	sil	silica
porp	porphyritic	sil	silicified
poss	possibly	SP	along shear planes
ppm	parts per million	sp	sphalerite
PV	Pervasive	Sph	sphalerite
py	pyrite	SPHV	sulphide vein
QBV	quartz-biotite vein	spks	speckles
QCB	quartz-carbonate	SPT	spotty/patchy
QChls	quartz-chlorite stringer	SPV	semi-pervasive
QCHLV	quartz-chlorite vein	SR	sericitization
qcs	quartz carbonate stringers	sr or ser	sericite
QCtourmV	quartz-carbonate-tourmaline vein	STG	stringer(s)
QCV	quartz-carbonate vein	Struct	structure
QCV	quartz calcite vein	STWV	stringers with vein
qe	quartz eyes	su	survey
QFP	quartz feldspar porphyry	thght	throughout
qfs	quartz felspar	tr	trace
QICV	quartz-iron carbonate vein	trm	tourmaline
qs	quartz stringer	und	undulating
QTCS	quartz (-carbonate) stockwork	UTM	Universal Transverse Mercator
QtourmSV	quartz-tourmaline-sulphide vein	v.fgr	very fine grained rock
QtourmV	quartz-tourmaline vein	v.weak	very weak
qtz	quartz	vfg	very fine grained
QV	quartz vein	VLF-EM	very low frequency electro-magnetic
RB	rubble	vn	vein
REBR	red-brown	VN	vein/ vein controlled
s	strong	vning	veining
SAUSS	saussuritization	VNLT	veinlet
SCC	Standards Council of Canada	vnlts	veinlets
SCH	schistose	vns	veins

Symbol or Abbreviation	Meaning
volcs	volcanics
vwk	very weak
w	with
W	weak
w/	with
WH	white
wk	weak
wm	weak to moderate
wr	wallrock
x	multiples of
xcutting	cross-cutting
x-cutting	cross-cutting
xls	crystals
xtls	crystals

APPENDIX 7

DDH	Depth (3814 Total) (meters)	Mob/Demob ($22,566 Total)	Drilling ($87.37/m)	Supervision (Senior Geologist) $500/day @ ~200m drilling/day	Logging Core (Senior Geologist) $500/day @ ~100m/day	Logging Core (Junior Geologist) $250/day @ ~100m/day	RQD $200/day @ ~100m/day	Cutting and Sampling Core $200/day @ ~100 samples/day each cut & sample	# Samples (Au, ICP & WRA) (2089 total)	Core Assays ($34.16/sample)	Days Spent @ Cote Gold camp (Geos & Techs)	Lodging& Meals ($120/day)	Assessment Report $500/day (8 Days)	GIS $400/day (4 Days)	Actual Cost Totals	Adjusted Credit based on date performed
BEN16-09 (abandoned)	20	$143	$1,718	$50	$ -	$ -	$ -	$ -	0	$ -					$1,911	$955
BEN16-09A	506	$3,609	$46,330	$1,265	$2,530		$ 1,012.00	$ 1,320.00	330	$9,663	10	$1,200			$66,929	$33,464
Totals BEN16-09		$3,752	$48,048	$1,315	$2,530		$ 1,012.00	$ 1,320.00	330	$9,663	10	$1,200			**$68,839**	$34,420
Adjusted Totals		**$1,876**	**$24,024**	**$658**	**$1,265**		**$ 506.00**	**$ 660.00**		**$4,832**	**5**	**$600**	$571	$229		**$35,220**
KER15-01	413	$3,397	$35,821	$1,033	$2,065		$ 826.00	$ 776.00	194	$2,097	12	$1,440			$47,455	$23,727
KER15-02	224	$1,843	$19,237	$560	$1,120		$ 448.00	$ 336.00	84	$4,629	6	$720			$28,893	$14,447
WAT16-01	297	$2,443	$23,182	$743		$743	$ 594.00	$ 556.00	139	$2,811	9	$1,080			$32,151	$16,075
WAT16-02	184.5	$1,517	$17,798	$461		$461	$ 369.00	$ 436.00	109	$3,885	6	$720			$25,647	$12,823
WAT16-03	250.5	$2,061	$20,941	$626		$626	$ 501.00	$ 436.00	109	$2,083	7	$840			$28,114	$14,057
WAT16-04	377	$3,101	$35,758	$943		$943	$ 754.00	$ 708.00	177	$3,745	11	$1,320			$47,272	$23,636
Totals (2015-2016, excluding BEN16-09A)		**$14,362**	**$152,736**	**$4,365**	**$3,185**	**$2,773**	**$ 3,492.00**	**$ 3,248.00**		**$19,251**		**$6,120**			**$209,531**	**$104,766**
WAT17-05	230	$664	$19,752	$575	$1,150		$ 460.00	$ 784.00	196	$7,216	9	$1,080			$31,682	$31,682
WAT17-06	230	$664	$19,752	$575	$1,150		$ 460.00	$ 696.00	174	$6,456	8	$960			$30,713	$30,713
WAT17-07	200	$577	$17,176	$500	$1,000		$ 400.00	$ 440.00	110	$4,669	6	$720			$25,482	$25,482
WAT17-08 (abandoned)	29	$84	$2,491	$73					0			$0			$2,647	$2,647
WAT17-08A	243	$702	$20,869	$608	$1,215		$ 486.00	$ 436.00	109	$5,686	7	$840			$30,841	$30,841
WAT17-09	302	$872	$25,936	$755	$1,510		$ 604.00	$ 820.00	205	$10,570	10	$1,200			$42,267	$42,267
WAT17-10	308	$889	$26,451	$770	$1,540		$ 616.00	$ 612.00	153	$7,858	9	$1,080			$39,816	$39,816
Totals (2017)		**$4,452**	**$132,427**	**$3,855**	**$7,565**		**$ 3,026.00**	**$ 3,788.00**		**$42,455**		**$5,880**	**$3,429**	**$1,371**	**$208,248**	**$208,248**
Totals(excludes BEN16-09/A)		$33,176	$437,899	$ 12,585.00	$13,935	$2,773	$ 10,010.00	$ 10,284.00	1,759	$80,956	100	$18,120			**$417,779**	
Adjusted Totals		**$11,633**	**$208,795**	**$6,038**	**$9,158**	**$1,386**	**$4,772**	**$5,412**		**$52,080**		**$8,940**	**$3,429**	**$1,371**		**$313,013**
														Total:	**$486,618**	**$348,233**

Drill Hole	Start Date	End Date	Depth	Total Cost per DDH	Claim #	% of drilling	$ per ddh/claim	% credited
BEN16-09	21/10/16	21/10/16	20	$1,911	183318	1	$1,911	$955
BEN16-09A	21/10/16	26/10/16	506	$66,929	183318	0.07	$4,685	$2,343
					105649	0.93	$62,244	$31,122
KER15-01	09/12/15	13/12/15	413	$47,455	PAT-28520	0.21	$9,966	$4,983
					PAT-28524	0.79	$37,489	$18,745
KER15-02	13/12/15	14/12/15	224	$28,893	PAT-28524	1	$28,893	$14,447
WAT16-01	27/11/16	01/12/16	297	$32,151	258885	0.26	$8,359	$4,180
					222958	0.53	$17,040	$8,520
					100408	0.21	$6,752	$3,376
WAT16-02	01/12/16	03/12/16	184.5	$25,647	163531	1	$25,647	$12,823
WAT16-03	04/12/16	11/12/16	250.5	$28,114	157524	1	$28,114	$14,057
WAT16-04	30/11/16	04/12/16	377	$47,272	325420	0.88	$41,599	$20,800
					313368	0.12	$5,673	$2,836
WAT17-05	17/04/17	19/04/17	230	$31,682	129028	0.74	$23,444	$23,444
					102012	0.26	$8,237	$8,237
WAT17-06	19/04/17	21/04/17	230	$30,713	102012	0.21	$6,450	$6,450
					165492	0.79	$24,263	$24,263
WAT17-07	08/04/17	10/04/17	200	$25,482	313368	0.32	$8,154	$8,154
					325420	0.68	$17,328	$17,328
WAT17-08	12/11/17	12/11/17	29	$2,647	100408	1	$2,647	$2,647
WAT17-08A	12/11/17	14/11/17	243	$30,841	100408	0.92	$28,374	$28,374
					163531	0.08	$2,467	$2,467
WAT17-09	14/11/17	17/11/17	302	$42,267	100408	0.17	$7,185	$7,185
					157524	0.83	$35,081	$35,081
WAT17-10	17/11/17	19/11/17	308	$39,816	100408	0.77	$30,658	$30,658
					163531	0.23	$9,158	$9,158
						Total:	**$481,818**	**$342,633** *

** work performed more than 2 years ago, will be credited @ 50%

Claim #	Actual Cost per claim	Adjusted Credit/Claim	Report Writing (8 days)	GIS (4 days)	Totals	Ownership
183318	$6,596	$3,298	$286	$114	$3,698	986813 Ontario Ltd. (70%) & SMM COTE GOLD INC (30%)
105649	$62,244	$31,122	$286	$114	$31,522	986813 Ontario Ltd. (70%) & SMM COTE GOLD INC (30%)
PAT-28520	$9,966	$4,983	$286	$114	$5,383	TREELAWN GROUP INC. (7.5%, IAMGOLD (64.75%), SMM COTE GOLD INC (27.75%)
PAT-28524	$66,382	$33,191	$286	$114	$33,591	TREELAWN GROUP INC. (7.5%, IAMGOLD (64.75%), SMM COTE GOLD INC (27.75%)
258885	$8,359	$4,180	$286	$114	$4,580	IAMGOLD (70%) & SMM COTE GOLD INC (30%)
222958	$17,040	$8,520	$286	$114	$8,920	IAMGOLD (70%) & SMM COTE GOLD INC (30%)
100408	$75,616	$72,240	$286	$114	$72,640	IAMGOLD (70%) & SMM COTE GOLD INC (30%)
163531	$37,272	$24,448	$286	$114	$24,848	IAMGOLD (70%) & SMM COTE GOLD INC (30%)
157524	$63,196	$49,139	$286	$114	$49,539	IAMGOLD (70%) & SMM COTE GOLD INC (30%)
325420	$58,927	$38,127	$286	$114	$38,527	IAMGOLD (70%) & SMM COTE GOLD INC (30%)
313368	$13,827	$10,991	$286	$114	$11,391	IAMGOLD (70%) & SMM COTE GOLD INC (30%)
129028	$23,444	$23,444	$286	$114	$23,844	IAMGOLD (70%) & SMM COTE GOLD INC (30%)
102012	$14,687	$14,687	$286	$114	$15,087	IAMGOLD (70%) & SMM COTE GOLD INC (30%)
165492	$24,263	$24,263	$286	$114	$24,663	IAMGOLD (70%) & SMM COTE GOLD INC (30%)
Total:	$481,818	$342,633	$4,000	$1,600	**$348,233**	

(including report writing/GIS)

SUBMISSIONS SUMMARY (2 Submissions based on Ownership)	
Totals:	Ownership
$35,220	986813 Ontario Ltd. (70%) & SMM COTE GOLD INC (30%)
$313,013	IAMGOLD (70%) & SMM COTE GOLD INC (30%)/Treelawn Group,IAMGOLD,SMM COTE GOLD
$348,233	**Total**

* total excludes Report writing/GIS amounts

Summary of Drill Contractor Invoices

Drill Hole	Dates	Contractor	Invoice Number	Invoice Date	Total	Activity
BEN16-09A	Oct 21 to Oct 26, 2016	Laframboise Drilling	160986	11/01/2016	$3,752	MOB/De-MOB
BEN16-09	21-Oct-16	Laframboise Drilling	160986	11/01/2016	$1,718	Drilling
BEN16-09A	Oct 21, 2016 to Oct 26, 2016	Laframboise Drilling	160986	11/01/2016	$46,330	Drilling
KER15-01	Dec 9 to Dec 13, 2015	Laframboise Drilling	160961	19/12/2015	$35,821	Drilling
KER15-02	Dec 13 to Dec 14, 2015	Laframboise Drilling	160961	19/12/2015	$19,237	Drilling
		Laframboise Drilling	160962	19/12/2015	$10,407	MOB/De-MOB
WAT16-01	Nov 27 to Nov 30, 2016	Chenier Drilling Services	304	05/12/2016	$23,182	Drilling
WAT16-02	Dec 1 to Dec 3, 2016	Chenier Drilling Services	307	15/12/2016	$17,798	Drilling
WAT16-03	Dec 4 to Dec 11, 2016	Chenier Drilling Services	307	15/12/2016	$20,941	Drilling
	13-Dec-16	Chenier Drilling Services	307	15/12/2016	$3,955	MOB/De-MOB
WAT16-04	Nov 30 to Dec 4, 2016	Laframboise Drilling	106992	12/05/2016	$35,758	Drilling
WAT17-05	April 17 to 19th, 2017	Laframboise Drilling	160995	4/24/2017	$19,752	Drilling
WAT17-06	April 19 to 21, 2017	Laframboise Drilling	160995	4/24/2017	$19,752	Drilling
WAT17-07	April 8 to 10, 2017	Laframboise Drilling	160995	4/24/2017	$17,176	Drilling
		Laframboise Drilling	160995	4/24/2017	$1,130	MOB/De-MOB
WAT17-08	November 12, 2017	Laframboise Drilling	161017	11/22/2017	$2,491	Drilling
WAT17-08A	Nov 12 to 14, 2017	Laframboise Drilling	161017	11/22/2017	$20,869	Drilling
WAT17-09	Nov 14 to 17th, 2017	Laframboise Drilling	161017	11/22/2017	$25,936	Drilling
WAT17-10	Nov 17th to 19th, 2017	Laframboise Drilling	161017	11/22/2017	$26,451	Drilling
	20-Nov-17	Laframboise Drilling	161017	11/22/2017	$3,322	MOB/De-MOB
			Totals:	Drilling	**$333,211**	
				MOB/De-MOB	**$22,566**	

Totals:	Drilling	**$333,211**
BEN16-09A	Drilling	$48,048
2015-2016	Drilling	$152,736
2017	Drilling	$132,427
Totals:	MOB/De-MOB	**$22,566**
BEN16-09A	MOB/De-MOB	$3,752
2015-2016	MOB/De-MOB	$14,362
2017	MOB/De-MOB	$4,452

Summary of Laboratory Invoices

Drill Hole	Quantity	Lab	Invoice Number	Invoice Date	Total	Analysis
BEN16-09/A	44	AGAT	17411619	29/09/2017	$721	Au FA
	330	Actlabs	A16-12700	07/12/2016	$8,942	ICP& Au FA
KER15-01 & KER15-02	6	SGS	10941900	25/02/2016	$154	WRA
KER15-02	84	SGS	10943259	29/02/2016	$1,943	Au FA
KER15-01 & KER15-02	5	SGS	10945175	09/03/2016	$128	WRA
KER15-01	194	SGS	10940395	19/02/2016	$4,501	Au FA
WAT16-01	139	Actlabs	A16-13640	15/02/2017	$2,811	ICP& Au FA
WAT16-02	109	Actlabs	A16-13774	17/02/2017	$3,885	ICP& Au FA
WAT16-03	109	Actlabs	A16-13777	17/02/2017	$2,083	ICP& Au FA
WAT16-04	177	Actlabs	A17-00275	13/02/2017	$3,745	ICP& Au FA
WAT17-05	196	Actlabs	A17-04541	19/06/2017	$7,216	ICP& Au FA
WAT17-06	174	Actlabs	A17-04917	19/06/2017	$6,456	ICP& Au FA
WAT17-07	110	Actlabs	A17-04363	08/06/2017	$4,669	ICP& Au FA
WAT17-08	109	AGAT	18446700M	23/01/2018	$5,686	ICP& Au FA
WAT17-09	205	AGAT	18446511M	23/01/2018	$10,570	ICP& Au FA
WAT17-10	153	AGAT	18445956	19/01/2018	$7,858	ICP& Au FA
				Total:	**$71,368**	

Totals:	Assays	**$71,368**
BEN16-09A	Assays	$9,663
2015-2016	Assays	$19,251
2017	Assays	$42,455

Cost Details: IAMGOLD (70%) & SMM GOLD COTE INC (30%)					
Expense	Start Date	End Date	Unit	Actual Cost	Adjusted Cost
Drilling (1746m)	09/12/2015	04/12/2016	87.48/m	$152,736	$76,368
Drilling (1542m)	17/04/2017	19/11/2017	85.88/m	$132,427	$132,427
Mob/DeMob	08/12/2015	05/12/2016		$14,362	$7,181
Mob/DeMob	16/04/2017	20/11/2017		$4,452	$4,452
Drilling Campaign Supervision (Senior Geologist)	08/12/2015	05/12/2016	$500/day	$4,365	$2,183
Drilling Campaign Supervision (Senior Geologist)	17/04/2017	20/11/2017	$500/day	$3,855	$3,855
Drill Core Logging (Senior Geologist)	11/01/2016	22/01/2016	$500/day	$3,185	$1,593
Drill Core Logging (Senior Geologist)	18/04/2017	01/12/2017	$500/day	$7,565	$7,565
Drill Core Logging (Junior Geologist)	30/11/2016	15/12/2016	$250/day	$2,773	$1,386
RQD (Geological Technician)	09/12/2015	08/12/2016	$200/day	$3,492	$1,746
RQD (Geological Technician)	18/04/2017	23/11/2017	$200/day	$3,026	$3,026
Core Cutting & Sampling (Technician)	18/01/2016	19/12/2016	$200/day	$3,248	$1,624
Core Cutting & Sampling (Technician)	21/04/2017	05/12/2017	$200/day	$3,788	$3,788
Assessment Report Writing (Senior Geologist)	12/03/2019	21/03/2019	$500/day	$3,429	$3,429
GIS work	12/03/2019	15/03/2019	$400/day	$1,371	$1,371
Drill Core Assays (812)	29/01/2016	13/02/2017	23.71/sample	$19,251	$9,625
Drill Core Assays (947)	19/06/2017	21/02/2018	44.83/sample	$42,455	$42,455
Lodging & Meals	08/12/2015	15/12/2016	$120/day	$6,120	$3,060
Lodging & Meals	17/04/2017	23/11/2017	$120/day	$5,880	$5,880
			Totals:	$417,779	$313,014

Cost Details: 986813 Ontario Ltd. (70%) & SMM GOLD COTE INC (30%)					
Expense	Start Date	End Date	Unit	Actual Cost	Adjusted Cost
Drilling (526m)	21/10/2016	26/10/2016	91.34/m	$48,048	$24,024
Mob/DeMob	20/10/2016	27/10/2016		$3,752	$1,876
Drilling Campaign Supervision (Senior Geologist)	21/10/2016	27/10/2016	$500/day	$1,315	$658
Drill Core Logging (Senior Geologist)	24/10/2016	29/10/2016	$500/day	$2,530	$1,265
RQD (Geological Technician)	22/10/2016	27/10/2016	$200/day	$1,012	$506
Core Cutting & Sampling (Technician)	30/10/2016	08/11/2016	$200/day	$1,320	$660
Assessment Report Writing (Senior Geologist)	12/03/2019	21/03/2019	$500/day	$571	$571
GIS work	12/03/2019	15/03/2019	$400/day	$229	$229
Drill Core Assays (330)	06/12/2016	29/09/2017	29.28/sample	$9,663	$4,832
Lodging & Meals	21/10/2016	27/10/2016	$120/day	$1,200	$600
			Totals:	$69,640	$35,220