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**Report on 2015 Mechanized Stripping,
Geological Mapping and Channel Sampling
Clam Lake Property
Yeo Township
Porcupine Mining Division
Gogama, Ontario Canada**

Trelawney Mining & Exploration Inc.

**Mining Claim:
4241016**

**NTS: 41 P/12
DATUM: NAD83 UTM ZONE 17T**

Brian Tomczuk, B.Sc, P.Geo

April 18, 2016

TABLE OF CONTENTS

- 1.0 Summary
- 2.0 Introductions
 - 2.1 Purpose of this Report
 - 2.2 Trelawney Mining & Exploration Inc. Program – Overview
- 3.0 Property Description, Accessibility, Climate and Physiography
 - 3.1 Property Description
 - 3.2 Trelawney Mining & Exploration Incorporated – Sanatana Resources Clam Lake Property Agreement
 - 3.3 Accessibility
 - 3.4 Climate
 - 3.5 Physiography
- 4.0 Geological Setting
 - 4.1 Regional Setting
 - 4.2 Property Geology
 - 4.3 Deposit Types
- 5.0 Previous Exploration By Others
 - 5.1 Exploration Summary
 - 5.2 Previous Exploration Work
 - 5.2.1 Regional
 - 5.2.2 Property
- 6.0 Previous Exploration Work By Trelawney Mining & Exploration
 - 6.1 Exploration Summary
 - 6.2 Previous Exploration Work
- 7.0 2015 Mechanical Stripping, Mapping and Sampling Program
 - 7.1 Details of Work Performed
 - 7.2.1 Site Selection and Preparation
 - 7.2.2 Tree Removal
 - 7.2.3 Mechanized Stripping and Overburden Removal
 - 7.2.4 Power Washing
 - 7.2.5 Geological Mapping
 - 7.2.6 Channel Cutting and Sampling

8.0 Analytical Methods & QA/QC

- 8.1 Summary
- 8.2 Sample Prep
- 8.3 Gold Analysis
- 8.4 Multi-Element Analysis

9.0 Results

- 9.1 Summary
- 9.2 Lithological Descriptions
- 9.3 Alteration
- 9.4 Veining
- 9.5 Mineralization
- 9.6 Structure
- 9.7 Geochemistry
 - 9.7.1 Gold
 - 9.7.2 Multi-Element

10.0 Conclusions

11.0 Recommendations

12.0 References

Statement of Qualifications

List of Abbreviations

FIGURES

Figure 1 - Clam Lake Property Location Map

Figure 2- Clam Lake Property Claim Map with Location of Mechanized Stripping

Figure 3 – Property Location within the Abitibi Greenstone Belt

Figure 4 - Regional Geology Map with Location of Clam Lake Property

TABLES

Table 1: Summary of claim details for the Clam Lake Property

Table 2: Côté Gold NI 43-101 Compliant Resource Estimate

Table 3:	Listing of selected data compilations pertaining to the project area
Table 4:	Summary of historical exploration work on the Clam Lake Property
Table 5:	Summary of Exploration Work Performed by Trelawney Mining & Exploration
Table 6:	Summary of personnel involved with the 2015 mechanized stripping of the Hava Deformation Zone
Table 7:	Summary of sample shipment details
Table 8:	Elemental correlations with Gold Mineralization

APPENDICES

Appendix 1:	Hava Deformation Zone – Detailed Outcrop Map with Structural Measurements - 1:150
Appendix 2:	Hava Deformation Zone – Channel Sample Location Map - 1:150
Appendix 3:	Individual Channel Sample Descriptions
Appendix 4:	Gold Assay - Actlabs Certificates
Appendix 5:	Multi-Element - Actlabs Certificates
Appendix 6:	Quality Control – Quality Assurance Charts for Standards and Blanks

1.0 SUMMARY

The Clam Lake project area is located 160km south of Timmins, Ontario and 180km north of Sudbury, Ontario in Chester and Yeo Townships. The main access to the property is by vehicle via Highway 144 to the Sultan Industrial Rd. intersection. Heading west on the Sultan Industrial Rd. until you reach Chester Rd. (logging) where you will head north and on to the property. The Clam Lake Property consists of 19 units in 8 unpatented mining claims covering 222.88 ha and is currently 100% registered under Trelawney Mining & Exploration.

The project is located in the Swayze Greenstone Belt (SGB) which is the southern portion of the Abitibi Greenstone Belt along the Ridout Deformation Zone which has been inferred as the western extension of the Cadillac-Larder Lake Fault Zone. The project is situated in the 2740 Ma Chester Intrusive Complex (CIC) which is host to the low-grade bulk tonnage Côté Gold intrusion related deposit also owned by Trelawney Mining & Exploration. The majority of the property lies within the intrusive suite rocks of the CIC and bounded by the felsic to intermediate metavolcanic rocks of the SGB to the north.

Prospecting for gold dates back to the turn of the 20th century and was focused mainly around Chester township and proximal areas. It wasn't until the early 1930's with the spectacular discovery of native gold on the eastern shore of Three Duck Lakes did the area see such a massive influx of prospectors and the beginning of established mining companies. Exploration in the area continued intermittently throughout the years. Trelawney acquired the property in 2010 and conducted grassroots surface sampling programs and a ground magnetic and IP/res survey. Shortly after IAMGOLD's takeover of Trelawney in June of 2012, the property was subjected to more rigorous and systematic exploration. Property wide grid mapping and sampling followed by diamond drilling campaigns led to the discovery of prospective gold bearing structures, which include the Hava Deformation Zone (HDZ). The HDZ is roughly east-west striking ductile high strain zone hosting high grade gold in quartz +/- carbonate veins. It had been discovered solely through diamond drilling with no surface expression before the 2015 mechanized stripping program.

Trelawney personnel began delineating the potential up dip expression of the HDZ on surface based on drilling intersections and along with various contactors, began to mechanically strip and ultimately uncover the zone at surface. Program duration was from late July to late September 2015, working sporadically throughout that time.

A detailed mapping exercise commenced and subsequent channel sampling sent a total of 171 samples to Actlabs in Sudbury, Ontario for fire assay as well as selective multi-element geochemical analysis. Detailed mapping of the mechanically-stripped area revealed an east-west striking, sub-vertically dipping highly strained zone of mylonitization – the Hava Deformation Zone (HDZ). The HDZ is hosted between relatively undeformed intrusive tonalite breccia in the foot wall and a quartz diorite unit in the hanging wall. The HDZ is host to multiple generations of quartz +/- carbonate veins sub parallel to parallel the foliation with varying degrees of deformation. Gold grade ranges from below detections limits to 103.0 g/t within the mylonite and vein sets.

Assay results from the channel samples were very encouraging as they correlated with the gold values returned from previous drilling and it verified that the zone was open in both east and west directions. Diamond drilling campaigns completed over the course of November 18, 2013 to October 22, 2015 are reported in a separate report which is currently in press at the time of this publication. Based on these results further exploration work is warranted for the Clam Lake Property in particular

the Hava Deformation Zone. Deciphering, among other things, the structural evolution and subsequent gold deposition of the HDZ would be beneficial as the information could be used as a proxy for other prospective exploration targets throughout the area

2.0 INTRODUCTION

2.1 PURPOSE OF THE REPORT

This report describes program details and results of the mechanical stripping on the Clam Lake Property performed by Trelawney Mining and Exploration Incorporated (“Trelawney”), a wholly owned subsidiary of IAMGOLD Corporation (“IAMGOLD”).

2.2 TRELAWNEY MINING & EXPLORATION INC. PROGRAM – OVERVIEW

A program of mechanical stripping was conducted between the dates of July 30th to August 31st 2015 on Trelawney’s Clam Lake Property located near Gogama, Ontario (Figure 1). Subsequent detailed mapping and channel sampling continued and was completed by September 23rd. A total of 2 sites, spaced 24m apart, were mechanically stripped and power washed exposing 2173m² of bedrock within in a feller buncher deforested area of 3998m². The stripped area is located entirely on mining claim 4241016 west of Clam Lake and Trelawney’s intrusion related Côté Gold deposit.

The program was undertaken in order to expose, on surface, the gold bearing Hava Deformation Zone (“HDZ”) which was discovered during the 2013 Clam Lake diamond drilling campaign where results from DDH CLM13-02 returned a grade of 63.2 g/t Au over 5.0m uncut. (Sanatana Resources Press Release).

The author was on site for the majority of the work performed.

3.0 PROPERTY DESCRIPTION, ACCESSIBILITY, CLIMATE AND PHYSIOGRAPHY

3.1 PROPERTY DESCRIPTION

Trelawney’s land package is located in the Swayze Greenstone Belt (“SGB”) and has a strike length of over 57km stretching from Benton township southeast towards Champagne township and covers over 51,000 ha of land. The property is cut by provincial Highway 144 and located 160km south of Timmins, Ontario and 180km north of Sudbury, Ontario which are 2 well established mining camps. The property falls within the Porcupine Mining Division and can be located on the NTS index map at 041 P/12.

The Clam Lake Property is situated in the central part of Trelawney’s land package straddling both Yeo and Chester townships and is immediately west of the Côté Gold deposit. The work was carried out on only the Yeo township portion of the property. It consists of 8 unpatented mining claims totaling 222.88 ha and all are registered under the name Trelawney Mining and Exploration Inc. (Table 1). Note the 2015 Mechanized stripping work was completed solely on claim 4241016 (Figure 2).



TRELAWNEY
Mining and Exploration Inc

Figure 1: Clam Lake Property Location Map



427000 000000 428000 000000 429000 000000



Figure 2: Clam Lake Property Claim Map with Inset Stripping Location

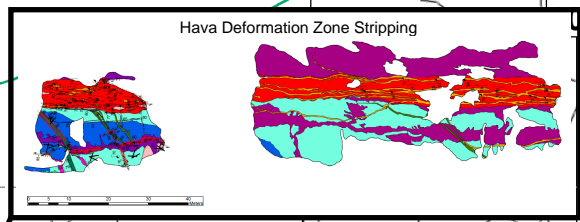
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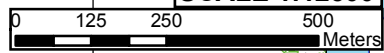
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- Clam Lake Property Boundary
- Claim Fabric
- Dispositions

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Table 1. Summary of claim details for the Clam Lake Property.

Claim Number	No. Units	Area (Ha)	Township	Claim Holder	Due Date
4240522	6	96.04	YEO	Trelawney Mining & Exploration Inc. (100%)	2017-May-26
4241016	6	94.98	YEO	Trelawney Mining & Exploration Inc. (100%)	2017-May-26
4220425	2	22.33	CHESTER	Trelawney Mining & Exploration Inc. (100%)	2021-Feb-13
4254022	1	8.70	CHESTER	Trelawney Mining & Exploration Inc. (100%)	2021-Mar-08
4260697	1	0.08	CHESTER	Trelawney Mining & Exploration Inc. (100%)	2019-Dec-03
4260698	1	0.32	CHESTER	Trelawney Mining & Exploration Inc. (100%)	2019-Dec-03
4260699	1	0.07	CHESTER	Trelawney Mining & Exploration Inc. (100%)	2019-Dec-03
4260700	1	0.36	CHESTER	Trelawney Mining & Exploration Inc. (100%)	2019-Dec-03

3.2 TRELAWNEY MINING & EXPLORATION INCORPORATED – SANATANA RESOURCES CLAM LAKE PROPERTY AGREEMENT

The Clam Lake Property, for the purpose of this agreement, consists of unpatented mining claims 4240522, 4241016 and 4220425 situated in Yeo and Chester townships, Ontario. The Clam Lake Property is held under the terms of a mining claim agreement pursuant to which Trelawney holds a direct 80% interest. The remaining 20% undivided legal and beneficial interest forms part of the Watershed Property and is held for the benefit of Sanatana and TAAC dated February 14, 2011. The 20% interest is identified as a “carried interest” under the acquisition agreement and is defined to mean that until completion of a positive prefeasibility study, all costs and expenses of the exploration programs, preparation and filing of assessment reports and other obligations relating to the Clam Lake Property are the sole and exclusive obligation and liability of Trelawney and Sanatana will not have any obligation or liability in respect thereof.

3.3 ACCESSIBILITY

Access to the project area and stripped outcrop can be attained by vehicle along Highway 144 to the junction of the Sultan Industrial Rd. heading west on the Sultan Industrial Rd. for 3.4km until you reach the Chester Rd (logging) intersection. Take this road 12km north to the intersection of a drill trail that leads to the outcrop. Alternate access can be gained by taking Mesomikenda Lake Road for 1.6km turning west before you reach the Côté Gold Exploration office. However, from this point on access to the property is restricted via a set of gates along the Chester Property access road.

3.4 CLIMATE

The climate of the project area is continental in nature and similar to that of Timmins, Ontario. It is characterized by cold winters and hot summers with the record temperatures ranging from -45.6°C in the winter to +44.0°C in the summer. Average temperature ranges for the winter is -10.0°C to -35.0°C and for summer +10.0°C to +35.0°C. Precipitation averages 80cm per year with most of it in the form of snow which can average 2.4m per year.

3.5 PHYSIOGRAPHY & VEGETATION

Trelawney's property is typical of glaciated terrain of the Canadian Shield with limited topographic relief seldom exceeding more than 50m high above lake levels. Elevations throughout the project area are generally between 380 MASL and 400 MASL. The lower ground is covered by deep glacial till and accompanied by small lakes, bogs and swamps. It is situated on the southern edge of the Boreal forest where it transitions from Great Lakes-St. Lawrence forest. The principal tree species in the area are dominantly coniferous and consist of white and black spruce, balsam fir, jack pine and trembling aspen with lesser sporadic stands of red pine, eastern white pine, eastern hemlock, yellow birch, maple and birch. There is only a few percent of outcrop mostly confined to the higher ground where it is either fully exposed or covered by a thin veneer of glacial till, soil, moss or lichen over the bedrock. Extensive logging has taken place throughout the years over and around the project area.

4.0 GEOLOGICAL SETTING

4.1 REGIONAL SETTING

Trelawney's Swayze Property is situated within the Swayze Greenstone Belt ("SGB") which is the southwestern extension of the Abitibi greenstone belt (Figure 3). It consists of a northwest to west trending belt of largely upper greenschist facies metamorphosed Archean volcanic, sedimentary and intrusive rocks. It is bounded to the north by the Nat river granitoid complex to the south by the Ramsey-Algoma granitoid complex and to the east by the Kenogamissi granitoid complex. To the west the SGB is bounded by the east-verging exposure of an oblique crustal cross section of the Wawa Subprovince known as the Kapuskasing structural zone. It is connected to the southern Abitibi belt by a narrow septa of volcanic-sedimentary rocks associated with an extensive zone of high strain referred to as the Ridout deformation zone ("RDZ") that wraps around the southern margins of the Kenogamissi granitoid complex (van Breemen *et al*, 2006). The RDZ is believed to be the extension of the Cadillac Larder Lake deformation zone, however there is differing opinions on this.

The SGB is host to a wide variety of both intrusive and extrusive rocks which range from ultramafic to felsic in composition as well as both chemical and clastic sedimentary rock types. Common ultramafic rocks in massive peridotite, pyroxenite and dunite intrusions spatially related to spinifex-textured komatiite volcanic flows. Mafic volcanic rocks are widely distributed and include massive, pillow breccia, variolitic and amygdaloidal flows of Fe-tholeiitic, Mg-tholeiitic and calc-alkalic basalts. These mafic units are often cut by synvolcanic gabbro and diorite sills or dykes that range from fine to coarse grained. There are several packages of felsic to intermediate volcanic rocks that consist of massive pillowed flows, volcanic breccias, lapilli tuffs and ash tuffs of andesitic composition. Felsic volcanic rocks consist of feldspar and quartz porphyritic, dacite to rhyolite flows and quartz-feldspar porphyry intrusions. There are also clastic sedimentary rocks subdivided into 2 major groups which include older sequences associated and intercalated with the volcanics and younger sequences

collectively known as the Ridout Group which overly older sequences of volcanic and sedimentary rocks. Lastly, the SGB is cut by 4 geochronologically distinct dyke swarms (Heather, 2001):

- 1.) NW striking 2452 Ma Matachewan swarm
- 2.) NNE striking 2167 Ma Biscotasing swarm
- 3.) WNW striking 1238 Ma olivine-bearing Sudbury swarm
- 4.) NE striking 1140 Ma olivine-bearing Abitibi swarm

The SGB has undergone a complex and protracted structural history of polyphaser folding, development of several generations of penetrative foliations and folds, ductile high-strain zones and late brittle faulting (van Breemen et al, 2006). Structurally, the RDZ is of most importance in the area as it straddles the northern boundary of Trelawney's land package extending west to Osway township where it is associated with the former Jerome gold mine (historic production +/- 56,800 oz Au (Lavigne et al, 2012). It is a major east-west anastomosing D2 high-strain zone, up to 500m wide, localized within the F2 Ridout syncline which extends for at least 80km in roughly an E-W trend. The RDZ also has a regional geochemical influence on the surrounding rocks with characteristic local strong carbonate (calcite and Fe-carbonate), chlorite, sericite and silica alteration.

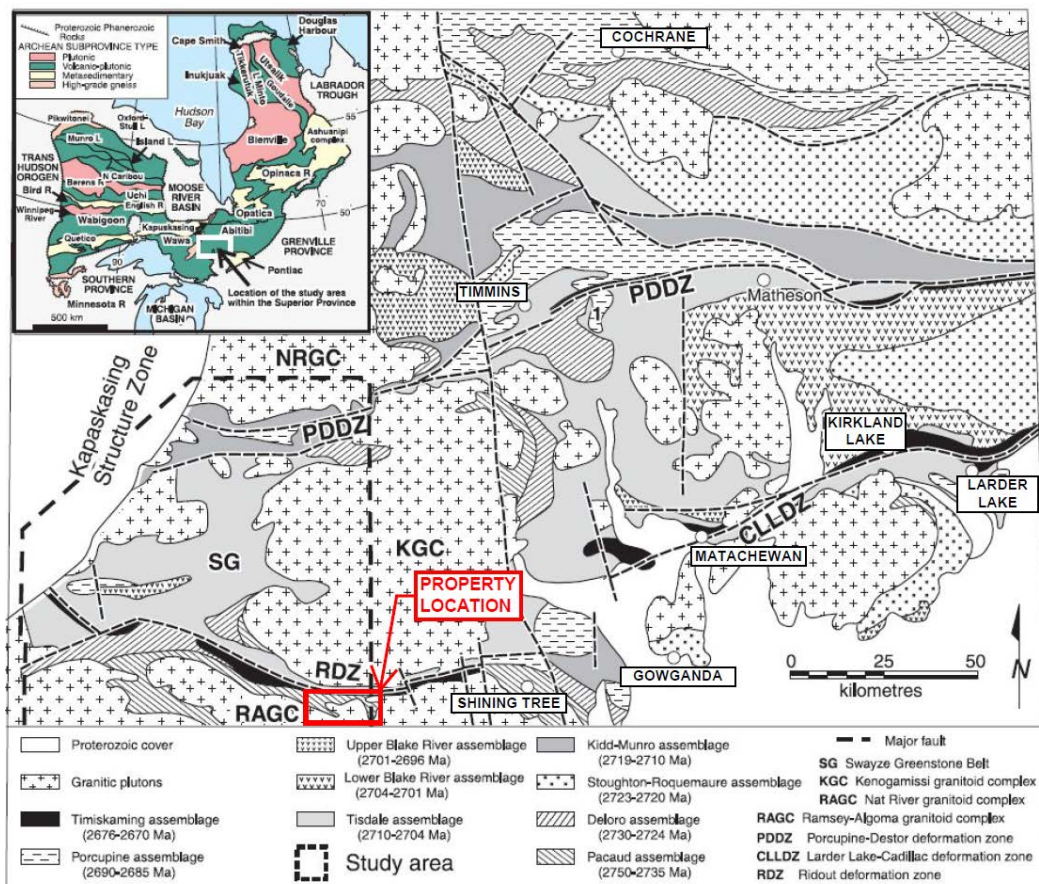


Fig 3: Regional geology map of the southern Abitibi greenstone belt that shows the separation of the Swayze greenstone belt from the main Abitibi greenstone belt by granitoid batholiths - Kenogamissi & Ramsey-Algoma (van Breemen et al, 2006)

4.2 PROPERTY GEOLOGY

The Clam Lake Property is situated over the 2740 Ma Chester Intrusive Complex (“CIC”) situated immediately south of the Swayze greenstone belt separated by the Ridout deformation zone (Figure 4). The CIC is host to a mixed suite intrusive rocks consisting of gabbros, diorites and tonalites. The gabbro and diorite units commonly form elongate bodies and intrude into the biotite bearing tonalites. The tonalite units often contain complex textural relationships suggesting commingling of units and coexistence of the mafic and felsic magmas alluding to bimodal magmatism (Kontak et al, 2012).

The immediate project area is underlain by tonalitic to dioritic rocks of the Chester Intrusive Complex and is overlain and bounded to the north by mixed volcanic-sedimentary rocks of the SGB. The area is also cut by fine grained chlorite altered mafic dykes as well as Matachewan age dykes. On outcrop scale intrusive tonalite breccia units are common between lithological contacts. They contain densely packed clast supported sub-angular to sub-rounded mafic enclaves adjacent to lithological contacts and become less densely packed and matrix supported away from the contact.

Alteration in the area varies in style and intensity from silica-albite, biotite-chlorite, sericite and local carbonate. The intensity of the alteration can be controlled by the spatial association proximal to shearing that is common throughout the property and is also influenced by a regional alteration overprint due to regional metamorphism. Property wide alteration may also be correlated and influenced by the massive hydrothermal system hosting the Côté Gold deposit.

The project area is located south of the highly strained Ridout Deformation Zone and commonly hosts shear fractures and shear veins. These shear systems are characterized by gossanous mm-cm scale structures often infilled with quartz and carbonate minerals hosting pyrite, chalcopyrite and pyrrhotite sulphide species. These structures can be stacked sub-parallel to each other and anastomosing across outcrops at time coalescing into wider zones. The strike length can be discontinuous, pinching out and swelling across outcrop, at times connected by series of ladder veins at oblique angles to the main structures. These structures can have characteristic alteration halos consisting of silica-albite-chlorite-sericite-pyrite.

Sulphide mineralization occurs as disseminations up to 1% in host rocks and well as semi massive shear fracture and quartz (-carbonate) vein hosted. Common sulphide species are pyrite, chalcopyrite and pyrrhotite with less common bornite, sphalerite, molybdenite and arsenopyrite. Less common narrow lenses or pods of massive chalcopyrite are found throughout the Chester property.

Gold is commonly associated with the shear fracture/vein systems that cut across the property in a radial array of trends. It is sporadic in these systems however it can be very high grade over narrow widths, in its native state and often visible to the naked eye.

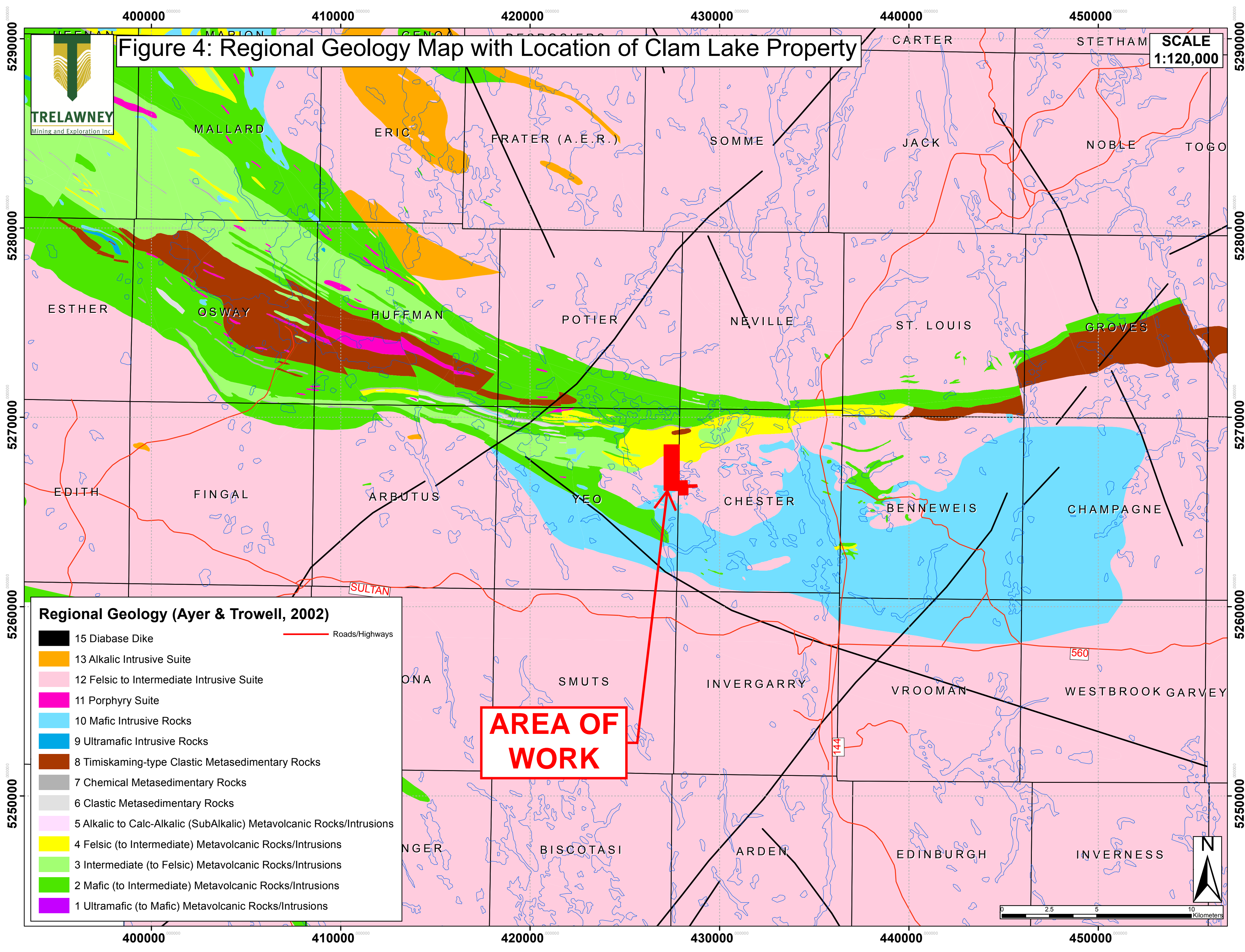
4.3 DEPOSIT TYPES

On the Chester property and surrounding areas there are 2 distinct style of gold mineralization:

- 1.) Orogenic lode gold type – concentrated on quartz vein and fracture hosted gold with a wide variety of secondary minerals (Chester 1, Jack Rabbit, Young Shannon)
- 2.) Côté Lake Intrusion Related Au (-Cu) – new gold discovery ‘porphyry’ style mineralization. Large tonnage low grade deposit associated with a large volume of brecciated and altered tonalite and diorite. Deposit is undeformed and not affected by regional metamorphism.

Figure 4: Regional Geology Map with Location of Clam Lake Property

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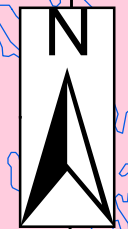


Regional Geology (Ayer & Trowell, 2002)

- 15 Diabase Dike
- 13 Alkalic Intrusive Suite
- 12 Felsic to Intermediate Intrusive Suite
- 11 Porphyry Suite
- 10 Mafic Intrusive Rocks
- 9 Ultramafic Intrusive Rocks
- 8 Timiskaming-type Clastic Metasedimentary Rocks
- 7 Chemical Metasedimentary Rocks
- 6 Clastic Metasedimentary Rocks
- 5 Alkalic to Calc-Alkalic (SubAlkalic) Metavolcanic Rocks/Intrusions
- 4 Felsic (to Intermediate) Metavolcanic Rocks/Intrusions
- 3 Intermediate (to Felsic) Metavolcanic Rocks/Intrusions
- 2 Mafic (to Intermediate) Metavolcanic Rocks/Intrusions
- 1 Ultramafic (to Mafic) Metavolcanic Rocks/Intrusions

Roads/Highways

AREA OF WORK



Gold mineralization is associated with disseminated and vein/veinlet sulphides and the focusing of hydrothermal and gold mineralizing fluids along conduit pathways created by the intrusion related brecciation which in turn hosts the majority of the gold mineralization. The resources at the Côté Gold deposit currently stand at:

Table 2. Côté Gold NI 43-101 Compliant Resource Estimate

RESOURCE	TONNES (000)	GRADE AU (g/t)	CONTAINED OZ'S (000)
Indicated	289, 183	0.9	8, 354
Inferred	66, 894	0.6	1, 174

5.0 PREVIOUS EXPLORATION BY OTHERS

5.1 EXPLORATION SUMMARY

Early prospecting and exploration in the project area historically was focused mainly around the Chester township immediately to the east of the project area. It can be dated back to the turn of the century and continues to the present day. It was often sparked by exploration efforts in the nearby camps of Porcupine and Elk-Lake-Gowganda-Shinning Tree. The earliest discovery in the area was a copper prospect in 1910 on the east shore of Mesomikenda Lake. However it wasn't until 1930 when Alfred Gosselin found a spectacular native gold showing on the east shore of Three Ducks Lake did area see a large influx of prospectors and attention (Laird, 1932). It is because of this discovery in 1930 that there area is host to many historical occurrences scattered throughout the Chester and adjacent townships including Yeo where the project area is located.

5.2 PREVIOUS EXPLORATION WORK

5.2.1 REGIONAL

The following table (Table 3) summarizes known available data sets of government surveys, mapping and compilations relating the SGB and directly impacts the project area. It is by no means complete, however it is sufficient for this report.

Table 3: Listing of selected data compilations pertaining to the project area

Year	Institution	Description of Data
1971	OGS	MDC013 - Gold Deposits of Ontario Part 1 - Ferguson 1971
1979	OGS	MDC018 - Gold Deposits of Ontario Part 2 - Gordon 1979
1980	OGS	OGS conducted airborne electromagnetic in the Swayze area (OGS Map: 80 552 Swayze Area, Three Duck Lakes Sheet)
1981	OGS	OGS Map: Precambrian Geology of Chester and Yeo Townships and Parts of Neville and Potier Townships, Jerome Area 1: 15 840 (Map P.2449. Geology and occurrence descriptions by G.M. Siragusa 1980)
1993	OGS	Mineral Showings, Occurrences, Deposits and Mines of the Swayze Greenstone Belt, Interim Report V1 & V2 (Open File Report 5871. S. Fumerton and K. Houle)
1993	OGS	Geology, Geochemistry and Mineralization of the Southern Margin of the Swayze Belt (Open File Report 5844. G.M. Siragusa)
1993	OGS	Map: Parts of Chester, Neville, Portier and Yeo Townships 1:15 840 (Open File Map 214. G. Siragusa)

1995	OGS	Mineral Prospects of the Swayze Greenstone Belt V1 & V2 (Open File Report 5912. S. Fumerton & K. Houle)
1996	GSC	GSC funded and flew a series of surveys in the Southern Swayze Greenstone Belt as a contribution to the Canada-Ontario Economic and Regional Development Agreement (1991-1995) (Open File 3169. Surveys include: magnetic and multi-element gamma-ray spectrometry (K-Th-U))
1999	GSC	Map: Geology – Swayze Greenstone Belt, Gogama Sheet 1:50 000 (Open File 3384g (Legend and Legend Descriptors Open File 3384a 1-2). Mapping, interpretation, and compilation from 1992-1998 by K.B. Heather, G.T. Shore, & O. van Breeman)
1999	OGS	Single Master Gravity and Aeromagnetic Data for Ontario – Geosoft [®] Format. (Geophysical Data Set 1036)
1999	OGS/GSC	Selected Geoscience Data from the NODA Swayze Greenstone Belt GIS Database Project, Superior Province, Ontario (GSC Open File D3770, OGS Miscellaneous Release- Data 047)
1999	OGS/GSC	Selected posters summarizing research results from the Swayze greenstone belt geoscience NODA project (GSC Open File D3771, OGS Miscellaneous Release - Data 048)
2002	OGS	Geological Compilation of the Swayze Area, Abitibi Greenstone Belt (Miscellaneous Release Data 093. Complete with geology and airborne magnetics)
2002	OGS	Map: Geological Compilation of the Swayze Area, Abitibi Greenstone Belt 1:100 000 (Map P.3511. Geological Compilation, interpretation and mineral deposit data by J.A. Ayer, N.F. Trowell & L. Valade)
2010	OGS	Mineral Prospects of the Swayze Greenstone Belt, Ontario (OGS Miscellaneous Release – Data 260/OFR5911-5913. S. Fumerton, K. Houle, G. Archibald)

5.2.2 PROPERTY

The following table summarizes historical exploration activities on the Clam Lake Property.

Table 4. Summary of historical exploration work on the Clam Lake Property

Company	Year	Description of Work Performed
Young Shannon Gold Mines	1933-34	Small pits and shafts with lateral development on small islands in Clam Lake; Vein 3 & 4 discovered on west side of Clam Lake
Jonsmith Mines Ltd	1961	4 DDH's (124.1m total) targeting Veins 3 & 4
Chester Minerals Ltd.	1965	Geological Compilation
Gogama Gold Mines Ltd.	1965	EM & MAG survey
Park Precious Metals	1973	Dewatered Shannon Island shaft and sampled
Gogama Minerals Ltd.	1971	VLF survey
Canadian Crest Gold Mines	1978	AMAG survey
Canadian Crest Gold Mines & Baxter Minerals Ltd.	1978-79	AMAG & Radiometric survey; power trenching
Hargor Resources Inc.	1980	AMAG, EM, AVLF surveys
Baxter Minerals Ltd	1980	AMAG & ARAD surveys; prospecting and compilation
Kidd Resources Ltd.	1981	Power stripping

Johnway Resources Inc	1984	Geological Mapping
Chester Minerals Ltd.	1984	Geological evaluation of No 4 Vein and other occurrences throughout the property; IP/res & VLF survey
Kidd Resources Ltd.	1985	Power stripping of "Quartz Showing"
Benton resources Inc.	1985	AMAG & VLF survey
Blue Falcon Mines Ltd.	1986	AMAG & VLF Survey
Chesbar Resources Inc.	1987	VLF-EM survey, geological mapping
Young Shannon Gold Partnership	1987	7 DDH's testing Vein 3 & 4 mineralization
Chesbar Resources Inc.	1988	4 DDH's (408.8m total) targeting various historical occurrences
Crown Minerals	1988	VLF-EM
Blue Falcon Mines Ltd.	1990	AMAG & VLF
Robert Duess	1999	Surface grab sampling and documentation of mineralized zones throughout the property
Crown Mineral	2010	Stripping and geological mapping
Pierre Robert	2010	GMAG and VLF-EM surveys

Additional historical information and donations can also be found as hard copy T-series files located in the Timmins MNDM office. These T-series files are generally of an earlier vintage than what can be found online dating back to the 1930's.

6.0 PREVIOUS EXPLORATION WORK BY TRELAWNEY MINING & EXPLORATION

6.1 EXPLORATION SUMMARY

Since obtaining the property in 2010, Trelawney has conducted numerous exploration campaigns including prospecting, mapping, sampling and diamond drilling. They have also conducted a ground magnetics and a pole-dipole induced polarization - resistivity survey as well as merging high resolution airborne magnetic data. The main focus of these early campaigns was to verify historical reporting by ground truthing geological information and gold values. These campaigns have proved successful and led to the discovery of the Hava Deformation Zone as well the confirmation of various other mineralized trends throughout the property.

6.2 PREVIOUS EXPLORATION WORK

Previous exploration work by Trelawney Mining & Exploration is summarized in the table below for the Clam Lake Property area:

Table 5: Summary of Exploration Work Performed by Trelawney Mining & Exploration

Year	Work Type	Description
2011	Sampling & Prospecting	Grassroots grab sampling and prospecting including historical occurrence locating and verification
2012	IP/res & Ground Mag	PDP a=50m, n=6 surveyed on 100m cut lines
2012-2013	Airborne Magnetics	Survey and merging a series of datasets
2013-2015	Sampling, Prospecting & Mapping	Property wide grid mapping and sampling with subsequent infill
2013-2015	Diamond Drilling	22 holes = 5392.5m total

7.0 2015 MECHANICAL STRIPPING, MAPPING AND SAMPLING PROGRAM

7.1 OVERVIEW

A program of mechanical stripping, power washing, geological mapping and surface channel sampling was conducted between the dates of July 30, 2015 and September 23, 2015 on claim 4241016 in the central part of the Clam Lake property. Work was conducted at 1 site broken down into 2 separate strippings accessed via a drill trail. The reason for stripping was to expose on surface a gold bearing zone of deformation known as the Hava Deformation Zone that was discovered during the 2013 drilling campaign and expanded in the subsequent years. Refer to Table 6 for personnel involved with the mechanical stripping, mapping and sampling program.

7.2 DETAILS OF WORK PERFORMED

7.2.1 SITE SELECTION AND PREPARATION

The site of the stripping was selected based on a number of factors. The Hava Deformation Zone drill hole data was first projected up dip to visualize where on the property the mineralization may come to surface. At this point there was limited outcrop mapped from previous exploration programs in the general area so all we had to go on was the drill hole data. Once projected a series of auger holes were sunk around and across the proposed area in order determine overburden depths and estimate the amount of material that would need to be removed. Based on 25 test holes, the overburden depth was between 5-70cm and consisted of well consolidated b-horizon underlain by boulders and till. The deeper thicknesses were mapped to the north and west where the topography gently rolls downhill. This area was removed from the planned stripping and then the final area was selected. The final area to be stripped measured roughly 140m by 30m.

7.2.2 TREE REMOVAL

Laframboise Drilling Inc. out of Earlton, Ontario was used to clear all of the trees that covered the planned stripped area as well as drill trail rehabilitation. They mobilized a Timberjack 608D Feller-Buncher to site on July 30th, 2016 and cleared the entire area placing the trees over 6 inches in diameter in neat piles which are easily accessible. Subsequent follow-up work was completed on Aug 12 & 18, 2016. This work consisted of minimal expansion to the planned area.

7.2.3 MECHANIZED STRIPPING – OVERBURDEN REMOVAL

Again, Laframboise Drilling Inc. was used to remove the overburden from the planned area. They mobilized a John Deere 240D excavator with grapple thumb to site on Aug 4th, 2016 and began removing the overburden. Work continued on Aug 5th, 2015 and again from Aug 12-13th, 2015 and then finally completing the work Aug 25th, 2015. The grapple thumb proved to be a very valuable asset to the program as it easily removed large tree stumps and moved brush with ease. The overburden was piled up around the perimeter of the stripped area and graded back to reduce the steepness of the slopes. For added protection, barricades were placed around piles in order to impede travel across larger piles of overburden.

7.2.4 POWER WASHING

Chenier Drilling Services out of Val Caron, Ontario was contracted to conduct the power washing aspect of the program. Two Wajax Mark 3 pumps were set up on the west shore Clam Lake where an existing boat launch created access to the water source. Over 600m of hose was connected in order to reach the site. The washing commenced on Aug 11th, 2015 and continued for 11 days throughout August ending August 31st, 2015 utilizing up to 3 men per day successfully exposing the HDZ. Trelawney personnel also assisted on August 24th, 2015 using a Wick 375 high pressure water pump and 2 men. Silt fencing was erected around sumps and areas where there was a risk of unimpeded water flow due to washing.

7.2.5 GEOLOGICAL MAPPING

A 5 x 5m grid was established across the entire outcrop using a Garmin 62s handheld GPS and waypoint averaging. Detailed geological mapping commenced on Sep 8th, 2015 and continued until Sep 11th, 2015 and then completed on Sep 15th, 2015 at a 1:100 scale (Appendix 1). Trelawney personnel involved with mapping included Brian Tomczuk, Adam Waram and Andrew Shea.

7.2.6 CHANNEL CUTTING AND SAMPLING

Channel sampling began and was completed on Sep 19th, 2015 by a geotechnician and supervised by geologists with Trelawney. A total of 91.9m of channel cutting took place across the outcrop using a Stihl TS700 Cutquik rock saw. Channels were 2-3” wide and cut to the maximum depth that the saw would allow – roughly around 4-5”.

A total of 171 samples were photographed, described and collected between Sep 20th, 2015 and Sep 21st, 2015 by a geotechnician and geologist from Trelawney. Sample lengths varied but did not exceed 100cm in length. Sample locations were documented using a Garmin 62s handheld GPS and pictures were taken using an Olympus Tough TG-2 12.0MP camera. Certified reference and blank material was inserted alternating every 12th sample in batches of 50 and then sent to Actlabs in Sudbury, Ontario for analysis. Refer to Appendix 3 for channel sample descriptions.

Table 6. Summary of personnel involved with the 2015 mechanized stripping of the Hava Deformation Zone

Name	Company	Residence
Brian Tomczuk	Trelawney Mining & Exploration	St.Catharines, ON
Adam Waram	Trelawney Mining & Exploration	Sudbury, ON
Andrew Shea	Trelawney Mining & Exploration	Sudbury, ON
Shane O'Neil	Trelawney Mining & Exploration	Sudbury, ON
Doreen Luke	Trelawney Mining & Exploration	Mattagami First Nation
Rene Laframboise	LaFramboise Drilling Inc.	Earlton, ON
Pascal Laframboise	LaFramboise Drilling Inc.	Earlton, ON
Louis Chenier	Chenier Drilling Services	Val Caron, ON
T.J. Miller	Chenier Drilling Services	Sudbury, ON
Eric Lauren	Chenier Drilling Services	Sudbury, ON
Tyler Nugent	Chenier Drilling Services	Sudbury, ON

8.0 ANALYTICAL METHODS & QA/QC

8.1 SUMMARY

This section provides assay, geochemical and QA/QC information on the mechanized stripping, mapping and sampling program on the Clam Lake Property that took place between July 30th, 2015 and Sept 23rd, 2015. A total of 171 samples, 7 blanks and 8 certified reference materials were sent to Actlabs in Sudbury, Ontario for processing in 3 separate batches. Standards were inserted every 24th sample and blank material was inserted every 12th in batches of 50. Table 7 summarizes sample shipment details. All samples were sent for fire assay with over limit instructions. A 61-element geochemical analysis was selectively conducted on 61 of the samples that were sent for assay. Actlabs is an accredited testing laboratory awarded by the Standards Council of Canada to ISO/IEC 17025-2005 standards for mineral analysis/geological tests.

Table 7. Summary of sample shipment details.

Sample Type	Total Samples	Assay Samples	Standard/Blanks	ICP	Lab Used	Date Sent	Assays Received	Certificate Number
Channel	66	61	5	28	Actlabs	09/23/2015	10/15/2015	A15-08049
Channel	63	58	5	9	Actlabs	09/24/2015	10/21/2015	A15-08179
Channel	57	52	5	24	Actlabs	09/26/2015	10/21/2015	A15-08211

8.2 SAMPLE PREPARATION

Samples were sent to Actlabs by Trelawney in rice bags affixed with security tags. Once received samples are dried at 140°F for 6 hours or until dry. The entire sample is crushed with 95% passing through -10 mesh. If there is sufficient material a 1kg split is taken using the Jones Rifler and then pulverized at 95% passing 140 mesh. If the sampling is less than 1kg the entire sample is crushed and pulverized.

8.3 GOLD ANALYSIS

Samples requested for fire assay initially use a 30g sample and are analyzed using atomic absorption. If the sample returns a result greater than 2 g/t gold then a gravimetric analysis is performed on a 50g sample. Lastly, if this sample returns a result greater than 5 g/t gold a pulp metallic screen analysis is requested and a representative 500g sample split is sieved at 100 mesh (150 micron), with assays performed on the entire +100 mesh fraction and two splits of the -100 mesh fraction. When the assays have been completed on the coarse and fine portions of the bulk sample, a final assay is calculated based on the weight of each fraction. All results in this report are recorded using values that provided the highest degree of accuracy. Assay certificates can be found in Appendix 4.

8.4 MULTI-ELEMENT GEOCHEMICAL ANALYSIS

Samples selected for multi-element geochemical analysis were sent for a 61 element package and digested with four acids (hydrochloric, nitric, perchloric and hydrofluoric). Once digested, the samples were analyzed by either ICP-OES or ICP-MS. Multi element certificated can be found in Appendix 5.

8.5 QUALITY ASSURANCE AND CONTROL

Trelawney

A total of 171 samples, 7 blanks and 8 certified reference materials were sent to Actlabs in Sudbury, Ontario for processing in 3 separate batches. Standards were inserted every 24th sample and blank material was inserted every 12th in batches of 50. Blank material consisted of certified blank diabase packets and the certified reference materials were OREAS standards purchased from Analytical Solutions Ltd. The standards that were used on this project were OREAS 204, OREAS 504, OREAS 206, and OREAS 501b. Mean gold values for the standards ranged from 0.248 ppm to 2.197 ppm.

All 7 of the blanks sent for analysis passed below the UCL of 0.1 ppm Au with no failures or technician errors. This represents a 0% failure rate for blank material used. Out of the 8 client standards sent for assay, there was 1 failure. All of the standards that passed fell within the tolerance limits of 3SD, and 6 of these fell within the tolerance limit of 2SD. The standard that failed was OREAS 504 falling beyond the tolerance limits of 3SD. This represents a certified reference material failure rate of 12.5%. Refer to Appendix 6 for QA/QC charts for standards and blanks used during this program.

Actlabs

Actlabs conducts in house quality control and quality assurance protocols and at the request of the client will issue blank and certified reference material certificates. Only internal laboratory quality control materials were used for the gravimetric and pulp metallic screen analysis.

9.0 RESULTS

9.1 SUMMARY

The following sections describes in detail the geological features, alteration, structure, mineralization and geochemical results from the detailed mapping and sampling program over the HDZ stripping. A detailed outcrop map with structural measurements can be found in Appendix 1 as well as a channel sample location map in Appendix 2.

9.2 LITHOLOGICAL DESCRIPTIONS

The following lithological descriptions mapped out in the stripped area compliment previous lithological observations from diamond drilling and geological mapping in the area.

Diorite – medium and locally fine grained massive equigranular unit with <5% blue quartz eyes throughout. Strong pervasive chlorite alteration proximal to HDZ. Hosts trace-1% disseminated pyrite. Patchy weak magnetism. Development of load structure features at the contact between tonalite breccia unit in the hanging wall observed on outcrop.

Quartz Diorite- massive, medium grained unit with ~10-15% coarse grained blue quartz eyes. Contacts with tonalite often very gradational and with HDZ are marked with an increase in chlorite and carbonate alteration often overprinting and obscuring the irregular contact. Unit generally hosts trace mineralization however coarse disseminations of pyrite, pyrrhotite and lesser chalcopyrite increase at contact with HDZ.

Tonalite- medium grained, massive, non-magnetic, grey-blue-green equigranular w 55% quartz, 35% plagioclase and 20% amphibole and biotite. Unit commonly contains sub-rounded to rounded fine grained dark green to black mafic clots cm scale in size. Alteration includes pervasive and fracture controlled weak to moderate silicification-albitization, pervasive weak to moderate chlorite and strong local netty sericite. Due to intensity of alteration and textural destruction that follows, the unit often has a hazy mottled appearance. Mineralization consists of trace-1% disseminated pyrite and vein/fracture hosted pyrite-chalcopyrite. Unit also hosts mm-cm scale shear fractures with quartz-carbonate-sulphide infill and characteristic silica-albite-chlorite-sericite-pyrite alteration halos

Tonalite Breccia – exhibits magma mixing and stoping features. Relatively fresh tonalite matrix with sub-angular to sub-rounded mafic enclaves. Unit is more clast supported adjacent to contacts and matrix supported away from contacts. Epidote and hematite alteration is common with mineralization occurring as veinlets of pyrite, chalcopyrite and pyrrhotite with local amounts of sericite and chlorite alteration. Observed on outcrop are load structures featured where diorite has been superimposed or intruded on top of the tonalite breccia resulting in flame structures of tonalite breccia upwelling into the diorite.

Feldspar Porphyry – fine grained matrix with feldspar phenocrysts. Trace disseminated pyrite with siliceous overprint.

Felsic Dyke- narrow fine grained light pink to off white dykes composed of mostly plagioclase and cutting across outcrop at wide variety of orientations. This series of dykes is cross cut by lamprophyre dykes and they are host to no sulphide mineralization

Lamprophyre Dyke – dark green in color, fine grained with mm scale biotite phenocrysts. Often strongly foliated with weak pervasive chlorite-carbonate alteration. Host up to 5% carbonate veinlets parallel to foliation and trace-1% disseminated pyrite. Sharp contacts with surrounding rocks. On outcrop you can observe these dykes being dragged sinistrally into the footwall contact zone of the HDZ

Mafic Dyke – fine grained, dark green late dykes often weak to moderately foliated. Alteration consists of pervasive strong chlorite and carbonate. Host trace-1% disseminated sulphides as well as contact hosted mineralization locally. On outcrop the dyke offsets the tonalite breccia and diorite unit in a dextral sense.

Hava Deformation Zone- a roughly east-west striking, steeply dipping, sheet-like body hosted in a ductile high strain zone between two contrasting lithologies resulting essentially in a mylonite. The bordering lithologies are much less deformed compared to the HDZ which is strongly deformed, dragged out and recrystallized characteristic of a mylonite (Trouw et al, 2010). It is host to a series of commonly boudinaged pinch and swell gold bearing quartz +/- (Fe) carbonate veins with varying degrees of deformation and folding up to 80cm in width. The veins contain semi massive to massive chalcopyrite-pyrite-pyrrhotite-(bornite-sphalerite-molybdenite-arsenopyrite) with accessory telluride minerals, electrum and visible gold. Higher grade veins can form in sheeted ribbon like arrays with a smokey grey color and observable strain patterns. Mineralization also occurs parallel to foliation and as stringers. Characteristic alteration includes biotite-chlorite-sericite-carbonate which can be penetrative into the surrounding country rocks. Kinematic indications such as mantled porphyroclasts and strain shadows lead to a sinistral sense of shear.

9.3 ALTERATION

Beyond the regional alteration overprint there is a characteristic alteration assemblage of the HDZ and host rocks. Both hanging and footwall rocks have intense pervasive chlorite alteration near zone margins and at the contacts. Less intense sericite and carbonate alteration is present as well locally.

The HDZ exhibits strong overprinting alterations due to the high strain environment subsequent hydrothermal permeability. Characteristic strong penetrative biotite-chlorite-sericite-carbonate alteration is associated with gold mineralization and consistent throughout the zone. Carbonate, commonly iron-carbonate, can be contained between the chlorite and biotite foliation planes and as accessory mineral within veins. Sericite alteration occurs pervasively or as netty halos around shear fractures within the system and surrounding areas. Chlorite-biotite alteration occurs mutually within the HDZ especially local to veins and sulphide mineralization.

9.4 MINERALIZATION

Sulphide, telluride and native element mineralization are common to the HDZ . Sulphide species of pyrite, chalcopyrite and pyrrhotite up to 90% vein hosted are most common with lesser amounts of sphalerite, molybdenite, arsenopyrite and bornite (trace-2%). Gold-silver-telluride minerals occur along

with sulphide mineralization as does visible gold on occasion. Malachite also occurs on the weathered surface of the outcrop.

Mineralization is hosted in various styles across the outcrop. Host rock mineralization commonly consists of less than 1% disseminated pyrite with minor chalcopyrite and pyrrhotite. It is hosted in networks of shear fractures infilled with pyrite and pyrrhotite with pyrite halos. It is also mobilized in shear zones, contact hosted and where structures intersect which observed where there is a quartz-sulphide blowout where a mafic dyke to the west of the outcrop is cut by a shear zone.

Most importantly mineralization is hosted in the HDZ in both the host rock and in the series of veins. In the host rocks of the HDZ it is less abundant and occurs a disseminations or thin laminations between foliations planes often only consisting of pyrite. When sulphide mineralization is vein hosted it occurs a semi-massive to massive infill, along foliation and strain planes as well as built up in strain shadows of the porphyroclasts. Visible gold is vein hosted.

9.5 STRUCTURE

The HDZ displays strong destructive and penetrative fabrics as well as good kinematic indicators. The HDZ is a focused ductile high strain zone between 2 relatively undeformed host rocks resulting in a mylonite. It displays numerous generations of folding events and at least 2 foliation orientations and one crenulation cleavage.

The zone roughly strikes east-west and is steeply dipping to the south. Foliation measurements across the outcrop range in strike from 78-335° and dip between 53-85°. The two generations of the foliations have averages of 096.7°/71.12° coinciding with a regional S_1 foliation, and 321.75°/75.3°. The average strike and dip of the veins is 097.7°/72.8° with ladder veins at 268°/70° and 165°/88° and tension gashes at 205° and 020°. No dip information was obtained for the tension gashes but they are estimated to be sub-vertical.

Fractures had multiple orientations dipping sub-vertically and dykes ranged from 296°-335°/64°-86°. Dyke measurements were taken before being dragged into the HDZ. Lithological contacts dips ranged from 68°-89°.

Shearing occurred at variable trends across the outcrop and often displaced units sinistrally over short widths. Dips ranged from 52°-87°. Measurements were taken from 4 recumbently folded quartz veins where surfaces produced reliable results. Two z-folds axis were measured at 282° plunging 54° and 262° plunging 75°. An m-fold hinge axis was measured at 272° plunging 46° and a s-fold axis was measured at 178° plunging 40°. More fold measurement and lineation (stretching) will be needed to further deduce the structural history of the HDZ

Kinematic indicators such as the dragging of dykes into the zone, asymmetric strain shadows and mantled porphyroclasts indicate a sinistral sense of movement however properly acquired thin section samples taken perpendicular to the mylonitic foliation and parallel to the stretching lineation will confirm this at a micro-scale (Trouw, 2009).

9.6 VEINING

Detailed mapping delineated at least 8 different styles of veins based on their mineral assemblages and structural significance. Overall they ranged from mm size up to 80cm and if they were hosted within the HDZ had some degree of deformation or structural overprint whether it be folding, boudinaged, pinched or mantled. Veins outside of the HDZ consisted of quartz tension gashes, quartz-tourmaline-chlorite, cm scale quartz-sulphide and barren quartz veins.

The HDZ hosted parasitic folded quartz veins exhibiting dissolution features and quartz-Fe carbonate-sulphide veins. The most productive in terms of gold grade were the quartz vein with semi-massive to massive pyrite-chalcopyrite-pyrrhotite-bornite-visible gold and the hanging wall contact quartz-sulphide-visible gold vein with tonalite fragments. The quartz vein with semi-massive to massive chalcopyrite-pyrite-pyrrhotite-bornite-visible gold was not folded or boudinaged but it was slightly pinched and upon closer inspection, as well as observed in drill core, was a deep grey color and very strained with visible gold being remobilized within the strain lamellae. Based on the low degree of deformation on the vein it may be of a later stage and not subjected to intense structural overprint of the other vein sets. A recommendation to characterize these vein sets is at the end of this report.

9.7 GEOCHEMISTRY

9.7.1 GOLD

A total of 171 channel samples were sent to Actlabs in Sudbury, Ontario for analysis. The samples mainly targeted the HDZ as well as subsidiary quartz-sulphide veins and mineralized shearing across the outcrop. Channels comprised of single samples as well as continuous samples up to 7.45m in length across the entire width of the zone and in certain cases shoulder sampled into the hanging and footwalls. Assay ranged from below detection limit for gold, <0.005g/t Au to as much as 103g/t Au observed in sample 402331. The samples with high grade assays often contain visible gold (samples 402327, 402339 & 402383) and telluride minerals. Overall the gold assay results were consistent with diamond drilling assay results from the HDZ where high grade gold is contained within narrow strained quartz veins accompanied by sulphides, commonly chalcopyrite, pyrrhotite and pyrite. The HDZ host rock, protolith unknown at this time, does not carry high concentrations of gold nor does the enclosing hanging and footwalls lithologies unless it contains a certain style and percentage of veining and sulphides.

9.7.2 MULTI-ELEMENT

A 61 element ICP package was run on select channel samples across the outcrop. Analysis focused on continuous channels that cut the entire width of the HDZ as well as samples with increased sulphide mineralization. In total, 61 samples were selected for analysis. A correlation matrix was generated in order to determine if any elemental association exist between gold for all of the samples, samples with greater than 0.1 g/t gold and samples with greater than 0.5g/t gold (Table 8). The strongest ($r=0.5-1.0$) positive correlation with Au exist between Ag, Bi, Cu, Hg, Pb and Te. Copper had a correlation of 0.42 for results over 0.5 g/t. Also, Pb was only strongly correlated in samples containing greater than 0.5 g/t Au. Moderate positive correlations ($r=0.3-0.5$) exist between Au and In, W and Mo. Molybdenum was moderately correlated in samples containing greater than 0.1 g/t Au and Pb. Weak ($r<0.2$) correlations exist between Co, Sb, and Zn.

A more detailed geochemical analysis is warranted which would focus only on certain domains of the system (vein generations, hosts rocks etc.) breaking them out individually resulting in an improved confidence in the geochemical correlations of the system. Samples over 5.0 g/t were also correlated, however the low sample population (4 samples) resulted in correlations that suggest low practical significance.

Table 8. Elemental correlations with Gold Mineralization

Element	All Samples	Samples > 0.1 g/t Au	Samples > 0.5 g/t Au
	Samples = 64	Samples = 29	Samples = 17
	Correlation Coefficient (r)		
AG	0.79	0.78	0.75
BI	0.89	0.88	0.87
CO	0.1	0.05	0.09
CU	0.55	0.51	0.42
HG	0.68	0.73	0.77
IN	0.43	0.42	0.32
MO	0.18	0.35	0.31
PB	0.07	-0.009	0.51
SB	0.09	-0.008	0.17
TE	0.78	0.77	0.76
W	0.34	0.35	0.29
ZN	0.12	0.08	0.02

10.0 CONCLUSIONS

The 2015 mechanized stripping program successfully exposed the ductile high strain Hava Deformation Zone on outcrop based on drilling information. Subsequent mapping and sampling has contributed insight into the continuity, nature and grade of gold across the zone as well as important structural and geological relationships that were not clearly defined in drill core. Alteration patterns were also correlated with drilling results both within the HDZ as well as wall rock interactions across the outcrop. Gold within the system is high grade over narrow widths within the up to 7m thick HDZ and is hosted by quartz-carbonate-sulphide veins that span intermittently the length of the outcrop. The HDZ remains open east and west as well as at depth and has the potential for a deeper plunge extension to the mineralization which can be characteristic of these types of systems (Rhys, 2015). The Hava Deformation Zone still remains a favorable exploration target in the Swayze Greenstone Belt and further work should be conducted.

11.0 RECOMMENDATIONS

Based on the results from this report and previous drilling results, additional exploration work is recommended for the Clam Lake Hava Deformation Zone. Suggested future exploration work should involve:

- 1.) Detailed structural analysis to determine structural and stratigraphic controls on gold mineralization for implications aimed at future exploration work in the area
- 2.) Determine vein paragenesis and gold endowment
- 3.) Orientation B-horizon soil survey along strike from stripped area in order to determine if a geochemical footprint for the HDZ can be identified
- 4.) Continue to define the HDZ through diamond drilling along strike and at depth
- 5.) Whole rock litho geochemistry to identify host rocks and protolith of the HDZ

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STATEMENT OF QUALIFICATIONS

Brian Tomczuk, B.Sc., P. Geo.

I, Brian Tomczuk of 5 Sussex Court, St.Catharines, ON hereby certify that:

1. I am a graduate of Laurentian University's Earth Science Degree (B.Sc. Honors) program in 2012 and currently completing an Applied M.Sc Degree in Geology – Mineral Exploration at Laurentian University.
2. I have been working in the field of geology for more than 5 years since my graduation.
3. I am currently employed by Trelawney Mining & Exploration Inc., a wholly-owned subsidiary of IAMGOLD Corp. as a senior field geologist since May 27, 2010.
4. I am a practicing member in good standing with the Association of Professional Geoscientists of Ontario (Member Number 2401). I am also a member of the PDAC, CIM and OPA.
5. Statements within this report are based on observations made in the field while under direct supervision of the mechanical stripping, sampling and detailed mapping exploration programs. I have no interest either direct or indirect pertaining to the properties included in this report, nor do I expect any.

Dated this April 18, 2016



Brian Tomczuk, B.Sc., P. Geo.

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List of Abbreviations

//	parallel too
3 x	3 times
adj	adjacent
altd	altered
asp	arsenopyrite
assoc	associated
b/t	between
bi	biotite
blu	blue
bo	bornite
bx	breccia
bx't	brecciated
cb	carbonate
cg	coarse grained
chl	chlorite
cntct	contact
cpy	chalcopyrite
diss	disseminated
dr	diorite
fe	iron
fol'n	foliation
fol't	foliated
frc	fracture
goss	gossanous
gry	grey
hdz	Hava deformation zone
ig	igneous
inst	interstitial
irreg	irregular
loc	local
mass	massive
mfc	mafic
mod	moderate
mtf	marginal to fractures
mtx	matrix
po	pyrrhotite

poss	possible
pv	pervasive
py	pyrite
qdr	quartz diorite
qtz	quartz
qv	quartz vein
ser	sericite
shr	shear
shrd	sheared
sil	silica
sphal	sphalerite
spk	speck
sulphs	sulphides
thrght	throughout
tnlt	tonalite
tr	trace
trm	tourmaline
txt	texture
v	very
vg	visible gold
vn	vein
vnlt	veinlets
wk	weak
wkly	weakly
x-cutting	cross cutting
xls	crystals
zn	zone

**APPENDIX 1: Hava Deformation Zone – Detailed Outcrop Map with
Structural Measurements**

Scale - 1:150

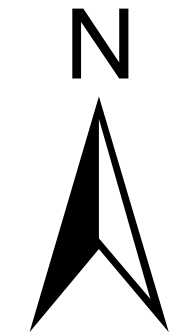
427500

427550

427600



Hava Deformation Zone - Detailed Outcrop Map with Structural Measurements



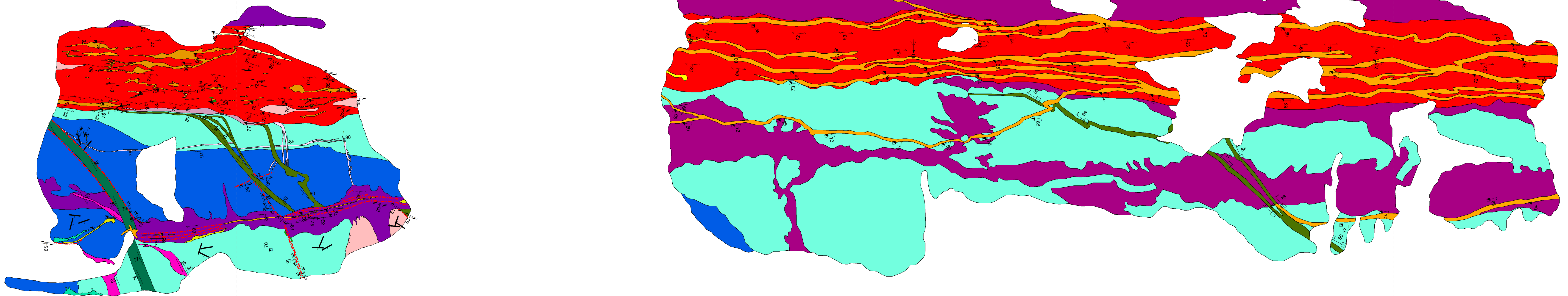
5266850

5266850

5266800

5266800

4241016



Veins

Type

	Parasitic Folded Quartz (Dissolution)
	Quartz
	Quartz Semi Mass Cpy-Py-Po-Bo-VG HDZ Hosted
	Quartz Tension Gashes
	Quartz-Fe Carbonate-Sulphide HDZ Hosted
	Quartz-Sulphide
	Quartz-Sulphide W Tonalite Frags
	Quartz-Tourmaline-Chlorite

4241016 - Claim Number

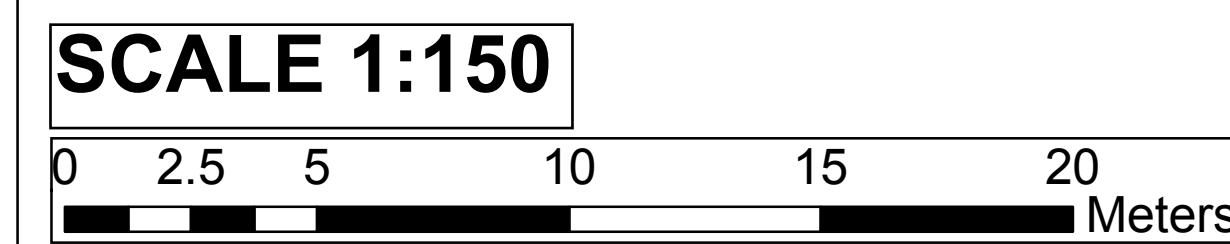
Lithology

	Diorite
	Diorite (Porphyritic)
	Feldspar Porphyry Dyke
	Felsic Dyke
	Tonalite
	Hava Deformation Zone
	Lamprhyre Dyke
	Mafic Dyke
	Quartz Diorite
	Tonalite Breccia
	Tonalite-Diorite Transition
	Shearing

Structure

Type

	Fold Axis M
	Fold Axis Z
	Contact
	Foliation
	Shearing
	Fracture
	Vein



427500

427550

427600

APPENDIX 2: Hava Deformation Zone – Channel Sample Location Map

Scale - 1:150

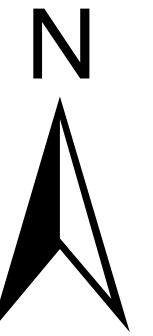
427500

427550

427600



Hava Deformation Zone - Channel Sample Location Map



5266850

5266850

5266800

5266800

4241016

Channel Sample Locations

Veins 4241016 - Claim Number

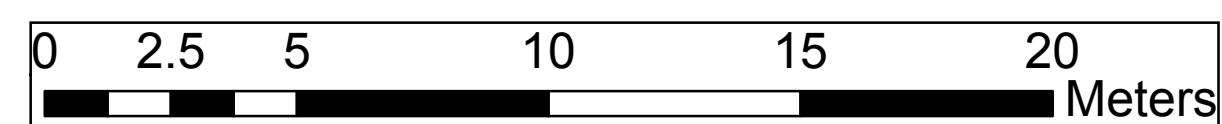
Type

- Parasittic Folded Quartz (Dissolution)
- Quartz
- Quartz Semi Mass Cpy-Py-Po-Bo-VG HDZ Hosted
- Quartz Tension Gashes
- Quartz-Fe Carbonate-Sulphide HDZ Hosted
- Quartz-Sulphide
- Quartz-Sulphide W Tonalite Frags
- Quartz-Tourmaline-Chlorite

Lithology

- Diorite
- Diorite (Porphyritic)
- Feldspar Porphyry Dyke
- Felsic Dyke
- Tonalite
- Hava Deformation Zone
- Lamprhyre Dyke
- Mafic Dyke
- Quartz Diorite
- Tonalite Breccia
- Tonalite-Diorite Transition
- Shearing

SCALE 1:150



427500

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427600

APPENDIX 3: Individual Channel Sample Descriptions

Sample Number	Stripping Zone	UTM East	UTM North	Sample Length (m)	Gold (g/t)	Host Lithology	Quartz Veining (%)	Sample Description
402301	West	427488.24	5266828.99	0.5	0.823	HDZ	80	mod fol't chl+cb altd HDZ w 40cm qtz vn hosting semi mass intergrown 25% py, 5% po + ~1% py // fol'n
402302	West	427488.29	5266829.52	0.5	0.165	HDZ	0	mod fol't chl+ Fe cb altd HDZ
402303	West	427488.30	5266829.98	0.5	0.005	HDZ	0	mod fol't chl+ Fe cb altd HDZ
402304	West	427488.33	5266830.41	0.5	0.005	HDZ	0	mod fol't chl+ Fe cb altd HDZ
402305	West	427488.37	5266830.91	0.5	0.006	HDZ	0	mod fol't chl+ Fe cb altd HDZ w wispy cb stringers locally rotted out
402306	West	427488.39	5266831.42	0.5	0.015	HDZ	5	strongly fol't chl+ Fe cb altd HDZ w vuggy rotted out qtz vnlt ~5%
402307	West	427488.40	5266831.90	0.5	0.025	HDZ	0	mod fol't chl+ Fe cb altd HDZ w wispy cb stringers locally rotted out; faint blue qtz eyes thrht
402308	West	427488.42	5266832.41	0.5	0.005	HDZ	0	mod fol't chl+ Fe cb altd HDZ w wispy cb stringers locally rotted out
402309	West	427488.45	5266832.87	0.5	0.01	HDZ	0	mod fol't chl+ Fe cb altd HDZ w wispy cb stringers locally rotted out
402310	West	427488.48	5266833.38	0.5	1.541	HDZ	50	mod fol't chl+ Fe cb altd HDZ w wispy cb stringers locally rotted out; 50cm milky white qtz vn w 1% py + 1% py diss + // fol'n
402311	West	427488.41	5266834.19	1	0.062	HDZ	80	mod fol't chl+ Fe cb altd HDZ w wispy cb stringers locally rotted out; 60cm + 20cm wide qtz vns w 3% cpy + 1% py
402313	West	427488.67	5266835.21	1	0.005	HDZ	0	mod fol't chl+ Fe cb altd HDZ
402314	West	427484.80	5266828.90	0.6	0.121	HDZ	0	mod wk fol'd HDZ w chl-cb altn, 2% frc + diss py, 2% frc + diss cpy, <1% frc + dis po; ig txt + blue qtz eyes evident but fol't
402315	West	427484.88	5266829.41	0.5	0.577	HDZ	90	mod fol't HDZ w 45cm qtz vn w tr py clusters
402316	West	427488.76	5266834.13	0.5	4.557	HDZ	90	mod fol't chl+ Fe cb altd HDZ w 45cm qtz vn w fe-cb clots hosting 10% po, 7% py, 5% cpy semi-

								massive and intergrown around qtz xls
402317	West	427489.40	5266833.90	0.35	0.708	HDZ	90	mod fol't chl+ Fe cb altd HDZ w 45cm qtz vn w fe-cb clots hosting 1% po, 1% py, % cpy
402318	West	427491.55	5266832.10	0.5	0.01	HDZ	50	wkly fol't HDZ chl-cb altd hosting 1% py, 1% cpy, 1% po // fol'n w 25cm qtz-fe cb intergrowths hosting tr-1% py
402319	West	427491.59	5266832.71	0.5	0.028	HDZ	90	wkly fol't HDZ chl-cb altd hosting 1% py, 1% cpy, 1% po // fol'n w 45m qtz-fe cb intergrowths + chl clots hosting tr-1% py
402320	West	427491.59	5266833.15	0.5	10.2	HDZ	40	wk-mod fol't and 's' folded HDZ w pv strong cb + fol'n // cb and 2-3% py // fol'n hosting 20cm bx'd qtz - Fe carb infilled w 2% py+spahl, <1% cpy
402321	West	427491.63	5266833.73	0.7	1.628	HDZ	20	mod fol't chl-cb altd HDZ w <1% py // fol'n hosting 15cm qtz boudins w 1% py, 1% cpy
402322	West	427495.43	5266832.83	0.6	0.925	HDZ	35	wk-mod fol't chl-cb altd HDZ w tr py + po // fol'n hosting 20 cm qtz + fe cb vn w tr cpy
402323	West	427495.40	5266833.27	0.45	32	HDZ	90	stongly fol't chl-cb altd HDZ w 40cm gry strained qtz + Fe carb w deformed fol't wallrock contacts; 3% insttial cpy
402325	West	427495.35	5266833.63	0.45	22.2	HDZ	90	stongly fol't chl-cb altd HDZ w 45cm gry strained qtz - lesser fe cb w 2% inst cpy
402326	West	427496.62	5266833.04	0.25	4.628	HDZ	60	wk-mod fol't chl-cb altd HDZ w 15cm qtz vn rimmed w chl w 2-3% cpy
402327	West	427496.89	5266828.57	0.45	86.8	TNLT BX - HDZ CNTCT	100	Tnlt Bx-HDZ contact hosted 45cm qtz vn w 2% netty cpy, 2% netty py 1 spk VG
402328	West	427498.02	5266830.55	0.35	0.139	HDZ	70	wk-mod fol't HDZ chl-cb altd w 25cm milky white qtz + cb frc infill vn w 1% cpy, 1% py along contact margin of vn-HDZ
402329	West	427499.17	5266835.82	0.4	5.07	HDZ - TNLT BX CNTCT	10	contact hosted 5cm discordant qtz vn w 1-2% py + malachite on frcs
402330	West	427499.98	5266835.54	0.35	10.7	HDZ	85	wk-mod fol't HDZ hosting 30cm qtz vn w 2% cpy 3% py + malachite

402331	West	427500.91	5266835.76	0.5	103	HDZ	50	strongly deformed/folded HDZ w ch bi xls // fol'n + ser-chl-cb altn hosting 15cm bx'd qtz vn w semi mass cpy (30%) bo (<1%) malachite
402332	West	427499.57	5266835.20	0.35	27.9	HDZ	60	v wkly fol't HDZ w pv chl altn assoc w sulphs hosting 15-20cm qtz-Fe carb vn w 35% cpy
402333	West	427499.90	5266835.26	0.35	11.4	HDZ	100	35cm qtz vn w mass-semi mass 7% cpy 7% py
402334	West	427499.96	5266834.70	1	0.052	HDZ	0	wkly fol't HDZ w wk pv sil, mod pv cb, wk // fol cb altn
402335	West	427499.89	5266833.85	0.5	37.2	HDZ	90	HDZ w 45cm bx'd qtz-Fe carb vn; mtx vuggy and chaotic w 15-20% py 3% cpy
402337	West	427500.76	5266834.03	0.4	4.806	HDZ	25	gossanous HDZ wk-mod fol't w strong pv chl altn hosting 10cm qtz-cb vn w tr py+cpy
402338	West	427502.56	5266833.56	0.45	15	HDZ	20	HDZ wk-mod fol't w chl-cb altn hosting 10cm qtz w 7% cpy 2% py + malachite along vn-wallrock contact
402339	West	427503.74	5266833.18	0.35	64.8	HDZ	60	wk-mod fol't HDZ w wk sil altn + tr py hosting 20cm drk gry strained qtz vn w 2% cpy, 3% py netty stringer + 6 spks VG
402340	West	427499.81	5266828.04	0.3	9.74	HDZ-DYKE CNTCT	0	contact zone w 2% fol // py 1% + 1% fol // cpy
402341	West	427505.72	5266828.27	0.55	0.185	HDZ	0	wk fol't HDZ w cg blue qtz eyes strong pv chl, wk loc + wispy cb altn
402342	West	427505.73	5266828.80	0.55	0.134	HDZ	20	wk fol't HDZ w wk pv sil, mod-strong pv chl, wk-mod cb altn hosting 10cm qtz w euhedral Fe-cb intergrowths
402343	West	427505.76	5266829.33	0.6	0.241	HDZ	10	wk fol't HDZ w wk pv sil, mod-strong pv chl, wk-mod cb altn, tr py hosting 5cm qtz vn w minor fe-cb
402344	West	427505.16	5266829.89	0.6	0.008	HDZ	0	wk fol't HDZ w cg blue qtz eyes strong pv chl, wk loc + wispy cb altn, diss py <1% // fol'n
402345	West	427505.18	5266830.56	0.8	0.279	HDZ	75	wk-mod fol't HDZ w chl-cb altn hosting 60cm qtz +/- fe-cb vn w tr py + cpy
402346	West	427505.23	5266831.21	0.6	0.005	HDZ	0	mod fol't HDZ w chl-cb altn

402347	West	427505.24	5266831.84	0.6	0.005	HDZ	0	mod fol't HDZ w chl-cb altn
402349	West	427505.53	5266830.53	0.5	13.6	HDZ	60	mod fol't HDZ w chl-cb altn hosting 30cm qtz +/- Fe carb w 1% cpy 1% py intergrown b/w qtz xls
402350	West	427509.13	5266830.44	0.7	0.035	HDZ	30	mod fol't HDZ w chl-cb altn hosting 20cm qtz vn w tr py, cpy
402351	West	427514.43	5266820.75	0.3	0.42	TNLT BX SHR	100	30cm qtz -tourmaline vn w 7% semi mass py, 3% semi-mass cpy
402352	West	427510.89	5266820.92	0.5	0.024	TNLT BX SHR	0	shr zn in tonalite breccia w wk pv sil, patchy wk bi, strong pv chl, mod fol // + wispy cb altn and 3-5cm wide mass py vn
402353	West	427509.65	5266820.37	0.35	1.316	TNLT BX SHR	15	shr zn in tonalite breccia w wk pv sil, patchy wk bi, strong pv chl, mod fol // + wispy cb altn hosting 5cm qtz vn w 20% py, 2% cpy
402354	West	427509.59	5266820.73	0.35	0.038	TNLT BX SHR	0	shr zn in tonalite breccia w wk pv sil, patchy wk bi, strong pv chl, mod fol // + wispy cb altn hosting 2% py along fol'n planes
402355	West	427505.30	5266819.62	0.4	2.059	TNLT BX SHR	50	shr zn in tonalite breccia w wk pv sil, patchy wk bi, strong pv chl, mod fol // + wispy cb altn hosting irreg 20cm qtz vn w 90% mass py
402356	West	427505.31	5266819.23	0.4	0.025	TNLT BX SHR	0	shr zn in tonalite breccia w wk pv sil, patchy wk bi, strong pv chl, mod fol // + wispy cb altn
402357	West	427504.31	5266819.37	0.35	0.678	TNLT BX SHR	15	shr zn in tonalite breccia w wk pv sil, patchy wk bi, strong pv chl, mod fol // + wispy cb altn hosting 5cm qtz vn mass py; 50% py thrght sample
402358	West	427501.95	5266819.33	0.45	0.162	TNLT BX SHR	15	shr zn in tonalite breccia w wk pv sil, patchy wk bi, strong pv chl, mod fol // + wispy cb altn hosting 7cm w 95% mass py
402359	West	427500.49	5266819.23	0.5	0.137	TNLT BX SHR	0	shr zn in tonalite breccia w wk pv sil, patchy wk bi, strong pv chl, mod fol // + wispy cb altn hosting 2% frc/shr host py
402360	West	427496.53	5266817.61	0.6	0.056	QDR-TNLT BX CNTCY	25	contact hosted qtz-fe cb vn 15cm wide w 1% spotty cpy + malachite

						VN		
402361	West	427496.53	5266818.18	0.5	0.006	TNLT BX SHR	0	shr zn in tonalite breccia w wk pv sil, patchy wk bi, strong pv chl, mod fol // + wispy cb altn
402363	West	427491.40	5266817.81	0.5	0.225	MFC DYKE OFF SET QV	40	mfc dyke off set qtz blowout vn 20cm w patchy fe-cb hosting 5-7% semi mass py
402364	West	427491.12	5266818.14	0.5	0.005	MFC DYKE OFF SET QV	50	mfc dyke off set qtz blowout vn 50cm qtz vn w chl selveges w minor cb and tr py
402365	West	427490.84	5266818.71	0.55	0.315	MFC DYKE OFF SET QV	35	mfc dyke off set qtz blowout vn 20cm wide w minor cb, tr py; vn is vuggy and rusty
402366	West	427487.46	5266818.24	0.5	0.066	DR	0	shr hosted diss + // fol'n py <1%, diss + // fol'n cpy <1%
402367	East	427613.33	5266834.24	0.65	27.1	HDZ	0	mod fol't light gry blu HDZ w mod pv sil, wk bi-chl, mod netty pv ser and mod pv/mtf chl; 2% cb stringers// foln, ~2% cpy
402368	East	427613.81	5266833.02	1	1.725	HDZ	50	strongly fol't light gry blu HDZ w mod pv sil, wk bi-chl, mod netty pv ser and mod pv/mtf chl w <1% each of blebby py, frc + fol'n // cpy adj to qtz hosting 50cm qtz vn w tr py-cpy
402369	East	427611.91	5266829.99	0.5	0.005	HDZ	0	strongly shrd HDZ w tr sulphs
402370	East	427611.87	5266830.59	0.5	0.019	HDZ	0	wk-mod fol't HDZ w chl-cb altn hosting <1% diss py
402371	East	427611.89	5266831.05	0.5	0.092	HDZ	0	strongly fol't HDZ w chl-cb altn hosting tr diss py
402372	East	427611.38	5266820.73	0.4	0.08	TNLT BX	5	tnlt bx hosted shr frc (qtz-py) w chl-ser altn halo and 2% py within irreg frcs
402373	East	427610.87	5266833.08	0.35	0.086	HDZ	40	wk-mod fol w strong pv chl HDZ hosting 15cm boudinaged qtz vn +/- cb w tr patchy py
402375	East	427610.96	5266833.41	0.45	0.034	HDZ	0	mod fol't HDZ w chl-cb altn hosting tr diss py
402376	East	427609.66	5266834.48	0.7	0.05	HDZ	10	mod fol't w strong locally shrd HDZ w chl-cn altn hosting 8cm boudinaged vuggy qtz vn
402377	East	427609.85	5266835.09	0.7	0.012	HDZ	5	mod fol't w strong locally shrd HDZ w chl-cn altn

								hosting 2cm qtz boudin
402378	East	427605.86	5266829.45	0.6	0.416	HDZ	0	mod fol't HDZ chl-cb altd w tr diss py
402379	East	427605.86	5266830.17	0.6	0.059	HDZ	0	mod fol't HDZ chl-cb altd w 1% diss py, patchy <1% cpy
402380	East	427605.85	5266830.55	0.5	0.777	HDZ	10	heavily shrd + fractured HDZ chl-cb altd w intermittent qtz boudins w no min
402381	East	427605.89	5266831.09	0.55	0.069	HDZ	0	mod fol't HDZ chl-cb altd w tr diss py
402382	East	427605.88	5266831.63	0.65	0.055	HDZ	0	mod fol't HDZ chl-cb altd w tr diss py
402383	East	427605.89	5266832.44	1	31.3	HDZ	55	wk-mod shrd HDZ netty ser altn w 55cm boudinaged qtz vn w shrd sil margins, 2% cpy, 1spk VG
402384	East	427604.63	5266829.88	1	0.907	HDZ	40	wk-mod fol't HDZ chl-cb-bi (xls) altn w 2 x 20cm qtz boudins hosting mass py 30%, cpy 2%
402385	East	427606.05	5266835.00	0.7	0.026	HDZ	60	wk-mod fol't HDZ chl-cb altn hosting 40cm qtz +/- fe cb vn w 60% py, 2% cpy; vn ahs flow texture w bx'd qtz in sulphide mtx
402387	East	427603.19	5266834.67	0.7	0.173	HDZ	35	wk-mod fol't HDZ chl-cb altn hosting 25cm bx'd qtz vn w 40% py + tr cpy
402388	East	427599.57	5266831.00	0.5	0.005	HDZ	0	wkly fol't chl-cb altd HDZ
402389	East	427599.61	5266831.53	0.5	0.116	HDZ	0	wkly fol't chl-cb altd HDZ w tr cpy // fol'n
402390	East	427599.65	5266832.01	0.5	1.011	HDZ	0	mod fol't HDZ mod pv bi, mod patchy-netty ser, wk pv chl, fol // + pv fe-cb altn w tr frc py, 1-2% frc cpy
402391	East	427599.67	5266832.41	0.5	0.764	HDZ	5	mod fol't HDZ mod pv bi, mod patchy-netty ser, wk pv chl, fol // + pv fe-cb altn w tr frc py, 1-2% frc cpy
402392	East	427599.72	5266832.92	0.5	0.017	HDZ	0	wkly fol't chl-cb altd HDZ
402393	East	427600.31	5266834.87	0.5	0.127	HDZ	5	strong goss shrd HDZ chl-cb altn w 2cm wideqtz vn
402394	East	427596.53	5266830.28	1	0.112	HDZ	15	mod goss shr + HDZ chl-cb altd hosting 3 x 5cm shr vns qtz +/- fe cb w tr frc py, 1-2% frc cpy
402395	East	427597.25	5266835.43	0.3	0.131	HDZ	65	strongly deformed/foliated HDZ ser-chl-cb altn hosting 20cm qtz boudin w 15% vuggy py, 5%

								cpy
402396	East	427595.70	5266835.61	0.5	0.005	HDZ	0	foliated HDZ w wk pv ser, mod pv chl, mod-strong pv cb altn
402397	East	427595.69	5266836.07	0.35	1.497	HDZ	70	heavily shrd/fol't HDZ chl-cb altn hosting 25cm
402399	East	427594.23	5266832.04	0.75	0.24	HDZ	55	mod fol't HDZ chl-cb altn w shr hosted 40cm qtz boudin w 2% cpy, 1% py
402400	East	427593.70	5266832.38	0.2	1.792	HDZ	100	20cm bx't qtz +/- fe cb w mass ints py 3%, 2% cpy btx blu qtz xls
402401	East	427593.91	5266832.98	0.55	0.114	HDZ	20	mod-strong fol't chl-cb altd HDZ w 10cm boudinaged qtz vn hosting tr diss py
402402	East	427593.90	5266833.53	0.5	0.017	HDZ	25	mod-strong fol't chl-cb altd HDZ w 10cm boudinaged qtz vn hosting tr diss py
402403	East	427593.87	5266834.11	0.55	0.005	HDZ	0	mod-strong fol't chl-cb altd HDZ w strong chl shr x-cutting
402404	East	427590.73	5266829.85	0.75	6.46	HDZ	95	70cm qtz-Fe carb boudins HDZ hosted w 4% mass ints py, 1% mass ints cpy
402405	East	427590.15	5266832.22	0.45	0.336	HDZ	25	strong fol't w shr frcs chl-cb altd HDZ w 3 x 3.5cm qtz boudins hosting tr dis py
402406	East	427590.21	5266832.77	0.5	1.387	HDZ	0	strong fol't w shr frcs chl-cb altd HDZ
402407	East	427590.27	5266833.31	0.65	0.044	HDZ	0	strong fol't w shr frcs chl-cb altd HDZ w tr fol // cpy
402408	East	427587.76	5266833.09	0.35	0.058	HDZ	30	strong fol/shrd chl-cb altd HDZ w 2 x 5cm qtz boudins hosting 1% cpy on margins of vn
402409	East	427587.35	5266831.90	0.65	0.091	HDZ	75	heavily shrd chl-cb altd HDZ 50cm qtz boudins, no sulphs
402410	East	427587.35	5266832.50	0.55	0.397	HDZ	10	intense rusty shrd HDZ w chl-cb altn hosting 7cm qtz boudin w no sulphs
402411	East	427583.54	5266833.69	0.45	0.405	HDZ	35	strongly fol't chl-cb altd HDZ w 15cm qtz vn hosting 1% py, 1% cpy
402413	East	427583.81	5266835.96	0.4	0.006	HDZ	35	mod-strong fol't chl-cb altd HDZ w 15cm qtz-fe cb- trm boudin w tr py
402414	East	427581.08	5266829.95	0.55	40.5	HDZ	55	mod-wk fol't chl-cb HDZ w bx'd and boudinaged 30cm qtz vn w 2% cpy + malchite

402415	East	427581.83	5266833.52	0.6	0.097	HDZ	35	wk-mod fol't chl-cb altd HDZ w 20cm boudinaged qtz vn w no sulphs
402416	East	427582.21	5266835.67	0.4	0.005	HDZ	0	strong fol't chl-cb HDZ
402417	East	427577.82	5266833.06	0.8	0.014	HDZ	35	strong fol't chl-cb HDZ w 20cm and 8cm qtz - fe cb boudins w tr py, cpy
402418	East	427575.53	5266830.37	0.55	0.164	HDZ-TNLT CNTCT	35	mod fol't chl-cb-sil altd HDZ w 20cm bx't qtz-cb vn w 10cm semi mass py
402419	East	427575.54	5266830.80	0.3	2.519	HDZ	40	mod fol't chl-cb-sil-ser HDZ hosting 2% diss py, 4% blebby cpy and 8cm and 2cm qtz-fe cb-chl vn w 4% cpy
402420	East	427575.54	5266831.32	0.6	0.058	HDZ	0	mod fol't cb altd HDZ
402421	East	427575.55	5266831.80	0.45	0.078	HDZ	0	mod fol't cb-chl-sil-ser altd HDZ
402422	East	427575.71	5266832.98	0.6	0.978	HDZ	35	mod fol't cb-chl-ser-sil altd HDZ w 14cm and 9cm qtz-fe cb-chl w 0.5% py + malachite
402423	East	427575.75	5266833.90	0.5	0.024	HDZ	0	mod fol't chl-cb-ser-sil altd HDZ
402425	East	427575.77	5266834.47	0.8	0.315	HDZ	2	mod fol't chl-cb altd HDZ w 1% diss py
402426	East	427575.80	5266835.08	0.5	0.009	HDZ	10	mod fol't chl-cb-ser-sil altd HDZ w 2cm and 3cm qtz-fe cb vn hosting tr diss py
402427	East	427575.84	5266835.59	0.75	0.045	HDZ	0	mod fol't chl-cb-sil-ser altd HDZ
402428	East	427575.85	5266836.06	0.55	0.086	HDZ-TNLT BX CNTCT	0	mod fol't cb altd HDZ w 3% diss + frc controlled py, tr cpy
402429	East	427570.29	5266831.59	0.7	1.7	HDZ	60	mod fol't chl-cb-sil altd HDZ w 45cm qtz-chl-cb vn w 8% cpy, 2% cpy
402430	East	427569.73	5266832.26	0.5	7.2	HDZ	50	mod fol't chl-cb altd HDZ w 16cm + 6cm qtz - Fe carb vn set w 3% py
402431	East	427570.44	5266836.29	0.65	2.276	HDZ-TNLT BX CNTCT	35	mod fol't chl-cb-ser altd HDZ hosting 3% blebby py, tr diss cpy w 25cm qtz-fe cb-chl vn w 8% py
402432	East	427568.17	5266827.96	0.35	1.636	QDR	60	mod fol't chl-cb-ser-sil altd HDZ hosting 2-3% blebby asp w 20cm qtz-hem-fe cb vn w 15% py
402433	East	427566.78	5266831.21	0.55	0.006	HDZ-	3	HDZ-tnlt bx contact hosted qtz-cb vn 2cm wide w

						TNLT BX CNTCT		tr diss py, tr blebby cpy
402434	East	427566.75	5266831.82	0.5	0.005	HDZ	2	mod fol't chl-cb-sil altd HDZ w 1cm qtz vn hosting tr diss py
402435	East	427566.74	5266832.38	0.5	0.532	HDZ	5	mod fol't chl-cb-ser-sil altd HDZ hosting 2-3% py blebs w 3cm qtz-fe cb vn w 5% py
402437	East	427566.71	5266832.85	0.5	1.001	HDZ	5	mod fol't chl-cb-ser-sil altd HDZ hosting 2-3% py blebs w 3cm qtz-fe cb vn w 5% py
402438	East	427566.69	5266833.43	0.7	0.173	HDZ	5	mod fol't chl-cb-ser-sil altd HDZ hosting tr diss py w 4cm qtz-fe cb vn
402439	East	427566.66	5266834.03	0.5	0.036	HDZ	0	mod fol't chl-cb altd HDZ
402440	East	427566.65	5266834.55	0.5	0.081	HDZ	8	mod fol't chl-cb altd HDZ w 4cm qtz-cb vn
402441	East	427566.61	5266835.22	0.65	0.689	HDZ	25	mod fol't chl-cb altd w 8% blebby py and poss tr covelite HDZ hosting 10cm and 5cm qtz vns w 10% py
402442	East	427566.59	5266835.71	0.55	0.128	HDZ- TNLT BX CNTCT	3	mod fol't chl-cb altd w 2% bleb py HDZ hosting 1.5cm qtz-chl-cb vn hosting tr cpy, 5% py
402443	East	427566.56	5266836.80	1.2	1.016	TNLT BX	0	chl altd tnlt bx
402444	East	427566.52	5266837.82	0.8	0.027	TNLT BX	2	mod pv sil, wk pv sil, wk inst chl, wk pv cb altd tnlt bx w 2cm qtz vn
402445	East	427566.48	5266838.49	0.5	0.041	TNLT BX	0	wk pv sil, wk pv ser, wk inst chl, wk inst cb altd tnlt bx w 1% frc controlled py
402446	East	427562.36	5266835.97	0.5	0.026	HDZ	15	mod-strong fol't chl-cb altd HDZ w 7cm qtz-fe cb vn
402447	East	427562.33	5266836.47	0.5	2.111	HDZ	40	strong fol't chl-cb-ser altd HDZ w 20cm qtz-cb vn hosting 1% cpy
402449	East	427560.91	5266831.94	0.6	4.35	HDZ	50	wk-mod fol't chl-cb altd w 1-2% fol // py, 4% fol // cpy HDZ w 30cm qtz-cb vn hosting tr sulphs
402450	East	427561.04	5266836.17	0.45	0.572	HDZ	95	wk-mod fol't chl-cb altd HDZ w 40cm qtz-fe cb hosting 2% inst cpy, 1% inst po
402451	East	427558.78	5266825.88	0.4	0.335	QDR	0	quartz diorite hosted shr zn w mod pv chl, mod pv cb hosting 2% vuggy + frc fill py, 1% vuggy +

								frc fill cpy
402452	East	427559.84	5266836.54	0.5	3.18	HDZ	50	mod-strong folded chl-cb altd HDZ hosting 25cm qtz-fe cb intergrowth vn w 3% py, 1% cpy
402453	East	427559.79	5266836.94	0.5	0.383	HDZ	0	strong fol't chl-cb HDZ w 1% frc + fol // py, tr frc + fol // cpy
402454	East	427559.73	5266837.29	0.5	0.958	HDZ-TNLT BX CNTCT	0	strong fol't chl-cb HDZ w 1% frc + fol // py, tr frc + fol // cpy at tnlt bx contact
402455	East	427558.33	5266837.84	0.45	3.29	HDZ	55	strong fol't chl-cb HDZ w 15cm and 10cm qtz boudins hosting 3% inst cpy, 3% inst po
402456	East	427557.93	5266832.79	0.6	2.096	HDZ	10	strong fol't chl-cb-bi altd HDZ w 7cm qtz boudin hosting 2% cpy in qtz and accumulated in strain shadows
402457	East	427556.79	5266831.67	0.4	0.681	HDZ-QDR CNTCT	60	contact of HDZ (intense pv chl w 3% py 1% cpy // fol) and quartz diorite w 25cm qtz boudins +/- fe cb w 20% semi mass py+cpy
402458	East	427554.91	5266826.55	0.4	0.129	QDR	10	quartz diorite w strong pv chl, mod-strong pv + // fol'n altn hosting 3% mass py filled vuggy frcs
402459	East	427552.79	5266832.41	0.4	0.69	HDZ	50	mod fol't chl-cb altd HDZ w 20cm qtz-fe cb, tr py
402460	East	427552.78	5266832.83	0.4	5.41	HDZ	95	mod fol't chl-cb altd HDZ w 35cm qtz +/- Fe carb boudins w 3% cpy 1% po
402461	East	427552.76	5266833.30	0.5	0.03	HDZ	10	mod fol't chl-cb altd HDZ w 2x vuggy qtz-cb vnlt 3cm wide, tr sulphs
402463	East	427552.60	5266836.15	0.6	0.403	HDZ	75	mod fol't chl-cb altd HDZ w 30cm and 15cm qtz-chl boudins w 2% py
402464	East	427549.85	5266831.03	0.6	0.099	HDZ	10	wk-mod shrd strong pv chl, mod-strong fol // + wispy cb altd HDZ w 1% fol // py, 1% fol // cpy
402465	East	427549.83	5266831.61	0.5	0.045	HDZ	10	strong shrd strong pv chl, mod-strong fol // + wispy cb altd HDZ w 1% fol // py, 1% fol // cpy
402466	East	427549.81	5266832.25	0.45	0.019	HDZ	10	wk-mod shrd strong pv chl, mod-strong fol // + wispy cb altd HDZ w 1% fol // py, 1% fol // cpy
402467	East	427549.80	5266832.77	0.5	0.074	HDZ	10	wk-mod shrd strong pv chl, mod-strong fol // + wispy cb altd HDZ w 1% fol // py, 1% fol // cpy

402468	East	427549.80	5266833.15	0.35	0.135	HDZ	10	wk-mod shrd strong pv chl, wk fol // bi, mod-strong fol // + wispy cb altd HDZ w 2% fol // py, 1% fol // cpy
402469	East	427549.78	5266833.50	0.5	1.028	HDZ	60	wk-mod shrd strong pv chl, wk fol // bi, mod-strong fol // + wispy cb altd HDZ w 2% fol // py, 1% fol // cpy hosting 30cm qtz-cb vn w 15% semi mass cpy, 5% semi mass po
402470	East	427549.77	5266834.10	0.5	8.07	HDZ	50	wk-mod shrd strong pv chl, wk fol // bi, mod-strong fol // + wispy cb altd HDZ w 2% fol // py, 1% fol // cpy hosting 25cm qtz boudins w semi mass cpy (15%) po (5%)
402471	East	427549.77	5266834.59	0.5	0.082	HDZ	10	wk-mod shrd strong pv chl, mod-strong fol // + wispy cb altd HDZ w 1% fol // py, 1% fol // cpy
402472	East	427549.77	5266835.00	0.5	0.037	HDZ	10	wk-mod shrd strong pv chl, mod-strong fol // + wispy cb altd HDZ w 1% fol // py, 1% fol // cpy
402473	East	427549.76	5266835.42	0.5	6.68	HDZ	50	wk-mod shrd strong pv chl, wk fol // bi, mod-strong fol // + wispy cb altd HDZ w 2% fol // py, 1% fol // cpy hosting 25cm boudinaged-bx'd qtz in sulphide mtx w 65% po 5% cpy
402475	East	427549.76	5266835.88	0.5	0.498	HDZ	10	wk-mod shrd strong pv chl, mod-strong fol // + wispy cb altd HDZ w 1% fol // py, 1% fol // cpy
402476	East	427548.69	5266832.09	0.45	3.58	HDZ	65	strong fol't chl-cb altd HDZ hosting 30cm boudinaged qtz-cb vn w 3% py, 1% cpy, 1% po
402477	East	427548.22	5266836.09	0.45	4.249	HDZ	90	strong fol't chl-cb altd HDZ hosting 40cm qtz vn at times bx't w mass sulphide infill mtx, 35% po, 2% cpy, 1% py
402478	East	427548.50	5266833.50	1	0.58	HDZ	10	strong fol't gossanous chl-cb altd HDZ cut by multiple cm scale qtz vnlt w tr min
402479	East	427543.68	5266827.64	0.35	0.293	TNLT BX	60	tnlt bx hosted qtz vn blowout 20cm width w mass clots of py, 5%
402480	East	427542.65	5266832.75	0.45	0.011	HDZ	0	wk-mod fol't chl-cb altd HDZ w tr min
402481	East	427542.60	5266833.15	0.3	1.852	HDZ	10	wk-mod fol't chl-cb altd HDZ cut by cm sized qtz vns w 2% cpy
402482	East	427542.59	5266833.69	0.55	24.8	HDZ	55	mod-strong fol't chl-cb alt HDZ hosting 30cm

								boudinaged-bx'd qtz vn w 3% cpy 5% sulphide mtx
402483	East	427540.01	5266836.19	0.35	0.81	HDZ	0	strong fol't chl-cb altd HDZ w tr sulphides
402484	East	427539.33	5266833.93	1	1.289	HDZ	10	strong shrd vuggy chl-cb altd w bi xls // fol'n HDZ hosting 1% fol // py
402485	East	427538.08	5266831.61	0.9	0.063	HDZ	20	mod fol't w intense pv chl altd HDZ hosting 20cm qtz-cb vn w tr py

DATUM: NAD 83 UTM ZONE 17T

ASSAYS < 2 g/t Au AA; ASSAYS 2-5 g/t Au Gravimetrics; ASSAYS >5g/t Au Pulp Metallics

APPENDIX 4: Gold Assay - Actlabs Certificates



Date Submitted: 23-Sep-15
Invoice No.: A15-08049-Au
Invoice Date: 15-Oct-15
Your Reference: CLAM-253

Trelawney Mining and Exploration
PO BOX 100
Gogama ON P0M 1W0
Canada

ATTN: Alan Smith

CERTIFICATE OF ANALYSIS

66 Rock samples were submitted for analysis.

The following analytical package was requested:

Code 1A2-50-(ppm)Sudbury Au - Fire Assay AA

REPORT **A15-08049-Au**

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Notes:

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

CERTIFIED BY:

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

Emmanuel Esemé , 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



Results

Analyte Symbol	Au	Au + 100 mesh	Au - 100 mesh (A)	Au - 100 mesh (B)	Total Au	+ 100 mesh	- 100 mesh	Total Weight	AU_SFA_PPM
Unit Symbol	ppm	g/mt	g/mt	g/mt	g/mt	g	g	g	ppm
Lower Limit	0.005	0.07	0.07	0.07	0.07				0.07
Method Code	FA-AA	FA-MeT	FA-MeT	FA-MeT	FA-MeT	FA-MeT	FA-MeT	FA-MeT	FA-MeT
402301	0.823								
402302	0.165								
402303	< 0.005								
402304	< 0.005								
402305	0.006								
402306	0.015								
402307	0.025								
402308	< 0.005								
402309	0.010								
402310	1.582								
402311	0.062								
402312	0.997								
402313	< 0.005								
402314	0.121								
402315	0.577								
402316	4.557								
402317	0.708								
402318	0.010								
402319	0.028								
402320	> 5.000	152	4.61	4.30	10.2	19.50	482.49	501.99	10.2
402321	1.628								
402322	0.925								
402323	> 5.000	622	19.4	18.9	32.0	10.54	485.60	496.11	32.0
402324	0.005								
402325	> 5.000	327	11.5	12.5	22.2	16.18	486.10	502.30	22.2
402326	4.628								
402327	> 5.000	594	69.7	68.8	86.8	16.69	484.00	500.73	86.8
402328	0.139								
402329	> 5.000	13.5	4.97	4.47	5.07	20.10	484.50	504.62	5.07
402330	> 5.000	39.4	8.62	9.82	10.7	19.51	370.30	389.77	10.7
402331	> 5.000	1840	42.8	44.4	103	16.29	478.70	495.03	103
402332	> 5.000	82.6	25.6	27.2	27.9	13.31	484.90	498.18	27.9
402333	> 5.000	20.8	11.1	10.8	11.4	20.93	479.00	499.89	11.4
402334	0.052								
402335	> 5.000	714	14.9	15.4	37.2	15.89	487.70	503.55	37.2
402336	0.243								
402337	4.806								
402338	> 5.000	209	8.30	8.98	15.0	15.93	487.50	503.40	15.0
402339	> 5.000	831	35.7	40.2	64.8	16.76	478.00	494.75	64.8
402340	> 5.000	138	6.19	5.40	9.74	15.44	500.10	515.51	9.74
402341	0.185								
402342	0.134								
402343	0.241								
402344	0.008								
402345	0.268								
402346	0.005								
402347	0.005								
402348	< 0.005								

Analyte Symbol	Au	Au + 100 mesh	Au - 100 mesh (A)	Au - 100 mesh (B)	Total Au	+ 100 mesh	- 100 mesh	Total Weight	AU_SFA_PPM
Unit Symbol	ppm	g/mt	g/mt	g/mt	g/mt	g	g	g	ppm
Lower Limit	0.005	0.07	0.07	0.07	0.07				0.07
Method Code	FA-AA	FA-MeT	FA-MeT	FA-MeT	FA-MeT	FA-MeT	FA-MeT	FA-MeT	FA-MeT
402349	> 5.000	117	9.41	8.62	13.6	21.19	480.50	501.65	13.6
402350	0.035								
402351	0.420								
402352	0.024								
402353	1.316								
402354	0.038								
402355	1.968								
402356	0.025								
402357	0.678								
402358	0.162								
402359	0.137								
402360	0.056								
402361	0.006								
402362	1.426								
402363	0.225								
402364	< 0.005								
402365	0.321								
402366	0.066								

QC

Analyte Symbol	Au	Total Au	Total Weight	AU_SFA_PPM
Unit Symbol	ppm	g/mt	g	ppm
Lower Limit	0.005	0.07		0.07
Method Code	FA-AA	FA-MeT	FA-MeT	FA-MeT
HiSiIP1 Meas		11.9		
HiSiIP1 Cert		12.05		
HiSiIP1 Meas		12.1		
HiSiIP1 Cert		12.05		
OxD108 Meas	0.415			
OxD108 Cert	0.414			
OxD108 Meas	0.398			
OxD108 Cert	0.414			
OxD108 Meas	0.402			
OxD108 Cert	0.414			
OxD108 Meas	0.411			
OxD108 Cert	0.414			
SG66 Meas	1.075			
SG66 Cert	1.086			
SG66 Meas	1.032			
SG66 Cert	1.086			
SG66 Meas	1.062			
SG66 Cert	1.086			
OxL118 Meas		5.78		
OxL118 Cert		5.828		
OxL118 Meas		5.85		
OxL118 Cert		5.828		
402310 Orig	1.623			
402310 Dup	1.541			
402345 Orig	0.257			
402345 Dup	0.279			
402355 Orig	1.877			
402355 Dup	2.059			
402365 Orig	0.327			
402365 Dup	0.315			
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		< 0.07	0.00000	< 0.07
Method Blank		< 0.07	0.00000	< 0.07
Method Blank		< 0.07	0.00000	< 0.07
Method Blank		< 0.07	0.00000	< 0.07
Method Blank	< 0.005			
Method Blank	< 0.005			



Date Submitted: 24-Sep-15
Invoice No.: A15-08179-Au
Invoice Date: 21-Oct-15
Your Reference:

Trelawney Mining and Exploration
PO BOX 100
Gogama ON P0M 1W0
Canada

ATTN: Alan Smith

CERTIFICATE OF ANALYSIS

63 Rock samples were submitted for analysis.

The following analytical package was requested:

Code UT-6 Total Digestion ICP & ICP/MS

REPORT **A15-08179-Au**

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Notes:

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

CERTIFIED BY:

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

Emmanuel Esemé , Ph.D.
Quality Control





Date Submitted: 24-Sep-15
Invoice No.: A15-08179-Au
Invoice Date: 21-Oct-15
Your Reference:

Trelawney Mining and Exploration
PO BOX 100
Gogama ON P0M 1W0
Canada

ATTN: Alan Smith

CERTIFICATE OF ANALYSIS

63 Rock samples were submitted for analysis.

The following analytical package was requested:

Code 1A2-50-(ppm)Sudbury Au - Fire Assay AA

REPORT **A15-08179-Au**

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Notes:

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

CERTIFIED BY:

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

Emmanuel Esemé , Ph.D.
Quality Control



Results

Analyte Symbol	Au	Au
Unit Symbol	ppm	g/tonne
Lower Limit	0.005	0.02
Method Code	FA-AA	FA-GRA
402367	> 5.000	29.8
402368	1.725	
402369	0.005	
402370	0.019	
402371	0.092	
402372	0.080	
402373	0.086	
402374	< 0.005	
402375	0.034	
402376	0.042	
402377	0.012	
402378	0.416	
402379	0.059	
402380	0.777	
402381	0.069	
402382	0.055	
402383	> 5.000	36.8
402384	0.907	
402385	0.026	
402386	2.148	
402387	0.218	
402388	< 0.005	
402389	0.116	
402390	1.011	
402391	0.764	
402392	0.017	
402393	0.127	
402394	0.112	
402395	0.131	
402396	< 0.005	
402397	1.497	
402398	< 0.005	
402399	0.240	
402400	1.792	
402401	0.114	
402402	0.017	
402403	< 0.005	
402404	4.974	4.89
402405	0.336	
402406	1.387	
402407	0.044	
402408	0.058	
402409	0.091	
402410	0.397	
402411	0.440	
402412	1.013	
402413	0.006	
402414	> 5.000	65.5
402415	0.097	

Analyte Symbol	Au	Au
Unit Symbol	ppm	g/tonne
Lower Limit	0.005	0.02
Method Code	FA-AA	FA-GRA
402416	< 0.005	
402417	0.014	
402418	0.164	
402419	2.519	
402420	0.058	
402421	0.073	
402422	0.978	
402423	0.024	
402424	< 0.005	
402425	0.315	
402426	0.009	
402427	0.045	
402428	0.086	
402429	1.700	

QC

Analyte Symbol	Au	Au
Unit Symbol	ppm	g/tonne
Lower Limit	0.005	0.02
Method Code	FA-AA	FA-GRA
OxD108 Meas	0.411	
OxD108 Cert	0.414	
OxD108 Meas	0.406	
OxD108 Cert	0.414	
OxD108 Meas	0.411	
OxD108 Cert	0.414	
SG66 Meas	1.061	
SG66 Cert	1.086	
SG66 Meas	1.068	
SG66 Cert	1.086	
SG66 Meas	1.061	
SG66 Cert	1.086	
OxK110 Meas		3.59
OxK110 Cert		3.602
OxL118 Meas		5.82
OxL118 Cert		5.828
402376 Orig	0.033	
402376 Dup	0.050	
402387 Orig	0.264	
402387 Dup	0.173	
402396 Orig	< 0.005	
402396 Dup	< 0.005	
402411 Orig	0.474	
402411 Dup	0.405	
402416 Split Orig	< 0.005	
402416 Split	0.007	
402421 Orig	0.069	
402421 Dup	0.078	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank	< 0.005	
Method Blank		< 0.02
Method Blank		< 0.02
Method Blank	< 0.005	
Method Blank	< 0.005	



Date Submitted: 24-Sep-15
Invoice No.: A15-08179-1A4
Invoice Date: 11-Dec-15
Your Reference:

Trelawney Mining and Exploration
PO BOX 100
Gogama ON P0M 1W0
Canada

ATTN: Alan Smith

CERTIFICATE OF ANALYSIS

63 Rock samples were submitted for analysis.

The following analytical package was requested:

Code 1A2-50-(ppm)Sudbury Au - Fire Assay AA

REPORT **A15-08179-1A4**

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

Notes:

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

CERTIFIED BY:

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

Emmanuel Esemé , Ph.D.
Quality Control



Results

Analyte Symbol	Au + 100 mesh	Au - 100 mesh (A)	Au - 100 mesh (B)	Total Au	+ 100 mesh	- 100 mesh	Total Weight	AU_SFA_PPM
Unit Symbol	g/mt	g/mt	g/mt	g/mt	g	g	g	ppm
Lower Limit	0.07	0.07	0.07	0.07				0.07
Method Code	FA-MeT	FA-MeT	FA-MeT	FA-MeT	FA-MeT	FA-MeT	FA-MeT	FA-MeT
402367	398	10.6	11.5	27.1	21.83	502.60	524.42	27.1
402383	314	19.1	21.9	31.3	20.32	533.50	553.78	31.3
402404	30.5	5.79	5.11	6.46	20.68	490.00	510.70	6.46
402414	538	18.0	20.2	40.5	21.58	500.80	522.40	40.5

QC

Analyte Symbol	Total Au	Total Weight	AU_SFA_PPM
Unit Symbol	g/mt	g	ppm
Lower Limit	0.07		0.07
Method Code	FA-MeT	FA-MeT	FA-MeT
HiSiIP1 Meas	11.9		
HiSiIP1 Cert	12.05		
OxL118 Meas	5.79		
OxL118 Cert	5.828		
Method Blank	< 0.07	0.00000	< 0.07
Method Blank	< 0.07	0.00000	< 0.07



Date Submitted: 28-Sep-15
Invoice No.: A15-08221-Au
Invoice Date: 21-Oct-15
Your Reference: CLAM-253

Trelawney Mining and Exploration
PO BOX 100
Gogama ON P0M 1W0
Canada

ATTN: Alan Smith

CERTIFICATE OF ANALYSIS

57 Rock samples were submitted for analysis.

The following analytical package was requested:

Code UT-6 Total Digestion ICP & ICP/MS

REPORT **A15-08221-Au**

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Notes:

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

CERTIFIED BY:

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

Emmanuel Esemé , Ph.D.
Quality Control





Date Submitted: 28-Sep-15
Invoice No.: A15-08221-Au
Invoice Date: 21-Oct-15
Your Reference: CLAM-253

Trelawney Mining and Exploration
PO BOX 100
Gogama ON P0M 1W0
Canada

ATTN: Alan Smith

CERTIFICATE OF ANALYSIS

57 Rock samples were submitted for analysis.

The following analytical package was requested:

Code 1A2-50-(ppm)Sudbury Au - Fire Assay AA

REPORT **A15-08221-Au**

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

Notes:

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

CERTIFIED BY:

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

Emmanuel Esemé , Ph.D.
Quality Control



Results

Analyte Symbol	Au	Au	Au + 100 mesh	Au - 100 mesh (A)	Au - 100 mesh (B)	Total Au	+ 100 mesh	- 100 mesh	Total Weight	AU_SFA_PPM
Unit Symbol	ppm	g/tonne	g/mt	g/mt	g/mt	g/mt	g	g	g	ppm
Lower Limit	0.005	0.02	0.07	0.07	0.07	0.07				0.07
Method Code	FA-AA	FA-GRA	FA-MeT	FA-MeT	FA-MeT	FA-MeT	FA-MeT	FA-MeT	FA-MeT	FA-MeT
402430	> 5.000	24.5	125	3.96	4.48	7.20	12.04	477.41	489.45	7.20
402431	2.276									
402432	1.636									
402433	0.006									
402434	< 0.005									
402435	0.532									
402436	0.249									
402437	1.001									
402438	0.173									
402439	0.036									
402440	0.081									
402441	0.689									
402442	0.128									
402443	1.016									
402444	0.027									
402445	0.041									
402446	0.026									
402447	2.111									
402448	0.005									
402449	4.255	4.35								
402450	0.572									
402451	0.335									
402452	3.555	3.18								
402453	0.383									
402454	0.958									
402455	3.072	3.29								
402456	2.096									
402457	0.681									
402458	0.129									
402459	0.747									
402460	> 5.000	7.54	40.8	3.84	4.09	5.41	19.90	485.60	505.50	5.41
402461	0.030									
402462	1.392									
402463	0.403									
402464	0.099									
402465	0.045									
402466	0.019									
402467	0.074									
402468	0.135									
402469	1.028									
402470	> 5.000	5.82	80.2	4.87	5.15	8.07	19.65	463.20	482.85	8.07
402471	0.082									
402472	0.037									
402473	> 5.000	8.82	71.0	4.14	3.77	6.68	19.29	455.60	474.89	6.68
402474	< 0.005									
402475	0.498									
402476	> 5.000	5.45	31.4	2.55	2.21	3.58	20.67	479.60	500.22	3.58
402477	4.249	4.80								

Analyte Symbol	Au	Au	Au + 100 mesh	Au - 100 mesh (A)	Au - 100 mesh (B)	Total Au	+ 100 mesh	- 100 mesh	Total Weight	AU_SFA_PPM
Unit Symbol	ppm	g/tonne	g/mt	g/mt	g/mt	g/mt	g	g	g	ppm
Lower Limit	0.005	0.02	0.07	0.07	0.07	0.07				0.07
Method Code	FA-AA	FA-GRA	FA-MeT	FA-MeT	FA-MeT	FA-MeT	FA-MeT	FA-MeT	FA-MeT	FA-MeT
402478	0.580									
402479	0.293									
402480	0.011									
402481	1.852									
402482	> 5.000	24.8	162	16.2	14.7	21.9	21.00	453.48	474.48	21.9
402483	0.810									
402484	1.194									
402485	0.063									
402486	2.129									

QC

Analyte Symbol	Au	Au	Total Au	Total Weight	AU_SFA_PPM
Unit Symbol	ppm	g/tonne	g/mt	g	ppm
Lower Limit	0.005	0.02	0.07		0.07
Method Code	FA-AA	FA-GRA	FA-MeT	FA-MeT	FA-MeT
HiSiIP1 Meas			11.8		
HiSiIP1 Cert			12.05		
HiSiIP1 Meas			12.0		
HiSiIP1 Cert			12.05		
OxD108 Meas	0.401				
OxD108 Cert	0.414				
OxD108 Meas	0.397				
OxD108 Cert	0.414				
OxD108 Meas	0.414				
OxD108 Cert	0.414				
SG66 Meas	1.028				
SG66 Cert	1.086				
SG66 Meas	1.047				
SG66 Cert	1.086				
SG66 Meas	1.068				
SG66 Cert	1.086				
OxK110 Meas		3.59			
OxK110 Cert		3.602			
OxL118 Meas		5.79	5.79		
OxL118 Cert		5.828	5.828		
OxL118 Meas			5.82		
OxL118 Cert			5.828		
402439 Orig	0.036				
402439 Dup	0.036				
402449 Orig	3.942				
402449 Dup	4.568				
402459 Orig	0.690				
402459 Dup	0.803				
402474 Orig	< 0.005				
402474 Dup	< 0.005				
402479 Split Orig	0.293				
402479 Split	0.256				
402484 Orig	1.098				
402484 Dup	1.289				
Method Blank	< 0.005				
Method Blank	< 0.005				
Method Blank	< 0.005				
Method Blank		< 0.02			
Method Blank		< 0.02			
Method Blank			< 0.07	0.00000	< 0.07
Method Blank			< 0.07	0.00000	< 0.07
Method Blank			< 0.07	0.00000	< 0.07
Method Blank			< 0.07	0.00000	< 0.07
Method Blank	< 0.005				
Method Blank	< 0.005				

APPENDIX 5: Multi-Element - Actlabs Certificates



Date Submitted: 23-Sep-15
Invoice No.: A15-08049-UT6
Invoice Date: 15-Oct-15
Your Reference: CLAM-253

Trelawney Mining and Exploration
PO BOX 100
Gogama ON P0M 1W0
Canada

ATTN: Alan Smith

CERTIFICATE OF ANALYSIS

66 Rock samples were submitted for analysis.

The following analytical package was requested:

Code UT-6 Total Digestion ICP & ICP/MS

REPORT **A15-08049-UT6**

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Notes:

CERTIFIED BY:

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

Emmanuel Eseme , Ph.D.
Quality Control



Results

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
402301	13.3	2.00	0.89	6.18	2.07	1.64	0.5	65	118	1110	8.03	1.9	60	77.3	1.7	1.2	0.6	4.19	0.32	66.1	1.57	2.65	< 0.1
402302	22.7	0.34	2.05	8.22	1.73	3.56	0.4	39	244	1120	5.76	0.8	60	146	1.9	1.4	0.7	1.47	0.38	17.7	1.09	0.48	< 0.1
402303	23.7	0.28	2.04	8.02	1.58	4.01	0.2	49	298	1160	5.33	4.7	40	145	1.8	1.2	0.7	0.81	0.35	23.9	1.12	0.12	< 0.1
402304	18.7	2.27	1.69	8.37	2.25	3.19	0.1	60	197	823	4.93	6.1	30	115	1.6	1.1	0.6	0.52	0.24	17.1	1.14	0.16	< 0.1
402305	28.6	2.28	3.83	9.34	1.23	2.66	0.5	232	193	1170	11.1	3.7	40	86.8	2.0	0.8	0.7	0.41	0.21	36.8	1.04	0.17	< 0.1
402306	21.3	> 3.00	3.06	8.20	0.54	2.94	0.7	215	102	1330	10.2	2.3	40	81.6	2.2	0.7	0.8	0.42	0.12	41.1	1.17	0.31	< 0.1
402307	10.3	> 3.00	1.48	7.74	0.51	1.89	0.2	92	42.6	692	7.07	3.0	30	21.8	1.9	0.9	0.7	0.28	0.16	25.6	1.15	0.09	< 0.1
402308	24.7	2.72	3.03	7.80	0.99	2.73	0.2	148	198	1280	11.5	1.4	30	60.3	1.4	1.0	0.6	0.21	1.21	39.3	1.31	0.09	< 0.1
402309	18.8	2.54	2.66	7.42	0.61	3.53	0.3	155	141	1330	11.7	1.8	40	35.1	1.4	0.7	0.5	0.26	0.59	40.9	1.07	0.15	< 0.1
402310	9.3	0.55	0.77	3.53	1.35	0.87	0.7	105	92.1	514	4.64	2.2	60	35.6	1.0	0.7	0.4	2.67	0.16	27.4	0.51	1.04	< 0.1
402311	12.3	0.44	1.11	5.17	1.17	0.96	0.5	72	161	380	4.88	0.3	60	46.4	1.0	0.8	0.3	2.70	0.20	12.3	0.67	0.45	< 0.1
402313	23.7	1.30	1.74	8.03	1.73	3.43	0.3	51	221	876	5.43	7.3	30	141	1.8	1.2	0.7	1.02	0.38	20.3	1.09	0.09	< 0.1
402322	17.9	1.92	2.05	6.54	1.18	3.20	1.2	161	117	1210	9.42	1.6	20	42.7	1.5	0.8	0.6	6.24	0.59	27.3	1.06	0.64	< 0.1
402323	7.8	1.24	0.89	3.45	0.97	2.11	1.9	83	93.5	901	9.30	1.6	150	95.3	1.2	0.6	0.4	> 100	0.16	92.8	0.58	38.1	1.0
402324	23.9	> 3.00	1.82	> 10.0	1.70	4.85	< 0.1	107	50.0	1180	7.30	2.9	20	21.2	4.5	3.2	1.7	8.21	1.36	27.5	1.84	0.07	< 0.1
402329	21.9	1.23	1.26	6.93	2.00	1.02	0.8	55	110	542	5.70	4.2	30	51.2	1.8	1.8	0.6	21.7	0.68	21.6	0.83	32.7	< 0.1
402341	11.7	> 3.00	1.15	7.64	1.23	2.03	< 0.1	103	35.1	572	7.63	5.0	30	23.8	3.2	1.2	1.2	4.95	0.28	31.2	0.94	1.64	< 0.1
402342	19.9	0.81	2.13	6.66	2.26	2.41	1.5	160	82.7	821	9.37	3.0	30	55.5	1.7	1.0	0.6	2.91	0.37	36.2	0.57	1.49	< 0.1
402343	16.3	> 3.00	2.60	8.63	1.11	2.53	0.8	176	89.7	1100	8.64	3.2	20	69.4	1.8	0.9	0.7	1.39	0.19	36.8	0.85	0.35	< 0.1
402344	21.5	1.80	3.85	7.77	0.44	3.36	0.7	253	144	1380	11.9	1.4	70	111	1.3	0.6	0.5	1.07	0.15	51.0	0.39	0.90	< 0.1
402345	7.0	2.65	0.54	5.78	1.99	0.68	0.7	59	47.5	311	4.07	4.8	40	33.5	1.7	1.1	0.6	2.41	0.17	36.0	0.88	0.29	< 0.1
402346	23.4	2.09	2.90	7.56	0.89	5.31	0.2	152	139	1480	11.1	1.1	30	43.4	1.4	1.0	0.5	0.78	0.46	38.0	1.01	0.14	< 0.1
402347	32.8	> 3.00	2.77	7.76	1.13	4.20	0.1	137	103	1620	11.1	1.4	10	55.9	2.1	1.2	0.8	0.58	1.16	37.8	1.83	0.21	< 0.1
402360	8.5	> 3.00	0.91	7.12	1.30	2.19	0.3	120	96.7	555	4.78	2.4	20	14.7	3.2	1.4	1.2	5.78	0.32	9.1	1.02	1.10	< 0.1
402361	18.4	> 3.00	2.13	8.91	1.14	2.35	0.1	162	106	941	8.69	2.3	20	44.6	2.4	1.1	0.9	1.71	0.91	17.6	0.97	0.91	< 0.1
402363	13.5	> 3.00	1.02	6.30	1.52	0.99	< 0.1	122	44.1	452	17.2	2.4	< 10	61.8	1.6	1.0	0.6	2.63	0.44	182	0.88	1.14	2.1
402364	2.3	0.59	0.11	1.10	0.27	0.44	< 0.1	14	74.4	187	1.33	< 0.1	10	14.6	0.2	0.2	0.1	0.96	0.06	6.3	0.11	0.05	< 0.1
402365	22.3	1.67	1.30	4.30	0.69	0.81	0.4	103	70.6	522	11.6	0.2	70	39.0	1.3	0.8	0.5	3.00	0.51	13.9	0.69	1.47	0.3

Results

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
402301	97.4	12.4	3.6	42.7	17.3	70.8	101	4.7	1.27	0.2	5	0.7	0.7	80	34.3	73.9	10.0	37.5	7.8	5.4	0.7	3.6	1260
402302	138	< 0.1	14.5	40.9	19.9	50.7	89	0.5	0.52	0.1	2	0.4	< 0.1	945	23.5	49.5	6.6	23.7	4.6	3.5	0.5	3.3	146
402303	118	< 0.1	24.3	43.8	19.0	49.1	225	3.2	0.73	< 0.1	1	0.4	< 0.1	938	23.1	48.2	6.3	23.2	4.4	3.4	0.5	3.1	21.1
402304	126	< 0.1	10.9	45.4	17.0	83.2	231	2.7	0.56	< 0.1	1	0.3	< 0.1	698	23.4	49.1	6.3	23.1	4.3	3.2	0.4	2.8	9.8
402305	376	13.3	0.6	23.6	19.2	103	133	0.3	0.41	< 0.1	< 1	< 0.1	< 0.1	304	11.1	22.8	3.2	12.4	3.1	3.1	0.5	3.2	66.6
402306	359	17.7	< 0.1	9.7	20.7	122	66	0.1	0.20	0.1	< 1	< 0.1	< 0.1	88	12.2	20.9	3.7	14.5	3.9	4.0	0.6	4.0	95.6
402307	155	20.7	0.3	11.5	19.5	139	85	0.9	0.11	< 0.1	1	< 0.1	< 0.1	64	16.9	37.6	5.2	20.8	5.4	5.0	0.7	4.1	66.1
402308	308	16.8	0.2	35.5	14.1	134	43	< 0.1	0.18	0.2	< 1	< 0.1	< 0.1	151	16.6	34.6	4.9	19.2	4.8	4.1	0.6	3.2	41.6
402309	258	19.6	2.1	18.7	13.5	145	50	0.1	0.14	0.1	< 1	< 0.1	< 0.1	69	12.4	28.8	4.1	16.5	4.4	4.0	0.6	3.1	72.8
402310	189	1.2	5.9	24.6	10.6	37.5	70	3.1	0.82	0.2	4	0.8	< 0.1	287	8.9	19.5	2.7	10.3	2.5	2.0	0.3	1.7	831
402311	156	< 0.1	5.8	22.6	9.5	38.2	21	2.2	0.78	0.2	4	1.3	< 0.1	533	15.3	33.6	4.3	15.7	3.0	2.2	0.3	1.7	1110
402313	163	< 0.1	24.6	33.5	18.6	59.3	281	4.5	0.70	< 0.1	1	0.4	< 0.1	618	20.9	44.5	5.7	21.0	4.1	3.3	0.5	3.2	33.0
402322	345	10.4	0.8	27.4	15.0	102	42	0.5	1.00	0.7	4	0.2	< 0.1	226	13.3	31.5	4.7	18.2	4.8	4.4	0.6	3.5	2530
402323	346	6.9	6.0	17.9	11.5	67.0	46	2.9	1.33	1.3	3	1.1	2.6	58	8.7	19.0	2.6	10.4	2.5	2.3	0.3	2.1	> 10000
402324	134	4.1	< 0.1	73.0	44.2	592	93	0.4	0.16	0.1	1	< 0.1	< 0.1	739	31.0	70.0	9.7	39.1	9.7	8.6	1.3	8.2	36.7
402329	210	14.6	18.8	45.0	18.2	55.9	120	8.2	3.90	0.8	10	1.6	2.0	175	18.3	37.8	5.6	21.6	5.4	4.2	0.6	3.4	8440
402341	72.3	18.9	3.9	26.7	29.7	104	137	9.5	1.64	0.2	10	2.5	0.1	96	18.3	44.9	6.1	24.8	6.6	6.4	1.0	6.0	587
402342	394	16.4	3.2	40.9	15.7	42.0	85	2.5	1.08	0.3	9	1.1	< 0.1	95	12.9	29.9	3.8	15.0	4.0	3.6	0.6	3.3	605
402343	304	12.6	8.3	22.0	17.6	102	95	0.5	0.42	< 0.1	3	0.3	< 0.1	249	17.5	37.5	4.5	17.6	4.8	4.3	0.7	3.9	156
402344	357	17.4	5.9	7.6	10.6	89.4	41	0.3	0.07	< 0.1	< 1	< 0.1	< 0.1	69	5.6	11.6	1.6	6.6	1.8	2.1	0.3	2.2	117
402345	162	10.8	3.5	36.6	16.9	64.6	124	7.5	1.84	< 0.1	6	0.9	< 0.1	195	22.4	47.7	5.8	21.1	5.1	4.2	0.6	3.5	660
402346	154	11.9	0.3	19.7	13.3	131	31	0.1	0.21	0.1	< 1	< 0.1	< 0.1	247	11.8	27.1	3.7	14.4	3.7	3.7	0.5	2.9	102
402347	119	14.3	3.3	36.9	22.2	109	41	0.1	0.50	0.2	4	0.1	< 0.1	185	25.2	52.9	7.4	28.7	6.9	5.8	0.8	4.3	99.9
402360	72.2	10.2	10.8	42.0	31.7	153	67	5.0	1.54	0.4	10	1.3	< 0.1	182	22.2	48.2	6.3	23.5	5.8	5.5	0.9	5.7	4400
402361	109	12.9	2.5	41.5	23.0	132	68	3.6	1.89	0.2	7	0.6	< 0.1	266	14.2	31.9	4.0	15.7	3.9	3.8	0.6	4.1	563
402363	60.5	13.9	27.0	43.0	15.2	105	77	3.5	1.31	0.1	5	3.2	0.4	38	13.0	31.9	4.4	17.4	4.0	3.3	0.5	3.0	957
402364	40.3	1.0	6.8	7.9	2.5	19.1	3	0.9	3.62	< 0.1	2	0.8	< 0.1	38	3.1	6.9	0.9	3.3	0.7	0.5	< 0.1	0.4	263
402365	223	8.1	48.4	23.7	12.5	74.4	4	2.3	2.47	0.2	6	5.3	0.3	130	15.6	36.4	4.9	18.4	3.9	2.8	0.4	2.4	968

Results

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
402301	< 0.1	0.2	1.5	0.2	< 0.1	2.8	< 0.001	0.14	8.9	11	4.1	1.0	0.335	0.108	2.71
402302	0.1	0.3	1.8	0.3	< 0.1	0.3	< 0.001	0.19	7.3	12	3.1	0.8	0.219	0.063	0.09
402303	0.2	0.3	1.8	0.3	0.2	2.1	< 0.001	0.20	2.4	12	3.0	0.8	0.318	0.074	0.04
402304	0.3	0.2	1.5	0.3	0.1	1.5	< 0.001	0.14	1.9	11	3.0	1.5	0.313	0.077	0.04
402305	0.5	0.3	1.9	0.3	< 0.1	< 0.1	< 0.001	0.10	3.1	39	1.7	0.6	0.408	0.047	0.07
402306	< 0.1	0.3	1.9	0.3	< 0.1	< 0.1	< 0.001	< 0.05	5.8	40	1.7	0.5	0.313	0.037	0.04
402307	< 0.1	0.3	1.7	0.3	< 0.1	< 0.1	< 0.001	< 0.05	3.9	21	5.6	1.3	0.260	0.051	0.11
402308	< 0.1	0.2	1.2	0.2	< 0.1	< 0.1	< 0.001	0.21	2.0	39	1.6	0.7	0.235	0.069	0.05
402309	< 0.1	0.2	1.2	0.2	< 0.1	< 0.1	0.001	0.10	2.0	38	1.9	0.6	0.265	0.057	0.13
402310	< 0.1	0.2	1.0	0.2	0.2	1.5	< 0.001	0.07	3.2	15	1.6	0.6	0.323	0.029	0.48
402311	< 0.1	0.2	1.1	0.2	< 0.1	1.9	< 0.001	0.09	7.6	12	2.1	0.7	0.222	0.043	0.32
402313	0.2	0.3	1.8	0.3	0.2	1.0	< 0.001	0.14	2.9	12	3.0	0.8	0.330	0.081	0.01
402322	< 0.1	0.2	1.2	0.2	< 0.1	< 0.1	< 0.001	0.14	4.1	30	1.6	0.5	0.572	0.046	0.72
402323	< 0.1	0.2	1.2	0.2	0.2	0.8	< 0.001	0.07	23.9	13	1.2	0.4	0.401	0.030	3.74
402324	< 0.1	0.6	3.6	0.5	< 0.1	< 0.1	< 0.001	0.47	12.6	21	3.6	1.7	0.385	0.159	0.16
402329	< 0.1	0.3	1.8	0.3	0.6	2.3	< 0.001	0.19	13.9	11	4.0	1.3	0.307	0.051	0.90
402341	< 0.1	0.5	2.8	0.5	0.8	2.8	< 0.001	0.10	21.5	18	5.1	1.4	0.637	0.073	2.35
402342	0.2	0.3	1.6	0.3	< 0.1	1.1	< 0.001	0.11	11.8	25	2.5	0.8	0.477	0.036	1.22
402343	0.2	0.3	1.6	0.3	< 0.1	0.3	< 0.001	0.08	6.9	32	3.3	0.8	0.360	0.053	0.13
402344	0.2	0.2	1.2	0.2	< 0.1	< 0.1	< 0.001	< 0.05	3.5	43	0.4	0.1	0.267	0.023	0.02
402345	< 0.1	0.2	1.4	0.2	0.6	1.7	< 0.001	0.08	4.8	12	5.7	1.2	0.311	0.030	0.64
402346	< 0.1	0.2	1.4	0.3	< 0.1	< 0.1	0.001	0.06	4.0	40	1.2	0.6	0.285	0.046	0.10
402347	0.2	0.3	1.8	0.3	< 0.1	< 0.1	0.002	0.16	3.8	34	3.2	1.1	0.326	0.115	0.09
402360	< 0.1	0.4	2.5	0.4	0.4	0.9	< 0.001	0.17	5.2	27	3.6	1.2	0.391	0.035	0.72
402361	0.2	0.4	2.1	0.3	0.1	0.3	< 0.001	0.22	4.4	27	2.7	1.0	0.621	0.052	0.82
402363	< 0.1	0.2	1.2	0.2	0.2	0.3	< 0.001	0.26	81.1	14	2.6	0.9	0.369	0.112	5.22
402364	< 0.1	< 0.1	0.2	< 0.1	< 0.1	0.1	< 0.001	< 0.05	2.1	2	0.4	0.1	0.0360	0.017	0.05
402365	< 0.1	0.2	1.0	0.2	< 0.1	0.1	< 0.001	0.15	91.9	13	2.5	0.7	0.306	0.085	0.19

QC

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	14.1	0.07	0.24	4.76	0.07	0.84	2.6	77	15.3	860	23.9	1.0	3590	41.8		1.1		34.7	2.35	7.9	0.49	1390	8.9
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
DH-1a Meas																							
DH-1a Cert																							
GXR-4 Meas	12.7	0.56	1.49	6.65	1.39	0.85	0.3	84	44.6	167	3.10	1.3	130	43.8		2.0		4.14	2.17	15.3	1.21	19.8	1.8
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	38.1	1.76	0.92	8.20	1.50	0.91		35	49.3	901	5.16	0.7	30	41.9	3.5	3.1	1.3		3.55	20.2	1.44		
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	43.9	0.13	0.58	> 10.0	1.00	0.20	0.1	114	49.6	884	5.00	2.1	70	24.5		1.0		0.74	3.04	13.0	0.49	0.17	< 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	5.1							148	241					315						63.9	0.52		
DNC-1a Cert	5.20							148.0000	270					247						57.0	0.59		
SBC-1 Meas	175						0.4	215	86.2			3.1		97.3	3.3	3.2	1.2		7.17	24.5	1.65	0.79	
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	
SdAR-M2 (U.S.G.S.) Meas	19.2						6.0	25	45.9			1.8	1240	58.1	2.6	6.6	1.0		1.57	15.0	1.19	1.11	
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	
402301 Orig	13.2	2.00	0.89	6.06	2.12	1.63	0.4	65	107	1110	7.93	3.0	70	77.0	1.7	1.2	0.6	3.63	0.33	64.4	1.57	2.63	< 0.1
402301 Dup	13.4	2.01	0.89	6.29	2.02	1.65	0.5	65	128	1120	8.12	0.8	50	77.7	1.7	1.2	0.6	4.75	0.31	67.7	1.57	2.67	0.1
Method Blank	< 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 Blank	< 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 Blank	< 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

QC

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	767	< 0.1	387	3.1	24.7	258	29	0.8	14.8	0.8	23	40.7	9.9	907	6.9	13.4		7.1	2.6	3.5	0.6	4.2	1090
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	73.7	15.5	100	63.4	12.3	188	33	7.5	276	0.2	5	4.3	0.9	91	48.1	89.0		33.8	5.7	3.4	0.4	2.5	6590
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	116	3.8	< 0.1	52.7		166	18	0.3			< 1	< 0.1		636	37.9	79.8		35.4	7.8	6.3	1.0	6.1	35.0
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	126	< 0.1	218	37.5	10.3	42.8	60	2.3	0.81	< 0.1	< 1	1.4	< 0.1	1660	10.3	27.3		9.6	2.3	1.8	0.3	2.0	67.3
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
DNC-1a Meas	73.7	11.1		3.8	15.4	134	33	1.0				0.5		107	3.4			4.2					113
DNC-1a Cert	70.0	15		5	18.0	144.0	38.0	3				0.96		118	3.6			5.20					100.00
SBC-1 Meas	215	13.0	24.0	82.4	29.1	161	95	8.9	1.89		3	1.0		460	44.3	91.4	11.0	40.4	9.2	6.9	1.0	6.0	38.0
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
SdAR-M2 (U.S.G.S.) Meas	873	< 0.1		58.6	23.7	132	64	6.5	11.8					930	41.8	87.2	9.9	33.4	6.8	4.7	0.8	4.7	270
SdAR-M2 (U.S.G.S.)	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

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
Cert																							
402301 Orig	97.3	12.6	3.6	43.4	17.2	70.9	131	4.8	1.13	0.2	5	0.7	0.7	70	34.2	73.8	9.9	37.3	7.7	5.4	0.7	3.6	1250
402301 Dup	97.5	12.3	3.6	42.0	17.5	70.7	71	4.7	1.42	0.2	5	0.7	0.8	91	34.3	74.0	10.2	37.6	8.0	5.5	0.7	3.6	1270
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	< 0.2	< 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	< 0.2	< 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

QC

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	1.8	0.2	< 0.1	141		0.35	672		2.6	32.1			
GXR-1 Cert		0.430	1.90	0.280	0.175	164		0.390	730		2.44	34.9			
DH-1a Meas											> 500	2610			
DH-1a Cert											910	2629			
GXR-4 Meas		0.1	0.8	0.1	0.6	36.7		2.83	47.0	7	18.7	5.8	0.281	0.122	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
SDC-1 Meas		0.5	2.9		< 0.1	< 0.1		0.62	23.4	16	12.3	3.0	0.0922	0.052	
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			1.3	0.2	0.1	0.7		1.81	85.1		4.7	1.4			
GXR-6 Cert			2.40	0.330	0.485	1.90		2.20	101		5.30	1.54			
DNC-1a Meas			1.7						5.1	32			0.303		
DNC-1a Cert			2.0						6.3	31			0.29		
SBC-1 Meas		0.5	2.9	0.4	0.6	1.3		0.83	33.7	20	15.8	6.3	0.482		
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		
SdAR-M2 (U.S.G.S.) Meas		0.4	2.4	0.4	0.4	0.8			774	4	14.6	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			
402301 Orig	< 0.1	0.3	1.6	0.2	< 0.1	2.9	< 0.001	0.14	8.7	11	4.0	1.0	0.336	0.109	2.69
402301 Dup	< 0.1	0.2	1.5	0.2	< 0.1	2.8	0.003	0.14	9.1	11	4.2	1.0	0.334	0.107	2.74
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	< 0.5	< 1	< 0.1	< 0.1	< 0.0005	< 0.001	< 0.01



Date Submitted: 23-Sep-15
Invoice No.: A15-08049-Assay
Invoice Date: 06-Apr-16
Your Reference: CLAM-253

Trelawney Mining and Exploration
PO BOX 100
Gogama ON P0M 1W0
Canada

ATTN: Alan Smith

CERTIFICATE OF ANALYSIS

66 Rock samples were submitted for analysis.

The following analytical package(s) were requested:

Code UT-6 Total Digestion ICP & ICP/MS

REPORT **A15-08049-Assay**

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

Notes:

CERTIFIED BY:

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

Emmanuel Esemé , Ph.D.
Quality Control

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

Analyte Symbol	Ag	Cu
Unit Symbol	ppm	%
Lower Limit	3	0.001
Method Code	4Acid ICPOES	4Acid ICPOES
402323	138	1.39

Analyte Symbol	Ag	Cu
Unit Symbol	ppm	%
Lower Limit	3	0.001
Method Code	4Acid ICPOES	4Acid ICPOES
MP-1b Meas	47	3.03
MP-1b Cert	47.0	3.069
MP-1b Meas	47	3.02
MP-1b Cert	47.0	3.069
CCU-1d Meas	122	23.9
CCU-1d Cert	120.7	23.93
CCU-1d Meas	123	23.9
CCU-1d Cert	120.7	23.93
CZN-4 Meas	49	0.409
CZN-4 Cert	51.4	0.403
CZN-4 Meas	49	0.411
CZN-4 Cert	51.4	0.403
PTC-1b Meas	54	7.93
PTC-1b Cert	53.1	7.97
PTC-1b Meas	54	7.91
PTC-1b Cert	53.1	7.97
402323 Orig	138	1.39
402323 Dup	138	1.39
Method Blank	< 3	< 0.001
Method Blank	< 3	< 0.001



Date Submitted: 24-Sep-15
Invoice No.: A15-08179-TD
Invoice Date: 16-Oct-15
Your Reference:

Trelawney Mining and Exploration
PO BOX 100
Gogama ON P0M 1W0
Canada

ATTN: Alan Smith

CERTIFICATE OF ANALYSIS

63 Rock samples were submitted for analysis.

The following analytical package was requested:

Code UT-6 Total Digestion ICP & ICP/MS

REPORT **A15-08179-TD**

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

Notes:

CERTIFIED BY:

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

Emmanuel Esemé , Ph.D.
Quality Control



Results

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
402372	16.2	2.19	0.81	8.03	2.42	1.22	< 0.1	149	98.4	368	8.96	3.3	20	51.0	2.9	1.5	1.0	0.90	0.73	60.4	0.65	0.52	< 0.1
402376	28.9	1.30	1.45	7.03	1.44	1.43	0.1	83	220	974	6.34	3.9	50	78.7	1.8	1.4	0.6	1.26	0.33	25.3	1.06	0.23	< 0.1
402377	24.2	2.74	2.48	7.77	1.38	2.20	0.1	121	138	1420	10.6	1.3	30	36.4	1.3	1.1	0.5	0.58	1.16	35.4	1.00	0.21	< 0.1
402378	19.5	2.88	2.38	7.27	1.03	2.61	< 0.1	110	105	1150	9.69	1.1	20	36.8	1.4	1.0	0.6	0.53	1.32	38.8	1.20	0.29	< 0.1
402379	18.4	2.89	2.54	7.45	1.12	2.59	< 0.1	178	129	1190	10.3	1.6	< 10	45.4	1.0	1.1	0.4	1.54	0.66	76.2	1.04	1.06	< 0.1
402380	26.6	1.12	1.15	7.09	1.91	1.06	0.3	55	205	1040	4.31	4.3	20	76.3	1.8	1.2	0.6	1.77	0.43	12.7	1.05	10.4	< 0.1
402381	23.1	1.66	1.94	7.15	1.60	2.83	0.2	118	178	1100	6.70	4.0	30	71.2	1.4	1.3	0.5	2.02	0.43	28.0	0.96	0.57	< 0.1
402382	21.2	0.70	1.41	6.60	1.07	2.63	0.1	116	66.3	1020	6.24	4.0	30	25.1	1.5	1.7	0.5	1.13	0.65	27.4	0.94	0.34	< 0.1
402383	14.2	0.32	0.55	4.83	1.70	1.04	1.3	64	77.9	600	4.72	4.0	130	21.5	1.1	1.0	0.4	31.3	0.27	15.6	0.61	109	0.3

Results

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
402372	19.6	20.5	3.8	75.4	24.9	51.7	87	6.9	1.92	< 0.1	12	1.0	< 0.1	48	10.7	27.4	3.6	14.1	3.7	3.8	0.7	4.6	394
402376	62.2	1.3	21.7	30.3	16.3	57.4	143	0.2	0.90	0.2	2	0.2	< 0.1	479	18.0	35.7	5.2	19.6	4.2	3.4	0.5	3.1	138
402377	139	14.5	2.7	46.0	12.5	121	33	< 0.1	0.26	0.2	1	< 0.1	< 0.1	207	13.8	28.2	4.3	17.4	4.5	4.3	0.6	3.0	53.4
402378	105	13.7	9.1	43.2	13.5	151	27	< 0.1	0.15	0.1	2	0.3	< 0.1	203	14.0	30.7	4.2	17.0	4.6	4.4	0.7	3.4	156
402379	106	16.9	5.1	32.6	9.6	138	36	0.3	0.12	< 0.1	2	0.1	< 0.1	119	12.9	28.2	4.0	15.7	4.3	3.9	0.5	2.6	556
402380	61.2	< 0.1	10.8	37.9	16.2	58.9	195	1.7	1.54	< 0.1	3	0.8	3.7	708	21.4	40.3	6.0	22.1	4.6	3.3	0.5	3.0	377
402381	68.9	10.6	11.6	33.0	13.0	91.9	124	0.9	0.60	0.1	3	0.3	< 0.1	243	16.2	35.4	4.7	17.9	4.1	3.3	0.5	2.7	684
402382	52.2	2.4	3.2	33.4	13.1	79.7	99	0.9	0.63	0.1	4	0.1	< 0.1	514	18.7	40.3	5.4	20.7	5.3	4.2	0.6	3.0	434
402383	86.0	10.7	6.8	42.9	10.3	41.4	115	6.2	3.13	0.4	7	1.0	30.2	102	17.8	36.6	4.8	17.8	4.2	3.1	0.4	2.3	5150

Results

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
402372	< 0.1	0.4	2.6	0.4	0.5	7.7	< 0.001	0.34	2.5	24	2.0	1.1	0.568	0.040	4.45
402376	0.2	0.3	1.7	0.3	< 0.1	0.2	< 0.001	0.16	2.0	19	2.4	0.8	0.292	0.059	0.06
402377	< 0.1	0.2	1.3	0.2	< 0.1	< 0.1	< 0.001	0.21	1.7	40	2.9	0.8	0.304	0.047	0.06
402378	< 0.1	0.2	1.3	0.2	< 0.1	< 0.1	< 0.001	0.27	1.5	36	2.7	0.6	0.241	0.055	0.32
402379	< 0.1	0.2	1.1	0.2	< 0.1	< 0.1	< 0.001	0.14	1.6	39	1.7	0.5	0.499	0.049	1.17
402380	< 0.1	0.3	1.8	0.3	< 0.1	1.5	< 0.001	0.21	2.5	12	2.9	0.8	0.295	0.069	0.12
402381	< 0.1	0.2	1.4	0.3	< 0.1	0.4	< 0.001	0.16	1.3	24	2.4	0.8	0.491	0.060	0.53
402382	< 0.1	0.2	1.4	0.3	< 0.1	1.1	0.002	0.20	1.8	23	4.6	1.1	0.440	0.043	0.43
402383	< 0.1	0.2	1.1	0.2	0.5	7.1	< 0.001	0.15	4.0	12	4.2	1.2	0.313	0.029	1.11

QC

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	9.2	0.08	0.19	2.03	0.05	0.82	2.9	83	16.7	842	24.8	0.2	3860	42.7		1.1		38.3	2.66	8.2	0.53	1590	9.9
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
DH-1a Meas																							
DH-1a Cert																							
GXR-4 Meas	11.8	0.94	1.51	6.25	2.12	0.83	0.3	88	46.8	161	2.99	1.3	140	41.8		2.0		4.72	2.32	14.8	1.31	21.0	0.7
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
SDC-1 Meas	38.0	2.83	0.91	8.10	0.86	0.89		33	50.8	787	4.73	0.7	50	36.2	3.5	2.9	1.2		3.46	18.5	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		
GXR-6 Meas	36.7	0.17	0.52	> 10.0	1.27	0.14	0.1	104	53.5	919	5.48	1.8	70	25.5		1.1		0.53	3.64	13.8	0.56	0.20	< 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	4.9							144	253					276						58.0	0.49		
DNC-1a Cert	5.20							148.0000	270					247						57.0	0.59		
SBC-1 Meas	179						0.5	214	76.2			3.5		89.4	3.4	3.2	1.3		7.10	23.5	1.71	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	24.1	0.17	0.18	7.88	0.43	0.16		126	567	457	14.3	2.3		252	1.3	0.8	0.5		3.41	31.0	0.52	0.42	
OREAS 45d (4-Acid) Cert	21.50	0.101	0.245	8.150	0.412	0.185		235.0	549.0	490.000	14.520	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						6.0	24	39.0			2.0	1200	52.1	2.7	6.5	0.9		1.54	13.7	1.19	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	
402372 Orig	16.2	2.16	0.81	7.96	2.14	1.23	< 0.1	149	97.3	365	8.98	3.2	10	50.9	2.9	1.5	1.0	1.00	0.73	59.8	0.67	0.51	< 0.1
402372 Dup	16.3	2.23	0.81	8.10	2.69	1.21	< 0.1	149	99.5	371	8.95	3.4	30	51.0	2.9	1.5	1.0	0.80	0.73	61.0	0.64	0.53	< 0.1
Method Blank	< 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 Blank	< 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

QC

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	795	< 0.1	431	2.6	26.6	265	7	0.6	16.5	0.8	22	48.5	10.6	660	6.9	13.4		7.4	2.9	3.9	0.7	4.6	1120
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	71.1	14.7	102	78.9	12.4	191	30	7.7	285	0.2	5	4.7	0.9	91	50.1	93.2		35.3	6.4	3.6	0.5	2.6	6240
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	108	2.7	0.1	34.5		164	19	0.1			< 1	< 0.1		652	36.9	78.2		34.9	8.1	6.2	1.0	6.1	30.9
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	134	< 0.1	224	47.7	11.7	33.6	47	0.2	0.38	< 0.1	< 1	0.3	< 0.1	1280	11.9	31.7		11.0	2.6	2.0	0.3	2.3	71.6
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	67.2	10.4		2.5	14.9	129	31	1.0				0.7		107	3.2			4.1					101
DNC-1a Cert	70.0	15		5	18.0	144.0	38.0	3				0.96		118	3.6			5.20					100.00
SBC-1 Meas	205	22.0	25.9	29.3	29.3	159	98	11.2	2.05		3	1.1		174	44.0	92.2	11.2	41.2	9.3	7.3	1.0	6.3	36.1
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
OREAS 45d (4-Acid) Meas	45.6	15.9	5.9	33.3	10.5	27.9	68	0.5	0.50	0.1	< 1	< 0.1		185	15.1	32.4	3.5	12.1	2.7	2.1	0.4	2.3	386
OREAS 45d (4-Acid) Cert	45.7	21.20	13.80	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	371.0

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
Cert																							
SdAR-M2 (U.S.G.S.) Meas	806	< 0.1		60.1	23.1	127	60	5.9	12.2					983	39.7	83.3	9.3	31.8	6.1	4.5	0.7	4.6	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	236.0000
402372 Orig	19.8	20.7	3.8	69.3	24.6	50.3	82	6.8	1.91	< 0.1	12	1.0	< 0.1	41	11.7	29.1	3.8	14.6	3.7	3.8	0.7	4.6	396
402372 Dup	19.4	20.3	3.8	81.5	25.3	53.2	92	7.0	1.93	< 0.1	12	1.0	< 0.1	54	9.7	25.6	3.4	13.6	3.7	3.8	0.7	4.6	392
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	< 0.2	< 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

QC

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	2.0	0.3	< 0.1	164		0.41	771	2	2.8	37.0	0.0303	0.061	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
DH-1a Meas											> 500	2510			
DH-1a Cert											910	2629			
GXR-4 Meas		0.2	0.9	0.1	0.6	35.9		3.08	49.7	8	19.4	6.3	0.296	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
SDC-1 Meas		0.5	2.9		< 0.1	< 0.1		0.64	23.4	16	12.5	3.0	0.109	0.052	
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			1.5	0.3	< 0.1	< 0.1		2.15	102	29	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			1.7						5.2	31			0.313		
DNC-1a Cert			2.0						6.3	31			0.29		
SBC-1 Meas		0.5	3.0	0.5	0.8	1.7		0.86	34.8	21	15.8	6.2	0.533		
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			1.3	0.2	< 0.1	0.1		0.26	21.3	53	15.6	3.3	0.352	0.034	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
SdAR-M2 (U.S.G.S.) Meas		0.4	2.4	0.3	0.3	0.8			775	4	14.2	3.7			
SdAR-M2 (U.S.G.S.) Cert		0.54	3.63	0.54	1.8	2.8			808	4.1	14.2	2.53			
402372 Orig	< 0.1	0.4	2.6	0.4	0.5	7.6	< 0.001	0.35	2.6	24	2.1	1.1	0.557	0.040	4.39
402372 Dup	< 0.1	0.4	2.6	0.4	0.5	7.7	< 0.001	0.34	2.4	24	2.0	1.1	0.579	0.041	4.51
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			
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



Date Submitted: 28-Sep-15
Invoice No.: A15-08221-TD
Invoice Date: 16-Oct-15
Your Reference: CLAM-253

Trelawney Mining and Exploration
PO BOX 100
Gogama ON P0M 1W0
Canada

ATTN: Alan Smith

CERTIFICATE OF ANALYSIS

57 Rock samples were submitted for analysis.

The following analytical package was requested:

Code UT-6 Total Digestion ICP & ICP/MS

REPORT **A15-08221-TD**

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

Notes:

CERTIFIED BY:

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

Emmanuel Esemé , Ph.D.
Quality Control



Results

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
402432	12.5	0.84	1.62	3.80	0.12	1.43	0.1	189	49.1	775	19.2	1.9	70	17.4	1.9	0.3	0.6	2.50	0.30	126	0.40	3.00	10.0
402433	7.8	2.39	2.00	6.99	1.02	2.95	0.1	83	69.6	950	7.01	4.0	40	19.5	1.9	0.8	0.7	0.70	0.20	24.4	1.40	0.20	0.6
402434	8.0	> 3.00	1.87	7.96	0.77	2.77	0.1	89	46.1	841	6.76	6.1	40	16.3	1.8	0.8	0.7	0.50	0.30	16.4	0.90	0.10	0.2
402435	14.9	1.68	1.27	6.27	1.62	1.24	1.0	119	62.5	714	8.14	6.2	70	23.7	1.5	1.1	0.5	16.2	0.90	19.1	0.70	6.20	7.2
402437	25.5	1.69	2.75	7.41	1.17	1.59	0.7	133	110	829	10.4	2.6	40	31.6	1.2	1.2	0.4	6.30	0.90	25.9	0.70	1.10	1.6
402438	27.1	1.38	3.13	8.41	1.81	2.03	0.2	149	146	1280	10.4	2.4	30	40.4	1.2	1.6	0.4	2.10	1.20	25.8	0.90	0.60	1.1
402439	29.6	0.27	2.65	8.60	2.30	3.05	0.2	134	161	1170	7.99	5.9	20	65.2	1.7	1.5	0.6	1.15	1.00	24.4	0.90	0.20	< 0.1
402440	20.3	0.88	2.01	7.78	2.22	3.19	0.6	126	181	1110	6.96	7.6	60	69.2	1.4	1.1	0.5	3.10	1.10	21.3	1.00	0.50	< 0.1
402441	11.1	0.75	1.23	4.97	1.43	1.85	4.0	82	128	942	8.17	4.7	80	65.3	1.1	0.8	0.5	19.1	0.40	80.8	1.70	14.9	4.3
402442	15.3	2.54	2.34	8.70	1.18	1.77	0.4	50	179	1040	5.59	10.9	50	109	1.8	0.9	0.6	5.70	0.20	15.7	1.20	11.3	1.2
402443	16.2	2.80	2.86	9.31	2.41	3.87	0.5	83	110	1990	8.75	3.6	50	36.5	1.3	1.3	0.4	4.00	1.10	67.4	1.00	0.90	< 0.1
402444	14.0	2.80	1.36	8.77	1.25	1.42	0.1	111	53.7	590	5.78	6.1	40	16.1	1.6	1.4	0.6	1.40	1.30	16.9	1.20	0.30	< 0.1
402445	6.0	> 3.00	0.25	7.73	1.11	1.11	< 0.1	10	42.9	279	2.93	7.9	40	10.8	1.6	1.1	0.6	0.80	0.40	14.7	0.90	0.20	1.4
402464	18.3	1.71	3.14	7.06	0.66	3.50	0.1	212	123	1120	12.0	2.4	30	41.8	1.2	0.6	0.5	2.90	1.00	34.5	0.80	0.90	1.1
402465	19.9	1.96	3.19	7.58	1.13	0.81	0.2	112	114	1090	9.34	2.1	40	31.3	1.5	0.6	0.5	1.70	0.30	25.5	0.80	0.30	< 0.1
402466	17.2	2.21	3.22	7.70	0.58	3.46	0.2	222	132	1260	11.0	2.6	40	36.3	1.1	0.6	0.4	3.60	0.70	27.8	0.90	1.00	< 0.1
402467	16.1	2.20	3.34	8.13	0.71	2.92	0.2	102	113	1540	11.3	0.7	70	32.8	1.2	0.5	0.5	0.80	1.00	28.8	1.10	0.20	0.5
402468	12.9	2.75	2.92	6.48	0.95	2.23	0.5	259	185	1020	10.9	3.6	70	51.4	1.0	1.1	0.4	3.70	1.90	27.0	1.00	1.50	2.2
402469	12.2	1.27	1.40	6.11	1.32	1.80	6.7	162	111	842	8.90	3.8	100	50.7	1.0	1.2	0.4	31.1	0.70	26.3	0.70	5.15	3.6
402470	15.3	0.61	1.93	7.07	2.06	3.27	3.9	157	151	1350	8.59	5.5	80	42.4	1.3	1.2	0.5	32.0	0.50	19.5	0.80	7.40	4.7
402471	18.9	2.06	2.17	8.95	1.28	2.98	0.4	72	179	1230	4.89	10.3	50	93.7	1.9	1.0	0.7	3.90	0.50	17.4	1.40	0.20	0.6
402472	22.2	1.13	2.61	9.67	1.48	3.28	0.3	58	208	1210	4.92	11.3	40	89.7	1.9	1.3	0.6	1.70	0.50	12.6	1.30	0.10	< 0.1
402473	14.5	1.16	1.42	7.54	1.47	1.72	2.7	61	180	844	12.3	8.8	50	108	1.3	1.1	0.4	11.2	0.60	21.7	0.70	5.70	4.4
402475	8.7	> 3.00	0.75	8.11	1.30	1.30	0.4	34	709	372	3.85	8.2	40	170	1.5	1.1	0.5	2.70	0.90	11.5	0.80	0.40	0.2

Results

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
402432	54.2	13.0	45.3	6.1	15.8	20.9	59	5.8	1.40	0.3	11	2.7	1.6	13	5.9	14.9	1.8	8.6	2.3	2.5	0.4	3.1	427
402433	81.6	12.6	9.8	31.0	17.7	117	127	0.6	0.10	0.1	< 1	< 0.1	< 0.1	121	27.6	61.9	8.0	36.3	8.2	6.2	0.8	4.4	100
402434	72.6	15.4	1.3	25.7	16.4	129	185	0.7	0.10	< 0.1	< 1	< 0.1	< 0.1	85	25.5	54.0	6.3	27.6	6.4	5.2	0.7	4.1	72.9
402435	118	15.6	5.5	55.3	14.1	73.2	191	13.2	1.60	1.0	17	0.7	0.9	57	13.8	32.9	4.2	19.5	4.8	4.1	0.6	3.2	6370
402437	149	14.5	0.8	36.9	11.0	78.5	71	1.4	0.20	0.1	8	0.1	< 0.1	116	13.8	32.0	4.0	18.1	4.1	3.5	0.4	2.6	1550
402438	97.4	0.1	3.7	55.6	10.9	99.7	74	0.5	0.50	0.1	5	0.1	< 0.1	398	13.2	31.9	4.1	18.3	3.8	3.3	0.4	2.6	213
402439	106	< 0.1	11.3	60.5	14.6	55.8	231	3.7	0.70	0.2	4	0.3	< 0.1	520	16.3	38.8	4.9	21.0	4.4	3.5	0.5	3.0	155
402440	140	< 0.1	14.6	66.2	13.1	88.0	306	8.3	2.10	0.2	8	0.3	0.1	407	15.5	38.6	4.9	21.8	4.5	3.6	0.5	2.8	1080
402441	338	10.5	23.8	40.7	11.2	62.1	194	7.6	2.60	0.5	7	0.9	1.2	35	33.0	80.3	9.6	42.0	7.8	5.1	0.6	3.0	6980
402442	113	6.2	23.1	35.5	17.4	96.5	469	12.3	1.10	0.1	4	0.9	0.2	222	23.5	51.1	6.3	26.5	4.7	3.6	0.5	3.2	892
402443	113	9.3	12.7	73.9	11.9	139	111	2.9	0.20	0.2	8	0.1	< 0.1	244	16.7	38.1	4.9	21.8	4.8	3.8	0.5	2.7	758
402444	81.2	10.0	0.8	53.0	15.9	109	183	9.2	0.70	0.1	8	0.2	< 0.1	257	25.5	59.1	7.6	34.3	7.7	6.1	0.7	4.0	216
402445	25.7	12.7	8.1	34.6	16.2	115	258	18.7	11.3	0.1	4	0.7	< 0.1	174	26.5	51.6	5.4	22.2	4.7	4.0	0.6	3.5	104
402464	79.0	16.8	2.7	30.4	11.9	84.0	80	1.1	0.10	0.2	7	0.3	< 0.1	50	10.9	30.5	4.1	19.1	4.6	4.0	0.5	3.0	1280
402465	118	16.3	1.9	32.1	13.3	62.8	64	0.3	0.10	0.1	2	< 0.1	< 0.1	80	11.0	31.1	3.4	14.9	3.5	3.3	0.5	3.0	352
402466	141	18.1	< 0.1	23.8	10.4	122	87	1.1	0.50	0.1	6	0.2	< 0.1	47	9.8	26.6	3.3	14.6	3.5	3.4	0.5	2.7	1280
402467	275	18.1	0.7	33.0	11.7	121	18	0.4	0.50	0.1	6	0.1	< 0.1	61	13.0	34.6	4.2	19.0	4.5	4.2	0.6	3.1	146
402468	210	15.1	11.8	42.4	9.7	163	121	10.4	1.40	0.2	11	0.9	0.2	119	13.1	39.5	5.1	24.8	6.1	4.8	0.6	2.8	1580
402469	725	14.8	6.1	45.8	9.2	87.2	142	8.9	2.55	1.1	14	1.0	0.7	46	10.5	27.7	3.7	16.7	3.5	2.8	0.4	2.0	> 10000
402470	381	17.1	3.6	55.9	12.1	96.9	221	10.0	2.40	1.0	12	0.8	0.9	45	12.8	33.0	4.3	19.1	4.0	3.2	0.4	2.6	8470
402471	107	1.4	22.2	45.8	18.9	128	434	10.1	0.40	0.1	2	0.8	< 0.1	333	25.0	53.4	6.8	29.8	5.8	4.3	0.6	3.6	64.4
402472	104	1.0	15.6	53.4	18.8	113	491	12.2	0.50	0.1	3	0.6	< 0.1	382	24.6	53.9	6.6	28.7	5.4	3.9	0.5	3.5	41.6
402473	272	14.8	2.5	49.5	11.8	85.5	378	12.1	2.80	0.8	6	0.7	1.4	46	11.1	27.2	3.4	14.8	2.8	2.4	0.3	2.1	3460
402475	61.7	12.3	5.2	49.2	14.4	110	265	17.8	1.90	0.1	6	0.7	0.1	157	37.8	69.7	7.3	28.6	5.1	3.9	0.5	2.9	540

Results

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
402432	< 0.1	0.3	2.0	0.3	0.4	2.8	< 0.001	0.10	7.7	30	1.2	0.3	0.715	0.039	10.9
402433	< 0.1	0.3	2.0	0.3	0.1	0.1	< 0.001	0.10	1.9	28	2.9	0.7	0.267	0.049	0.08
402434	< 0.1	0.3	1.9	0.3	0.1	0.1	< 0.001	0.10	2.8	24	3.7	0.9	0.258	0.041	0.14
402435	< 0.1	0.2	1.8	0.3	0.8	3.9	< 0.001	0.20	4.5	22	2.7	1.0	0.510	0.038	2.16
402437	< 0.1	0.2	1.4	0.2	< 0.1	0.3	< 0.001	0.20	3.4	35	2.2	0.6	0.453	0.049	1.77
402438	< 0.1	0.2	1.4	0.2	< 0.1	0.1	< 0.001	0.20	2.1	43	1.8	0.6	0.355	0.075	0.30
402439	0.2	0.3	1.8	0.3	0.2	1.0	< 0.001	0.20	1.3	33	1.7	0.7	0.458	0.067	0.16
402440	0.2	0.2	1.7	0.3	0.4	3.0	< 0.001	0.30	1.3	24	1.9	0.6	0.544	0.066	0.66
402441	< 0.1	0.2	1.2	0.2	0.5	5.7	< 0.001	0.10	3.1	15	1.9	0.4	0.350	0.045	3.55
402442	< 0.1	0.3	2.0	0.3	0.9	4.1	< 0.001	0.10	2.6	13	2.7	0.7	0.323	0.073	0.42
402443	< 0.1	0.2	1.5	0.2	< 0.1	0.5	< 0.001	0.20	1.8	34	2.6	0.6	0.448	0.067	1.05
402444	< 0.1	0.2	1.7	0.3	0.1	0.8	< 0.001	0.30	2.2	23	4.3	0.9	0.510	0.042	0.53
402445	< 0.1	0.2	1.7	0.3	1.8	1.0	< 0.001	0.10	2.8	7	4.4	1.0	0.265	0.030	0.32
402464	< 0.1	0.2	1.4	0.2	< 0.1	0.1	< 0.001	0.20	5.0	39	0.8	0.3	0.482	0.041	2.16
402465	< 0.1	0.2	1.6	0.2	< 0.1	< 0.1	< 0.001	0.10	2.3	36	2.1	0.6	0.207	0.047	0.16
402466	< 0.1	0.2	1.3	0.2	< 0.1	< 0.1	< 0.001	0.10	2.7	40	0.8	0.3	0.554	0.041	1.04
402467	< 0.1	0.2	1.4	0.2	< 0.1	0.1	< 0.001	0.20	2.1	43	1.0	0.4	0.292	0.051	0.46
402468	< 0.1	0.2	1.2	0.2	0.7	3.2	< 0.001	0.30	2.2	33	1.3	0.6	0.781	0.090	2.42
402469	< 0.1	0.2	1.1	0.2	0.6	6.3	< 0.001	0.20	2.2	26	1.1	0.5	0.597	0.062	4.06
402470	< 0.1	0.2	1.6	0.2	0.7	5.3	< 0.001	0.20	2.7	26	1.1	0.6	0.586	0.057	3.39
402471	< 0.1	0.3	2.1	0.3	0.6	2.0	< 0.001	0.20	1.8	15	3.0	0.8	0.370	0.097	0.11
402472	< 0.1	0.3	2.2	0.3	0.8	2.4	< 0.001	0.20	1.4	14	3.0	0.8	0.344	0.090	0.07
402473	< 0.1	0.2	1.6	0.3	0.9	3.2	< 0.001	0.20	2.1	14	1.3	0.8	0.347	0.065	5.88
402475	< 0.1	0.2	1.5	0.2	2.0	1.0	< 0.001	0.20	3.5	8	6.6	1.4	0.287	0.035	0.36

QC

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	7.0	0.05	0.21	2.03	0.05	0.87	3.0	78	12.8	835	24.3	0.4	3700	37.7		0.9		31.9	3.00	7.1	0.50	1370	16.4
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-4 Meas	10.3	0.60	2.04	7.65	2.08	1.00	0.5	89	67.0	156	3.29	2.1	130	41.7		1.8		5.00	2.60	13.7	1.30	17.8	6.9
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	32.9	1.68	1.17	8.70	1.13	1.51		72	69.5	826	4.80	2.2	50	33.8	3.1	2.6	1.1		3.60	17.2	1.20		
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	33.4	0.11	0.75	> 10.0	1.27	0.17	0.2	186	63.6	1070	6.07	4.4	80	25.6		1.0		0.40	4.00	13.5	0.50	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
DNC-1a Meas	4.4							136	192					262						54.8	0.50		
DNC-1a Cert	5.20								270					247						57.0	0.59		
SBC-1 Meas	158						0.5	252	81.3			4.8		89.6	3.5	3.0	1.3		7.90	22.4	1.70	0.60	
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	20.0	0.10	0.21	8.96	0.46	0.20		168	510	484	14.5	6.1		223	1.3	0.7	0.5		3.60	27.6	0.50	0.30	
OREAS 45d (4-Acid) Cert	21.50	0.101	0.245	8.150	0.412	0.185		235.0	549.0	490.000	14.520	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	17.5						6.2	24	108			5.8	1030	55.0	2.8	6.5	1.0		1.80	13.2	1.20	1.00	
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	
402439 Orig	29.3	0.27	2.62	8.43	2.40	2.96	0.2	117	167	1150	7.83	5.5	30	60.8	1.6	1.6	0.6	1.30	1.00	23.1	0.90	0.20	0.3
402439 Dup	30.0	0.27	2.69	8.77	2.20	3.14	0.2	150	156	1190	8.16	6.4	20	69.6	1.7	1.5	0.6	1.00	1.00	25.6	0.90	0.20	< 0.1
402469 Orig	12.1	1.24	1.41	6.10	1.18	1.77	6.6	162	126	853	8.94	3.9	100	50.2	1.0	1.2	0.3	29.6	0.70	25.4	0.70	5.20	3.3
402469 Dup	12.3	1.31	1.40	6.11	1.45	1.82	6.8	163	95.6	831	8.86	3.8	90	51.1	1.0	1.2	0.4	32.6	0.70	27.3	0.70	5.10	3.9
Method Blank	< 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 Blank	< 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 Blank																							
Method Blank																							

QC

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	675	< 0.1	410	3.1	29.0	283	17	1.6	18.4	0.8	31	35.8	13.9	403	7.1	14.7		8.7	2.9	3.9	0.7	4.7	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-4 Meas	68.2	17.6	108	103	14.0	205	66	21.5	315	0.2	8	4.8	1.4	57	52.5	114		42.7	7.0	4.0	0.5	2.8	6640
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	98.2	7.1	0.5	67.4		154	72	2.5			2	< 0.1		347	29.0	70.4		33.2	6.7	5.5	0.8	5.7	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	129	< 0.1	297	65.2	12.8	35.9	148	6.8	1.60	0.1	1	1.9	0.1	732	11.7	33.6		12.8	2.7	2.2	0.3	2.4	72.9
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	62.6	13.0		4.6	16.2	142	58	3.2				0.8		64	3.4			5.0					99.4
DNC-1a Cert	70.0	15		5	18.0	144.0	38.0	3				0.96		118	3.6			5.20					100.00
SBC-1 Meas	207	12.9	23.5	109	32.6	176	184	24.0	2.50		4	1.0		378	45.2	108	11.4	49.0	10.0	7.7	1.1	6.8	38.2
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	39.5	17.9	9.1	41.1	11.1	30.8	206	8.7	0.80	0.1	1	0.2		114	15.7	35.5	3.7	14.6	2.7	2.3	0.3	2.4	339
OREAS 45d (4-Acid) Cert	45.7	21.20	13.80	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	371.0

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
Cert																							
SdAR-M2 (U.S.G.S.) Meas	803	< 0.1		78.7	26.8	145	175	23.0	13.6					589	41.5	102	9.8	39.5	7.4	5.1	0.8	5.1	253
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
402439 Orig	102	< 0.1	10.5	63.0	14.4	54.7	215	2.5	0.50	0.1	3	0.2	< 0.1	512	16.3	38.6	4.8	20.9	4.4	3.5	0.5	3.0	153
402439 Dup	110	< 0.1	12.0	58.0	14.8	56.8	247	4.8	0.90	0.2	5	0.3	< 0.1	527	16.3	39.0	4.9	21.2	4.4	3.6	0.5	3.1	157
402469 Orig	732	15.0	5.6	42.9	9.0	86.3	143	8.7	2.50	1.1	15	0.8	0.7	41	10.3	27.0	3.6	16.2	3.5	2.8	0.3	2.0	> 10000
402469 Dup	719	14.6	6.5	48.8	9.4	88.1	142	9.0	2.60	1.1	14	1.3	0.7	52	10.7	28.4	3.7	17.2	3.6	2.9	0.4	2.1	> 10000
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	< 0.2	< 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																							
Method Blank																							

QC

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	2.3	0.3	< 0.1	158		0.40	729	1	2.4	29.5	0.0265	0.058	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
GXR-4 Meas		0.2	1.1	0.1	1.7	38.2		3.00	45.8	8	16.7	5.2	0.290	0.129	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	3.1		0.1	< 0.1		0.60	21.4	14	8.8	2.3	0.354	0.052	
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	0.4	0.7		2.10	93.4	29	4.7	1.3		0.037	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						5.2	34			0.309		
DNC-1a Cert			2.0						6.3	31			0.29		
SBC-1 Meas		0.5	3.5	0.5	1.9	1.5		0.90	34.2	22	14.0	5.2	0.479		
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	0.9	0.6		0.30	19.5	53	13.9	2.6	0.484	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
SdAR-M2 (U.S.G.S.) Meas		0.4	3.1	0.4	1.5	1.0			783	4	12.5	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			
402439 Orig	0.1	0.2	1.8	0.3	0.1	0.6	< 0.001	0.20	1.3	32	1.7	0.7	0.377	0.066	0.15
402439 Dup	0.2	0.3	1.9	0.3	0.3	1.4	< 0.001	0.20	1.4	33	1.7	0.7	0.539	0.068	0.17
402469 Orig	< 0.1	0.1	1.1	0.2	0.6	6.2	< 0.001	0.20	2.1	26	1.1	0.5	0.590	0.062	4.04
402469 Dup	< 0.1	0.2	1.1	0.2	0.6	6.5	< 0.001	0.20	2.3	26	1.1	0.5	0.604	0.061	4.07
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										< 1			< 0.0005	< 0.001	< 0.01



Date Submitted: 28-Sep-15
Invoice No.: A15-08221-Assay
Invoice Date: 30-Mar-16
Your Reference: CLAM-253

Trelawney Mining and Exploration
PO BOX 100
Gogama ON P0M 1W0
Canada

ATTN: Alan Smith

CERTIFICATE OF ANALYSIS

57 Rock samples were submitted for analysis.

The following analytical package(s) were requested:

Code UT-6 Total Digestion ICP & ICP/MS

REPORT **A15-08221-Assay**

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

Notes:

CERTIFIED BY:

A handwritten signature in black ink, consisting of several loops and a vertical line, positioned above a horizontal line.

Emmanuel Esemé , Ph.D.
Quality Control

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Analyte Symbol	Cu
Unit Symbol	%
Lower Limit	0.001
Method Code	4Acid ICPOES
402469	1.05

Analyte Symbol	Cu
Unit Symbol	%
Lower Limit	0.001
Method Code	4Acid ICPOES
MP-1b Meas	3.04
MP-1b Cert	3.069
CCU-1d Meas	23.9
CCU-1d Cert	23.93
CZN-4 Meas	0.407
CZN-4 Cert	0.403
PTC-1b Meas	7.92
PTC-1b Cert	7.97
Method Blank	< 0.001

**APPENDIX 6: Quality Control – Quality Assurance Charts for Standards
and Blanks**

QA/QC Results - Blanks

Start Date: October 15, 2016 End Date: October 21, 2016

Lab: Actlabs Blank Code: BLKDIA Warning: 0.1 AU PPM

		Total Samples	Passed	Failed
		7	7	0
Date	Cert	Samp	Pass	Fail
15/10/2015	A15-08049	402324	0.005	
15/10/2015	A15-08049	402348	0.005	
21/10/2015	A15-08179	402374	0.005	
21/10/2015	A15-08179	402398	0.005	
21/10/2015	A15-08179	402424	0.005	
21/10/2015	A15-08221	402448	0.005	
21/10/2015	A15-08221	402474	0.005	

QA/QC Results - Standards

Start Date: October 15, 2016 End Date: October 21, 2016

Lab: Actlabs Standard: OREAS 204 Mean:1.043 AU PPM

Limits

	2s	3s
Upper	1.12	1.158
Lower	0.966	0.927

		Total Samples	Passed	Failed
		2	2	0
Date	Cert	Samp	Pass	Fail
15/10/2015	A15-08049	402312	0.997	
21/10/2015	A15-08179	402412	1.013	

QA/QC Results - Standards

Start Date: October 15, 2016 End Date: October 21, 2016

Lab: Actlabs Standard: OREAS 206 Mean:2.197 AU PPM

Limits

	Upper	2s	3s	
	Lower	2.36	2.441	
		2.035	1.953	

Total Samples	Passed	Failed
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2	2	0
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Date	Cert	Samp	Pass	Fail
21/10/2015	A15-08179	402386	2.148	
21/10/2015	A15-08221	402486	2.129	

QA/QC Results - Standards

Start Date: October 15, 2016 End Date: October 21, 2016

Lab: Actlabs Standard: OREAS 501b Mean:0.248 AU PPM

Limits

	Upper	2s	3s	
	Lower	0.258	0.268	
		0.238	0.228	

Total Samples	Passed	Failed
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2	2	0
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Date	Cert	Samp	Pass	Fail
15/10/2015	A15-08049	402336	0.243	
21/10/2015	A15-08221	402436	0.249	

QA/QC Results - Standards

Start Date: October 15, 2016 End Date: October 21, 2016

Lab: Actlabs Standard: OREAS 504 Mean:1.48 AU PPM

Limits

	2s	3s	
Upper	1.52	1.56	
Lower	1.44	1.4	

Total Samples	Passed	Failed
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2	1	1
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Date	Cert	Samp	Pass	Fail
15/10/2015	A15-08049	402362	1.426	
21/10/2015	A15-08221	402462		1.392