

**Technical Report
on the Ruby Creek Project
Within the Atlin Gold Camp
British Columbia, Canada
("Technical Report")
NTS 104N/11, 12, & 14**

Centered At
Latitude 59° 43' N Longitude 133° 24'W
Atlin Mining Division



Zinex Diamond Drill on Ruby Creek Project, 2016.

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Date; 22nd October 2019
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Executive Summary

This Technical Report is prepared for the TSX Venture Exchange (the “Exchange”), the shareholders of Stuhini Exploration Ltd. (the “Company”) and the Company. The goal of this Technical Report is to show the Ruby Creek Project has potential for either hidden low grade gold bulk tonnage deposits and/or gold in quartz vein orogenic type deposit(s).

The unencumbered 26,734.74 hectare Ruby Creek Project (the “Property or Project”) lies within portions of NTS map sheets 104N/11, 12 and 14 is centered at Latitude 59° 42.941’N, Longitude 133° 24.068’ W, approximately 24 km east of the town of Atlin, northwestern British Columbia, which is 180 km by highway southeast of Whitehorse, Yukon Territory. The Ruby Creek Project consists of 49 contiguous mineral claims of which one is a mining lease, and located within the Atlin Mining Division. The Property is road accessible, with good access across the claims and proximal to hydro-electric power. The claims are registered to Global Drilling Solutions Inc., a BC registered company with offices in Whistler, British Columbia (“Global Drilling”). Subject to the terms of an option agreement with Global Drilling, the Company can earn a 100% interest in the Project.

Regionally the Ruby Creek Project is located within the Atlin placer gold camp, ranking as the second largest producer of placer gold in the province (*Ash, 2001*). The Atlin placer camp, located on the east side of Atlin Lake in northwest British Columbia, is underlain by the northern Cache Creek terrane. In the Atlin area, this terrane consists of oceanic sedimentary strata of Mississippian to Jurassic age, ophiolitic rocks of Late Permian to Triassic age, and Middle Jurassic, Cretaceous and Tertiary plutons (Sack and Mihalynuk, 2004., Hora 2012). Atlin placer creeks generally are in broad valleys originally cut deep into bedrock during pre-Wisconsin glacial times, which are now fluvially modified and filled by glacial and glaciofluvial deposits. Some of the placer deposits may be interglacial in age but most are probably pre-glacial (Levson, 1992). Post-glacial placers are reworked, mostly deeply buried, and glacial fluvial placers and are usually less productive. The original pre-Wisconsin gravels rich in gold are characteristically oxidized and red in colour, deposited locally on altered bedrock (Levson, 1992) or on a boulder till and paleo-stream bedrock, indicating high energy stream flow including flash flooding (Levson, 1992., Sack and Mihalynuk, 2004., Hora, 2012., modified by the author, 2019).

Accumulated placer creeks within the Atlin camp total 163 km or more. The Project area is drained by 3 major placer and 2 minor placer streams; Ruby, Boulder, Birch, Cracker and Horse Creeks. The Ruby Creek Project is host to 16 documented gold occurrences (Minfiles), and 20 documented polymetallic occurrences (Minfiles) that do not include gold. The best known occurrence is the Adanac Moly Project deposit that was developed between 1969 to 2009 (“Adanac Moly Project” or “AMP”).

2009 Adanac Moly Project				
Historical Mineral Resource Estimate Update summarized, 28 th April 2009				
Resource Category	Cut-Off Mo%	Tonnes	Mo %	Mo lbs
Measured	0.04	43,642,000	0.078	75,361,000
Indicated	0.04	231,712,000	0.065	332,550,000
Measured & Indicated	0.04	275,354,000	0.065	407,911,000
Inferred	0.04	39,076,000	0.062	53,719,000

After Golder Associates 2009

- The source of this Historical Mineral Resource Estimate summary, taken from a more complete table, (given in Section 4 of this report), originally reported by Golder Associates Ltd. on 28th May 2009, in report titled “Mineral Resource Update, Ruby Creek Molybdenum Project in Northern British Columbia.”
- This historical mineral resources estimate up-date was reported as completed on 28th April 2009 and based on latest drilling data completed during the 2007 and 2008 field programs, including historical drilling and underground sample data collected on the property from 1966 to 1980, and three field seasons completed by Adanac Molybdenum Corporation between 2004 and 2006, (*includes 71,809.45 m of core, author*).
- The historical mineral resource estimate update summarized in this table is reported as based on the ordinary Kriged interpolation method and Mo capped assay values.
- According to the author, Kriging of multiple close drill hole data is the most effective method to determine a mineral resource estimate, and this historical resource estimate is considered most reliable based on available drill core data up to 28th April 2009.
- This historical mineral resource estimate update is reported as completed in conformance with the CIM Mineral Resource and Mineral

Reserve definitions referred to in National Instrument NI 43-101, Standards of Disclosure for Mineral Projects effective on 28th May 2009.

- Comment; there is still a need to establish if the Adera Fault, (Figures 4 & 7) is pre-mineralization, syn-mineralization, or post mineralization (author).
- Comment: if the Adera Fault is pre-or syn-mineralization, additional drilling could prove a larger molybdenum resource (author).
- Comment: the author recommends the Company does not treat these historical resource estimates for the Adanac Moly Project as current valid resources or reserves.
- A qualified person has not done sufficient work to classify this historical estimate as current mineral resources or mineral reserves, therefore the issuer must not treat the historical estimate as current mineral resources or mineral reserves and the historical estimate should not be relied upon.

The Adanac Moly Project, which forms a part of the larger Ruby Creek Project is covered by 24 mineral claims which includes one permitted mine lease (9,299.858 ha). This developed prospect was purchased by Global Drilling, on March 17, 2016 (MTO data) with no underlying encumbrances, net smelter royalties ("NSR's") or other Royalties (Global Drilling web site). Between 2016 and 2018 Global Drilling acquired by staking 25 additional contiguous mineral claims (17,689.78 ha) to give the present Ruby Creek Project a land package of unencumbered 26,734.74ha.

Between 1970 and 2018 a total of 353 diamond drill holes (71,809.45 m of core) were drilled on the Adanac Moly Project, by various companies and optionees to develop the deposit. These drill holes focused on alaskite-granite plutonic rocks of the Mount Leonard stock. It is reported by Global Drilling that 142 of these diamond drill holes (41,070.5 m of core) are now in storage at their Atlin core storage facilities. Out of the total 353 drill holes completed on the Property and analyzed primarily for molybdenum, it is estimated only 105 drill holes were analyzed for multi-elements, including gold. These 105 drill holes consisting of primarily alaskite-granite rock were reviewed for gold by Global Drilling in 2016, and 4 drill holes were noted to host analytical gold and silver with ranges as follows; 0.4 ppm Au , and 50.3 ppm Ag over 3.05 m, 0.214 ppm Au and 0.11 ppm Ag over 21.35 m, 0.238 ppm Au and 0.38 ppm Ag over 39.65 m, 0.327 ppm Au and 87.5 ppm Ag (approximated) over 24.4 m.

During 2016, Global Drilling carried out drilling on the Ruby Creek Project within alaskite-granite rock, where 3 drill holes also returned analytical gold and silver over much shorter intervals, i.e., 0.396 ppm Au and 36.1 ppm Ag, over 0.92 m, 3.528 ppm Au and 1500 ppm Ag over 0.15 m, and 2.249 ppm Au and 758 ppm over 1.53 m.

Mount Leonard stock plutonic rocks are collectively named alaskite-granites by the author and others. These rocks and derivatives, depending on location, may exhibit high background contents of gold and silver, 0.1 ppm and higher (Certificates of Analysis, appendices 2, 3, 4 & 5).

This supports recent work by BC government geologists that placer gold in some Atlin creeks have links to the Surprise Lake batholith, and by extension the Mount Leonard stock on the Ruby Creek Property. Primary exploration targets for lode gold near Atlin have historically been quartz-carbonate-mariposite altered ('listwanite') ultramafic and mafic bedrocks, and upper unit of Cache Creek terrane. These have long been considered the source of nearby placer deposits, and locally do contain fine visible gold. However, despite more than a century of searching, coarse gold such as found in the placer gravels has never been discovered (Mihalynuk, 2016). This has prompted the belief that the 'listwanites' are mere erosional remnants of bedrock sources of the coarse placer gold, and that these sources have been almost entirely lost to erosion. An alternative hypothesis argues that, although gold is found with listwanite, it was not the only bedrock source. Almost all of the Atlin placer streams or their headwaters are underlain by the Surprise Lake batholith or its thermal metamorphic halo, (Mihalynuk, 2016). Streams with placer deposits are distributed around this batholith (Sn-U-Th-Mo-W-F rich) and rare gold nuggets containing Sn- and Th-rich mineral intergrowths (cassiterite and thorite), demonstrating that at least some of the placer gold may be related to the Surprise Lake batholith (Mihalynuk and Sack, 2004). Discovery of coarse lode gold (>5 mm) in graphitic and quartz-rich phyllitic bedrock beneath placer deposits along Otter Creek in 2016 (and 2018, author), and within the lower unit of Cache Creek terrane, by the Surprise Lake Project contiguous to the Ruby Creek Project confirms that listwanite-altered mafic and ultramafic rocks are not required for all lode gold mineralization in the Atlin region. Lode gold discovered along Otter Creek is in weakly metamorphosed sedimentary rocks of the Kedahda Formation, one of the most widespread units in the northern Cache Creek terrane. The Otter Creek discovery unequivocally demonstrates that lode

gold mineralization is not restricted to zones in, or immediately adjacent to, listwanite-altered ultramafic or mafic rocks, significantly expanding areas near Atlin that are prospective for lode gold exploration (Mihalynuk, 2016). These new gold discoveries can be categorized as orogenic quartz vein type (Pautler 2016, and author) and are within or proximal to the north-south striking Otter Creek fault. By geological deduction this fault extends onto the Ruby Creek Project on Boulder Creek. The adjacent Birch Creek and Ruby Creek, both within the Property area may also have similar faults following their stream channels (author, 2019).

It is reported by Global Drilling there are no underlying royalties, back-in rights, payments, or other agreements to which the property is subject apart from those in the Stuhini Option agreement which include a 1% NSR.

It is also reported the Property is diamond drill ready. Global Drilling advised the author there is a current non-expiring Mines Act Permit (M-231) for the Adanac Moly Deposit area including the mining lease (555153) within the Project area, and a five-year Notice of Work, (NOW) Permit MX-1-595 for surface drilling over the mineral tenures which expires on 31st March 2022. There is a reported security reclamation bond associated with the Mines Act Permit put in place by Global Drilling with the Province of BC.

The author is very familiar with the Ruby Creek Project area from 1967 to present. Site visits to the Ruby Creek Project were conducted by the author on 31st August and 19th September 2019.

It is concluded the Ruby Creek Project is a project of merit for potential hidden low-grade lode gold bulk tonnage deposits hosted in alaskite-granite plutonic rocks of the Mount Leonard stock and/or gold in quartz vein orogenic type deposit(s) within Cache Creek terrane rocks.

The following recommendations summarize Stage 1 requirements for 2020 and Stage 2 requirements for 2021 exploration programs. Stage 2 is wholly dependent on Stage 1 results. Expenditures are calculated at \$250,000 for Stage 1 and \$500,000 for Stage 2.

Stage 1

- 1) Follow-up investigation on AMP drill core data, re-log and re-sample selected diamond drill hole cores stored at Global Drilling's Atlin storage facility. For instance, rocks and derivatives of the alaskite-

granite Mount Leonard stock, depending on location, may exhibit high background to low grade contents of gold and silver (Appendices 2, 3, 4 & 5).

- 2) Prospect and sample soils and rocks adjacent zone northwest of Adera fault. Including track and sample rocks along contact between Fourth of July batholith and Mount Leonard stock.
- 3) Build up data base on Atlin Ruffner Silver Mines and investigate potential faulting and diking extending eastward to beyond Molly Lake.
- 4) Carry out soil, rock sampling interface horizons between Ultramafic roof pendants, (Atlin Ophiolitic assemblage) and underlying Cache Creek rocks, (Atlin Accretionary complex) for listwanite alteration and gold in associated orogenic quartz veins.
- 5) Investigate by rock sampling potential faulting following Boulder, Ruby and Birch Creeks.
- 6) Build a geological model based on data compiled in sections 1) to 5) for an exploration drilling program for Stage 2.

Stage 2

- 1) 4000 m drill program based on selected geological model targets.

It is also highly recommended the Taku River Tlingit First Nation be kept informed of all stages of Ruby Creek Project, and included independently on environmental studies.

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4 AMC DDH's., Certificates of Analysis.

DDH 381, Certificate of Analysis VAN08004976.3

DDH 390, Certificate of Analysis VAN08004975.1

DDH 393, Certificate of Analysis VAN08005655.2

DDH 408, Certificate of Analysis VAN08008888.2

Appendix 3

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GDS DDH's., 2 Certificates of Analysis., Zinex Mining Corp.

DDH ADV2-2016-003, Certificate of Analysis WHI16000289.1

DDH ADV2-2016-004+005 Certificate of Analysis WHI1000290.2

Appendix 4

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GDS Rock Samples., 17 Certificates of Analyses., Zinex Mining Corp., and Table 18, key to cross-checking rock samples with Figure 8, and with 17 certificates of analyses.

1)Certificate of Analysis WHI18000272.1

2)Certificate of Analysis WHI18000174.1

3)Certificate of Analysis WHI18000229.1

4)Certificate of Analysis WHI18000297.1

5)Certificate of Analysis WHI17000469.1

6)Certificate of Analysis WHI17000228.1

7)Certificate of Analysis WHI17000316.1

8)Certificate of Analysis WHI17000713.1

9)Certificate of Analysis WHI17000174.1

10)Certificate of Analysis WHI17000111.1

11)Certificate of Analysis WHI17000062.1

12)Certificate of Analysis WHI17000083.1

13)Certificate of Analysis WHI17000281.1

14)Certificate of Analysis WHI17000042.1

15)Certificate of Analysis WHI16000109.1

16)Certificate of Analysis WHI16000314.1

17)Certificate of Analysis WHI16000313.1

Appendix 5

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GDS Soil Samples., 2 Certificates of Analyses., Zinex Mining Corp.

Certificate of Analysis WHI 17000273.1

Certificate of Analysis WHI 17000282.2

Appendix 6.

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Atlin Ruffner Silver Mine Crown Granted Lease Status, 22nd October 2019,2) Figure 3A, Atlin Ruffner silver Mine Crown Grants

Appendix 7

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Reflex EZ Shot Surveys, AMC DDH's

A-07-381

A-08-390

A-08-393

A-08-408

2.0 Introduction and Terms of Reference

2.1 Qualified Person, Participating Personnel and Scope

This Technical Report is authored by Nicholas Clive Aspinall, P.Eng., who is an active member of the Association of Professional Engineers and Geoscientists of BC, License # 12783, and was commissioned by Stuhini Exploration Ltd., a company duly incorporated under the laws of the Province of British Columbia, to examine, evaluate and summarize the geology and mineral potential of the Ruby Creek Project, (Figure 1) and to make recommendations for the next phase of exploration. This Technical Report's goal is to show the unencumbered 26,734.74 ha Ruby Creek Project land package, (the "Project" or "Property") located within the Atlin gold camp in NW-British Columbia, could be host to hidden orogenic quartz vein type gold deposits, or even low-grade gold bulk tonnage deposits. These potential targets are based on similar placer geology, recent bedrock gold discoveries on the adjacent Surprise Lake Project, exploration work carried out by Global Drilling between 2016-2018 within the Project area, and recent studies linking placer gold to surrounding plutonic rocks (Mihalynuk, 2016). This Technical Report describes the Property in accordance with the guidelines specified in National Instrument 43-101 (NI 43-101). It is based on historical information of the Atlin Placer Gold Camp, a review of immediate past and recent exploration on the Property and surrounding areas, including a site visit to current core storage facilities. The author was instrumental in staking part of the Adanac Ruby Creek molybdenum property for Canadian Johns-Manville Company Limited (CJM) during 1967-1972, carrying out initial silt and soil surveys over the property in those years, supervising a mineral claim boundary survey by Underhill and Underhill land surveyors of Vancouver, (now with offices in Whitehorse, Yukon) and supervising initial CJM exploration drilling on the Property. The author also assisted Adanac Molybdenum Corporation (AMC) log drill core during 2007 and 2008 seasons, and more recently in 2016-2018 briefly examined AMC cores and Global Drilling cores, as well as collected soils and rocks over the Property for analysis.

A site visit to the Ruby Creek Project was conducted by the author on 31st August and 19th September 2019.

2.2 Terms, Definitions and Units

All costs contained in this Technical Report are denominated in Canadian dollars. Distances are reported in metres (m) and kilometres (km). GPS refers to global positioning system with co-ordinates reported in UTM Grid

Zone 8, NAD 83 projection. Minfile refers to documented mineral occurrences on file with British Columbia Geological Survey. DDH refers to diamond drill hole.

The North American Datum of 1983 (NAD 83) is a unified horizontal geometric datum and successor to NAD27 providing a spatial reference for Canada and the United States.

The Universal Transverse Mercator (UTM) is a system for assigning coordinates to locations on the surface of the Earth. Like the traditional method of latitude and longitude, it is a horizontal position representation, which means it ignores altitude and treats the earth as a perfect ellipsoid.

A geographic information system (GIS) is a framework for gathering, managing, and analyzing data. Rooted in the science of geography, GIS integrates many types of data. It analyzes spatial location and organizes layers of information into visualizations using maps and 3D scenes.

The term ppm refers to parts per million, which is equivalent to grams per metric tonne, (g/t) and ppb refers to parts per billion. The abbreviation oz/ton and oz/t. refers to troy ounces per imperial short ton. Size of mineral claims or a mineral lease are in hectares, (100 m by 100 m), abbreviated to ha. Mineral Claims are also referred to as tenures and given a tenure number by MTO.

Mineral Titles online MTO is explained as follows; on January 12, 2005, the government of British Columbia implemented British Columbia's internet-based electronic mineral titles administration system incorporating digital registration of titles and documents with electronic commerce.

Other abbreviations are as follows: British Columbia, (BC); Northwest British Columbia, (NW-BC); TSX Venture Exchange is a stock exchange on which the common shares of the Company are listed (Exchange). Adanac Mining and Exploration Ltd (AME) staked the main part of the Adanac Moly Project deposit, (AMP, Figure 2 & 7) with 8 mineral Claims in 1966. The author, together with Jennifer Hansen of Whitehorse Yukon, and others staked mineral claims peripheral to the deposit almost as far south as Surprise Lake (in addition to placer claims for added protection) for Canadian Johns-

Manville Company Limited, (CJM) during 1967-1972. Kerr Addison Mines Ltd, (KA), Climax Development Corporation of British Columbia (CL) and Placer Development Corporation (DP) were all optionees to the Adanac molybdenum deposit from 1972-1990's. Adanac Molybdenum Corporation, (AMC, no legal affiliation to AME) gained title to parts of the property in 2002. Global Drilling Solutions Inc. is referred to as Global Drilling, GDS Data refers to data obtained from Global Drilling and Stuhini Exploration Ltd., is referred to as the Company. Property or Project, with "P" in upper case always refers to the Ruby Creek Project property. Zinex Mining Corp., an affiliate of Global Drilling, carried out diamond drilling for Global Solutions during 2016-2017, and was responsible for covering costs of analysis certificates.

Dip and Strike; DIP is the acute angle that a rock surface makes with a horizontal plane. STRIKE is the direction of the line formed by the intersection of a rock surface with a horizontal plane. Strike and dip are always perpendicular to each other on a map. Azimuth, (AZ) the horizontal angle or direction of a compass bearing. DDH, short for diamond drill hole. AX is a drill core size.

ICP (Inductively Coupled Plasma) Spectroscopy is an analytical method used to detect and measure elements to analyze chemical samples. Gravimetric analysis is a technique through which the amount of an analyte (the ion being analyzed) can be determined through the measurement of mass. Gravimetric analyses depend on comparing the masses of two compounds containing the analyte. Fire assaying is the quantitative determination in which a metal or metals are separated from impurities by fusion processes and weighed in order to determine the amount of element present in the original sample. Atomic absorption spectroscopy (AAS) is a spectro-analytical procedure for the quantitative determination of chemical elements using the absorption of optical radiation (light) by free atoms in the gaseous state. Rocks noted within the Mount Leonard stock area referred to by different authors are alaskite (Aitken, 1959), monzonite and granite (Smith, 2009). The author refers to the rocks of the Mount Leonard stock as alaskite-granite. The Atlin Ophiolitic assemblage and Atlin Accretionary complex are part of Atlin terrane geology (Ash, 2001). VLF-EM refers to a very low frequency electromagnetic type of geophysical survey. Magnetics refers to a magnetic survey, a type of survey to differentiate magnetic properties of rock formations.

Elemental abbreviations used in this report are; gold (Au), silver (Ag), aluminum (Al), antimony (Sb), arsenic (As), boron (B), barium (Ba), bismuth (Bi), cadmium (Cd), calcium (Ca), chromium (Cr), cobalt (Co), copper (Cu), iron (Fe), gallium (Ga), mercury (Hg), potassium (K), lanthanum (La), magnesium (Mg), manganese (Mn), molybdenum (Mo), Molybdenite (MoS₂), sodium (Na), nickel (Ni), phosphorus (P), lead (Pb), sulphur (S), antimony (Sb), scandium (Sc), selenium (Se) strontium (Sr), thallium (Tl), titanium (Ti), uranium (U), tin (Sn), tungsten (W), vanadium (V), yttrium (Y) and zinc (Zn).

Minerals found on the Property and in the Atlin placer region include molybdenite (molybdenum sulphide), native silver, gold (primarily as placer deposits), sphalerite (zinc sulphide), galena (lead sulphide), arsenopyrite (iron arsenic sulphide), pyrite (iron sulphide), pyrrhotite (iron sulphide), chalcopyrite (copper sulphide), azurite, malachite (copper carbonates), magnesite, pyrrargyrite with trace amounts of tetrahedrite (copper antimony sulfosalt), fuchsite (chrome mica), thorite, listwanite alteration, scheelite (calcium wolframite oxide, a tungsten mineral), wolframite (tungsten oxide), cassiterite (tin oxide), magnetite (iron oxide), traces of chromite, and platinum (as placers).

2.3 Source Documents

The author is an independent consultant who was commissioned by the Company to examine and evaluate the geology and mineralization on the Property and to make recommendations for the next phases of exploration work in order to test the economic potential of the Property and to complete a Technical Report summarizing the finds of the study in order to meet the requirements of NI 43-101. The author is a Qualified Person (QP) under NI 43-101 definitions. Subject to the conditions and limitations set forth herein, the author believes that the qualifications, assumptions and the information used in this Technical Report are reliable, and efforts have been made to confirm this to the extent practicable.

Unless otherwise stated, information and data contained in this NI 43-101 Technical Report or used in its preparation was provided in proprietary data supplied by the private company Global Drilling, and the public Company, Stuhini Exploration Ltd. and contained in their technical management files and websites. AMC data provided by Global Drilling, wherever possible was cross checked with the same data on web sites listed in Section 20.0 of this Technical Report. The Technical Report is also based on Minfiles at

minfile.gov.bc.ca, other technical reports, government geological reports, papers by qualified geologists, assessment work reports submitted to MTO by the author and others including annual assessment and company reports filed with the BC Ministry of Energy, Mines and Petroleum Resources <http://aris.empr.gov.bc.ca>, mineral claim and mineral lease information on the MTO website, the author's field books for years 1967, 1968, 1969, review of the Wóoshtin wudidaa Atlin Taku Land Use Plan <https://www.gov.bc.ca>. in addition to Society of Economic Geology published papers, Geological Institute of America Glossary of Geological Terms, and Dictionary of Mining, Mineral and Related Terms, second edition, compiled by The American Geological Institute. All sources of published information are listed in section 20.00 of this Technical Report.

The author has relied on all information and data provided by Global Drilling are correct, including historical AMC data. The author has also relied on the following sources for information and data:

- Global Drilling for Adanac Moly Project data including 2004-2008 drill hole data, analysis certificates, Global Drilling exploration rock and soil sampling, Zinex mining drilling data, Zinex Mining analysis certificates and pertinent legal data pertaining to the Property,
- Mineral Titles Online for all important data pertaining to the mineral claims titled to Global Solutions,
- Samuelson, Karen. MTA-Crown Granted Mineral Claims. BC Mineral Titles Branch, BC Ministry of Energy, Mines and Petroleum Resources, for Crown Granted data,
- Golder and Associates, (2009). Mineral Resource Update, Ruby Creek Molybdenum Project in Northern British Columbia, Canada. Prepared by Kevin Palmer, P.Geo for Adanac Moly Corporation on May 28, 2009. Project number 08-1439-0011., for historical mineral resources information.

Global Drilling geochemical 2017 soil data required to support this Technical Report was not available in Global Drilling assessment reports, so pertinent files were requested from Global Drilling. Figures 1 to 9 included in this report were obtained from GDS 2016, 2017 & 2018 data. Data included on Figures 1 to 9 and tables included in this Technical Report were then cross-checked with Certificates of Analysis, (Appendices 2, 3, 4, & 5).

The author visited the Property on 31st August 2019 and 19th September 2019 to observe present accessibility and review rock types. The author has

prior independent experience and knowledge of the region having worked and been based in the Atlin area for the past 53 years. During the past 19 summer seasons the author has focused on gold exploration in the Atlin region, and during years 1967-1972 staked a portion of the original claims over Adanac Moly Project deposit (AMP) for CJM, supervised initial exploration, and in later years (2007-2008) assisted AMC logging core, and in 2016-2018 carried out soil and rock collection for geochemical analysis as out-lined in Section 9.0. Any statements and opinions expressed by the author in this document are given in good faith and in the belief that such statements and opinions are not false and misleading as at the date of this Technical Report.

2.4 Limitations, Restrictions and Assumptions

The author has relied in part upon work, reports and data completed by Global Drilling. These included figures (Figures 1 to 9), Certificates of Analysis of pertinent AMC/GDS drill core, and Global Drilling assessment reports for 2016, 2017 & 2018. Field work and reports by the author and others in previous years in the preparation of this Technical Report as identified under Section 2.3, "Source Documents" and Section 20.0, "References". The author has assumed that previous documented work by others on the Property and in the region is valid and has not encountered any information to discredit such work. Unless otherwise stated, the author has not independently confirmed the accuracy of data provided by others. The author has assumed that exploration assessment reports, listed in Section 20.0, "References", were completed by competent professionals and/or reputable prospectors and as such have been accepted by the Mining Recorder. Technical Reports listed in section 20.00 have also been accepted by those to whom they were submitted.

3.0 Reliance on Other Experts

Not applicable, Re- information provided in Section 2.3.

4.0 Property Location, Description, Permitting and Option Agreement

4.1 Property Location

The Ruby Creek Project, is located at Latitude 59° 42.941'N, Longitude 133° 24.068' W, Figures 1, 2 & 3, within NTS map sheets 104/11, 12 & 14. The Property lies within the Atlin Mining Division and consists of a 26,989.64 ha contiguous land package, accessible by road 24 km from the community of Atlin in northwestern BC. Atlin is a community of approximately 450-500 permanent residents, located 180 km southeast of Whitehorse, Yukon

Territory by sealed road (Figure 1). Atlin is located within the Traditional Territory of the Taku River Tlingit First Nation as identified in the Statements of Intent of the First Nations. To the author's knowledge, the Property is not subject to any mineral title encumbrance or environmental liability except for over-staking by Global Drilling of mineral claims over 28 Crown granted mineral leases (DL) comprising 254.90 ha of partly contiguous leases (Ruffner Leases) in the Atlin Ruffner Silver Mine area in the extreme northwest of the Property (Table 2, Figure 2 & 3A, Appendix 6). The Property contains any gaps between the 28 Ruffner Leases as well as adjacent areas to make the entire Property contiguous outside of these valid mineral leases, (Figure 3A, appendix 6) Outside of those valid mineral leases, the remaining 26,734.74 of the Property is unencumbered and as otherwise discussed in this Technical Report, the author does not foresee any significant factors and risks that may affect access, title, or the right or ability to perform work on the unencumbered 99.6 % of the Property.

4.2 Description.

MTO records show 23 mineral claims and one mining lease amounting to 9,299.857 ha. (34.45% of the land package) were sold to Global Drilling on March 17, 2016 by AMC. Subsequent to the sale, Global Drilling electronically staked and additional 25 contiguous mineral claims, amounting to 17,689.783 ha. (65.55% of the land package) making up one mineral claim block of unencumbered 26,734.74 ha (Figures 2 & 3, Tables 1 & 2).

A mineral claim holder is required to perform assessment work and required to document this work to maintain the title to mineral claims as outlined in the regulations of the BC Ministry of Energy, Mines and Petroleum Resources. The amount of work required is \$5.00 per hectare for the first two years, \$10.00 per hectare for the third and fourth years, \$15.00 per hectare for the fifth and sixth, and \$20.00 per hectare thereafter. Alternatively, the claim holder may pay twice the equivalent amount to the British Columbia Government as "Cash in Lieu" to maintain title to the claims. Failure to record work or pay cash in lieu of work before the expiry date of tenure will result in immediate forfeiture of that tenure. Preliminary exploration activities that do not disturb the surface with mechanical equipment do not require permitting, but certain mechanical work performed on the property, such as drilling, trenching, blasting, cut lines, and excavating may require a permit, which can be obtained by filing a Notice of Work, (NOW) with the BC Ministry of Energy, Mines and Petroleum Resources. A Mine or Mineral Lease in British

Columbia requires an annual rental payment to government and not onsite assessment work, writing of assessment reports, or “cash in Lieu” payments.

Table 1 below shows Ruby Creek Project mineral tenure numbers, names of mineral claim, owner's Free Miners Certificate number, (FMC#), type of mineral claim, NTS map number, date when recorded, claims expiry date (unless additional work filed before that date), status, and each mineral claim in hectares. Table 1 data compiled by the author from MTO mineral claim data.

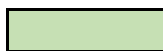
Table 1. Ruby Creek Project Mineral Claim Status as of 15th October 2019

Title Number	Claim Name	Owner	Title Type	Title Sub Type	Map Number	Issue Date	Good To Date	Status	Area (ha)
408341	LAKE VIEW 1	282438 (100%)	Mineral	Claim	104N06 3	2004/FEB/2 5	2021/FEB/2 8	GOOD	450
408342	LAKE VIEW 2	282438 (100%)	Mineral	Claim	104N06 3	2004/FEB/2 5	2021/FEB/2 8	GOOD	450
503346	KILO	282438 (100%)	Mineral	Claim	104N 4	2005/JAN/1 4	2021/FEB/2 8	GOOD	81.658
510311		282438 (100%)	Mineral	Claim	104N 7	2005/APR/0 7	2021/FEB/2 8	GOOD	245.019
510319		282438 (100%)	Mineral	Claim	104N 7	2005/APR/0 7	2021/FEB/2 8	GOOD	1405.496
510320		282438 (100%)	Mineral	Claim	104N 7	2005/APR/0 7	2021/FEB/2 8	GOOD	458.186
510382		282438 (100%)	Mineral	Claim	104N 8	2005/APR/0 8	2021/FEB/2 8	GOOD	376.078
519616		282438 (100%)	Mineral	Claim	104N 1	2005/SEP/0 1	2021/FEB/2 8	GOOD	408.225
519782		282438 (100%)	Mineral	Claim	104N 9	2005/SEP/0 9	2021/FEB/2 8	GOOD	16.334
523437	BASALT 1	282438 (100%)	Mineral	Claim	104N 04	2005/DEC/ 04	2021/FEB/2 8	GOOD	228.752
531946	BIRCH 1	282438 (100%)	Mineral	Claim	104N 3	2006/APR/1 3	2021/FEB/2 8	GOOD	147.202
532097	BIRCH 2	282438 (100%)	Mineral	Claim	104N 4	2006/APR/1 4	2021/FEB/2 8	GOOD	408.809
532099	BIRCH 4	282438 (100%)	Mineral	Claim	104N 4	2006/APR/1 4	2021/FEB/2 8	GOOD	163.597
532102	BIRCH 4	282438 (100%)	Mineral	Claim	104N 4	2006/APR/1 4	2021/FEB/2 8	GOOD	343.198
555153		282438 (100%)	Mineral	Lease	104N 27	2007/MAR/ 27	2020/MAR/ 27	GOOD	2466.000
563549	RUBY 2	282438 (100%)	Mineral	Claim	104N 4	2007/JUL/2 4	2021/FEB/2 8	GOOD	343.2035
563550	RUBY	282438 (100%)	Mineral	Claim	104N 4	2007/JUL/2 4	2021/FEB/2 8	GOOD	65.3578
563552	RUBY 4	282438 (100%)	Mineral	Claim	104N 4	2007/JUL/2 4	2021/FEB/2 8	GOOD	343.1899
563553	RUBY 5	282438 (100%)	Mineral	Claim	104N 4	2007/JUL/2 4	2021/FEB/2 8	GOOD	65.3889
563556		282438 (100%)	Mineral	Claim	104N 4	2007/JUL/2 4	2021/FEB/2 8	GOOD	16.3385
563557	RUBY CENTER	282438 (100%)	Mineral	Claim	104N 4	2007/JUL/2 4	2021/FEB/2 8	GOOD	147.0865
563558		282438 (100%)	Mineral	Claim	104N 4	2007/JUL/2 4	2021/FEB/2 8	GOOD	98.1366
563618	RUBY CREEK SL	282438 (100%)	Mineral	Claim	104N 5	2007/JUL/2 5	2021/FEB/2 8	GOOD	392.7001
563619	RUBY CREEK SL1	282438 (100%)	Mineral	Claim	104N 5	2007/JUL/2 5	2021/FEB/2 8	GOOD	179.9021
1040225	MORE RUFF	282438 (100%)	Mineral	Claim	104N 29	2015/NOV/ 29	2021/FEB/2 8	GOOD	146.9177

1042387	282438 (100%)	Mineral	Claim	104N	2016/FEB/27	2021/FEB/28	GOO D	556.0808
1042388	282438 (100%)	Mineral	Claim	104N	2016/FEB/27	2021/FEB/28	GOO D	408.7225
1042389	282438 (100%)	Mineral	Claim	104N	2016/FEB/27	2021/FEB/28	GOO D	179.6583
1042895	282438 (100%)	Mineral	Claim	104N	2016/MAR/17	2021/FEB/28	GOO D	1435.8316
1044110	282438 (100%)	Mineral	Claim	104N	2016/MAY/14	2021/FEB/28	GOO D	49.0879
1044677	282438 (100%)	Mineral	Claim	104N	2016/JUN/09	2021/FEB/28	GOO D	522.4432
1044893	282438 (100%)	Mineral	Claim	104N	2016/JUN/23	2021/FEB/28	GOO D	570.9642
1047224	282438 (100%)	Mineral	Claim	104N	2016/OCT/13	2021/FEB/28	GOO D	473.4969
1047225	282438 (100%)	Mineral	Claim	104N	2016/OCT/13	2021/FEB/28	GOO D	244.7566
1047834	282438 (100%)	Mineral	Claim	104N	2016/NOV/12	2021/FEB/28	GOO D	685.0418
1047835	282438 (100%)	Mineral	Claim	104N	2016/NOV/12	2021/FEB/28	GOO D	572.037
1048331	282438 (100%)	Mineral	Claim	104N	2016/DEC/07	2021/FEB/28	GOO D	587.4645
1048637	282438 (100%)	Mineral	Claim	104N	2016/DEC/28	2021/FEB/28	GOO D	720.2882
1048718	282438 (100%)	Mineral	Claim	104N	2016/DEC/30	2021/FEB/28	GOO D	1633.3589
1048719	282438 (100%)	Mineral	Claim	104N	2016/DEC/30	2021/FEB/28	GOO D	555.1116
1048720	282438 (100%)	Mineral	Claim	104N	2016/DEC/30	2021/FEB/28	GOO D	244.6769
1049324	282438 (100%)	Mineral	Claim	104N	2017/JAN/18	2021/FEB/28	GOO D	489.1879
1049359	282438 (100%)	Mineral	Claim	104N	2017/JAN/20	2021/FEB/28	GOO D	32.7426
1049753	282438 (100%)	Mineral	Claim	104N	2017/FEB/02	2021/FEB/28	GOO D	65.3114
1049811	282438 (100%)	Mineral	Claim	104N	2017/FEB/04	2021/FEB/28	GOO D	130.5653
1049812	282438 (100%)	Mineral	Claim	104N	2017/FEB/04	2021/FEB/28	GOO D	1290.0345
1050721	282438 (100%)	Mineral	Claim	104N	2017/MAR/13	2021/FEB/28	GOO D	5311.4071
1050983	282438 (100%)	Mineral	Claim	104N	2017/MAR/26	2021/FEB/28	GOO D	768.2247
1051047	282438 (100%)	Mineral	Claim	104N	2017/MAR/29	2021/FEB/28	GOO D	16.3725
Total								26,989.64



Mining Lease sold to Global Drilling



Mineral Claims sold to Global Drilling



Mineral Claims Electronically Staked by Global Drilling

There are 28 crown granted mineral leases in the Ruffner Silver Mine area (Ruffner leases) according to Mineral Titles office, Vancouver, BC which were valid on 5th October 2019 as of last MTO update which were over-staked by Ruby Creek Project tenures #1049811, 1049812, 1040225. (See Appendix 6 for a list of reported active Crown Grants, and Figure 3A). Therefore, the total unencumbered Ruby Creek Project land package consists of 26,734.74 ha., as shown in Table 2.

Table 2

Total Area Unencumbered Area Ruby Creek Project, 22nd October 2019	
1 Ruby Creek Project Mineral Claim and Lease Area in Ha.	26,989.64
2 28 Ruffner Leases , Ha	254.90
3 Adjusted Unencumbered Ruby Creek Project Area	26,734.74

4.3 Permitting.

It is reported the Property is diamond drill ready. Global Drilling advised the author there is a current non-expiring Mines Act Permit (M-231) for the Adanac Moly Deposit area including the mining lease (555153) within the Project area, and a five-year Notice of Work, (NOW) Permit MX-1-595 for surface drilling over the mineral tenures which expires on 31st March 2022. There is a reported security reclamation bond associated with the Mines Act Permit put in place by Global Drilling with the Province of BC.

4.4 Option Agreement

Salient points of the “The Option” agreement between Global Drilling Solutions Inc. (Optionor), and Stuhini Exploration Ltd. (Optionee), dated 29th July 2019.

- The Optionor hereby grants to the Optionee the sole and exclusive right to acquire one hundred percent (100%) interest in the Property, free and clear of liens, royalties, claims, rights of any other person, other than permitted liens and the NSR, (the “Option”).
- The Option shall be in effect for four (4) years from the date that the Option is accepted or approved by the Exchange (the Approval Date).
- In order to exercise the Option, the Optionee must according to the terms and conditions of the Option deliver to the Optionor common shares of the Optionee (Shares) and cash payments spread over 4 years according to the following schedule:

1. Approval Date – 800,000 Shares
 2. 1st Anniversary of Approval Date – 1,250,000 Shares
 3. 2nd Anniversary of Approval Date – 1,750,000 Shares and \$120,000
 4. 3rd anniversary of Approval Date - 1,750,000 Shares and \$300,000
 5. 4th anniversary of Approval Date – 175,000 Shares and \$640,000
- During the term of the Option, the Optionee will have the exclusive right to enter the Property to conduct mining work, erect mining facilities it considers advisable, and conduct bulk sampling.
 - Should the Option be fully exercised, the Optionor is entitled to a 1% net smelter royalty (NSR).
 - The Optionor and the Optionee have the right to terminate the agreement in writing if the terms of the Option are not met.

It is reported by Global Drilling there are no underlying royalties, back-in rights, payments, or other agreements to which the Property is subject apart from those in the Stuhini Option agreement which include a 1% NSR.

5.0 Accessibility, Local Resources, Climate, Physiography and infrastructure

5.1 Accessibility

The Property is easily accessed by the 24 km Atlin-Surprise Lake road from Atlin (Figures 2 & 3).

5.2 Local Resources

The community of Atlin, located 24 km southwest of the Property is a source for labor, fuel, accommodation, charter aircraft services and grocery stores. Atlin has a BC Government Agent's office, Royal Canadian Mounted Police office, a Taku River Tlingit First Nations office, and a health clinic. Atlin is accessible by a two-hour 180 km drive by sealed road from Whitehorse, Yukon, the territorial capital and major supply centre for the region. Whitehorse is serviced by daily commercial flights to Vancouver and other Canadian cities (Figures 1, 2 & 3).

Atlin has a winter population of approximately 450-500 people, and an experienced placer mining work force of 30 miners. During the summer 2016, the author visited 6 active placer mining operations and estimated a total of 90 placer miners were operating in the Atlin placer camp. Approximately 60 miners came from the Yukon, Southern BC and Alberta.

Currently the community of Atlin receives electrical power generated by a 2.1 megawatt Pelton twin turbine generator that draws water from Surprise Lake 16 kilometers up-stream from Atlin town-site. This hydro-electric plant was installed by the Taku River Tlingit First Nation in 2009-2010, and there are now plans to increase the electrical out-put to serve parts of the Southern Yukon, about 80 km. distance.

Atlin has an abundance of fresh water in Atlin Lake, Surprise Lake, Ruby Creek, Cracker Creek, Pine Creek, Spruce Creek, Otter Creek, Snake Creek and Wilson Creek (Figure 2). The Property has an abundance of fresh water in Surprise Lake, Molly Lake, Ruby Creek, Boulder Creek, Cracker Creek, Birch Creek and Horse Creek.

Over the years the author has observed caribou, moose, sheep, wolf, black bear, ground squirrels, whistlers and ptarmigan present within the Property.

5.3 Physiography.

The Ruby Creek Project area is located immediately north of Surprise Lake, and drained by Ruby Creek, Boulder, Birch Creek and Cracker Creek, all which flow into Surprise Lake excepting Birch which flows into Pine Creek. The higher reaches of the creek valleys have an elevation of approximately 1,500 m. with the highest peak at 2,081 m (Mount Barham, Figure 2).

For the most part, the Property is mainly located in wide glaciated valleys where alpine terrain prevails above tree-line. Sections below tree line show mixed conifer and popular, with dense willow. Pine is present but rare. At tree line, shrub birch, dense willow, underlain by lichen on outcrop, and moss adjacent to creek channels is present. Above tree line alpine terrain prevails, featuring scattered willow, scattered shrub birch, and a matt of cushion plants with variable wild flowers for short summer periods. In the higher alpine, lichens on felsenmeer and talus slopes prevail. Mountain summits are felsenmeer and rocky outcrop (Smith 2006 and others, Golder Associates 2007, 2009, modified by the author and Figures 2 & 3).

5.4 Climate

The Ruby Creek Project area lies east of the Coast Range Mountains which is the lee side and within a zone described as having an interior Climate. In general, the winters are unpredictable during current climate changes, but can be severe, with summer months cool. Summer is enhanced by long

hours of daylight; during June and July, daylight lasts up to 20 hours (Golder Associates, 2007).

The ideal exploration and mining operating season in the Atlin region ranges from early March to late October and this period also generally makes up the placer mining season.

5.5 Infrastructure

The unencumbered 26,734.74ha contiguous land package, gives sufficient size to allow mining operations be carried out (Author, Golder Associates, 2007). Other than road and trail access, there are no buildings or mine plants in place as of the date of this Technical Report (Figures 2 & 3).

6.0 History

6.1 Placer History Atlin Placer Camp

Table 3. Gold Production from Atlin Creeks. 1898-1946

Creek Name	Ounces of Gold Produced 1898-1946
Spruce Creek	262,603
Pine Creek	138,144
Boulder Creek	67,811
Ruby Creek	55,272
McKee Creek	46,953
Otter Creek	20,113
Wright Creek	14,729
Birch Creek	12,898
All others, (21 Creeks)	15,624
Total	634,147

After Holland, 1950. (An historical estimate from a historical document, and data not validated by the author). A qualified person has not done sufficient

work to classify this historical estimate as accurate, therefore the issuer must not treat this estimate as reliable and this estimate should not be relied upon.

Atlin became known as a productive Canadian placer gold camp in 1898, after the discovery by two prospectors, Miller and McLaren (who were probably informed where to find placer gold by a source in Juneau, Alaska). They confirmed paying gold on Pine Creek in January 1898. As news spread, other gold seekers found impressive amounts of gold on Spruce, McKee, Otter, Ruby, Boulder, Birch, Otter and Wright Creeks (Figures 2, 4 & 5).

Atlin Creek placer gold production, as determined by Holland (1950) from 1898 to 1946 was 634,147 ounces. Today, Atlin has more than 163 km of accumulated known placer creeks, including O'Donnel River. Atlin placer creeks generally are in broad valleys originally cut deep into bedrock during pre-Wisconsin glacial times, are now fluvially modified and filled by glacial and glaciofluvial deposits. Some of the placer deposits may be interglacial in age but most are probably pre-glacial (Levson, 1992). Post-glacial placers are reworked, mostly deeply buried, and glacial fluvial placers and are usually less productive. The original pre-Wisconsin gravels rich in gold are characteristically oxidized and red in colour, deposited locally on altered bedrock (Levson, 1992) or on a boulder till and paleo-stream bedrock, indicating high energy stream flow including flash flooding (Levson, 1992., Sack and Mihalynuk., 2004, Hora, 2012, and modified by the author, 2019).

The following summarizes the four placer creeks that drain the Ruby Creek Project (Figures 3 & 4).

1. **Boulder Creek** flows south into the west end of Surprise Lake about 17 km northeast of Atlin. The stream is about 6 km long and braids into a delta near where it empties into the west end of Surprise Lake. Almost all of the placer mining has been done up-stream from the delta. Existing records show from 1898 to 1945, 67,811 ounces of gold were taken from the creek (Holland 1950). The creek was extensively hydraulically mined at the lower end and received a resurgence of work in the 1980s. It is the third largest placer producer in Atlin (Holland 1950). The headwaters of the creek are located within a fine grained alaskite-granite, a plutonic body of the Late Cretaceous Mount Leonard stock, an extension of the Surprise Lake batholith. The creek then flows out of the stock and over Upper Paleozoic ultramafic rocks of the Atlin Ophiolitic assemblage and volcanic and sedimentary rocks of the

Atlin Accretionary complex. Most of the placer gold has been taken from the lower end of the creek and very little at the upper end where it flows over the Mount Leonard stock. There is significant placer wolframite in Boulder Creek and several wolframite showings in areas surrounding the headwaters of the creek. Placer mining was active on the creek in 2019 (author).

2. **Ruby Creek** flows south into the west end of Surprise Lake about 22 km northeast of Atlin. The creek is about 10 km long and braids into several streams at its mouth. Most of the gold was removed from the creek between 1898 and 1948 with both hydraulic and underground operations. The creek is underlain by Cretaceous plutonic rocks of Mount Leonard stock and Atlin Ophiolitic assemblage rocks in its upper reaches, and downstream is underlain by Quaternary columnar basalt flows, (estimated 30 m thick, author) which have covered over older Quaternary auriferous gravels. Surface and underground placer mining has been carried out on this creek, the latest mining by open pit excavating through the basalt to underlying auriferous gravels. Hydraulic mining is also reported to have occurred at the lower end of the creek. Between the years 1898 and 1945, it is reported a total of 55,272 ounces gold were recovered (Holland, 1950) making Ruby Creek the fourth highest producer in Atlin at that time (Holland, 1950). Placer mining was last seen to be active on the Creek in 2016 (author).
3. **Birch Creek** flows south into Pine Creek less than 2 km west of Surprise Lake and about 15 km northeast of Atlin. The creek is about 9 km long and was worked for about a 3.5 to 4 km length starting from about 1 km above its junction with Pine Creek. The creek drains Atlin Ophiolitic assemblage ultramafic rocks and Atlin Accretionary complex volcanic-sedimentary rocks. Historically, hydraulic methods were used a great deal on Birch Creek and 12,898 ounces gold were recovered on the creek from 1898 to 1945 (Holland, 1950). It was known for its unusually coarse gold. During that time. Birch Creek was the 8th largest producer of placer gold in the Atlin camp. Placer mining was last seen to be active in 2016 (author).
4. **Cracker Creek** is about 10 km long and flows east-northeast with a steep descent for the final 3 km into the north end of Surprise Lake. The main workings are just above the lower "canyon" and are about 32 km northeast of Atlin. The creek is located entirely within the Mount Leonard Stock and therefore of most interest to prospecting for a low-grade gold-bulk tonnage deposit. Work on Cracker Creek began in 1909 with cursory prospecting until 1916. Underground development

in search of old channels took place in 1917, 1932, and in 1933 when a pay streak was hit overlying bedrock. A total of 808.7 grams of gold were recovered from the property between 1916-1945 (Holland, 1950). Small scale operations on Cracker Creek may have been active in recent years (author).

5. **Horse Creek** is only about 5 km long and flows west into the north end of Surprise Lake, approximately 35 km northeast of Atlin. The creek received relatively minor prospecting from 1909 to 1916. The creek is located well within the Late Cretaceous Surprise Lake batholith (Surprise Lake Plutonic suite) which covers about 1100 square km northeast of Atlin. The batholith is composed primarily of a leucocratic granite with abundant microcline and orthoclase with subordinate quartz. It may or may not contain plagioclase and mafic minerals, most commonly biotite. This body has intruded into Upper Paleozoic volcanic and sedimentary rocks of the Cache Creek complex. The creek only received cursory prospecting and development work between 1909 and 1920 and around 373 grams of gold were recovered from the creek between 1916 and 1918 (Holland, 1950). Present times it may be worked casually by individuals (author).

Other important placer creeks outside Ruby Creek Project area are:

- **Pine Creek**, flows west from Surprise Lake into Atlin Lake about three km south of the present townsite of Atlin. The creek is about 20 km. long and was the site of the initial discovery of gold placer in Atlin in 1898. Approximately 138,144 oz/Au were removed from Pine Creek from 1898 to 1945 (Holland, 1950), making Pine Creek the second largest producer in the Atlin gold fields behind Spruce Creek during that time (Minfile 104N 034., & Holland, 1959). However, increased work more recently on Pine Creek allowed it to become the largest producer in the Atlin area from 1956 onward. For the past few years 1- or 2-man mining operations have been active; a 10-man operation was briefly active in 2017 (author).
- **Spruce Creek**, flows northwest into Pine Creek about 4 km east of Atlin. The main creek is about 23 km long with two branches at its head (Aspinall, 2005). Spruce Creek has historically (1898-1946) yielded the largest amount of placer gold 262,603 ounces in the Atlin area (Holland, 1950). Sector Resources Ltd is presently active on the creek performing development underground mining (author).

- **McKee Creek** flows west and southwest into Atlin Lake about 14 km south of Atlin. The creek is about 12 km long and has been worked primarily in the middle third section of its length. Hydraulic mining was started in 1903 and accounted for most of the gold recovered from McKee. Some underground work was also done on the creek in the mid 1930's. Production data shows 46,953 ounces gold were recovered between 1903-1945. Between 2016-2019, a small operation of up to 3 miners has been observed on McKee Creek (author).
- **Otter Creek** flows north into the west end of Surprise Lake about 17 km northeast of Atlin. The main part of the creek is about 10 km long with a 5 km long west flowing spur at its southern end. The creek has been worked more or less continuously from the time of the discovery of gold in Pine Creek in 1898. Approximately 20,113 ounces of gold were recovered from the creek between 1898 and 1945 (Holland, 1950) making it the sixth largest producer in the Atlin area (Holland, 1950). Since 2009 Otter Creek has been the recent focus of activity in the Atlin camp with spectacular size gold nuggets of 58 and 62 ounces reported from the Zogas and Godkin placer pits (Aspinall, 2015) and discovery of gold in bedrock at the base of the Godkin pit in 2016 (Pautler, 2016) and 2018 (Aspinall, 2018). Otter Creek is deemed to be the most prolific placer gold producer from 2014 to present time and estimated 30 miners are operating in 2 pits (author 2019).
- **Wright Creek** flows north into the west end of Surprise Lake about 22 km northeast of Atlin. The creek is about 8 km long with its upper reaches flowing west for about 2.5 km. The creek produced approximately 14,275 ounces of gold between 1896 and 1945 and was known for producing the coarsest gold in Atlin. It was the seventh largest producer of gold, but in the 1970s-1980s Wright Creek witnessed a great deal of mining activity. Since 2016, placer mining on the creek have been small on-and-off operations (author).

With respect to all above historical creek production estimates, a qualified person has not done sufficient work to classify these historical estimates as accurate, therefore the issuer must not treat these estimates as reliable and this estimate should not be relied upon.

6.2 Government Geological Surveys History

According to the records, J.C. Gwilliam (Cairnes, 1910) was one of the first government geologists to report on the Atlin district in the years 1899-1900. At that time Atlin was regarded as primarily a placer mining camp, and

hard rock gold mining data from the Imperial claim at Munro Mountain north of Pine Creek and other hard rock properties were not included in Gwilliam investigations. At the same time, a BC government geologist included a report on the Atlin district for the BC Department of Mines (Robertson, 1898).

In 1910 D.D Cairnes carried out work in portions of the Atlin district with the objective to gain an estimate of the hard rock deposits in the district, primarily coal and various other mineral prospects. In addition, Cairnes carried out a geological and topographical survey around Taku Arm, the upper end of Atlin Lake and parts of the southwestern region.

Geological mapping of the Atlin area began in earnest in 1951 to 1955 by J.D Aitken under the auspices of the Geological Survey of Canada (Memoir 307). Between 1966-1968 J.W.D Monger, also of the Geological Survey, selectively mapped the Atlin area and published his findings in GSC paper 74-47. Other Geological Survey geologists who later investigated the Atlin area are S.B. Ballantyne and A. Mackinnon.

In the late 1980's geologists of the BC Geological Branch commenced annual studies in the Atlin area, and these geologists include Mary Anne Bloodgood and others, C.H Ash and others, Patrick J. Sack, as well as M.G. Mihalynuk and others.

6.3 Hard Rock Exploration History

In 1898, placer gold was discovered on Pine Creek, 9 km upstream from the present community of Atlin in northwest BC (Robertson, 1898., Debicki, 1984). This discovery attracted miners who had abandoned the lode gold mines of California, and following an influx of prospectors, placer gold was quickly found on adjacent Spruce, Birch, Boulder, Ruby and Otter Creeks, which are still worked for placer gold at present. Prospectors also came looking for a hard-rock source to the gold placers. They noted similarity in the ultramafic rock to that in California (Mihalynuk, 2016) so some prospectors began the search for lode gold. Aiming to duplicate the lode mining success in California, the ultramafic rocks near Atlin became the prime lode gold exploration target. Yet, despite intense exploration, only about 3 kg of lode gold was produced in the century following the placer discovery (Imperial Mine, MINFILE 104N 008). In 2016, an insitu gold showing was discovered within bedrock of a placer pit on Otter Creek in graphitic phyllite, a unit within the Cache Creek terrane. This discovery,

confirmed an alternate source for Atlin placer gold, such as gold from orogenic quartz veins, (Links of Atlin placer gold to the Cretaceous Surprise Lake batholith, and adjacent Jurassic Fourth of July batholith have also been made (Mihalynuk and Sack 2004, Mihalynuk and others, 2016) (Figures 4 & 5).

6.4 Atlin Ruffner Silver Mine History

The Atlin Ruffner Silver Mine, is about 23 road km. northeast of Atlin. The mine was an intermittent producer from 1916 to 1981, being operated by numerous companies (Aitken, 1959., Minfile 104N 011), viz:

- 1918, M.J. Ruffner optioned and staked the Atlin Ruffner Crown grants, and underground work began in 1921.
- 1928, C.V. Bob Group acquired control and continued underground development.
- 1934, Bobjo Mines Ltd. acquired the property and continued underground work.
- 1951, Atlin Ruffner Silver Mine reopened the workings and produced a shipment of 44 tons of ore grossing 7 ounces gold, 5343 ounces silver, 36,197 pounds lead, and 5824 pounds of zinc.
- 1966, Interprovincial Silver Mines Ltd. optioned the Vulcan Property and drilled 2779 metres using a small sized core barrel (AX) on the veins that parallel the mineralized structures on the Atlin-Ruffner claims.
- 1988, Homestake Mineral Development Co. Ltd. acquired the property through the 1988 exploration season completed programs of airborne and ground geophysics, detailed and reconnaissance scale geological mapping, litho-geochemical sampling, soil geochemical sampling, and trenching over various portions of the property. The results of the airborne geophysical (total field magnetics, calculated vertical gradient magnetics, VLF-EM) surveys over the property were inconclusive.
- The dikes usually host the mineralization, which includes varying amounts of sphalerite, galena, arsenopyrite, pyrite, pyrrhotite, chalcopyrite, pyrargyrite with trace amounts of tetrahedrite, molybdenite, scheelite, and cassiterite in a quartz-calcite gangue.
- Unclassified reserves from the two zones from which underground development and production has taken place are 113,638 tonnes grading 600 grams per tonne silver and 5.0 per cent lead (BC Assessment Report 18646).

A qualified person has not done sufficient work to classify these historical estimates as accurate, therefore the issuer must not treat these estimates as reliable and this estimate should not be relied upon. Also, with respect to the information available on the Ruffner Leases, *this Qualified Person has been unable to verify the information and that information is not necessarily indicative of the mineralization on the property that is subject of the Technical Report.*

When the mine site was visited by the author in 2016, the mine site, buildings and plant had been reclaimed, and road to the site had been trenched over and unserviceable for vehicle access.

The Atlin Ruffner Silver Mine (104N 011 Minfile) is located in the far northwest of the Ruby Creek Project and covered by 28 historic partly contiguous Crown Grant leases titled to others. The gaps between these leases and adjacent areas are held by Ruby Creek Project, (Figures 2 and Table 2). Given these facts, the Atlin Ruffner Silver Mine area, constituting 28 Crown grants making up 0.94% of the total Ruby Creek Project land package is of low priority at this time, but could become more important in the future. It does, however, in the author's option demonstrate the highly prospective nature of the Ruby Creek Project area. The Atlin Ruffner Silver Mine geology is summarized below.

It is reported the mine lies completely within the Middle Jurassic Fourth of July batholith and is composed of both monzonitic and quartz diorite phases. The batholith has intruded into Carboniferous-Jurassic Cache Creek complex rocks, Figures 4 & 5).

It is reported mineralization on the property is associated with dark green, pyroxene-bearing lamprophyre dikes which strike 070 degrees and dip 85 degrees to the northwest. The dikes are abundant, parallel and from 2 to 10 metres thick. They follow older fracture zones and have been the host for younger fracturing, shearing and veining. The dikes are not commonly seen outside the batholith and have also been crosscut by the younger, Late Cretaceous Surprise Lake batholith rocks.

It is reported the dikes usually host the mineralization, which includes varying amounts of sphalerite, galena, arsenopyrite, pyrite, pyrrhotite, chalcopyrite, pyrrargyrite with trace amounts of tetrahedrite, molybdenite, scheelite, and cassiterite in a quartz-calcite gangue.

This Qualified Person has been unable to verify the above reported information and that information is not necessarily indicative of the mineralization on the property that is subject of this Technical Report.

6.5 Adanac Moly Project History

The Adanac Moly Project, (also referred to as Adanac/Ruby Creek deposit, Adanac porphyry molybdenum deposit, Adanac, and others) is centered at (Lat. 59° 42.5' N, Long. 133° 24' W; NTS 104N/11) and is at the head of Ruby Creek, northeast of Atlin in northwest British Columbia, Atlin Mining Division (Figures 2 & 7). It underlies the floor of the Ruby Creek valley at approximately 1,500 m elevation. The deposit is readily accessible by a 24 km road from Atlin. The first 19 km from Atlin to the Pine Creek bridge at Surprise Lake are fully maintained. From there to site, the road is serviced by the Company and by local placer miners (Golder Associates, 2009., modified by the author).

It is reported molybdenum was found in 1905, (Smith 2009) but saw limited exploration prior to 1966, when it was staked by Adanac Mining and Exploration Limited (AME) and by the author for Canadian John's Manville Company Limited (CJM) and independently diamond drilled by both companies. In 1972 both adjacent properties were optioned independently to Kerr Addison (KA)(Golder Associates 2009, modified by the author).

KA diamond-drilled 47 holes for a total depth of 5,626 m and drove 589 m of drift, 246 m of cross-cut, and 281 m of raise in the higher-grade core of the deposit, which underlies the floor of the valley. It extracted 9,545 tonnes of ore from the cross-cut and six raises and processed them on site to evaluate the nugget effect caused by coarse-grained molybdenite. Chapman, Wood and Griswold Limited completed a feasibility study in 1972 and deemed the deposit to be uneconomic. As a result, KA relinquished ownership of the property (Golder Associates, 2009).

The following year, 1973, Climax Development Corporation of British Columbia Limited (CL) diamond-drilled seven new holes and deepened two others, for an aggregate depth of 2,672 m. CL later released its option. The property then remained dormant until metal prices improved in the late 1970s (Golder Associates, 2009).

In 1978, Placer Development Corporation (PD) re-evaluated KA's feasibility study, optioned the property and started a full-scale technical and socio-

economic review. In 1979, PD drilled a further 6,028 m in 49 diamond holes in-and-around KA's proposed initial pit, and the following year it drilled a further 27 holes with an aggregate depth of 4,858 m, in-and-around the margins of its ultimate pit. Although PD nearly finished all the work required for a formal bankable feasibility study, it was never completed. The price of molybdenum which had been rising in the 1970s dropped sharply in 1982 to 1983. PD held on to the option for a few years, but eventually returned the property to its owners (Golder Associates 2009, modified by the author). The claims lapsed in the late 1990s. Geologist Andris Kikauka staked the deposit for AMC in 2002. The following year, AMC compiled a considerable amount of existing drill-data. In 2004 that work led the company to a new program which had three objectives:

- 1) to assess the quality of the old assay data,
- 2) to fill gaps in its distribution, and
- 3) to improve the company understanding of the extent of the deposit.

AMC drilled 36 holes for an aggregate depth of 8,983 m. In 2005, AMC drilled a further 19 holes for an aggregate depth of 4,984 m.

In 2006, AMC concentrated its drilling in the main pit area, in the vicinity of the underground workings, where previous work by KA and PD had established the presence of a significant volume of relatively higher-grade mineralization. In total, AMC diamond-drilled sixteen holes for an aggregate depth of 3,920.7 m. They were drilled in a westerly direction at a dip angle of approximately -50 degrees. The remaining three were exploration holes. In 2007, AMC focused its attention on the north zone, a down-faulted block of mineralization adjacent to the northwest margin of the proposed pit. AMC also completed a condemnation drilling program at lower elevation, further down the valley (Pinsent, 2008). Between the start of the 2007 program and the completion of the condemnation drilling in 2008, E. Caron Diamond Drilling Ltd. and Foraco (Connors) Drilling Limited completed 22 diamond-drill holes for an aggregate depth of 6,550 metres. In the spring of 2008, AMC returned to the north zone and the main deposit area and completed its previously planned program. Foraco (Connors) Drilling Limited diamond-drilled 38 holes for an aggregate depth of 14,700 metres. Total drilling between 2004-2008 by AMC 71,809.45 m of core (GDS data, Golder Associates, 2009).

During this period AMC also improved the access road from Surprise Lake to the property, including a bridge over Boulder Creek, and the BC government completed a concrete bridge across the headwaters of Pine Creek, at the west end of Surprise Lake to support access (author).

In 2016, according to MTO data reviewed by the author, the Adanac Moly Project titled to AMC and consisting then of 9,299.857 ha. was purchased by Global Drilling, Table 1, with no underlying encumbrances, net smelter royalties (“NSR’s”) or other Royalties (Global Drilling Solutions web site).

During 2016-2018 According to MTO data reviewed by the author, Global Drilling completed additional staking of mineral claims amounting 17,689.783 ha, bringing total contiguous land package of the Ruby Creek Project to unencumbered 26,734.74ha, Table 1.

According to GDS data and MTO data on 28 Crown Grant leases, (titled to others) the total land package now consists of an unencumbered 26,734.74 ha. which is now the Ruby Creek Project.

A historical estimate of resource categorized as Measured, Indicated, Measured & Indicated, and inferred is tabulated in Table 5. This estimate was a 2009 update of resource categories completed in conformance with CIM Mineral Resource and Mineral Reserve definitions referred to in National Instrument NI 43-101 (after Golder Associates, 2009, modified by author).

The results of the April 2009 Historical Mineral Resource Estimate for the Adanac Moly Project based on 0.02 to 0.10% Mo cut-off grades for the Historical Measured, Indicated and Inferred Mineral Resource Categories The pounds of Mo are Insitu pounds and have not had mill recovery factors applied to them (after Golder Associates, 2009, modified by author).

The total Historical Measured Mineral Resource Estimate using a 0.04% Mo cut-off grade is 43.642 million tonnes, 0.078% Mo and 75.361 million lbs Mo. The total Historical Indicated Mineral Resource Estimate at the same cut-off grade is 231.712 million tonnes, 0.065% Mo and 332.550 million lbs Mo. The total Historical Inferred Mineral Resource Estimate using a 0.04% Mo cut-off grade is 39.076 million tonnes, 0.062% Mo and 53.719 million lbs Mo (after Golder Associates, 2009, modified by author), and shown in Table 4.

Table 4

28th April 2009 Historical Mineral Resource Estimate Adanac Moly Project*

Resource Category	Cut-off (Mo%)	Tonnes	Mo (%)	Mo (lbs)
	0.02	54,055,000	0.069	82,209,000

Measured	0.03	48,676,000	0.074	79,263,000
	0.04	43,642,000	0.078	75,361,000
	0.05	36,978,000	0.084	68,734,000
	0.06	36,273,000	0.091	60,626,000
	0.07	23,377,000	0.098	50,733,000
	0.08	17,075,000	0.107	40,342,000
	0.09	11,711,000	0.117	30,303,000
	0.10	8,228,000	0.127	23,037,000
Indicated	0.02	437,348,000	0.047	451,659,000
	0.03	278,313,000	0.060	368,503,000
	0.04	231,712,000	0.065	332,550,000
	0.05	174,643,000	0.072	275,839,000
	0.06	117,696,000	0.080	208,897,000
	0.07	71,669,000	0.089	141,157,000
	0.08	42,546,000	1.00	93,329,000
	0.09	24,127,000	0.111	58,975,000
Subtotal Measured & Indicated	0.10	14,114,000	0.122	38,101,000
	0.02	491,403,000	0.049	533,868,000
	0.03	326,989,000	0.062	447,766,000
	0.04	275,354,000	0.067	407,911,000
	0.05	211,621,000	0.074	344,573,000
	0.06	147,969,000	0.082	267,523,000
	0.07	95,046,000	0.092	191,890,000
	0.08	59,621,000	0.102	133,671,000
	0.09	35,838,000	0.113	89,278,000
Inferred	0.10	22,342,000	0.124	61,138,000
	0.02	299,478,000	0.030	192,082,000
	0.03	78,232,000	0.048	83,147,000
	0.04	39,076,000	0.062	53,719,000
	0.05	25,781,000	0.072	40,701,000
	0.06	17,533,000	0.080	30,746,000
	0.07	10,437,000	0.090	20,608,000
	0.08	5,460,000	0.103	12,451,000
	0.09	3,180,000	0.117	8,208,000
	0.10	1,142,000	0.128	6,048,000

*Original referred to/listed as "Ruby Creek Molybdenum Project"

after Golder and Associates 28th May 2009

- The source of this Historical Mineral Resource Estimate, originally reported by Golder Associate Ltd on 28th May 2009, in report titled “Mineral Resource Update, Ruby Creek Molybdenum Project in Northern British Columbia.”
- This historical mineral resources estimate up-date is reported as completed on 28th April 2009 and based on latest drilling data completed during the 2007 and 2008 field programs, including historical drilling and underground sample data collected on the property from 1966 to 1980, and three field seasons completed by AMC between 2004 and 2006 (71,809.45 m of core, author).
- The historical mineral resource estimate update summarized in this table is reported as based on the ordinary Kriged interpolation method and Mo capped assay values.
- Kriging of multiple and close drill hole data is the most effective method to determine a mineral resource estimate, and this Historical resource estimate is considered most reliable based on available drill core data up to 28th April 2009,(author).
- This historical mineral resource estimate update is reported as completed in conformance with the CIM Mineral Resource and Mineral Reserve definitions referred to in National Instrument NI 43-101, Standards of Disclosure for Mineral Projects effective on 28th May 2009.
- Comment: there is still a need to establish if the Adera Fault, (Figures 4&7) is pre-mineralization, syn-mineralization, or post mineralization, (author).
- Comment: if the Adera Fault, (Figures 4 & 7) is pre-or syn-mineralization, additional drilling could prove a larger molybdenum resource (author).
- Comment: neither the author nor any qualified person has done sufficient work to classify the historical estimate as current mineral resources or mineral reserves and therefore the author recommends the Company does not treat these historical resource estimates for the Adanac Moly Project as a current valid resource.
- A qualified person has not done sufficient work to classify this historical estimate as current mineral resources or mineral reserves, therefore the issuer is not treating the historical estimate as current mineral

resources or mineral reserves and the historical estimate should not be relied upon.

7.0 Geological Setting

7.1 Regional Geology

Atlin regional geology is dominated by two distinct litho-tectonic elements (Ash, 2001) referred collectively in this Technical Report as Cache Creek terrane. A structurally higher, imbricated sequence of oceanic crustal and upper mantle lithology's termed the 'Atlin Ophiolitic assemblage', which is tectonically superimposed over a lower and lithological diverse sequence of steeply to moderately dipping, tectonically intercalated slices of pelagic meta-sedimentary rocks with tectonized pods and slivers of meta-basalt, including basalt-andesites, dacites, and diorites, limestone, and greywacke termed the Atlin Accretionary complex (Figures 4 & 5.) Within the Ruby Creek Project, there are several roof pendant slices of the Atlin Ophiolitic assemblage (Map 1082A, Geology Atlin). Locally these rocks are intruded by the Middle Jurassic calc-alkaline Fourth of July batholith and related quartz-feldspar porphyritic and melanocratic dike rocks (Mihalynuk, et al. 1992), During the Cretaceous Period the Surprise Lake batholith. (including the Mount Leonard stock) intruded these same units. Almost all of the Atlin placer creeks or their headwaters within the Property and elsewhere in the Atlin gold camp are underlain by the Surprise Lake batholith or its thermal metamorphic halo (Ash, 2001, Mihalynuk, 2016, modified by author).

Quaternary olivine basalt cones, and basalt lava flows outcrop at Volcanic Creek immediately north of Atlin Ruffner Silver Mine just outside the Property, and at the headwaters of Cracker Creek and west side of Ruby Creek (Figures 4 & 5) within the Property.

Atlin placer creeks generally are in broad valleys originally cut deep into bedrock during pre-Wisconsin glacial times, which are now fluvially modified and filled by glacial and glaciofluvial deposits. Some of the placer deposits may be interglacial in age but most are probably pre-glacial (Levson, 1992). Post-glacial placers are reworked, mostly deeply buried, and glacial fluvial placers and are usually less productive. The original pre-Wisconsin gravels rich in gold are characteristically oxidized and red in colour, deposited locally on altered bedrock (Levson, 1992) or on a boulder till and paleo-stream bedrock, indicating high energy stream flow including flash flooding (Levson, 1992, Sack and Mihalynuk, 2004, Hora, 2012, modified by the author, 2019).

7.2 Property Geology

The Atlin Ophiolitic assemblage comprises an imbricated sequence of thrusts of obducted oceanic crustal and upper mantle rocks (Ash, 2001). Mantle lithologies are dominated by harzburgite tectonite containing subordinate dunite and they are similar in composition to basalts of normal ocean and lesser pyroxene dikes. Aitkin's mapping (1959) shows 12 detached and isolated units of this assemblage at various locations within the Property (Figures 3, 4 & 5).

The Atlin Accretionary complex units within the Property comprise a series of variably dipping lenses and slices of structurally intercalated meta-sedimentary and meta-volcanic rocks at scattered locations. Pelagic meta-sedimentary rocks dominate these rock units and consist of argillite, cherty argillites, black argillites, graphitic argillites, argillaceous cherts, and cherts with lesser limestone and greywacke. Contact relationships between many individual units of the complex have not been established due to lack of exposure; most are inferred as tectonic. Internal bedding within the individual lenses in places is parallel to the external contacts, but is more commonly strongly discordant (Ash, 2001, modified by author).

In the northwestern part of the project area the Fourth of July batholith rocks of Jurassic age are invariably in contact with units of the Atlin Accretionary complex (Figures 4 & 5). These batholithic rocks consist of megacrystic quartz feldspar monzonites, quartz monzonite and granodiorite. The quartz monzonite can be recognized in the field by an abundance of smoky quartz, small hornblende euhedra and crystals of brown sphene that catch the eye. Some outcrops are more alkalic, the potash feldspar appearing as coarse pink phenocrysts. The Fourth of July batholith is also host to dark green lamprophyre dikes.

The Mount Leonard stock and Surprise Lake batholith are of Cretaceous age (Figures 4 & 5) underlie the Atlin Ophiolitic assemblage and the Atlin Accretionary complex units within Project and abundantly exposed in the region of Surprise Lake. The batholith comprises coarse to fine grained highly differentiated peraluminous granite (Ballantyne and Littlejohn, 1982) with quartz-eye aplite derivative dikes. The batholith and stock rocks are collectively named alaskite-granites by the author. These rocks and derivatives, depending on location, may exhibit high background contents of gold and silver, 0.1 ppm and higher (Tables 6, 7, 8, 9, 12, 13 & 14 and analysis certificates in Appendix 2).

There are two Quaternary volcanic basalt vents in the mid-section area of Ruby Creek which have resulted in columnar basalt flows 30 m thick that flowed down stream and southwards, covering auriferous gravels (Figures 3, 4 & 5). It is estimated by the author the main columnar joint flow occurred prior to the on-set of the Wisconsin glacial event, while second and weaker venting occurred during glaciation, causing scoria basalt flows and local undulating geomorphological effects as these later flows settled on melting glacial ice (author's observations, 1967-2019).

The oldest unconsolidated deposits are decomposed pre-Wisconsin gravels lying deeply on weathered bedrock, and exposed in some of the placer gold deposits. Fluvial deposits are locally present as variable stratigraphic lenses. Pre-Wisconsin gravels are variably overlain by grey compacted clays from the last glaciation. Talus and coarse felsenmeer cover a large percentage on mountain ridges and slopes at 1000 m elevation and above (Aitken, 1959, modified by author).

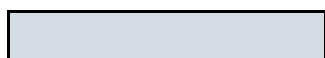
Placer deposits on the Property have already been discussed in section 6.1.

There are 36 significant BC Minfiles, localities of known mineralization, that fall within the Ruby Creek Project land package (Figure 6) and are summarized on Table 5.

Table 5 Minfiles of Mineral Showings located within Ruby Creek Project

#	Minfile #	Name	Map sheet	Lat	Lat	Elev M	Minerals
1	104N 028	Ruby Creek placer	104N11W	59 40 23 N	133 20 04 W	1300	Au,
2	104N 027	Boulder Creek	104N11W	59 39 38 N	133 25 20 W	1233	Au, W
3	104N 025	Cracker Creek	104N11W	59 44 41 N	133 15 12 W	1333	Au
4	104N 031	Birch Creek	104N 031	59 37 32 N	133 28 56 W	1100	Au
5	104N 026	Horse Creek	104N11E	59 43 41 N	133 09 18 W	1300	Au,
1	104N 147	Wheel Barrow	104N11W	59 44 01 N	133 28 04 W	1650	Ag-Pb-Zn+/-Au
2	104N 006	Black Diamond	104N11W	59 41 48 N	133 24 19 W	1829	W, Cu, Mo, Sn, Au, U
3	104N 009	Lakeview	104N11W	59 38 39 N	133 27.06 w	1333	Au, Cu, Pb, Zn
4	104N 010	Whitestar	104N 010	59 38 59 N	133 26 06 W	1500	Au, Cu, Pb, Zn
5	104N 053	Black Diamond (2)	104N11W	59 40 27 N	133 25 33 W	1300	W, Au, Mo, Cu, Sn, Pb, Ag

104N					133 23 22		
6	057	Dam	104N11W	59 41 36 N	W	1750	Ag, Au, Zn, Cu, W
104N					133 26 03		
7	073	Sunbeam	104N11W	59 40 13 N	W	1400	Au
104N					133 22 07		
8	080	Gold 218a	104N11W	59 40 00 N	W	1440	Au
104N					133 29 38		
9	116	Cabin Silver	104N11W	59 38 37 N	W	1180	Ag,Pb, Zn, Au
104N					133 30 35		
10	122	Ruff	104N12E	59 43 36 N	W	1400	Ag, Au, Mo, Zn Pb, Cu
104N				059° 44'	133° 31'		
11	011	Atlin Ruffner	104N12E	09"	18"	1400	Ag-Pb-Zn+/-Au
104N					133 24 18		
1	052	Adanac	104N11W	59 32 45N	W	1500	Mo, W, Cu
104N					133 23 08		
2	013	Mount Barham	104N11W	59 44 24 N	W	1844	Ni
104N					133 23 00		
3	015	Thor	104N11W	59 42 11 N	W	1733	W, Mo, Pb
104N					133 18 15		
4	016	Pereye Tungsten	104N11W	59 42 39 N	W	1525	W, Cu,
104N					133 27 30		
5	018	Biirtx Creek Tungsten	104N11W	59 40 59 N	W	1833	W
104N					133 23 12		
6	051	Hobo	104N11W	59 42 47 N	W	1666	Mo, W, Pb
104N					133 24 18		
7	052	Ruby Creek	104N11W	59 42 35 N	W	1600	Mo, Cu, W
104N					133 26 00		
8	054	North	104N11W	59 41 17 N	W	1400	W
104N					133 25 18		
9	058	Volcanic Creek Molly	104N11W	59 44 29 N	W	1666	Mo, Cu, Zn
104N					133 16 33		
10	064	Pit	104N11W	59 44 31 N	W	1500	Cu
104N					133 26 30		
11	069	Silver Diamond	104N11W	59 39 59 N	W	1600	Sn, W, Zn, Cu, Pb, Mo
104N					133 26 15		
12	077	Ru Silver	104N11W	59 42 37 N	W	1900	Ag
104N					133 17 51		
13	090	Pato 2	104N11W	59 42 59 N	W	1620	Ag, Pb, Zn,
104N					133 25 06		
16	105	Ruby Mountain Magnesite	104N11W	59 41 59 N	W	1300	Magnesite
104N					133 22 58		
17	127	Ruby Mountain	104N11W	59 41 13 N	W	1734	Pb
104N					133 08 03		
18	130	Granite Creek	104N11E	59 43 48 N	W	1600	W, Pb
104N					133 18 47		
19	134	Daybreak	104N11W	59 42 39 N	W	1575	Sn, Zn
104N					133 28 38		
20	143	Hopeful	104N11W	59 44 40 N	W	1560	Cu, Pb, Zn, Ag



Gold Placer Creeks



Showings with Gold



Non-gold showings

Salient points are as follows;

- Five of these mineral localities are historic placer gold producing creeks, Ruby, Boulder, Cracker, Birch and Horse Creeks, and still being worked on an off and on basis as small one man to 10 men operations (Holland, 1950, Black, 1953, Aitken, 1959, Proudluck & Proudluck, 1976, and authors observations 1966-2019).
- Cracker and Horse Creeks are significant as they are located totally within plutonic rocks of the Surprise Lake batholith and Mount Leonard stock.
- Eleven Minfiles are polymetallic showings of various sulphide and oxides where gold is present, the most significant being the quartz vein associated with the Lakeview and White Star showings.
- Twenty of these Minfiles that fall within the Project area consist polymetallic sulphides and/or oxides.
- Adanac is a developed molybdenum prospect, Ruffner Silver Mine is a past silver producer, both as summarized in Section 4.

A qualified person has not done sufficient work to duplicate these historical Minfiles as accurate, therefore the issuer must not treat these Minfiles as reliable and this Minfile table should not be relied upon.

8.0 Deposit Types

8.1 Ruby Creek Project

The Ruby Creek Project is not seeking to find additional molybdenum resources on the Property at this time.

Primary exploration targets for lode gold near Atlin have historically been quartz-carbonate-mariposite altered ('listwanite') ultramafic and mafic bedrocks, and the upper unit of Cache Creek terrane. These have long been considered the source of nearby placer deposits, and locally do contain fine visible gold. However, despite more than a century of searching, coarse gold such as that found in the placer gravels has never been discovered (Mihalynuk, 2016). This has prompted the belief that the 'listwanites' are mere erosional remnants of bedrock sources of the coarse placer gold, and that these sources have been almost entirely lost to erosion. The Project does have potential for this type of mineral showings, but the author's opinion is that all they would be is showings. Roof pendants of ultramafic and mafic

bedrocks, and upper unit of Cache Creek terrane, where they come into contact with the lower Cache Creek accretionary unit is a target for gold associated with listwanite alteration. Remnant slices of the lower unit are targets for skarn gold-polymetallic type showings where in contact with Mount Leonard stock alaskite-granite rocks.

There are two model types for seeking gold within the Project, these are;

- 1) hidden low grade gold bulk tonnage deposit type,
- 2) gold in quartz vein orogenic type deposit type,

These are briefly discussed here. As the name suggests, it is the opinion of the author the definition of a low -grade bulk tonnage gold deposits in current times are gold deposits with grades ranging between 0.4 g/t Au to 0.8 g/t Au hosted within a range of 150 million tonnes ore, or more. As gold deposits become more difficult to find, and ore extracting technology advances, grades could come down further.

The Project includes the Mount Leonard Stock, which is a western extension of the Surprise Lake batholith. Aitken (1959) identified rocks associated with the batholith, which included the stock as alaskite (Figures 4 & 5). Aitken recognized this rock in the field as inequigranular, highly variable texture, coarse grained and porphyritic. Aitken also describes the rocks as abundant in smoky quartz, low mafic mineral content, and lack of colour contrast between the two feldspars. In thin section, the potash feldspar was recorded by Aitken as highly perthitic, and commonly microcline-twined.

Research to date on AMC and GDS drill cores hosting gold mineralization in Mount Leonard stock alaskite-granites within the Property are so far only preliminary, consequently length, depth, continuity of gold mineralization has not been established. Tables 7, 8, 9, 10, 14, 15 & 16 below shed some light on this matter. Drilling data in the above tables show mineralized drill sections range from 0.15 m thick to 24.4 m thick, with respective mean grade of 0.3538 g/t Au and 3.37 g/t Au.

Within upper Ruby Creek, the Adera fault system trends NE-SW, a normal fault dipping approximately 80° NW. At least eight splay faults are associated with the Adera fault system (Smith, 2009). This fault system could be a key target zone for seeking low grade gold bulk tonnage deposits.

Orogenic gold deposits are a new term to describe epithermal vein gold deposits, (formed near earth's surface) but in the Atlin Camp needs to be extended to include mesothermal gold vein type deposits (formed deeper in the earth's surface). Quartz veins found in the Atlin Camp do not have the physical attributes of epithermal veins, but do have mesothermal characteristics.

The underlying factor is the host rock has undergone a metamorphism due to subducted, accretion and collision under the continental margin. In simple terms, it can be argued that prior to this collision, trace gold (i.e., about 100 ppb Au) and other elements may have originated on the surface of the ancient ocean floor via thermal volcanic flumes, vented out to combine with other vented elements including iron sulphides that eventually crystalize into pyrite. This auriferous pyrite, with other combined elements are then absorbed into surrounding volcanic and sedimentary rock formations on the ancient sea floor. These rock formations, due to tectonic plate action eventually collided with continental margins, were accreted, metamorphosed and heated-up as subduction processes occurred under the continental margin. The heat generated by this process caused trace gold and the other elements be separated, mobilized, and in Atlin Camp case, were transported in mesothermal fluids. After multiples cycles over millions of years, the gold (and other elements) accumulated as orogenic gold in mesothermal quartz veins.

Within the Atlin Camp, the author believes, besides the above orogenic process's, other forces also came into play. As pointed out in Section 4, links of Atlin placer gold to the Cretaceous Surprise Lake batholith, and adjacent Jurassic Fourth of July batholith can also made (Mihalynuk and Sack 2004, Mihalynuk and others, 2016) (Figures 3, 4 & 5). In the case of the Surprise Lake batholith, which intruded the Cache Creek accretionary rocks during Cretaceous times, is also believed by the author and others to have created a metamorphosed halo, creating further heat and a final remobilization of gold, initially within a carapace over the present exposed batholith, but also at depth, Three creeks which drain the Property have a distinctive north-south trend extending from the Mount Leonard stock (the west extension of the batholith) and could well reflect normal faults, and host orogenic gold veins, as now known to occur on Otter Creek immediately to the south of the Property. These creeks are:

1. Boulder Creek (a north extension of the auriferous Otter Creek fault);
2. Birch Creek;

3. Ruby Creek.

One of the challenges in prospecting creeks on the Property is that that thick glacial-fluvial glacial gravel cover is present over these creeks. In the case of adjacent Otter Creek overlying glacial debris is up to 30 m thick (author). At Ruby Creek, 30 m thick Quaternary basalts in addition to 10 m of glacial gravels cover the creek (author). Although aggressive placer miners have completed pits to bedrock in all the above listed creeks, these pits are only temporary and often reclaimed by the end of the season, or left until next season, but fill up with run-off water by the late Fall. Prospecting these pits requires the permission of the placer miners, and if given, only allows for a few hours of prospecting.

With respect for low grade bulk tonnage exploration, a program in 2020 should review all available AMC and GDS core to ascertain if certain textures of the Mount Leonard Stock alaskite-granite favour higher trace gold than elsewhere, and if proximity to the Adera Fault also influences gold grades. Building a horizontal and vertical model of rock differentiates showing trace gold grade categories would support a methodical drill program in 2021.

With respect to an orogenic gold vein exploration program in 2020, careful stream silt and rock sampling the channel base of Boulder, Birch, Birch and Ruby Creeks at 50 m intervals, including geological mapping would support planning a concise drill program for 2021 for orogenic mesothermal gold veins.

9.0 Ruby Creek Project Surface Exploration, (2016-2018)

In September 2016, the author was commissioned by Global Drilling to investigate potential gold source within alaskite-granite plutonic rocks in upper Ruby Creek adjacent to and southwards of the Molly Lake (Figure 9) near the head waters Ruby Creek, over a 4-day period. Analysis on rock and soil samples were completed for Ag, Au, Cu, Pb, Zn, As, Mo, and W. Analytical gold returns were all low, ranging from 1.2 ppb to 10.5 ppb for gold, except for one boulder sample which returned 28.375 ppm gold (Figure 8).

During June 2017, Global Drilling initiated a rock and soil geochemical program across its land package supported by a field crew of 4 personnel. This program was continued in 2018 with other personnel. Global Drilling records show a total of 306 soils were collected, of which 30 are deemed as anomalous based on the authors experience. Global Drilling records show

475 rock samples were collected from east to west across the Property and, according to the author, 53 rocks collected are anomalous in gold (GDS Data 2017, Hanslit, 2018) (Figures 8 & 9).

In the field all sample locations were recorded using GPS-UTM coordinates, elevations, and times collected. Notes on sampler's name, slope, depth of sample in cm, horizon, colour, tree cover, texture and sample descriptions were noted in field books and in the office input onto digitized Excel spread sheets. In the laboratory samples were analyzed for economic minerals Ag, Au, Cu, Pb, Zn, Mo, and W. Locations of anomalous rock and soil samples are shown on Figures 8 and 9 respectively and Tables 6 and 7 (GDS Data 2017, Hanslit, 2018). Analytical details of all data for these tables are included in the Appendices 5 & 6.

Table 6.

Anomalous Ruby Creek Project Soils Collected by Global Drilling Solutions 2017							
#	Soils Sample	UTM_East	UTM_North	Au ppm	Horizon	Colour	Texture
1	1532305	589866	6621088	0.03	B	Lt brown	Sand
2	1532319	589525	6621165	0.02	B	Lt brown	clay/silt
3	1532320	589574	6621137	0.03	B	Lt brown	sand/talus
4	1532334	588021	6620643	0.03	B	Brown	loamy/talus
5	1532335	588058	6620616	0.02	B	Dk brown	clay/talus
6	1532445	591467.3	6621329.3	0.03	B	No data	No data
7	1532450	591223	6621263.9	0.03	B	No data	No data
8	1532488	589384.4	6620889.5	0.02	No data	No data	No data
9	1532675	590833	6622131	0.02	Talus	No Data	Talus
10	1532676	590814	6622183	0.04	Talus	Brown	Silt/Talus
11	1532678	590787	6622271	0.03	Talus	Grey	Clay/Talus
12	1532685	590925	6621659	0.03	B	Brown	clay/silt
13	1532687	590825	6621774	0.03	B	Brown	clay/silt

14	1532688	590808	6621827	0.04	B	Lt brown	Silt
15	1532689	590771	6621863	0.06	B	Lt brown	clay/silt
16	1532690	590735	6621901	0.03	No data	Grey-brown	Sand/Coarse
17	1532691	590701	6621931	0.08	No data	Grey	Grit/Sand
18	1532692	590701	6621931	0.08	No data	Grey	Grit/Sand
19	1532693	590677	6621976	0.05	No data	Grey-brown	Silt/Sand
20	1532694	590633	6622012	0.06	No data	Grey-brown	Silt/Sand
21	1532695	590606	6622045	0.03	No data	Brown	Clay/silt
22	1532696	590573	6622089	0.06	No data	Brown	Clay/silt
23	1532697	590529	6622111	0.09	No data	Brown	Silt/Sand
24	1532698	590504	6622157	0.08	B	Brown	Clay/silt
25	1532773	590362	6621718	0.02	No data	Grey-brown	Grit
26	1532774	590337	6621760	0.05	No data	Grey-brown	Grit/silt
27	1532775	590301	6621791	0.03	No data	Grey-brown	Grit/silt
28	1532776	590266	6621833	0.09	No data	Grey-brown	Grit
29	1532777	590230	6621875	0.03	B	Brown	clay/silt
30	1532778	590203	6621902	0.08	B	Brown	clay/silt

GDS Data

Table 7

Ruby Creek Project Global Drilling Solutions Rock Sampling Program, 2016-2018						
#	Sample ID	UTM East	UTM North	Sample Source	Au ppm	Descriptions by GDS field personnel. Modified by author
1	1478004	586975.3	6620016	Sub crop	0.7326	Highly altered granite almost to gneiss
4						
2	1478006	586321	6620769	Sub crop	0.768	Granitoid, moderately brecciated, Fl, Cu .
4						

3	1478006	586310.4	6620769 Sub crop	0.8434	Hydrothermal breccia, Fourth of July batholith
5					
4	1478007	589599	6620690 Float	0.1306	Orange brown medium grained QM
5	1478009	589604	6620692 Float	0.1796	Heavily altered CGQM light orange and yellow.
6	1478011	589608	6620686 Float	0.726	Light green CGQM , oxidized, chlorite
7	1478023	583938	6621847 Sub crop	1.8759	Pb>pyrite>Zn , diorite with yellow
8	1478024	583916.5	6621844 Sub crop	2.4107	sulfides with galena>sphalerite pods of diorite. G
9	1478035	584937	6622235 Sub crop	0.5751	Sulphide in diorite? Trace Cu-FeS ₂
10	1478037	585728.1	6621591 Sub crop	3.2786	Diorite , Cu Carb Tiny Pb in mafic pods.
11	1478040	585715	6621613 Sub crop	0.8934	Diorite? Epidote, malachite, trace galena
12	1478077	586655.7	6619689 Sub crop	0.4563	Granite? Pyrite>chalcopyrite>arsenopyrite
13	1478081	584302.3	6621931 Sub crop	4.9589	Quartz veins with minor sulphide
14	1478082	584004.1	6621868 Sub crop	0.2989	Altered granitoid, oxidized iron rich minerals
15	1532059	587032	6622147 Outcrop	0.282	Gossanous Surprise Lake batholith
16	1532109	590320.9	6623432 Outcrop	0.484	Quartz vein, with andesite
17	1532145	591135	6616949 Float	0.482	Skarn, actinolite, Cache Creek Formation?
18	1532151	589169	6619411 Sub crop	0.764	Vuggy, sugary quartz vein with W, Mo
19	1532152	589169	6619411 Sub crop	0.233	Gossanous Brecciation, vuggy quartz veins
20	1532534	599010	6621498 Float	0.149	Siliceous fault breccia, jasperoidal in part.
21	1532538	587377	6612303 Chip	3.222	Quartz veins, ultramafic ,pyrite.
22	1532539	587366	6612014 Chip	3.043	White quartz vein, galena, fuchsite.
23	1532540	587367	6612012 Chip	0.154	Immediate wall rock to qtz galena veins
24	1532556	586340	6616001 Float	0.166	Adjacent to in-situ quartz vein.
25	1532562	591551	6615577 Float	0.3	Quartz vein, CGQM; Weak chlorite fracture fill.
26	1532581	596432	6617454 Float	0.162	Quartz vein, trace As and FeS ₂ .
27	1532605	590236	6618752 Float	0.156	Strongly serpentinized Cache Creek, Cu, FeS ₂
28	1532607	587395	6612309 Sub crop	0.231	Trenches expose quartz vein, disseminated FeS ₂
29	1532628	590901	6620523 Outcrop	1.614	Pb , disseminated As, FeS ₂ .
30	1532644	591278	6617023 Float	2.414	Disseminated pyrite, strong FeO ₂ coating,
31	1532835	588055	6620540 Float	0.229	Quartz vein breccia, FeS ₂ , As, Mo
32	1532844	595756	6621184 Sub crop	0.172	Quartz monzonite porphyry, trace FeS ₂
33	1532853	590994	6620488 Sub crop	0.47	Altered fault breccia, Fe-oxide .
34	1532861	590857	6620131 Float	0.341	Silicified ?fault zone, trace As
35	1532863	595665	6624243 Outcrop	0.103	Stockwork, quartz vein hosting trace Pb, Cu
36	1532902	589531.1	6621072 Sub crop	0.534	North of Adanac deposit. Sulfides
37	1532903	589533.9	6621075 Sub crop	0.693	North of Adanac deposit, sulfide breccia.
38	1532904	588070.4	6620549 Sub crop	0.604	NW of Adanac, above Molly Lake. Sulfides
39	1532920	594573	6621352 Outcrop	0.114	Skarn, Cu Carbonate.
40	1532923	590923	6620601 Float	1.593	Adanac ridge; CGQM, Sulfides
41	1532925	591222	6620741 Outcrop	0.256	Adanac ridge; As
42	1532926	591185	6620717 Sub crop	0.148	Adanac ridge; quartz vein, sulfides

43	1532933	590673	6617136 Sub crop	0.318	Upper Boulder; gossanous, quartz breccia vein.
44	1532940	589820	6619479 Float	0.485	Quartz vein; trace fine grained disseminated Pb.
45	1532942	589800	6619436 Float	0.141	South Adanac pit; W vein.
46	1532950	586979	6619999 Float	0.102	Upper Ruffner; Pb, Zn, FeS ₂
47	1542474	587375	6612019	5.322	Quartz vein
48	662212	585523	6618888	0.379	Black and orange massive sulphide and quartz.
49	662213	585544	6618758	0.316	Massive sulfides, quartz, pyrite, As, Cu
50	662220	591661	6619912	0.29	Massive quartz, W, blades, Cu?
51	662234	589127	6620641	1.708	Sulfides in dirty quartzite. Pb, FeS ₂
52	M387955	589158.9	6620632 Float	0.12	Alaskite-granite, fine grained, gossanous
53	M387957	589517.9	6620303 Float	28.375	Fine grained alaskite granite with disseminated pyrite, boulder, gossanous.

GDS Data and authors field notes. Molly Lake, is a local place-name of a small lake Figure 9, QM means Quartz Monzonite, CGQM means Coarse Grained Quartz Monzonite, both abbreviations for rock types. For Adanac pit/ridge/deposit read Adanac Moly Project area.

Within above Table item 53, (sample ID M387957) indicates an above normal return of 28.375 Au/t compared with other rock returns, and the area should be carefully re-sampled, and if results cannot be duplicated, should then be rejected as biased.

All other rock samples and soil samples appear to be representative, were collected by experienced samplers while being supervised by an experienced geologist, kept under the control of GDS personnel until delivered to the laboratory, and analyzed according to Canadian industry standards.

The soil distribution is limited, yet curiously show an anomalous zone north east of Molly Lake, which would be coincident with the hanging wall of Adera Fault, and close to a geological contact with the Mount Leonard stock-fourth of July batholith to the north west, (Figures 4 & 8).

The rock distribution is more widespread, and again, it is significant an anomalous NW-SE to SW-NE curved trend is coincident with the Fourth of July-Mount Leonard stock contact, from Molly Lake area, with a continuing NW trend to the Atlin Ruffner Silver Mine area. There appears to be anomalous gold connection between.

10.0 Drilling

10.1 Adanac Moly Drilling Re-Evaluated, 2016-2018

It is reported by Global Drilling that from the total of 339 diamond drill holes completed on the Property from 1972-2009, a total of 128 AMC diamond drill holes (38,460.2 m of core) are presently available in storage at Global Drilling's Atlin facilities. During 2016, research on Adanac Moly Project core data by Global Drilling noted several AMC diamond drill hole cores were host to trace analytical gold over significant metres and these are summarized in Tables 6- 10 below; DDH locations are shown on Figure 7. Pertinent details are tabulated in Tables 8, 9, 10, 11 & 12; analytical data is located in Appendix 3. Only significant drill holes showing trace gold are included.

Table 8

Adanac Moly Project Drill Hole Coordinates; NAD 83							
Project	DDH#	Length M	Utm East	Utm North	Elev. M	Az ^o	Dip ^o
Adanac Moly	AD-381	364.236	588706	6620251	1636	330	-60
Adanac Moly	Ad-390	227.076	591922	6621800	1342	360	-90
Adanac Moly	Ad-393	288.04	591926	6620828	1334	270	-60
Adanac Moly	AD-408	352.044	589045	6620477	1629	330	-70

Table 9

AMC Drill Holes with Trace Gold, & Comparison with Ag, Mo, and W.								
DH Sample	From Hole	To m	Interval Length	Ag ppm	Au ppm	Mo ppm	W ppm	
AD-649357	381	236.22	239.27	3.05	50.3	0.4	204.8	9.8
Mean Grade*				3.05	50.3	0.4	204.8	9.8

GDS Data

Table 10

AMC Drill Holes with Trace Gold, & Comparison with Ag, Mo, and W.								
DH Sample	From Hole	To m	Interval Length	Ag ppm	Au ppm	Mo ppm	W ppm	
AD-648883	390	53.34	56.388	3.05	0.05	0.2	4.8	37.5
AD-648884	390	56.388	59.436	3.05	0.2	0.2	4.3	7.3
AD-648886	390	59.436	62.484	3.05	0.2	0.2	6.2	35.6

648887	AD-390	62.484	65.532	3.05	0.1	0.2	2.4	8.5
648888	AD-390	65.532	68.58	3.05	0.1	0.2	4.6	26.8
648891	AD-390	68.58	71.628	3.05	0.05	0.2	4.3	10.1
648892	AD-390	71.628	74.676	3.05	0.05	0.3	2	8.2
Mean Grade*				21.35	0.11	0.214	4.08	19.14

GDS Data

Table 11

AMC Drill Holes with Trace Gold, & Comparison with Ag, Mo, and W.								
DH Sample	Hole	From m	To m	Interval Length	Ag ppm	Au ppm	Mo ppm	W ppm
69782	AD-393	217.93	220.98	3.05	0.2	0.2	1.7	6.8
69783	AD-393	220.98	224.03	3.05	0.2	0.2	1.8	5.8
69785	AD-393	224.03	227.08	3.05	0.5	0.2	1.4	14.4
69786	AD-393	227.08	230.12	3.05	0.4	0.3	1.1	8.6
69787	AD-393	230.12	233.17	3.05	0.8	0.2	0.7	4.7
69788	AD-393	233.17	236.22	3.05	0.1	0.2	0.6	9.4
69789	AD-393	236.22	239.27	3.05	0.3	0.2	0.7	8.9
69791	AD-393	239.27	242.32	3.05	0.2	0.2	0.8	4.1
69792	AD-393	242.32	245.36	3.05	0.2	0.2	0.9	4.7
69793	AD-393	245.36	248.41	3.05	0.05	0.2	0.7	5.8
69794	AD-393	248.41	251.46	3.05	0.3	0.2	0.5	7.1
69795	AD-393	251.46	254.51	3.05	0.2	0.6	1.4	4.5
69797	AD-393	254.51	257.56	3.05	0.5	0.2	1.6	20.4
Mean Grade*				39.65	0.38	0.238	1.06	8.09

GDS Data

Table
12

AMC Drill Holes with Trace Gold, & Comparison with Ag, Mo, and W.								
DH Sample	Hole	From m	To m	Interval Length	Ag ppm	Au ppm	Mo ppm	W ppm
832471	AD-408	62.484	65.532	3.05	63.6	0.4	28.8	14.3
832472	AD-408	65.532	68.58	3.05	37.8	1	119.9	200.1
832473	AD-408	68.58	71.628	3.05	13.5	0.2	208.4	21.4
832475	AD-408	71.628	74.676	3.05	15.8	0.8	157.1	119.4
832476	AD-408	74.676	77.724	3.05	156	1.2	490.4	198.9
832477	AD-408	77.724	80.772	3.05	12.7	0.5	416.8	38.2
832478	AD-408	80.772	83.82	3.05	>200	1.6	213.9	>200.1
832479	AD-408	83.82	86.868	3.05	>200	2.3	398.8	>200.1
Mean Grade*				24.4	**87.5	0.288	254.26	**124.1

GDS Data ** Approximated

***Calculation by Author for Mean Grade**

Accumulated Grade = Each interval length m multiplied by each interval grade ppm. Mean Grade = Total sum accumulated grade divided by total sum interval in m for entire mineralized section. Note: Cores were drilled in feet, then changed to meters for logging, sampling and documentation.

During 2007 and 2008, the author assisted logging AMC core. The drilling operations, core sampling, sample registration, sawing core were being carried out in a professionally supervised and methodical manner. Core recovery was excellent. The author has no reason to believe that this procedure was not carried out in other years between 2004-2009. Details of Reflex EZ-Shot down hole surveys for above DDH's are included in Appendix 7.

10.2 Ruby Creek Project Diamond Drilling, (2016-2017)

During 2016-2017, Zinex Mining Corp for Global Drilling completed 14 exploratory diamond drill holes within the Property, and noted analytical trace gold over short sections from 3 diamond drill holes, locations shown on

Figure 7; pertinent details are tabulated below (Tables 13, 14, 15 & 16). Zinex Mining Corp paid costs for laboratory analytical work by its affiliation with Global Drilling. Details for this data and other data for these tables are included in Appendix 4. Only significant drill holes showing trace gold are included.

Table 13

Global Drilling Drill Hole Coordinates; NAD 83							
Project	DDH#	Length M	Utm East	Utm North	Elev. M	Az°	Dip°
GDS	ADV-2016-003	108.5008	589050	6620473	1627	332	-70
GDS	ADV-2016-004	89.6112	589050	6620473	1627	332	-60
GDS	ADV-2016-005	72.5424	589050	6620473	1627	332	-50

Table 14

GDS Drill Holes with Trace Gold, & Comparison with Ag, Mo, and W.								
DH Sample	Hole	From m	To m	Interval Length	Ag ppm	Au ppm	Mo ppm	W ppm
1542137	ADV2-2016-003	93.57	93.88	0.31	32.5	0.236	280.9	1.2
1542138	ADV2-2016-003	93.88	94.49	0.61	38	0.478	68	1
Mean Grade*					.92	36.1	0.396	139.73
								1.06

GDS Data

Table 15

GDS Drill Holes with Trace Gold, & Comparison with Ag, Mo, and W.								
DH Sample	Hole	From m	To m	Interval Length	Ag ppm	Au ppm	Mo ppm	W ppm
1542200	ADV2-2016-004	54.56	54.71	0.15	1500	3.528	300.2	0.3
Mean Grade*					0.15	1500	3.528	300.2
								0.3

GDS Data

Table 16

GDS Drill Holes with Trace Gold, & Comparison with Ag, Mo, and W.								
DH Sample	Hole	From m	To m	Interval Length	Ag ppm	Au ppm	Mo ppm	W ppm

1542172	ADV2-2016-005	55.47	55.78	0.31	127	1.075	3.4	0.4
1542173	ADV2-2016-005	55.78	56.08	0.3	436	2.184	8.2	1.2
1542174	ADV2-2016-005	56.08	56.39	0.31	1177	4.423	24	100.1
1542175	ADV2-2016-005	56.39	56.69	0.3	1500	3.199	1.7	68.8
1542176	ADV2-2016-005	56.69	57	0.31	564	0.395	6.7	3.4
Mean								
Grade*				1.53	758	2.249	8.85	34.78

GDS Data:

*Calculation by Author for Mean Grade

Accumulated Grade = Each interval length in m multiplied by each interval grade ppm. Mean Grade = Total sum accumulated grade divided by total sum interval in m for entire mineralized section. Note: Cores were drilled in feet, then changed to m for logging, sampling and documentation.

GDS did not include down hole Reflex surveys during drilling operations.

11.0 Global Drilling Sampling Method and Approach

Global Drilling field crews delivered soil and rock samples, in separate polyethylene bags and special soil and silt packets respectively, all pre-numbered, to the Global Drilling core facility in Atlin. The gate to the facility locked at all times when facility not supervised. Samples were then amalgamated into rice bags, numbered, sealed and hand-delivered to Bureau Veritas Labs (ISO certified) at Mount Sima Road, Whitehorse, Yukon (Bureau Veritas), for processing.

Diamond drill core was delivered from the field to the Global Drilling core facility in Atlin, with the gate to the facility locked at all times when the facility is not supervised. The core was not logged for geology, but sampled only. Representative samples were taken from the core for analysis. In 2017, each approximately 1.5 m section was flagged by the geologist and that section was split with a core saw. Best efforts were made to not cross lithologic boundaries. One half of the split was bagged, tagged and sent to Bureau Veritas, for analysis. The remaining core was labeled in core boxes and stored for future reference and analyzed as per the rocks above (GDS Data, 2016-2017).

11.1 Global Drilling Sample Preparation, Analyses and Security

11.2 Global Drilling Soil and Rock samples

All Global Drilling core, rock, and soil samples for the periods covered by this Technical Report were kept under Global Drilling control until delivered to Bureau Veritas for analysis.

GDS reports they keep duplicates of the majority of the rock samples and split drill core in 2017 to maintain a sample for reference, but no other QA/QC. It is reported AMC did extensive QA/QC for drill core with blanks and standards.

Bureau Veritas, (BVM) is an accredited laboratory under the ISO 9001:2015 registration. Their in-house quality control program includes the traceability of samples through the use of barcode tracking. Sample duplicates are created and analyzed for all rock samples submitted. The laboratory inserts reference materials, replicates and blanks into randomly assigned positions within each analytical rack, providing in-house Quality Control protocols for verification of the analytical process.

BVM is an independent laboratory and not related to Stuhini Exploration Ltd. The author of this Technical Report is satisfied that Global Drilling core, rock and soils samples collected, transported and analysed according to Canadian mining industry standard with full attention to security, handling and reporting for the purposes intended. Additional information regards BVM's quality assurance, audit programs, proficiency testing programs, and quality control are summarized below taken from the BVM manual for 2019.

http://acmelab.com/wp-content/uploads/2009/03/BVM_Quality-Control_v2_Jan2018.pdf

BVM has implemented a comprehensive quality management system meeting the requirements of ISO/IEC 17025 and ISO 9001 to ensure the necessary processes and oversight are in place to achieve this goal.

QUALITY ASSURANCE. Through the process of external auditing by recognized organizations, BVM facilities maintain ISO registrations and accreditations. These registrations and accreditations provide independent verification that the management systems have been implemented and meet the requirements of the ISO standards. All BVM facilities are registered or are pending registration to ISO 9001 under the Bureau Veritas corporate

registration. A number of BVM analytical hubs have received ISO/IEC 17025 accreditation for specific laboratory procedures.

AUDIT PROGRAM. All BVM facilities are also internally audited against the above ISO standards by knowledgeable and trained personnel on a scheduled basis.

PROFICIENCY TESTING PROGRAMS. BVM laboratories routinely participate in national and international inter-laboratory comparison studies in order to independently assess individual laboratory performance for the test method(s) analyzed.

QUALITY CONTROL. Through comprehensive training, BVM ensures that laboratory staff are competent to perform the analysis requested. All labs use validated methods to achieve accurate reproducible results with equipment that is maintained and calibrated to achieve the highest levels of performance. At all steps of sample handling, the laboratory maintains traceability of samples through the use of barcode tracking and maintains detailed audit trails of the people and equipment used to perform analysis.

Information regarding analytical techniques used by BVM are described below using the laboratory codes for clarity. Analytical procedures used are written on each assay certificate. The samples were variably were assayed or analyzed for: Au, Ag, Al, As, B, Ba, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, Hg, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Sc, Se, Sr, Te, Th, Ti, Tl, U, V, W, Zn, using the following procedures:

Soil sample Preparation

-SS80 – Soils, Silts - Dry at 60°C, sieve up to 100 g to -180 µm (80 mesh) up to 1 kg sample (discard plus fraction), The sub sample is rolled and homogenized and bagged in a pre-numbered bag.

Rock Sample Preparation

-PRP70-25- Samples are 2 stage crushed to ≥70% passing 2mm - Pulverize 250 g ≥85% 75µm, The sub sample is rolled and homogenized and bagged in a pre-numbered bag.

-PRP90-250 -Samples are 2 stage crushed to ≥90% passing 2mm - Pulverize 250 g ≥85% 75µm, The sub sample is rolled and homogenized and bagged in a pre-numbered bag.

Analytical methods

Fire Assay

Lead collection fire assay fusion is a classic method for total sample decomposition. Total Au content is determined by digesting an Ag dore bead and then analysing by AAS, ICP-ES, or ICP-MS.

-FA450: - AAS analysis, wherein Au>10 ppm is automatically analyzed by gravimetric method.

-FA550: - Gravimetric analysis.

-ICP (Inductively Coupled Plasma) Spectroscopy Methods

-MA370 - For high grade rock and drill core samples it reports percent level concentrations as determined by ICP-ES using multi-acid digestion for sulphide and silicate ores. This method was used to determine any over limit assays on economic minerals from the following preliminary analysis.

-AQ202 -30 g sample is digested using a modified aqua regia digestion (1:1:1 HNO₃:HCl:H₂O) with analysis by ICP-ES/MS for 36 elements.

-AQ252-EXT – is an ICP-MS analysis of a 30 g sample after modified aqua regia digestion (1:1:1 HNO₃:HCl:H₂O) for low to ultra-low determination on soils, sediments and lean rocks and includes Pt/Pd for a total analysis of 53 elements.

11.3 Global Drilling Diamond Drill Core, (2016 - 2017)

Samples of core were prepared, analyzed and assayed for gold using many of the same procedures described above. Again, all analytical procedures including preparation techniques are written on the assay certificates from the lab.

Sample Preparation

-PRP70-250 and PRP90-250

Analytical

Diamond drill core was analyzed variously by fire assay FA450 and FA550 above as well as by ICP using a combination of AQ202 and AQ252-EXT with over limit assays of economic minerals further analyzed by MA370.

12.0 Data Verification

- Company mineral claims were checked and verified on line with MTO.
- Crown Grant data was obtained directly from Samuelson, Karen. MTA-Crown Granted Mineral Claims. BC Mineral Titles Branch, BC Ministry of Energy, Mines and Petroleum Resources. <https://catalogue.data.gov.bc.ca/dataset/mta-crown-granted-mineral-claims>.
- It is assumed the gaps in the Crown Grants that are over-staked by Global Drilling in this case are titled to the Company and as such are included in the Property as adjusted unencumbered Ruby Creek Project Area equal to 26,734.74 ha. This assumption is based on the authors experience of mineral claim staking in British Columbia from 1966 to present.
- Copies of original Option agreements were read, and pertinent information is included in Section 4.
- Accessibility, climate, local resources, infrastructure and physiography data is based on the author's knowledge of the area, including two visits made to the Property on 31st August and 19th September 2019. A vegetation study was not made on site, but data is based on casual observations, and with references to Smith, C.A.S., Meikle, J.C, Roots, C.F. (2006). Ecoregions of The Yukon Territory Biophysical Properties of Yukon Landscapes. PARC Technical Bulletin, 04-01.
- History of Adanac Moly Project was taken from the author's personal knowledge of the Property, and further verified by Golder Associates reports 2007 and 2009 and a thesis by Smith 2009.
- Minfile data was copied from BC government data. Some Minfile data is personally known to the author, and others are not. No field check validations were made on the latter for the purposes of this Technical Report,
- With respect to the 36 Minfiles listed in Section 7, no field verifications were made for this Technical Report due to time limitations and expense. Detailed information was not acquired regards drilling, details of mineralized length, true thickness, strike and dip of each Minfile locality, other than Adanac Moly Project and Ruby Creek Project.
- All GDS soil, GDS rock, and GDS core analyses, provided by GDS, were cross checked with Figures 6-9 and then against analytical sheets provided in the appendices of this Technical Report.

- All sample analytical data provided for GDS soil, GDS rock and GDS drill core were verified by Bureau Veritas manual: Bureau Veritas Metals, Minerals & Environmental Schedule of Services & Fees 2019.
- There does not appear to have been any tampering with or contamination of the samples during collection, shipping, analytical preparation or analysis, consequently the author is satisfied with all results, except Sample item 53, sample number M387957, Table 12, returning 28.375 g/t Au. This sample return is questionable until further sampling analyses are completed from the same float boulder, and other outcrop and boulders in the immediately adjacent area.

13.0 Mineral Processing and Metallurgical Testing

The Property is at an early exploration stage and no metallurgical testing has been carried out.

14.0 Mineral Resource Estimates

There has not been sufficient sampling, diamond drilling, bulk sampling for gold or other minerals other than molybdenum on the Property to undertake a resource calculation.

Items 15 to 22, or sections 15 to 22, are not relevant to this Technical Report, therefore excluded.

23.0 Adjacent Properties

Information on these five gold prospects is sourced from BC Minfiles, company assessment reports, company news releases on web sites and private archives, figures 2, 5. The Surprise Lake Project (Pautler, 2016), Yellowjacket (Minfile 104N043), LD (104N 098), Imperial past producer and Pictou (104N044, Shirley Connolly Archives) are 5 of the most significant prospects adjacent to the Ruby Creek Project.

The 5,000 ha **Surprise Lake Project** NTS map sheets 104N/11 and 12, is centered at a latitude 59°38'N and a longitude of 133° 28'W, approximately 8 Km east of the town of Atlin (figures 2 & 4). The Surprise Lake Project consists of 33 contiguous mineral claims abutting the Ruby Creek Project mineral claims. The Surprise Lake Project is underlain in part by Atlin ophiolitic assemblage rocks and Atlin Accretionary complex rocks, collectively referred to as Cache Creek terrane. The above units have been intruded by tonalite of the Middle Jurassic Fourth of July batholith in the extreme northwest property area, and granite-alaskite of the Surprise Lake

batholith in the extreme northeast property area and possibly related feldspar porphyry dykes. The new deposit type for mineralization observed at the Surprise Lake Project is the orogenic type, (<https://doi.org/10.1016/j.gsf.2018.01.006>).

The Surprise Lake Project area is drained by four major placer streams, Pine, Otter, Wright and Birch Creeks and by the Eagle Creek placer. Otter Creek has been the recent focus of activity in the Atlin placer camp since 2009, with spectacular size gold nuggets of 58 and 62 ounces reported from the Zogas and Godkin placer pits (Aspinall, 2015). The placer gold here is not associated with magnetite, suggesting a different source than the magnetite rich ophiolitic rocks, typically associated with mineralization and explored for within the Atlin camp. Additionally, the gold in the nuggets is intergrown with graphitic argillaceous sedimentary rock consistent with the surrounding bedrock (Mihalynuk et al., 2011). The Surprise Lake Project covers four mineral Minfile occurrences as documented by the British Columbia Geological Survey, three of which host gold-quartz veins. The gold is hosted by quartz vein stockwork and variably pyritic, $\pm$ graphitic argillaceous and pale green phyllite wall rock, proximal to the northerly trending Otter Creek fault.

During 2016 and 2018 insitu gold was reported in bedrock within a placer mine pit in adjacent upper Otter Creek, and during a drilling 2007 drill program visible gold was intercepted by a Blind Creek Resources Ltd. drilling program on lower Otter Creek, approximately 1 km south of Boulder Creek.

In the 2018 case visible gold was reported in a 5 cm quartz vein within the 8 m wide N-S Otter Creek Fault at UTM Location UTM 08v 0591634 E/6605769N, (Aspinall 2018). No assay results were reported to the author. DeCoors Mining Corp., the company who own the subject property, in a recent presentation reported 6 insitu rock samples from different locations including from placer pits ranging from 2.41 g/t to 42.1 g/t Au. In 2007 Blind Creek Resources Ltd drilled the North end of Otter Creek, 08v 0590440 E/6610402 N approximately 1 km South of a Boulder Creek tributary which assayed 5.78 g/t Au over 1.79m, including 11.1 g/t over 0.79 m from a quartz vein with visible gold hosted in mafic to ultramafic sill in DDH BC-07-04, from 164.42 to 166.21m. An intersection of 2.6 g/t Au over 1.0 m also occurs from 108 to 119 m within non-descript chert argillaceous phyllite. True widths cannot be calculated (Pautler 2016).

Exploratory diamond drilling has been slightly more active on adjacent Otter Creek to the south, outside the Property. The significance of the 2018 reported insitu gold discovered in quartz vein on Otter Creek at location UTM 08v 0591634 E/6605769N, (Aspinall, 2018) and the 2007 drilling intercepts on lower Otter Creek at 08v 0590440 E/6610402 (Doherty 2011), on Otter Creek indicates insitu gold is present in a quartz vein system. Both locations are within the N-S Otter Creek Fault system, but located 4.789 km apart with only 2 limited drill holes in between (author).

The **Yellowjacket property** has been known since 1899. The Yellowjacket property is located 9 km east of the community of Atlin and accessible by year-round gravel road (Figure 2 & 5), with access to a new hydroelectric plant 3 km to the west. Recorded recent history of the property is as follows:

- In 1983 Canova Resources Ltd and Tri-Pacific Resources Ltd. optioned the Yellowjacket property from local prospectors and carried out a \$0.54 million diamond drill program, in addition to percussion drilling geophysics (Minfile 104N043).
- In early 1986, Homestake Mineral Development Company optioned the property from Canova Resources Ltd. Between 1986 to 1988 Homestake initiated programs of mapping, reverse circulation and diamond drilling (52 holes totaling 8,057 m). Reportedly, several significant intersections of gold mineralization with value greater than 0.5 oz/t over 3.48-foot widths (Minfile 104N043). At the completion of the Homestake exploration-drilling program, Homestake reported a resource estimate of 453,500 tonnes grading 10.26 g/t Au, (Minfile 104N043). (www.eagleplains.com., Open File 2000-2 page 41).
- No mineral exploration was conducted on the Yellowjacket property between 1989 and 2003, when Muskox Mines Ltd. (name changed to Prize Mining Corp. in 2007) optioned the property. Prize Mining Corp. conducted further diamond drilling between 2003 to 2007 on 49 holes. A number of interesting intersections were intersected as shown in Table 17.

Table 17

Significant Drilling Intercepts at Yellowjacket 2005				
Drill Hole	from M	To M	Width M	F/Au g/t*
YJ03-01	42.98	44.20	1.22	57.41
YJ04-07	53.40	54.45	1.05	221.13

Yj04-21	41.75	42.75	1.0	14.30

*F/Au Fire Assay. After Dandy, (2005)

A qualified person has not done sufficient work to duplicate these historical intercepts as accurate, therefore the issuer must not treat these intercepts as reliable and this intercept table should not be relied upon.

- In 2009 Eagle Plains initially earned a 40% interest in Yellowjacket, but by August 19, 2010 gained a 100% interest to the property, open pit, mill and mining equipment on site. On July 10, 2009 the Yellowjacket Gold Mine received its BC Mines Act Permit for the development of an open pit mine and onsite concentrator processing up to 75,000 tonnes per year (Minfile 104N043).
- In 2016 African Queen Ltd., name changed in 2018 to Desert Mountain Energy, gained title to the property and completed a limited drill program (Desert Mountain Energy website, www.desertmountainenergy.com).
- In 2018 Brixton Metals Corporation purchased an Atlin mineral claim package of which Yellowjacket was part (Brixton Metals Corporation website, www.brixtonmetals.com).

The **LD property** (Minfile 104N 098), consists of 12 claim units and covers a small hill situated east of upper Dominion Creek (Figures 2 & 4), and currently titled to Vancouver's Brixton Metals Corporation, which in 2019 is reported to have diamond drilled the property (www.brixtonmetals.com) author, 2019). Locally, listwanite alteration is present in the surrounding area. There many narrow quartz veins that are reportedly found within or adjacent to a carbonatized and silicified mariposite-rich ultramafic body. Gold mineralization reported by Standard Gold Mines Ltd. during 1983-1984 work included 299.65 g/t gold from a 15 kg bulk sample from a shear structure. In 1984, several short drill holes were drilled over this zone to give a best intersection of 15.30 g/t gold over 0.48 m. The quartz-fill tension gashes are reportedly mineralized and range from 4 centimeters to 90 centimeters in width. Quartz makes up an estimated 95% of the vein gangue, with minor calcite and mariposite. Metallic sulphides present are pyrite with minor chalcopyrite, silver, galena and sphalerite making up less than 1% of the vein. Gold to silver ratios are variable and visible free gold is disseminated throughout the quartz veins, locally in spectacular concentrations.

The **Imperial Mine Property** was staked in 1898, and is situated 7 km NE of Atlin on the south face of Munro Mountain (Figures 2 & 4). In 1900, Nimrod Syndicate miners milled 245 tonnes from the upper level, which yielded 13.7 g/t gold while the lower tunnel produced 23 tonnes ore, which yielded 5.1 g/t gold (Cairnes, 1910). These records testify the Imperial claim as the only “past producer” of hard rock gold in the Atlin mining camp, yet all records continue to show the property has never been drilled. In 1902, a 1,485 kg (3,267 lbs) test sample from the upper tunnel was collected and tested in Vancouver. This sample analyzed 1.2 oz/t Au and 1.26 oz/t Ag. No information is available on the Imperial property from 1902 until 1984, when the Imperial and adjacent properties, were acquired by Lear Oil and Gas. This company contracted out a program of geological mapping, soil sampling, and VLF-EM and magnetometer surveys. The property was then optioned by Homestake Mineral Development Company Ltd. during the 1980’s, who carried out exploration in 1987. In 2000, the author staked the property and continued investigations, allowing it to lapse in 2010, when it was staked by various prospectors until it was purchased by Brixton Metals Corporation in 2018.

The Pictou Property (Minfile 104N044) is located on the west side of Pine Creek, (Figures 2 & 4) about 1 km east of the present-day airstrip and 2 to 3 km northeast of Atlin, and is currently titled to Brixton Metals Corporation. In 1968, Connolly, using a bull dozer with ripper, exposed a vein on either side of the shaft for 60 feet, which he sampled. Three random samples returned 1.4 oz/t, 1.54 oz/t, 1.52 oz/t gold with a high return of silver of 78.3 oz/t.

With Respect to all adjacent properties discussed above this Qualified Person has been unable to verify the information and that information is not necessarily indicative of the mineralization on the Property that is subject of this Technical Report.

24.0 Other Relevant Data and Information

- As of the date of this Technical Report, to the best of the authors knowledge, there are no known environmental liabilities on the Property.
- About 60% the roads and trails shown on Figures 7 and 9, have either been reclaimed or have fallen into disrepair as they have not been maintained from the years 2009-present. The main road to the site (Figures 7 & 9) is useable by 4-wheel drive vehicle.

- No section on AMC drill core sample collection, preparation, analysis is included in this Technical Report, but can be found in Golder Associates Technical Report 2009, and summarized on all Certificates of Analysis included in the appendices of this Technical Report.
- To the author's knowledge, there is no additional information or explanation necessary to make this Technical Report understandable and not misleading.

25.0 Interpretation and Conclusions.

It is concluded the Ruby Creek Project is a project of merit for potential hidden low-grade gold bulk tonnage deposits hosted in alaskite-granite plutonic rocks of the Mount Leonard stock and/or gold in quartz vein orogenic type deposits within Cache Creek terrane rocks.

Primary exploration targets for lode gold near Atlin, northwestern British Columbia, have historically been quartz-carbonate-mariposite altered ('listwanite') ultramafic and mafic bedrocks. These have long been considered the source of nearby placer deposits, and locally do contain fine visible gold. However, despite more than a century of searching, coarse gold such as found in the placer gravels has never been discovered (Mihalynuk, 2016). This has prompted the belief that the 'listwanites' are mere erosional remnants of bedrock sources of the coarse placer gold, and that these sources have been almost entirely lost to erosion. An alternative hypothesis argues that, although gold is found with listwanite, it was not the only bedrock source. Almost all of the Atlin placer streams or their headwaters are underlain by the Surprise Lake batholith or its thermal metamorphic halo (Mihalynuk, 2016). Streams with placer deposits are distributed around the evolved Surprise Lake batholith (Sn-U-Th-Mo-W-F rich) and rare gold nuggets containing Sn- and Th-rich mineral intergrowths (cassiterite and thorite), demonstrating that at least some of the placer gold may be related to the batholith (Mihalynuk and Sack, 2004). Discovery of coarse lode gold (>5 mm) in graphitic and quartz-rich phyllitic bedrock beneath placer deposits along Otter Creek in 2016 (and 2018, author) by the Surprise Lake Project contiguous to the Ruby Creek Project confirms that listwanite-altered mafic and ultramafic rocks are not required for lode gold mineralization. Lode gold discovered along Otter Creek is in weakly metamorphosed sedimentary rocks of the Kedahda Formation, one of the most widespread units in the northern Cache Creek terrane. The Otter Creek discovery unequivocally demonstrates that lode gold mineralization is not restricted to zones in, or

immediately adjacent to, listwanite-altered ultramafic or mafic rocks, significantly expanding areas near Atlin that are prospective for lode gold exploration (Mihalynuk, 2016). These new gold discoveries are within or proximal to the north-south striking Otter Creek fault, by geological deduction this fault extends onto the Ruby Creek Project in Boulder Creek. Birch Creek and Ruby Creek, both within the Project area are deemed to have similar faults following their channels (author, 2019).

The Property is drained by 5 historic placer creeks, Ruby, Boulder, Cracker, Birch and Horse Creeks. In recent times these creeks have been worked on an off-and-on basis as small one man to 10 men operations. The Property is host to 11 Minfile showings which host gold or include gold and 20 Minfile showings that do not host gold, but polymetallic minerals. A total of 30 soil samples collected across the Property in 2017 season are deemed by the author as anomalous. A total of 53 rock samples from either bedrock or float sampled across the Property during the same season are deemed by the author as anomalous.

The unencumbered 26,734.74 ha Property includes the valid permitted mine lease of the Adanac Moly property, (Adanac porphyry molybdenum deposit) with historical tonnage/grade for Measured, Indicated and cut off calculated at: 275,354,000 tonnes at 0.067 Mo % giving 407,911,000 lbs Mo at a 0.04% cut-off (Golder Associates, 2009).

Stuhini Exploration Ltd. is not seeking additional molybdenum targets on the Property at this time, but what is of interest are the 339 diamond drill holes completed on the Property during 1972-2009, and a total of 128 diamond drill holes (38,460.2 m of core) that are presently available in storage at Global Drilling's Atlin facilities. During 2016, research of data and Adanac core by Global Drilling noted several AMC diamond drill hole cores were host to trace analytical gold over significant metres, the most interesting section reported at a mean grade of 0.327 ppm Au over 24.4 m., and include significant silver at (approximated) mean of 87.5 ppm Ag. Exploratory diamond drilling by Global Drilling in 2016 and 2017 found comparable grades over small drill sections, viz; over 1.53 metre section with mean grades of 2.249 ppm Au and 758 ppm Ag.

The Mount Leonard stock plutonic rocks are collectively named alaskite-granites by the author and others. These rocks and derivatives, depending

on location, may exhibit high background contents of gold and silver, 0.1 ppm and higher (Certificates of Analysis, appendices 2, 3, 4, & 5).

The core available at Global Drilling's Atlin Facility for relogging and multi element analytical testing for gold (including silver), and all other work completed by AMC and others dating back to 1972 provides a tremendous exploration and cost savings advantage to re-evaluate the Mount Leonard stock for a potential low-grade gold bulk tonnage deposit.

It is reported by GDS there are no underlying royalties, back-in rights, payments, or other agreements to which the Property is subject apart from those in the Stuhini Option agreement which include a 1% NSR.

GDS advised the author there is a current non-expiring Mines Act Permit (M-231) for the Adanac Moly Deposit area including the mining lease (555153) within the Project area, and a five-year Notice of Work, (NOW) Permit MX-1-595 for surface drilling over the mineral tenures which expires on 31st March 2022. There is a reported security reclamation bond associated with the Mines Act Permit put in place by GDS with the Province of BC.

One of the challenges in prospecting the Property creeks is that thick glacial-fluvial glacial gravel cover is present over these creeks. In the case of adjacent Otter Creek, overlying glacial debris is up to 30 m thick (author). At Ruby Creek, 30 m thick Quaternary basalts in addition to 10 m of glacial gravels cover the creek (author). Although aggressive placer miners have completed pits to bedrock in all above listed creeks, these pits are only temporary and often reclaimed by the end of the season, or left until next season, but fill up with run-off water by the late Fall.

The Company is fortunate because active mining in 2018 and 2019 was only taking place on lower Boulder Creek, leaving Ruby, Cracker and Birch Creek channels free to explore for indications of orogenic gold veins, and it is predicted this will be the case in 2020 and 2021. Where active mining is taking place prospecting placer mine pits requires the permission of the placer miners, and if given only allows for a few hours of prospecting.

A second challenge is out of the total 353 drill holes completed on the Property and analyzed primarily for molybdenum, it is estimated only 105 drill holes were analyzed for multi-elements, including gold. These 105 drill holes consisting of primarily alaskite-granite rock were reviewed for gold by Global

Drilling in 2016, and 4 drill holes were noted to host analytical gold and silver with ranges as follows; 0.4 ppm Au , and 50.3 ppm Ag over 3.05 m, 0.214 ppm Au and 0.11 ppm Ag over 21.35 m, 0.238 ppm Au and 0.38 ppm Ag over 39.65 m, 0.327 ppm Au and 87.5 ppm Ag (approximated) over 24.4 m.

This means 246 drill hole cores, (353 minus 105) provide no multi-element analysis. Building a deposit model for trace gold will mean re-sampling sections of up to 246 drill hole cores which the author believes may host gold.

A third challenge is that future extraction technology and gold prices may not allow a bulk tonnage gold deposit to be economic at grades of 0.3 g/t to 4 g/t even given sufficient tonnage, if higher grades than those already identified are not located. Having said that, will economic gold grades for bulk tonnage be near enough to the surface for open pit extraction, if not would block caving be economic.

As well as many other challenges, a corporate licence to explore and mine would be paramount with local stake holders, especially First Nations.

During exploration 2002-2016, AMC had very good relations with Taku River Tlingit First Nation, the traditional peoples of the region. To the best of the authors knowledge, Mr. Barry Hanslit, owner of GDS and Zinex Mining has continued this good relationship, but the author is not aware of any agreements in place

Exploration and mining ventures are high risk, but on the positive side regionally the Ruby Creek Project is located within the Atlin placer gold camp, which ranks as the second largest producer of placer gold in the province (Ash, 2001). The Property has 353 drill holes to work with amounting to a tremendous cost saving. The Property is located by road 24 km from Atlin, has an abundance of water and potential for hydro-electric supply 24 km distance from the Property. The Property is road accessible to the exploration and mining community of Atlin and Whitehorse, Yukon Territory. Whitehorse provides many advantages such as scheduled daily airline connections to Vancouver and other Canadian cities, modern housing facilities, hotels, skilled and unskilled labor, hardware and equipment maintenance and service facilities and super markets.

26.0 Recommendations, Budget, Signature Page

The following is recommended as follow-up exploration for a Stage 1 in 2020 and a Stage 2 in 2021 on the Property.

Stage 1

- 1) Follow-up investigation on all AMC drill core data, re-log and re-sample selected diamond drill hole cores stored at Global Drilling's Atlin storage facility. For instance, rocks and derivatives of the alaskite-granite within Mount Leonard stock, depending on location exhibit high background contents of gold and silver, 0.1 ppm and above (Tables 6, 7, 8, 9, 12, 13 & 14 and analytical certificates, Appendices 2, 3, 4 & 5).
- 2) Prospect and sample soils and rocks adjacent zone NW of Adera fault. Including track and sample rocks along contact between Fourth of July and Mount Leonard stock.
- 3) Build up data base on Atlin Ruffner Silver Mines and investigate potential faulting and diking extending eastward to beyond Molly Lake.
- 4) Carry out soil, rock sampling interface horizons between Ultramafic roof pendants (Atlin Ophiolitic assemblage), and underlying Cache Creek rocks (Atlin Accretionary complex) for listwanite alteration and gold in associated orogenic quartz veins.
- 5) Investigate by rock sampling potential faulting following Boulder, Ruby and Birch Creeks.
- 6) Build geological model based on data compiled in sections 1) to 5) for an exploration drilling program for Stage 2.

Stage 2

- 1) 4000 m drill program based on selected geological model targets. It is also highly recommended the Taku River Tlingit First Nation be kept informed of all stages of Ruby Creek Project, and included independently on environmental studies.

26.2 Budget

Based on the above recommendations, the following contingent two stage exploration program with corresponding budget is proposed. Stage 2 is entirely contingent on results from Stage 1.

Table 18

Budget Stage #1 for 2020 Exploration Program Ruby Creek Project	
Work**	Total \$
Review AMC Drill data and rock types hosting Au	20,000
Re-log and re-sample selected AMC drill cores	20,000
Sampling areas adjacent to and NW Adera Fault	40,000
Investigate geology around Atlin Ruffner Silver Mines	40,000
Extend investigates above to Molly Lake & eastwards	40,000
Sample and investigate interfaces U/M* and Cache Creek Rocks	20,000
Investigate potential faulting along Boulder, Ruby, Birch Creeks	20,000
Build geological model of Ruby Creek Project	50,000
Total	250,000

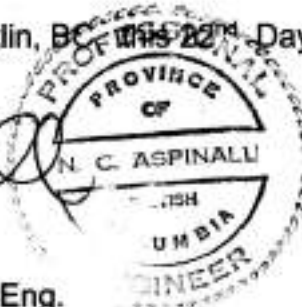
* Ultramafic rocks., ** Includes analytical, travel, lodging.

Table 19

Budget Stage #2 for 2021 Exploration Program Ruby Creek Project	
Work	Total \$
4000 metres core drilling to test geological model targets	400,000
Core	
Boxes	10,000
Analytical	15000
Geological support, including room and board, travel	50,000
Compilation of data, reporting	25,000
	500,000

26.3 Signature Page

This Technical Report dated in Atlin, BC, this 22nd Day of October 2019
"signed and Sealed"



Nicholas Clive Aspinall, M.Sc., P.Eng.

Geologist

(APEGBC Name: N.C. Aspinall: Licence #12783, ID 106377).

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1048718, 1048719, 1048720, 1049324, 1050721, 1049359, 1050983, 1051047 NTS Sheet 104N/11 104N/12 104N/14 (approximate centre of claim: 59° 42' N / 133° 24' W).

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Appendix 1

Figure 1: Property Location Map

Figure 2: Mineral Claims Area Overview

Figure 3: Mineral Claim Detail

Figure 4: Regional Geology Overview

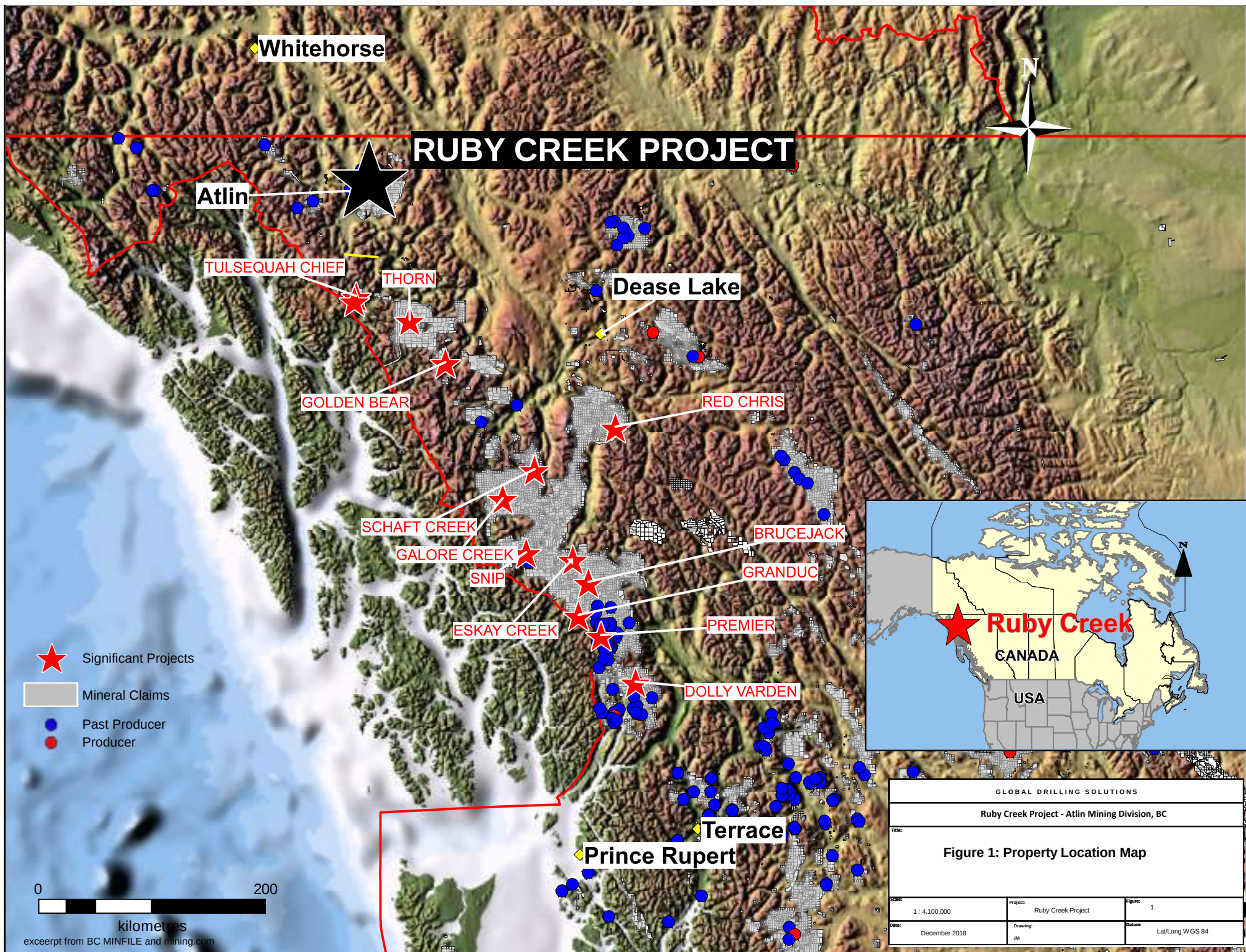
Figure 5: Regional Geology Legend to Accompany Figure 4

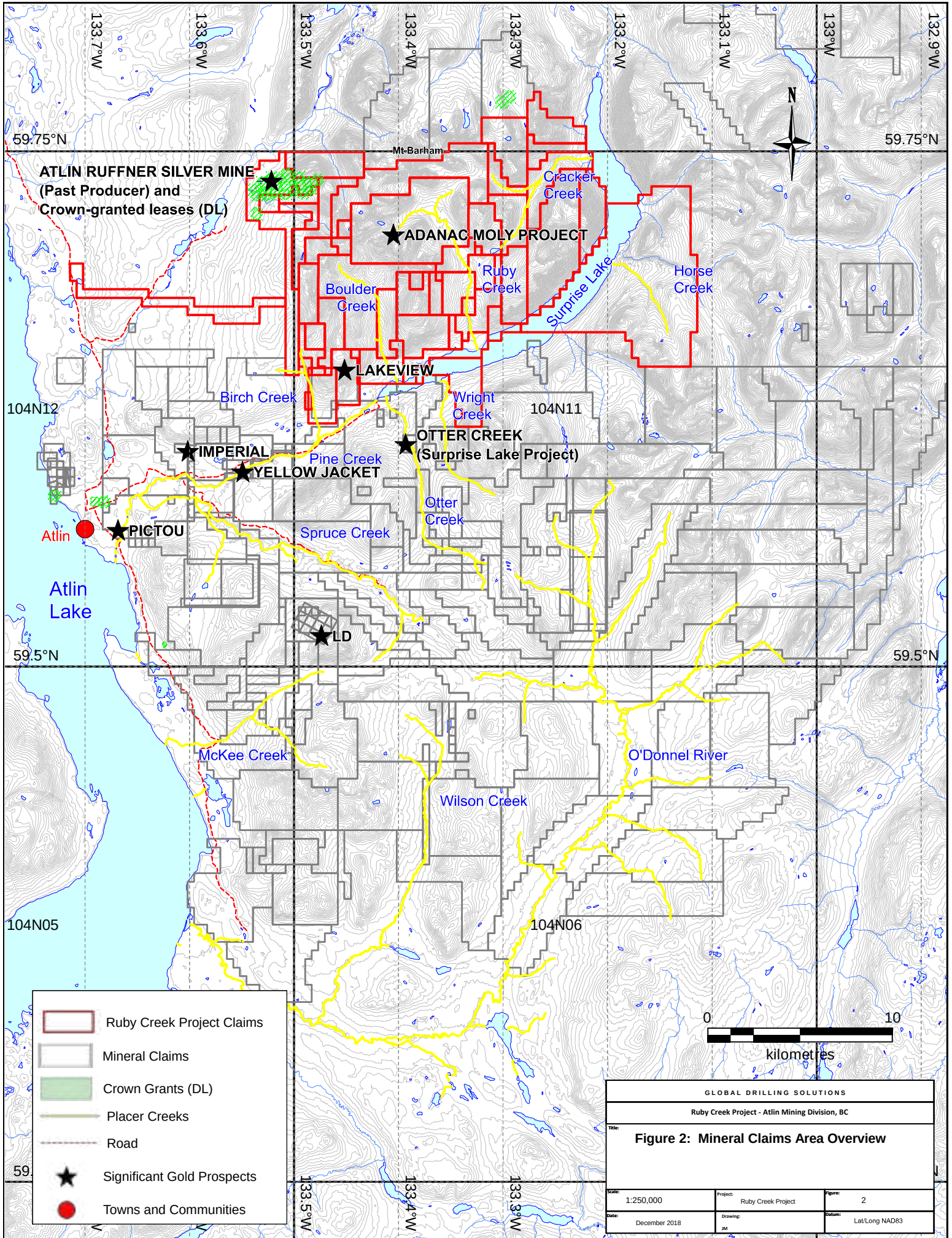
Figure 6: Minfile Occurrences

Figure 7; Drill Hole Locations Anomalous Gold Analyses

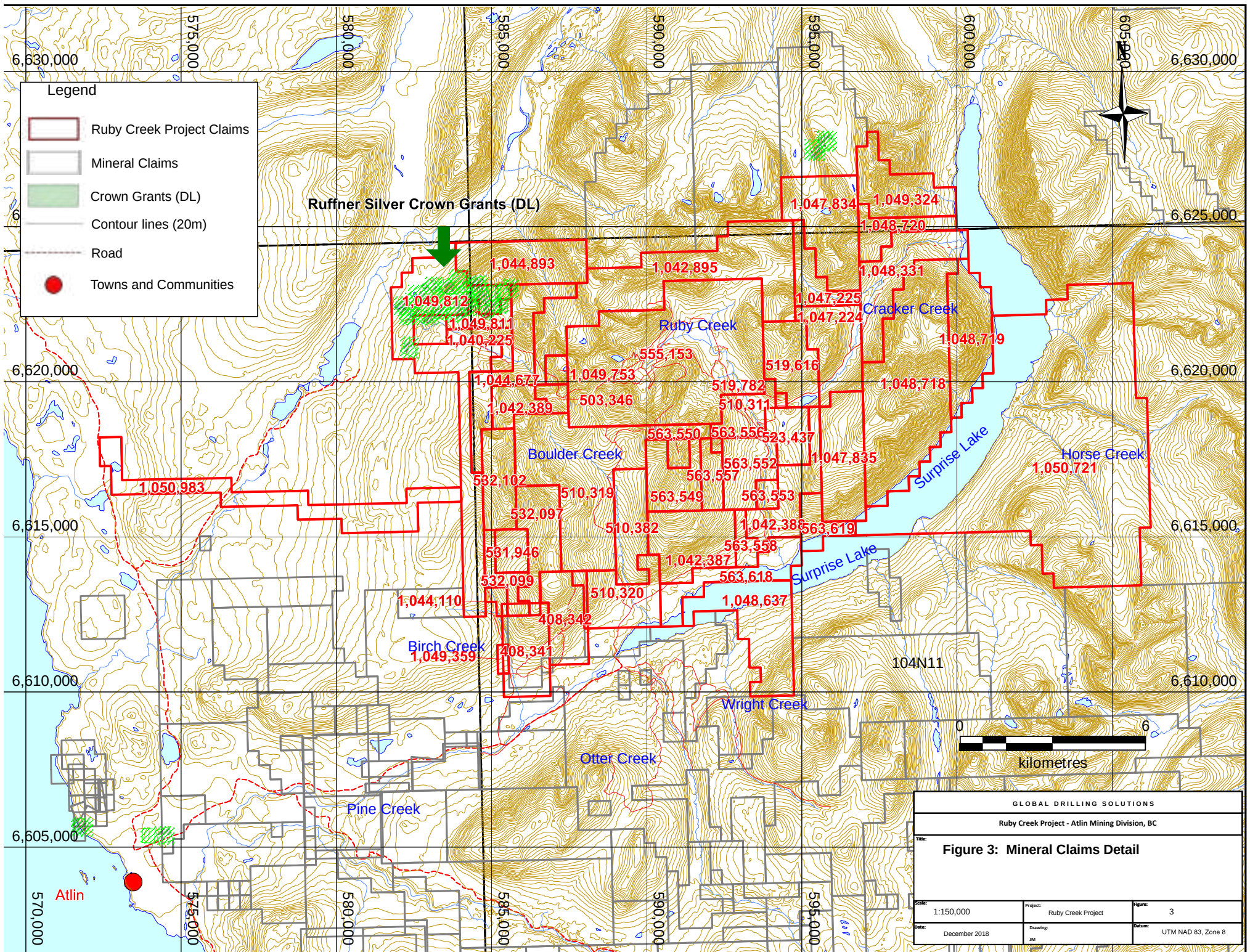
Figure 8: Rock Samples Anomalous Gold Rocks 2016-2018

Figure 9: Soil Samples Anomalous Gold 2016-2017





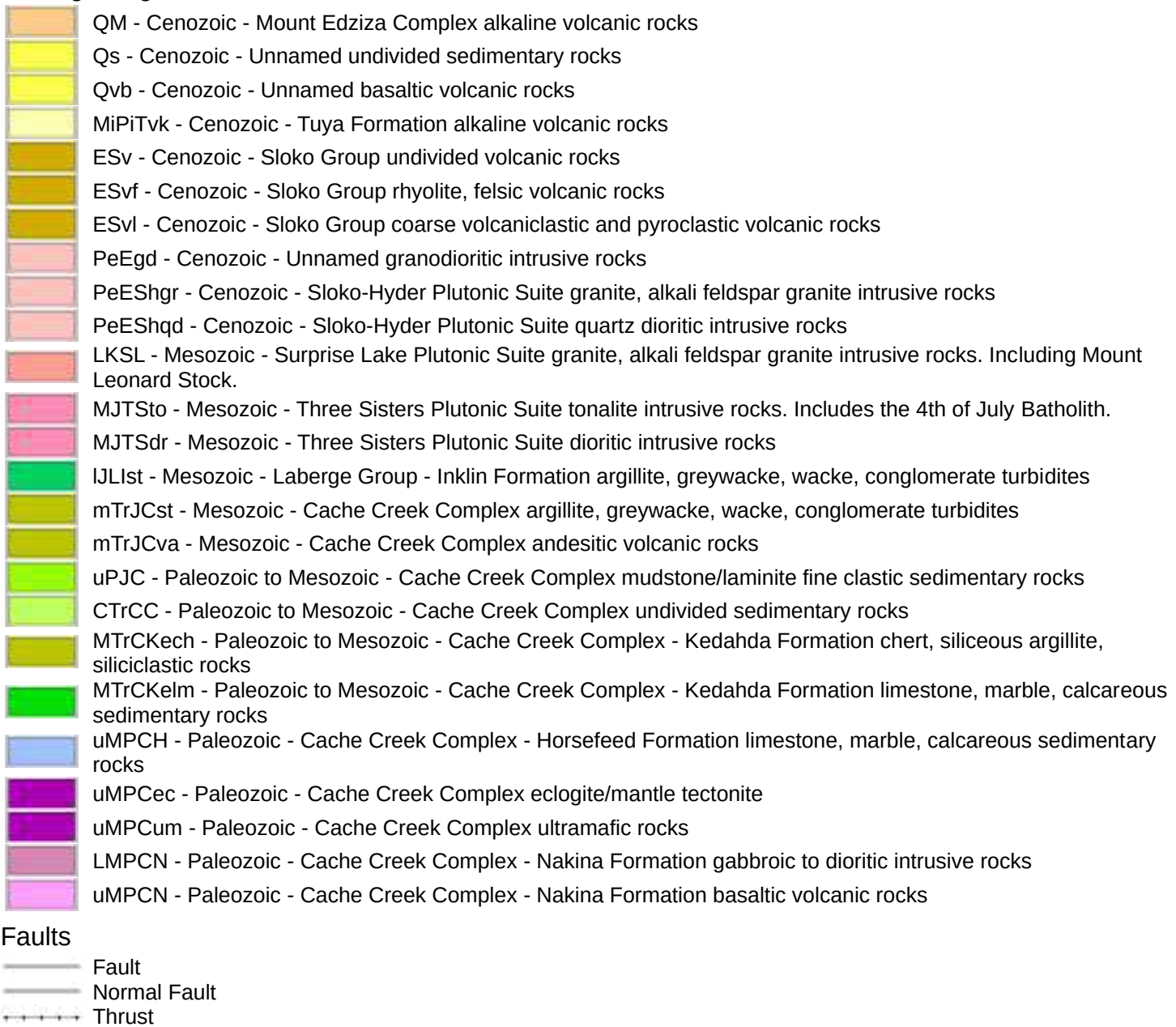
GLOBAL DRILLING SOLUTIONS		
Ruby Creek Project - Atlin Mining Division, BC		
Title: Figure 2: Mineral Claims Area Overview		
Scale: 1:250,000	Project: Ruby Creek Project	Figure: 2
Date: December 2018	Drawing: JM	Datum: Lat/Long NAD83



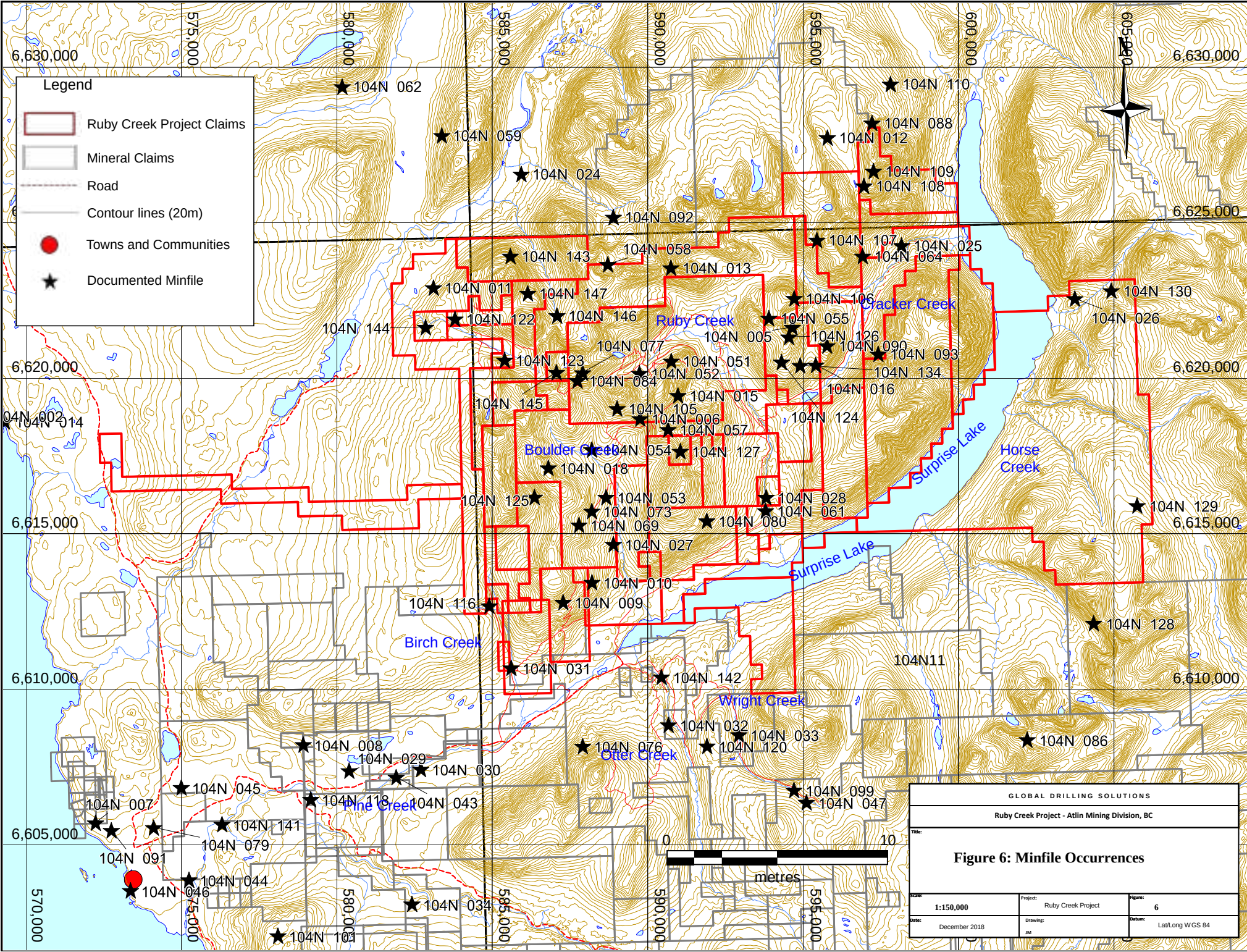
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Title: Figure 3: Mineral Claims Detail		
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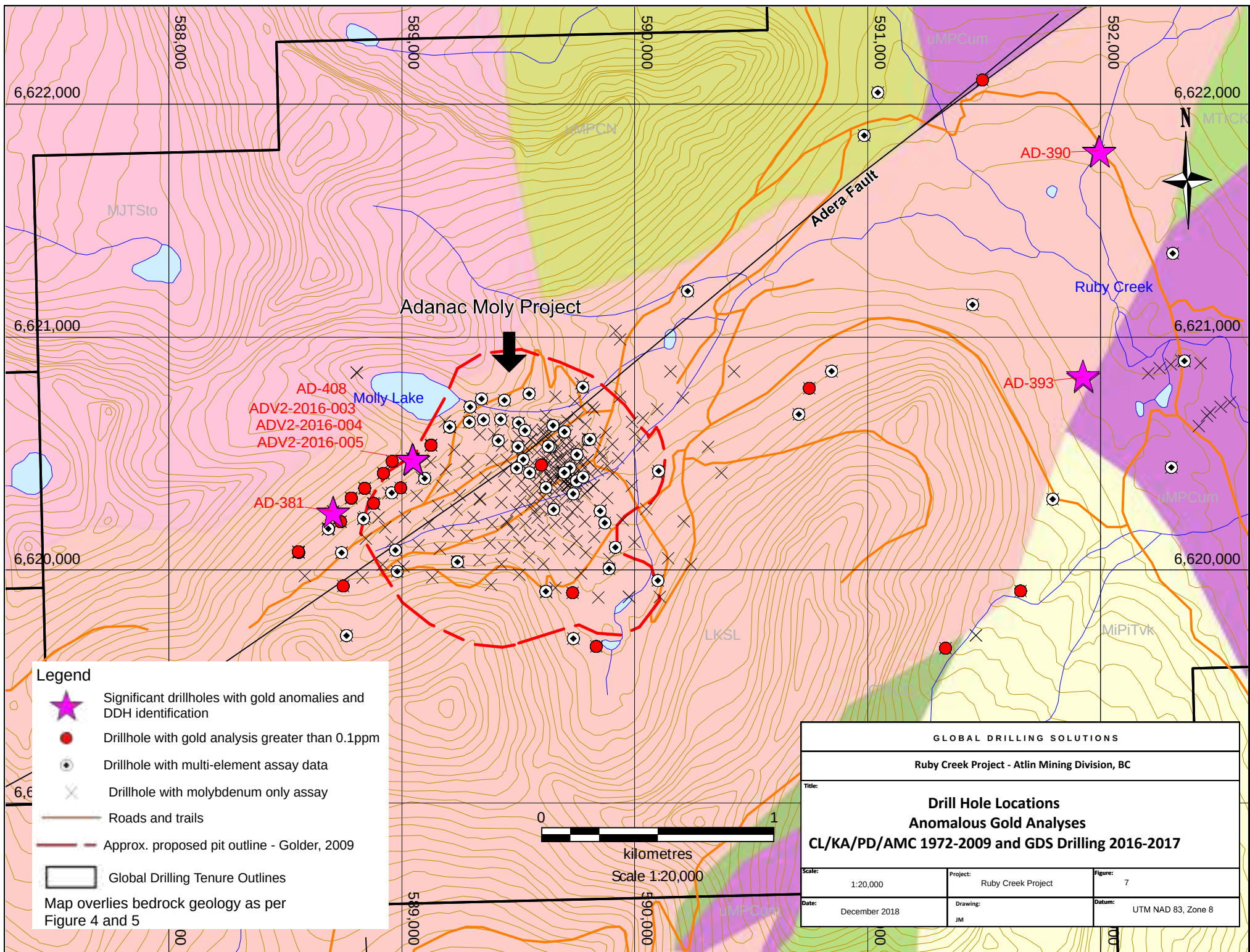
Figure 4: Atlin Geology Overview

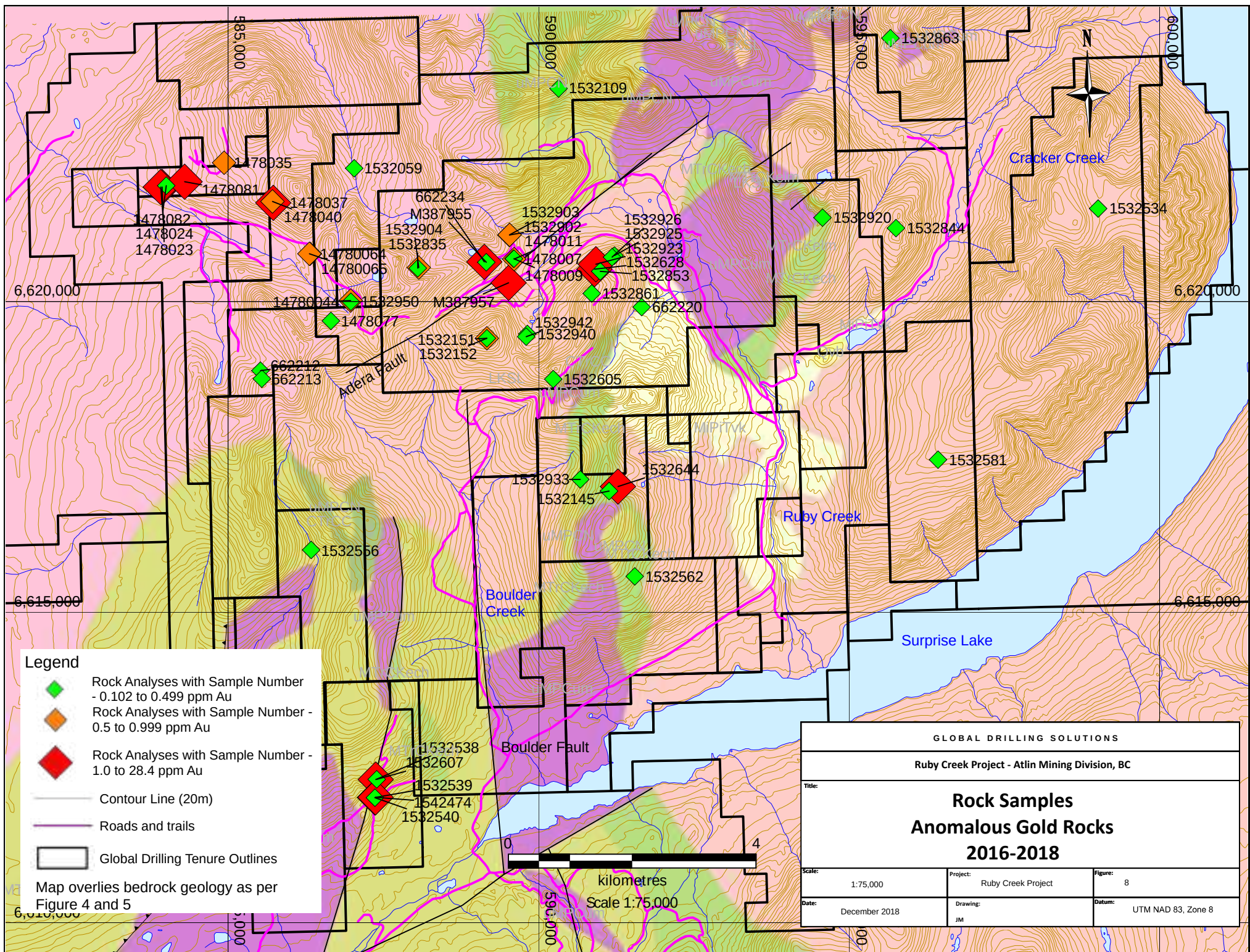
Geologic Legend

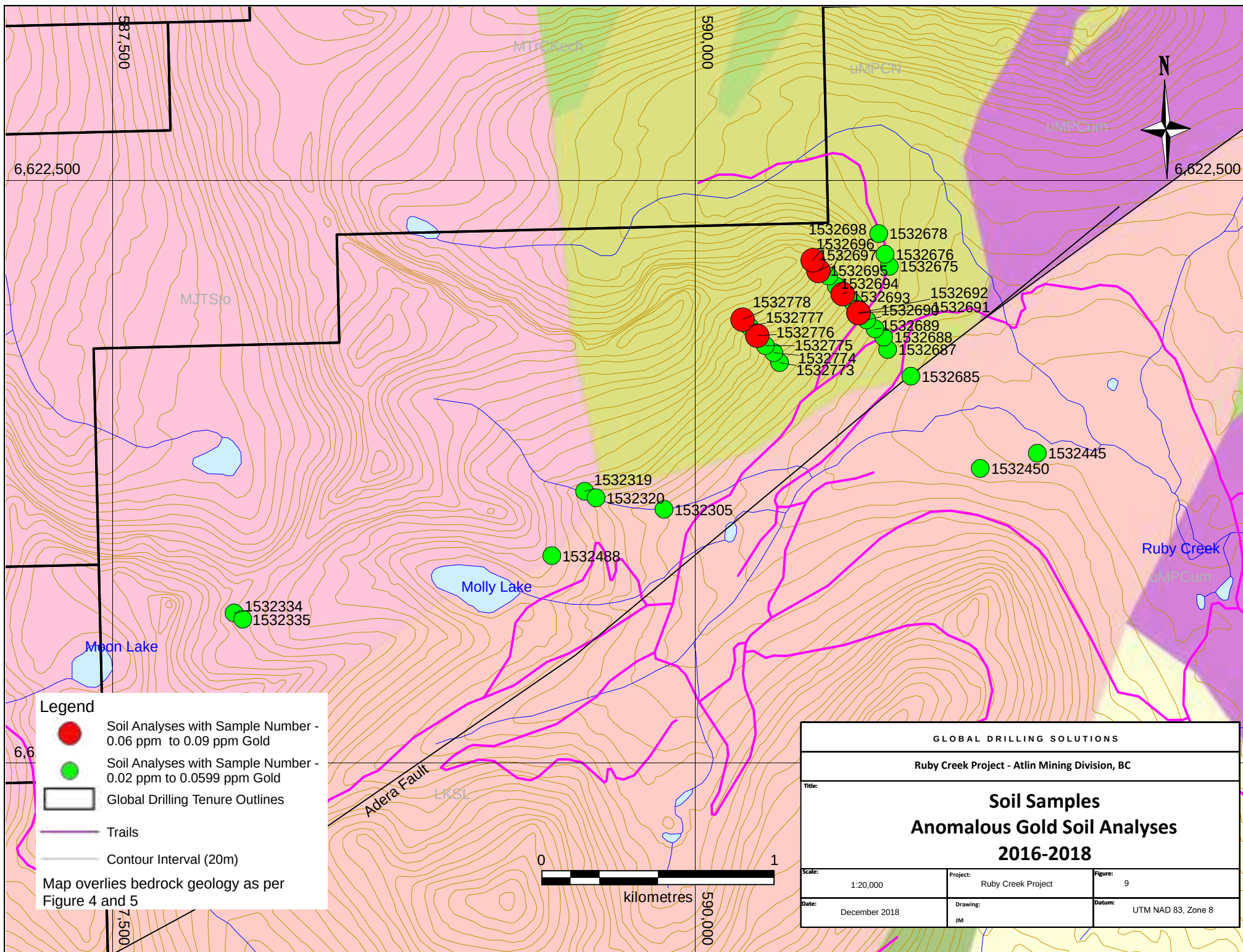


GLOBAL DRILLING SOLUTIONS		
Ruby Creek Project - Atlin Mining Division, BC		
Title: Figure 5: Regional Geology Legend to accompany Figure 4		
Scale: N/A	Project: Ruby Creek Project	Figure: 5
Date: December 2018	Drawing: JM	Datum: Lat/Long NAD83









Appendix 2

4 AMC DDH's., Certificates of Analysis.

DDH 381, Certificate of Analysis VAN08004976.3

DDH 390, Certificate of Analysis VAN08004975.1

DDH 393, Certificate of Analysis VAN08005655.2

DDH 408, Certificate of Analysis VAN08008888.2

Client: **Adanac Molybdenum Corporation**

#200, 2055 - 152nd Street
Surrey BC V4A 4N7 Canada

Submitted By: Ruby Creek Mine -Email Distribution List
Receiving Lab: Canada-Vancouver
Received: March 31, 2008
Report Date: October 11, 2008
Page: 1 of 6

CERTIFICATE OF ANALYSIS

VAN08004976.3

CLIENT JOB INFORMATION

Project: Ruby Creek Mine
Shipment ID: 8030381
P.O. Number
Number of Samples: 140

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT Store After 90 days Invoice for Storage

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Adanac Molybdenum Corporation
#200, 2055 - 152nd Street
Surrey BC V4A 4N7
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
R150	132	Crush, split and pulverize rock to 150 mesh		
1EX	140	4 Acid digestion ICP-MS analysis	0.25	Completed
7TD	1	4 Acid digestion ICP-ES analysis.	0.5	Completed
Mo/Ox	20	Mo in oxide form, 30% HCL leach	1	Completed

ADDITIONAL COMMENTS

Version 3: Group 8 Mo/Ox included



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.

CERTIFICATE OF ANALYSIS

VAN08004976.3

	Method	WGHT	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
649267	Rock	0.58	125.9	17.1	15.2	40	0.3	1.4	1.1	145	1.31	19	14.2	<0.1	38.5	75	0.1	2.5	0.5	8	0.38
649268	Rock	0.66	30.0	5.4	16.4	32	<0.1	2.5	2.0	219	1.31	2	8.6	0.1	31.7	87	<0.1	0.3	0.2	11	0.71
649269	Rock	0.64	121.0	7.4	18.5	18	<0.1	1.7	0.7	75	0.81	3	17.5	<0.1	40.3	37	<0.1	0.7	0.2	<1	0.44
649270	Rock	0.69	396.9	4.9	17.3	14	<0.1	1.4	0.5	61	0.55	5	16.2	0.1	38.3	33	<0.1	0.6	0.4	5	0.42
649271	Rock	0.60	108.2	5.2	19.2	23	<0.1	2.9	0.7	94	0.77	5	18.5	0.1	41.0	42	0.1	0.4	0.3	4	0.40
649272	Rock Pulp	<0.01	378.8	1589	51.5	99	26.9	5.2	11.4	755	2.32	202	1.4	0.2	1.2	599	0.4	76.0	7.7	41	2.60
649273	Rock	0.60	85.3	5.7	17.9	23	<0.1	2.4	0.7	88	0.60	9	15.4	0.1	33.5	40	0.2	0.9	0.2	5	0.54
649274	Rock	0.74	86.4	4.7	20.9	35	<0.1	2.2	0.8	152	0.68	15	14.5	0.1	35.6	33	<0.1	1.0	0.2	2	0.38
649275	Rock	0.74	44.2	6.2	21.1	34	<0.1	2.3	0.7	151	0.81	9	14.2	0.1	35.0	38	<0.1	0.6	0.2	2	0.45
649276	Rock	0.89	57.6	3.3	22.1	32	<0.1	1.6	0.7	144	0.87	9	10.1	0.1	39.1	34	<0.1	0.7	0.5	3	0.37
649277	Rock	0.60	112.6	2.9	28.8	38	0.1	1.9	1.0	198	0.97	4	11.4	0.1	44.9	34	<0.1	0.7	0.2	2	0.42
649278	Sand	0.59	1.1	1.2	3.6	3	<0.1	2.5	0.3	33	0.27	1	0.7	<0.1	2.6	11	<0.1	<0.1	<0.1	2	0.01
649279	Rock	0.91	72.3	4.8	21.8	35	0.1	1.6	0.6	146	0.86	4	12.7	<0.1	39.5	34	<0.1	0.7	0.1	2	0.38
649280	Rock	0.65	56.3	3.4	36.5	33	0.1	2.1	0.6	142	0.94	5	11.3	<0.1	36.6	32	<0.1	2.1	0.2	2	0.39
649281	Rock	1.00	65.9	4.5	21.5	32	<0.1	1.9	0.6	150	0.85	3	18.4	0.1	44.7	30	<0.1	0.4	0.7	2	0.37
649282	Rock	0.84	44.4	2.3	22.7	25	<0.1	2.3	0.7	121	0.77	2	10.8	0.1	30.3	41	<0.1	0.2	<0.1	<1	0.38
649283	Rock	0.71	60.8	4.3	19.2	30	<0.1	1.6	0.6	128	0.81	3	12.1	<0.1	37.9	32	<0.1	0.3	<0.1	1	0.38
649284	Rock Pulp	<0.01	1028	8072	260.3	124	108.9	3.4	2.5	189	1.49	56	0.8	<0.1	0.8	174	0.9	252.5	10.5	29	0.60
649285	Rock	0.80	60.6	12.2	20.3	32	0.2	3.6	0.9	133	0.97	3	15.6	<0.1	38.1	37	<0.1	0.9	0.3	2	0.44
649286	Rock	0.66	105.4	4.3	19.5	33	<0.1	1.7	0.7	184	0.89	8	12.0	<0.1	38.5	37	0.3	1.0	0.3	1	0.38
649287	Rock	0.91	1974	6.9	21.5	29	0.2	2.6	0.9	143	0.93	7	20.0	0.1	38.3	36	<0.1	1.2	0.4	2	0.40
649288	Rock	0.69	152.2	8.0	23.2	22	1.6	1.8	0.8	138	0.81	4	19.3	0.1	41.5	36	<0.1	0.7	0.2	3	0.43
649289	Rock	0.96	14.7	5.5	26.8	29	<0.1	1.4	0.9	135	0.84	5	35.0	0.1	47.2	29	<0.1	1.1	0.1	4	0.43
649290	Rock	0.81	12.5	6.9	25.2	28	0.1	1.5	0.9	126	0.80	3	31.4	0.1	46.9	30	0.1	1.0	<0.1	4	0.38
649291	Rock	0.63	23.7	3.1	24.5	27	<0.1	2.2	0.7	175	0.88	3	24.6	0.1	43.3	32	0.1	0.8	0.2	5	0.40
649292	Rock	0.86	60.2	3.2	24.1	27	0.1	1.7	0.7	160	0.85	4	19.8	0.1	44.3	28	<0.1	0.7	0.1	<1	0.42
649293	Rock	0.67	268.0	7.8	23.6	19	0.2	1.3	0.6	170	0.71	4	20.6	0.1	47.4	30	<0.1	0.9	1.0	4	0.42
649294	Rock	0.95	3128	5.3	24.3	20	0.1	1.8	0.9	157	0.81	3	19.0	0.1	43.6	34	<0.1	0.7	5.0	<1	0.71
649295	Rock	0.70	92.4	2.8	24.1	28	<0.1	1.9	0.8	163	0.88	3	18.2	0.1	46.1	30	<0.1	1.0	0.2	2	0.53
649296	Sand	0.60	5.4	1.9	3.7	2	<0.1	2.6	0.3	43	0.29	<1	0.9	<0.1	2.5	12	<0.1	<0.1	<0.1	1	0.02

CERTIFICATE OF ANALYSIS

VAN08004976.3

	Method	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
649267	Rock	0.016	46.4	5	0.16	929	0.115	6.75	2.172	3.65	18.1	59.6	78	5.9	37.7	20.3	2.0	6	3	34.5	<0.1
649268	Rock	0.023	53.2	5	0.21	822	0.137	6.28	2.011	3.83	5.2	69.0	87	3.8	46.4	21.4	2.4	6	3	46.7	<0.1
649269	Rock	0.008	39.6	3	0.07	370	0.058	5.86	2.022	3.73	5.2	67.3	75	3.0	58.7	22.9	2.5	6	1	27.0	<0.1
649270	Rock	0.004	36.5	3	0.03	272	0.047	6.04	2.140	3.58	4.4	58.9	70	2.3	60.3	21.7	2.7	6	1	16.8	<0.1
649271	Rock	0.006	46.3	5	0.04	401	0.058	6.20	2.207	3.85	8.1	62.7	88	2.9	60.1	23.4	3.0	6	2	25.2	<0.1
649272	Rock Pulp	0.048	10.4	12	0.40	783	0.121	7.20	2.197	2.15	5.0	9.6	18	1.1	6.2	1.3	<0.1	<1	3	11.3	0.4
649273	Rock	0.006	45.6	4	0.04	396	0.050	6.05	2.131	3.61	11.9	56.6	88	2.2	53.7	20.0	3.2	6	1	17.7	<0.1
649274	Rock	0.005	46.7	4	0.06	369	0.050	6.16	1.870	3.81	5.1	63.4	85	2.7	55.0	18.2	3.1	7	1	28.3	<0.1
649275	Rock	0.005	50.2	5	0.06	374	0.055	6.08	2.189	3.40	5.4	57.1	95	2.7	64.9	20.7	3.1	6	1	30.2	<0.1
649276	Rock	0.006	50.1	4	0.07	335	0.062	6.24	2.083	3.87	2.8	61.0	93	3.5	60.2	19.8	3.5	6	1	29.2	<0.1
649277	Rock	0.007	53.4	4	0.09	373	0.071	6.48	1.902	3.84	3.5	66.8	109	2.9	67.7	21.2	2.8	5	2	34.3	<0.1
649278	Sand	0.001	5.2	4	<0.01	138	0.012	0.63	0.128	0.58	0.2	35.6	10	0.3	6.8	2.0	<0.1	<1	<1	4.3	<0.1
649279	Rock	0.005	54.0	4	0.07	377	0.061	6.26	2.042	3.95	3.9	60.7	100	3.6	56.5	19.0	2.3	5	1	30.7	<0.1
649280	Rock	0.005	51.8	4	0.06	311	0.064	6.17	2.117	3.91	6.3	57.4	100	3.0	63.0	21.2	2.2	6	1	33.9	<0.1
649281	Rock	0.005	47.0	4	0.05	286	0.058	5.74	2.038	3.57	2.7	62.2	88	2.2	66.8	24.2	2.4	5	1	33.4	<0.1
649282	Rock	0.005	41.6	5	0.06	430	0.051	6.55	2.310	4.27	2.9	53.3	77	2.0	61.5	19.6	2.6	5	1	26.7	<0.1
649283	Rock	0.005	47.8	4	0.07	341	0.062	5.97	1.955	3.79	47.6	48.2	89	1.9	51.4	19.1	2.1	5	1	24.5	<0.1
649284	Rock Pulp	0.013	4.3	14	0.13	293	0.037	2.82	0.420	1.35	1.7	6.4	8	1.6	2.2	1.2	<0.1	<1	<1	7.1	0.6
649285	Rock	0.005	50.1	6	0.06	344	0.062	6.24	2.346	3.71	4.2	61.0	94	2.3	60.4	17.6	2.1	8	1	30.5	<0.1
649286	Rock	0.006	48.3	3	0.09	421	0.063	6.36	1.897	3.95	4.4	69.8	92	2.5	56.4	18.3	2.2	5	1	29.1	<0.1
649287	Rock	0.006	52.6	6	0.09	398	0.066	6.21	1.867	4.17	3.7	61.9	101	2.8	59.6	23.0	2.8	5	2	31.2	0.1
649288	Rock	0.005	48.1	5	0.05	343	0.056	6.33	2.395	4.09	143.0	62.7	94	2.6	70.7	21.1	2.5	6	1	28.0	<0.1
649289	Rock	0.005	44.7	4	0.06	306	0.051	6.49	2.298	4.13	4.5	54.9	88	3.8	77.5	25.4	3.6	6	1	36.6	<0.1
649290	Rock	0.004	42.8	3	0.05	316	0.053	6.33	2.266	3.95	9.1	53.5	82	4.2	74.7	24.6	3.4	5	1	33.3	<0.1
649291	Rock	0.004	47.7	5	0.09	342	0.057	6.38	2.182	3.88	3.2	61.5	95	7.7	73.4	22.0	3.3	7	1	32.1	<0.1
649292	Rock	0.004	43.9	4	0.05	239	0.053	6.18	2.439	3.85	5.0	60.6	87	4.5	76.0	24.3	3.4	8	1	44.7	<0.1
649293	Rock	0.003	36.6	4	0.04	297	0.048	6.13	2.185	3.74	56.6	58.3	72	2.4	71.7	24.2	3.6	9	1	25.8	<0.1
649294	Rock	0.005	44.3	6	0.06	324	0.053	6.37	2.300	3.85	10.2	58.8	87	3.4	86.9	25.1	3.4	9	1	29.7	0.3
649295	Rock	0.005	45.9	3	0.08	281	0.054	6.31	2.004	4.20	15.5	52.7	89	5.0	76.8	25.7	3.2	8	1	37.4	<0.1
649296	Sand	0.001	5.4	5	<0.01	149	0.018	0.67	0.133	0.65	0.2	37.2	12	0.6	7.5	1.7	<0.1	<1	<1	3.9	<0.1

CERTIFICATE OF ANALYSIS

VAN08004976.3

	Method Analyte Unit MDL	WGHT Wgt kg 0.01	1EX Mo ppm 0.1	1EX Cu ppm 0.1	1EX Pb ppm 0.1	1EX Zn ppm 1	1EX Ag ppm 0.1	1EX Ni ppm 0.1	1EX Co ppm 0.2	1EX Mn ppm 1	1EX Fe % 0.01	1EX As ppm 1	1EX U ppm 0.1	1EX Au ppm 0.1	1EX Th ppm 0.1	1EX Sr ppm 1	1EX Cd ppm 0.1	1EX Sb ppm 0.1	1EX Bi ppm 0.1	1EX V ppm 1	1EX Ca % 0.01
649297	Rock	1.05	5.8	4.2	24.2	25	<0.1	2.0	0.7	123	0.87	4	20.7	0.1	41.9	34	<0.1	1.0	<0.1	<1	0.40
649298	Rock	0.68	124.8	5.8	23.8	25	<0.1	2.0	0.8	151	0.96	4	26.0	0.1	52.1	33	<0.1	1.3	0.3	4	0.51
649299	Rock	0.98	1002	13.9	24.4	19	<0.1	1.9	0.7	135	0.78	5	26.8	0.1	51.8	36	<0.1	0.9	0.2	1	0.56
649300	Rock	0.76	44.2	5.8	24.1	33	0.1	2.3	0.7	168	1.03	4	23.6	0.1	54.7	35	0.1	0.7	0.2	4	0.55
649301	Rock	1.01	17.4	8.5	27.2	27	0.2	1.8	0.8	126	0.85	5	24.2	0.1	48.2	27	<0.1	1.0	0.4	<1	0.39
649302	Rock Pulp	<0.01	450.2	5563	8.0	53	2.1	2.3	2.2	433	1.03	7	0.9	<0.1	0.7	504	0.9	9.0	0.9	61	2.38
649303	Rock	0.74	24.6	7.4	23.9	25	0.2	1.2	0.7	131	0.88	5	19.7	<0.1	44.0	27	<0.1	1.0	0.3	<1	0.40
649304	Rock	0.78	90.7	7.9	22.4	23	<0.1	1.5	0.9	151	0.88	4	20.0	<0.1	42.5	36	0.2	0.7	0.7	5	0.55
649305	Rock	0.56	284.4	4.6	23.1	29	0.2	2.4	0.7	150	0.90	2	18.1	<0.1	45.5	31	0.4	0.7	0.4	<1	0.36
649306	Rock	0.73	127.9	3.7	25.4	28	0.3	1.1	0.5	116	0.80	2	22.8	<0.1	52.6	17	0.2	0.6	0.2	<1	0.35
649307	Rock	0.69	146.0	3.5	27.1	25	0.2	3.1	0.7	129	0.85	2	22.2	<0.1	50.4	20	<0.1	0.4	0.3	<1	0.39
649308	Rock	0.52	103.3	3.7	27.7	26	0.2	1.9	0.7	137	0.86	2	22.9	<0.1	53.1	21	<0.1	0.5	0.2	2	0.40
649309	Rock	0.64	17.6	4.2	27.4	26	0.3	2.2	0.6	134	0.84	3	20.4	<0.1	47.0	25	<0.1	0.6	1.5	3	0.40
649310	Rock	0.97	53.9	5.0	29.9	24	0.2	1.1	0.6	127	0.88	2	21.0	<0.1	48.1	25	<0.1	1.6	0.3	4	0.42
649311	Rock	0.75	19.0	6.5	25.3	25	0.2	1.9	0.6	133	0.85	2	22.4	<0.1	50.0	25	<0.1	0.7	0.9	3	0.43
649312	Rock	0.87	19.3	5.3	23.5	26	0.2	1.2	0.7	130	0.83	3	16.9	<0.1	43.6	28	<0.1	0.6	0.8	3	0.42
649313	Rock	1.04	402.3	6.9	23.9	19	0.2	5.3	0.7	115	0.83	2	18.6	<0.1	44.7	29	0.3	0.9	0.3	3	0.39
649314	Sand	0.55	1.4	1.6	3.6	3	<0.1	2.6	0.3	36	0.29	<1	0.9	<0.1	2.5	9	<0.1	<0.1	<0.1	3	0.01
649315	Rock	0.57	111.0	18.2	20.2	11	0.2	4.2	1.0	99	0.72	10	19.4	<0.1	43.1	27	0.1	2.9	1.5	4	0.58
649316	Rock	0.92	191.4	18.0	21.0	12	0.2	2.2	0.8	113	0.69	7	18.6	<0.1	41.5	31	0.1	2.0	0.7	4	0.39
649317	Rock	0.89	20.0	14.1	20.4	14	0.2	2.8	0.9	128	0.75	4	21.1	<0.1	42.3	36	<0.1	1.1	0.4	5	0.39
649318	Rock	0.90	367.2	10.6	20.5	21	0.2	1.7	0.9	141	0.73	3	18.8	<0.1	43.9	38	0.2	1.2	0.5	3	0.37
649319	Rock	0.63	762.0	17.5	19.6	13	0.2	3.9	0.8	112	0.74	2	16.8	<0.1	33.6	39	0.5	1.5	1.8	4	0.30
649320	Rock Pulp	<0.01	379.4	1546	48.5	97	25.8	5.3	11.5	775	2.27	149	1.4	0.2	1.2	590	0.8	71.5	7.3	43	2.57
649321	Rock	0.79	153.1	18.2	18.0	14	0.2	1.3	1.0	107	0.69	4	16.0	<0.1	30.0	39	<0.1	2.4	0.7	5	0.35
649322	Rock	0.66	135.2	13.1	17.2	14	0.2	3.7	1.0	120	0.78	3	15.2	<0.1	31.3	42	0.2	1.7	0.9	3	0.40
649323	Rock	0.68	138.8	12.4	18.4	13	0.2	1.6	0.9	153	0.75	3	14.0	<0.1	31.7	38	<0.1	1.1	1.9	3	0.51
649324	Rock	0.72	81.7	8.2	17.3	17	0.2	2.9	0.9	149	0.84	1	13.5	<0.1	29.9	42	0.2	0.6	0.4	4	0.56
649325	Rock	0.46	13.6	15.4	16.5	17	0.2	1.8	1.3	139	0.83	3	15.3	<0.1	32.7	40	0.1	1.6	2.0	4	0.42
649326	Rock	0.42	21.0	13.2	17.4	18	0.2	3.6	1.5	146	0.92	4	16.5	<0.1	34.5	42	<0.1	1.9	1.1	4	0.52

CERTIFICATE OF ANALYSIS

VAN08004976.3

	Method Analyte Unit MDL	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
649297	Rock	0.005	45.7	4	0.05	342	0.053	6.53	2.323	4.28	4.1	62.0	88	4.4	68.5	22.5	3.0	7	1	35.2	<0.1
649298	Rock	0.005	48.8	5	0.07	321	0.065	6.38	2.091	4.07	12.7	74.5	95	4.7	80.3	27.0	3.5	7	2	31.6	<0.1
649299	Rock	0.005	53.8	5	0.05	315	0.060	6.79	2.549	4.11	5.3	57.6	103	6.6	87.8	30.3	3.6	9	2	24.4	0.1
649300	Rock	0.006	46.9	6	0.06	343	0.067	6.56	2.490	4.03	4.0	80.5	92	4.5	92.3	21.9	3.4	8	2	39.8	<0.1
649301	Rock	0.004	55.0	<1	0.05	260	0.053	6.63	2.483	2.85	9.1	83.7	105	4.8	88.0	30.6	4.7	11	1	37.4	<0.1
649302	Rock Pulp	0.039	4.9	<1	0.33	576	0.084	8.75	2.356	2.06	3.2	12.4	11	1.6	4.3	1.3	<0.1	2	2	12.9	0.4
649303	Rock	0.004	48.9	<1	0.05	248	0.053	6.71	2.458	2.85	15.2	66.4	96	5.6	73.2	25.2	3.5	8	1	37.0	<0.1
649304	Rock	0.005	48.8	<1	0.06	351	0.064	6.57	2.446	2.93	21.8	71.6	91	5.2	75.9	24.5	3.4	7	1	32.4	<0.1
649305	Rock	0.006	55.3	2	0.06	335	0.065	5.95	2.297	3.34	7.3	67.7	105	5.4	69.1	20.2	3.2	8	<1	37.6	<0.1
649306	Rock	0.002	38.8	5	0.03	146	0.050	5.70	2.194	2.86	29.2	64.8	77	3.1	74.3	26.0	2.9	6	<1	31.0	<0.1
649307	Rock	0.002	40.3	6	0.04	191	0.051	6.05	2.341	3.21	45.7	66.2	81	2.8	81.9	21.7	2.5	8	1	30.5	<0.1
649308	Rock	0.003	41.2	3	0.04	191	0.051	6.24	2.323	3.28	29.7	63.1	82	2.9	84.3	22.1	2.6	9	1	32.8	<0.1
649309	Rock	0.003	41.9	3	0.06	264	0.054	6.12	2.192	3.49	4.8	63.2	82	2.9	76.2	20.6	2.6	6	1	31.2	<0.1
649310	Rock	0.003	44.4	2	0.04	242	0.050	6.35	2.384	3.55	38.3	61.2	87	7.1	73.7	19.7	2.5	6	1	29.9	<0.1
649311	Rock	0.003	43.3	4	0.05	252	0.053	6.30	2.275	3.58	8.4	65.7	84	2.9	76.4	20.8	2.2	5	1	34.8	<0.1
649312	Rock	0.003	47.4	6	0.05	297	0.054	6.22	2.178	3.67	5.2	56.8	89	2.8	94.5	18.6	2.2	5	1	29.7	<0.1
649313	Rock	0.003	44.7	9	0.05	316	0.053	6.28	2.094	3.98	16.9	62.7	86	2.6	66.2	21.4	2.1	5	1	26.8	<0.1
649314	Sand	<0.001	4.7	5	<0.01	130	0.013	0.60	0.122	0.51	0.3	39.9	9	0.4	6.9	1.9	0.2	<1	<1	4.9	<0.1
649315	Rock	0.004	43.3	6	0.06	285	0.048	6.14	1.433	3.93	24.4	57.7	83	2.2	63.4	18.5	2.3	6	1	19.9	0.1
649316	Rock	0.005	47.8	4	0.06	350	0.052	6.38	1.773	4.12	10.4	54.6	92	2.7	54.0	18.6	2.2	5	1	22.4	<0.1
649317	Rock	0.005	51.5	4	0.07	364	0.060	6.27	1.864	4.01	15.1	60.7	97	2.4	58.0	18.5	2.2	6	1	26.5	<0.1
649318	Rock	0.005	53.8	3	0.07	388	0.059	6.34	2.001	3.89	5.9	56.7	98	3.2	57.7	19.3	2.1	7	2	23.2	<0.1
649319	Rock	0.005	57.0	4	0.08	449	0.058	6.13	1.664	3.85	7.2	49.0	104	3.3	51.5	17.9	2.4	7	2	25.8	0.1
649320	Rock Pulp	0.047	9.8	12	0.39	737	0.116	7.12	2.048	1.89	5.1	9.2	17	1.3	5.6	1.4	<0.1	1	2	10.9	0.4
649321	Rock	0.005	55.9	3	0.09	447	0.062	6.49	1.502	3.95	17.6	52.1	101	4.3	51.2	19.2	2.8	6	2	25.1	0.1
649322	Rock	0.006	53.3	4	0.10	489	0.060	6.24	1.590	3.88	13.9	51.1	99	3.2	52.9	17.9	2.8	7	2	29.3	<0.1
649323	Rock	0.006	55.4	4	0.07	435	0.065	5.60	1.864	3.54	191.9	45.1	100	2.5	52.2	18.4	3.0	8	2	23.7	<0.1
649324	Rock	0.005	51.9	6	0.06	516	0.068	5.91	2.044	3.42	9.7	57.4	95	2.5	52.5	17.2	2.4	8	2	25.7	<0.1
649325	Rock	0.006	54.4	4	0.09	476	0.068	5.75	1.788	3.60	5.7	58.5	101	3.1	51.2	17.4	2.3	6	2	29.3	<0.1
649326	Rock	0.007	61.6	5	0.10	525	0.074	6.16	1.825	3.65	6.1	51.3	110	3.3	58.4	18.1	2.3	7	2	29.2	<0.1

CERTIFICATE OF ANALYSIS

VAN08004976.3

	Method	WGHT	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	0.1	1	0.1	0.1	0.1	1
649327	Rock	0.95	44.3	19.2	18.6	16	0.2	1.5	0.9	147	0.86	4	15.1	<0.1	32.8	40	0.1	1.6	1.4	4
649328	Rock	0.68	6.2	10.1	20.0	19	0.2	2.2	1.2	169	0.96	3	16.4	<0.1	37.4	44	<0.1	1.8	2.6	4
649329	Rock	0.67	23.0	15.4	20.4	18	0.2	2.8	1.5	115	0.88	4	13.8	<0.1	33.0	40	<0.1	2.1	2.1	3
649330	Rock	0.68	50.5	5.5	19.5	21	0.2	1.4	0.9	155	0.95	2	13.3	<0.1	31.8	42	0.2	0.9	<0.1	4
649331	Rock	0.59	34.5	6.9	18.7	21	0.1	2.8	1.2	153	0.90	2	12.6	<0.1	31.3	40	<0.1	0.9	0.2	2
649332	Sand	0.55	1.3	1.2	3.5	3	<0.1	3.0	0.3	36	0.29	<1	0.8	<0.1	2.2	9	<0.1	<0.1	<0.1	<1
649333	Rock	0.90	11.3	9.9	27.2	42	0.3	3.5	1.1	206	1.02	66	15.7	<0.1	36.5	37	0.3	3.4	0.2	2
649334	Rock	0.70	7.8	11.0	32.4	53	0.3	2.1	1.1	251	0.92	234	15.7	<0.1	34.0	35	0.4	6.2	0.2	2
649335	Rock	0.88	10.4	22.0	22.6	30	0.3	4.5	4.2	221	0.85	24	12.1	<0.1	32.8	34	0.2	3.1	0.3	4
649336	Rock	0.76	25.1	15.4	20.8	28	0.3	1.3	1.8	596	0.81	15	14.2	<0.1	32.7	36	0.2	4.8	15.6	4
649337	Rock	0.67	6.6	11.7	19.2	26	0.2	4.8	1.2	257	0.95	4	14.6	<0.1	34.9	45	<0.1	1.8	0.1	4
649338	Rock Pulp	<0.01	1047	8059	271.8	121	107.2	3.3	2.6	192	1.56	43	0.7	<0.1	0.7	174	1.5	249.1	10.7	30
649339	Rock	0.91	22.1	17.1	19.8	26	0.3	1.5	1.0	244	0.92	11	13.6	<0.1	36.3	53	0.1	1.9	0.2	3
649340	Rock	0.64	161.0	17.4	26.3	31	0.3	4.0	1.0	259	0.84	60	14.8	<0.1	33.5	45	0.2	2.3	0.2	2
649341	Rock	0.97	99.7	14.8	24.3	16	<0.1	1.4	1.0	240	0.69	5	13.8	<0.1	30.4	44	<0.1	2.0	0.2	<1
649342	Rock	0.68	213.5	9.3	20.3	21	<0.1	2.7	1.1	200	0.94	17	14.2	<0.1	32.6	47	<0.1	1.3	0.3	2
649343	Rock	0.80	19.7	6.6	18.7	21	<0.1	1.7	1.0	233	0.90	3	13.3	<0.1	32.3	48	<0.1	1.0	0.2	<1
649344	Rock	0.87	23.3	7.0	19.2	22	<0.1	2.9	1.0	240	0.96	3	13.3	<0.1	31.9	47	<0.1	1.0	0.2	<1
649345	Rock	0.69	13.7	7.6	17.9	23	<0.1	1.0	1.2	232	0.82	2	13.3	<0.1	29.6	46	0.1	1.2	0.1	2
649346	Rock	0.76	275.4	15.8	16.7	15	<0.1	0.7	1.3	262	0.82	5	13.9	<0.1	28.6	45	<0.1	2.0	1.9	2
649347	Rock	0.66	111.8	11.0	16.6	15	<0.1	0.7	0.9	229	0.71	4	12.6	<0.1	29.0	48	0.1	1.4	0.2	2
649348	Rock	0.93	139.1	10.7	16.5	17	<0.1	0.6	0.9	228	0.74	5	13.1	<0.1	31.6	43	<0.1	1.8	0.3	3
649349	Rock	0.58	86.8	13.3	16.2	17	<0.1	0.6	1.0	320	0.77	4	12.8	<0.1	31.7	50	<0.1	1.7	3.3	2
649350	Sand	0.70	1.7	1.4	3.3	3	<0.1	1.5	0.3	27	0.27	<1	0.8	<0.1	2.2	11	<0.1	<0.1	<0.1	<1
649351	Rock	0.81	232.1	11.4	16.6	17	<0.1	0.7	1.1	344	0.78	3	18.0	<0.1	32.7	52	<0.1	1.8	0.5	4
649352	Rock	0.66	43.2	14.8	17.7	18	<0.1	0.8	1.2	258	0.85	4	13.7	<0.1	30.2	50	<0.1	1.9	4.1	3
649353	Rock	0.96	50.8	12.7	15.2	16	<0.1	0.8	1.0	227	0.84	3	12.6	<0.1	27.1	47	<0.1	1.2	0.5	3
649354	Rock	0.63	4.8	14.3	11.0	19	<0.1	0.7	1.0	213	0.91	4	14.1	<0.1	29.6	45	<0.1	1.2	2.3	5
649355	Rock	0.97	21.3	17.4	9.5	13	<0.1	0.9	0.9	228	0.75	5	9.7	<0.1	21.9	31	<0.1	2.8	1.8	1
649356	Rock Pulp	<0.01	446.0	5559	6.6	44	1.7	2.8	2.7	436	1.02	6	1.2	<0.1	0.9	479	0.2	8.6	0.7	54

CERTIFICATE OF ANALYSIS

VAN08004976.3

	Method Analyte Unit MDL	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
649327	Rock	0.006	56.9	3	0.09	487	0.067	6.19	1.742	3.72	11.5	57.2	104	3.5	50.9	16.9	2.5	6	2	27.7	<0.1
649328	Rock	0.007	62.1	4	0.13	481	0.075	6.18	1.608	3.77	5.2	63.9	111	3.4	56.3	20.1	2.7	8	2	33.6	<0.1
649329	Rock	0.006	55.6	3	0.10	463	0.065	6.15	1.715	3.73	5.9	55.1	102	3.5	44.4	16.7	2.2	6	2	33.2	<0.1
649330	Rock	0.006	58.9	4	0.09	462	0.073	6.41	1.876	3.77	3.4	59.6	108	2.6	48.4	17.0	2.3	5	2	28.9	<0.1
649331	Rock	0.006	52.8	5	0.09	470	0.063	6.05	1.729	3.65	3.2	51.2	95	1.9	48.9	14.8	1.8	6	2	30.6	<0.1
649332	Sand	0.001	5.0	4	<0.01	129	0.013	0.58	0.122	0.52	0.3	37.9	9	0.4	6.6	2.1	0.2	<1	<1	5.9	<0.1
649333	Rock	0.006	60.2	5	0.09	461	0.074	6.25	1.576	3.83	5.5	65.5	109	2.8	51.5	18.8	2.4	6	2	33.7	<0.1
649334	Rock	0.006	60.6	3	0.07	540	0.071	6.40	1.494	4.42	8.2	63.1	113	3.2	48.2	18.1	2.3	6	2	34.6	0.2
649335	Rock	0.006	62.8	6	0.07	502	0.062	6.33	1.588	4.23	7.1	56.5	113	3.5	45.7	17.5	2.5	7	2	21.4	<0.1
649336	Rock	0.006	58.0	2	0.13	424	0.066	5.85	1.066	3.69	13.6	57.6	109	4.2	45.6	16.8	2.2	11	2	47.4	<0.1
649337	Rock	0.006	57.4	4	0.06	517	0.069	6.19	2.051	3.81	10.1	59.1	106	2.4	52.2	17.1	2.0	6	2	25.3	<0.1
649338	Rock Pulp	0.013	4.6	13	0.13	288	0.040	2.76	0.401	1.26	2.4	6.0	8	1.9	2.1	1.3	<0.1	<1	<1	8.0	0.6
649339	Rock	0.006	58.3	3	0.07	479	0.069	6.09	2.008	3.72	7.4	54.6	107	1.7	50.0	16.7	2.1	6	2	24.3	<0.1
649340	Rock	0.006	60.4	4	0.05	503	0.068	6.03	1.578	4.09	69.2	50.8	111	2.8	47.1	18.4	2.3	6	2	34.2	0.1
649341	Rock	0.007	56.0	3	0.07	467	0.071	5.89	1.723	4.61	28.9	49.9	108	2.3	49.7	20.9	2.2	7	2	21.4	<0.1
649342	Rock	0.006	55.2	6	0.06	475	0.067	6.08	2.199	4.06	13.6	58.4	107	2.9	56.4	19.8	2.3	7	2	25.1	<0.1
649343	Rock	0.006	53.4	5	0.06	459	0.069	6.21	2.004	4.35	75.5	58.6	102	1.8	52.8	21.0	2.4	6	2	25.2	<0.1
649344	Rock	0.006	57.4	5	0.06	482	0.069	6.01	2.036	4.28	27.0	56.7	109	1.8	51.6	20.0	2.3	7	2	23.4	<0.1
649345	Rock	0.006	50.8	2	0.08	481	0.059	6.10	1.771	4.29	10.8	60.1	98	2.1	44.6	17.3	2.4	7	2	26.2	<0.1
649346	Rock	0.006	55.6	2	0.10	445	0.069	6.03	1.748	4.21	14.6	50.7	110	3.8	47.6	18.2	2.1	7	2	24.9	0.1
649347	Rock	0.006	54.1	4	0.07	479	0.065	6.26	1.914	4.32	24.3	51.1	103	2.2	49.1	19.1	2.4	6	2	17.2	<0.1
649348	Rock	0.007	50.8	3	0.08	417	0.067	5.39	1.739	3.72	20.2	51.4	97	3.5	44.6	18.4	2.1	6	2	20.7	<0.1
649349	Rock	0.007	57.1	3	0.11	489	0.072	6.13	1.814	4.11	32.4	54.0	110	5.3	52.7	19.5	2.2	6	2	20.0	<0.1
649350	Sand	<0.001	4.7	6	<0.01	133	0.015	0.56	0.135	0.60	0.2	38.3	9	0.3	6.6	2.2	0.1	<1	<1	6.2	<0.1
649351	Rock	0.007	55.2	4	0.10	494	0.071	6.04	1.828	4.15	15.1	52.9	107	2.9	56.5	20.1	2.2	7	2	20.3	<0.1
649352	Rock	0.008	61.0	5	0.12	518	0.083	6.41	1.985	4.34	11.7	51.8	116	2.6	56.7	24.5	2.5	7	2	22.3	<0.1
649353	Rock	0.007	52.7	5	0.07	485	0.068	6.03	2.066	4.22	46.9	48.6	102	5.6	57.7	21.3	2.2	7	2	18.6	<0.1
649354	Rock	0.007	51.4	6	0.06	447	0.066	5.90	2.465	3.33	30.5	44.2	100	8.2	52.8	19.8	2.2	6	2	20.6	<0.1
649355	Rock	0.006	41.7	5	0.06	359	0.052	5.06	1.859	3.06	9.2	34.3	79	4.7	35.1	16.5	1.4	5	1	21.0	<0.1
649356	Rock Pulp	0.034	6.1	4	0.30	512	0.078	8.29	2.285	2.11	2.2	10.6	12	1.6	4.9	1.2	<0.1	1	2	12.4	0.4

CERTIFICATE OF ANALYSIS

VAN08004976.3

	Method	WGHT	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
649357	Rock	0.99	204.8	134.1	3946	3988	50.3	0.9	1.1	260	1.63	776	15.0	0.4	32.2	24	43.3	87.3	7.9	3	0.22
649358	Rock	0.61	233.8	12.4	29.6	35	0.2	0.7	1.1	199	0.79	6	17.2	<0.1	32.3	40	0.2	3.4	1.7	3	0.36
649359	Rock	1.00	3285	9.2	24.4	20	<0.1	0.9	1.0	191	0.64	6	15.9	<0.1	32.4	37	<0.1	3.1	0.6	1	0.38
649360	Rock	0.88	1231	16.9	16.7	14	<0.1	0.8	1.1	229	0.68	5	14.3	<0.1	32.0	42	<0.1	4.2	0.3	2	0.45
649361	Rock	0.80	381.6	10.1	16.9	16	<0.1	0.8	1.1	241	0.73	5	12.4	<0.1	28.0	45	<0.1	1.8	0.2	2	0.51
649362	Rock	0.70	437.9	10.1	16.0	13	<0.1	0.8	1.2	248	0.73	5	15.4	<0.1	29.3	46	<0.1	1.7	0.3	3	0.53
649363	Rock	0.69	89.6	10.2	14.5	15	<0.1	0.7	1.5	331	0.84	3	10.9	<0.1	27.7	47	<0.1	2.5	0.4	3	0.71
649364	Rock	0.87	48.5	13.1	17.0	14	<0.1	0.5	2.1	243	0.68	4	13.0	<0.1	29.0	40	<0.1	2.7	0.8	1	0.53
649365	Rock	0.63	166.7	12.6	18.7	15	<0.1	0.5	1.4	154	0.64	18	17.3	<0.1	32.8	30	<0.1	2.3	1.0	2	0.28
649366	Rock	0.79	991.9	20.5	18.0	15	<0.1	0.8	1.5	294	0.84	5	16.4	<0.1	33.3	38	<0.1	2.4	5.1	1	0.53
649367	Rock	0.55	193.1	15.2	14.6	12	<0.1	0.7	1.0	174	0.76	2	15.0	<0.1	29.5	40	<0.1	1.2	1.3	2	0.57
649368	Sand	0.72	3.7	2.3	3.3	3	<0.1	1.5	0.4	44	0.39	<1	0.7	<0.1	2.3	11	<0.1	<0.1	<0.1	<1	0.01
649369	Rock	0.59	48.5	6.8	12.4	15	<0.1	0.5	1.0	162	0.77	2	14.4	<0.1	32.1	42	<0.1	0.9	0.7	3	0.44
649370	Rock	1.23	76.8	13.1	14.5	22	<0.1	0.7	1.9	198	0.90	4	14.2	<0.1	31.9	43	<0.1	1.7	1.7	2	0.45
649371	Rock	0.75	146.7	13.5	15.7	24	<0.1	0.9	1.2	180	0.94	2	15.2	<0.1	34.1	43	<0.1	1.1	0.5	3	0.62
649372	Rock	0.59	149.5	16.4	16.7	20	<0.1	0.7	2.1	191	0.89	2	16.8	<0.1	34.3	42	<0.1	1.2	0.8	3	0.50
649373	Rock	0.70	465.6	8.2	14.6	21	<0.1	0.8	1.1	163	0.82	1	13.5	<0.1	28.9	41	0.1	0.7	0.3	3	0.53
649374	Rock Pulp	<0.01	396.0	1545	49.0	94	25.8	4.7	13.6	801	2.33	148	1.5	0.2	1.2	588	0.5	77.8	7.3	41	2.65
649375	Rock	0.69	489.0	14.4	18.7	19	<0.1	0.9	1.2	192	0.89	2	15.6	<0.1	35.6	45	<0.1	1.3	0.6	3	0.62
649376	Rock	0.71	678.4	7.0	17.6	18	<0.1	0.8	1.0	173	0.84	2	16.4	<0.1	36.7	44	<0.1	0.9	0.2	3	0.56
649377	Rock	0.99	459.4	12.3	18.8	16	0.2	0.5	0.9	178	0.90	<1	15.8	<0.1	36.8	45	<0.1	0.8	0.2	<1	0.59
649378	Rock	0.68	710.1	7.4	15.9	15	0.1	0.7	0.8	160	0.86	3	14.6	<0.1	36.5	41	0.2	1.0	0.2	1	0.58
649379	Rock	0.96	1825	8.0	14.3	11	0.2	0.8	0.8	114	0.60	4	11.1	<0.1	25.1	22	0.1	0.7	0.8	8	0.30
649380	Rock	0.84	2335	6.9	12.1	11	0.1	0.6	0.8	107	0.56	2	10.4	<0.1	23.5	21	<0.1	0.8	0.7	4	0.28
649381	Rock	0.58	905.2	7.3	15.4	18	0.2	0.7	1.7	313	0.78	4	15.6	<0.1	37.7	40	0.2	1.4	0.6	6	0.50
649382	Rock	0.65	245.2	6.6	15.8	15	<0.1	0.4	0.7	274	0.91	4	13.5	<0.1	35.1	46	<0.1	1.0	0.2	9	0.70
649383	Rock	1.00	241.2	9.9	16.8	11	<0.1	0.7	0.8	185	0.90	5	13.7	<0.1	33.6	45	<0.1	0.8	0.3	9	0.58
649384	Rock	0.63	122.8	8.0	16.8	15	<0.1	0.7	0.9	175	0.88	3	13.3	<0.1	27.4	44	<0.1	0.4	<0.1	8	0.55
649385	Rock	0.93	262.6	5.1	18.0	15	<0.1	3.5	0.7	198	0.88	3	15.4	<0.1	36.5	43	<0.1	0.7	0.1	8	0.56
649386	Sand	0.61	1.6	1.5	3.7	2	<0.1	2.2	0.3	36	0.31	<1	0.7	<0.1	2.2	11	<0.1	<0.1	<0.1	10	<0.01

CERTIFICATE OF ANALYSIS

VAN08004976.3

	Method	Analyte	Unit	MDL	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX			
					P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
					%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
					0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.01	0.1	0.1	1	0.1	0.1	0.1	1	1	0.1	0.1
649357	Rock	0.005	52.9	6	0.09	362	0.060	5.30	0.460	3.79	9.8	47.9	105	9.0	42.2	18.8	2.0	6	2	91.0	1.2			
649358	Rock	0.006	58.3	4	0.07	463	0.057	6.24	1.959	4.50	13.5	55.4	112	4.1	48.6	24.0	3.0	7	2	22.5	<0.1			
649359	Rock	0.007	56.6	6	0.07	460	0.057	5.05	1.529	4.40	37.6	53.4	111	2.1	38.7	23.5	2.5	5	1	19.2	0.3			
649360	Rock	0.006	56.2	4	0.06	436	0.057	5.94	1.671	4.56	32.6	56.4	107	2.9	43.2	20.3	2.4	6	1	24.1	0.1			
649361	Rock	0.008	57.3	4	0.06	578	0.069	6.11	1.754	4.87	40.8	47.8	110	3.1	46.6	21.5	2.2	6	2	22.1	<0.1			
649362	Rock	0.007	52.8	4	0.07	530	0.070	6.21	1.788	4.99	36.1	49.8	102	3.4	45.1	23.2	2.5	7	2	21.7	<0.1			
649363	Rock	0.007	63.0	5	0.09	511	0.066	6.18	1.963	4.33	12.2	55.2	120	4.7	52.2	20.5	2.0	6	2	26.3	<0.1			
649364	Rock	0.004	50.8	3	0.06	381	0.051	6.58	2.058	4.72	11.4	49.8	98	3.5	59.6	22.5	2.6	8	1	22.1	<0.1			
649365	Rock	0.001	31.8	3	0.07	316	0.034	6.28	1.451	4.29	5.9	41.0	63	4.2	59.1	25.2	3.0	8	1	26.1	0.1			
649366	Rock	0.005	47.5	4	0.08	465	0.054	5.85	1.326	4.12	22.7	52.1	92	8.1	50.8	22.9	2.5	6	2	37.6	0.1			
649367	Rock	0.005	50.9	4	0.05	424	0.055	5.74	1.850	3.99	64.6	50.4	97	7.8	61.5	20.3	2.5	6	2	20.1	<0.1			
649368	Sand	0.001	5.1	6	<0.01	134	0.014	0.57	0.131	0.59	0.2	44.6	9	0.4	7.4	2.3	0.1	<1	<1	5.9	<0.1			
649369	Rock	0.006	52.4	5	0.05	382	0.057	5.90	2.138	3.92	41.2	46.3	102	4.7	51.3	20.2	2.9	7	2	16.2	<0.1			
649370	Rock	0.006	56.6	4	0.08	436	0.065	6.06	1.685	4.06	10.1	55.3	110	6.4	52.9	22.2	3.0	7	2	25.3	<0.1			
649371	Rock	0.006	56.2	5	0.06	451	0.068	6.26	2.039	4.10	8.4	54.4	108	7.0	58.4	21.4	2.7	6	2	20.7	<0.1			
649372	Rock	0.005	58.2	5	0.08	470	0.064	6.26	1.909	4.30	8.0	57.2	112	5.9	55.0	22.6	2.6	7	2	22.1	<0.1			
649373	Rock	0.005	50.9	6	0.05	433	0.057	5.84	2.104	3.91	8.6	46.7	97	4.8	49.2	21.3	2.2	5	2	17.2	<0.1			
649374	Rock Pulp	0.050	10.8	12	0.40	820	0.121	7.26	2.130	2.15	5.3	10.6	18	1.5	5.9	1.6	<0.1	1	3	13.4	0.4			
649375	Rock	0.007	65.4	5	0.06	496	0.067	6.32	2.025	4.51	18.7	61.1	126	3.8	57.8	24.3	2.6	7	2	20.7	<0.1			
649376	Rock	0.006	61.0	5	0.06	449	0.067	6.09	2.038	4.29	24.7	57.4	118	1.7	61.6	24.9	2.8	7	2	22.7	<0.1			
649377	Rock	0.006	55.2	7	0.06	449	0.070	7.22	2.235	4.80	11.7	62.1	111	2.6	46.9	21.5	2.5	7	2	18.7	<0.1			
649378	Rock	0.008	56.3	7	0.06	470	0.066	6.96	2.062	4.72	39.8	51.2	111	2.0	49.6	22.1	2.3	6	2	21.0	<0.1			
649379	Rock	0.003	36.5	8	0.03	255	0.037	3.46	1.099	2.68	149.9	32.0	70	1.6	25.4	14.4	1.3	4	1	14.0	0.2			
649380	Rock	0.003	36.3	7	0.03	256	0.035	3.31	0.994	2.68	182.4	31.8	70	1.6	26.0	15.3	1.2	3	<1	15.1	0.2			
649381	Rock	0.006	59.9	6	0.08	430	0.068	6.22	1.808	4.49	16.6	59.4	118	2.5	42.7	23.7	2.5	7	2	27.3	0.1			
649382	Rock	0.007	58.0	6	0.07	394	0.073	6.24	2.087	4.42	21.7	50.5	114	2.2	52.6	21.7	2.0	5	2	21.4	<0.1			
649383	Rock	0.006	55.5	6	0.05	431	0.070	6.38	2.311	4.51	17.4	52.7	110	1.5	51.8	20.8	1.7	5	2	25.4	<0.1			
649384	Rock	0.006	53.1	8	0.05	378	0.067	6.33	2.259	4.59	17.6	56.1	103	1.6	50.7	20.2	2.0	6	2	21.2	<0.1			
649385	Rock	0.005	50.6	7	0.05	382	0.056	6.42	2.112	4.64	16.4	50.5	99	1.3	44.5	20.2	2.0	4	2	24.8	<0.1			
649386	Sand	<0.001	4.4	5	<0.01	136	0.013	0.61	0.123	0.68	0.3	45.5	9	0.5	6.3	2.2	<0.1	<1	<1	6.2	<0.1			

CERTIFICATE OF ANALYSIS

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	Method	WGHT	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
649387	Rock	0.70	3659	3.1	12.0	12	<0.1	1.7	0.5	153	0.44	5	11.1	<0.1	24.3	26	<0.1	0.4	0.4	7	0.31
649388	Rock	1.05	2665	6.7	19.1	28	0.1	1.8	0.9	1323	0.81	94	13.6	<0.1	33.7	36	<0.1	1.7	0.2	9	0.38
649389	Rock	0.58	1226	7.5	18.1	11	<0.1	2.1	0.7	205	0.71	5	12.9	<0.1	32.9	39	<0.1	0.9	0.3	7	0.51
649390	Rock	0.73	1661	12.3	19.4	35	0.2	2.5	1.6	474	1.70	8	15.4	<0.1	40.0	60	<0.1	1.5	1.5	12	0.62
649391	Rock	1.03	697.1	19.9	34.6	29	0.4	1.2	2.1	401	1.37	12	16.4	<0.1	34.4	69	<0.1	2.3	4.0	9	0.80
649392	Rock Pulp	<0.01	1095	8170	276.2	121	106.9	2.7	2.3	204	1.63	57	0.7	<0.1	0.6	171	1.0	244.7	9.6	30	0.60
649393	Rock	1.06	116.2	12.0	18.6	53	<0.1	2.6	2.3	479	2.31	2	13.9	<0.1	40.1	72	<0.1	0.9	3.0	7	1.08
649394	Rock	0.51	663.9	7.1	17.6	25	<0.1	1.7	1.1	340	1.31	4	14.8	<0.1	34.5	64	<0.1	0.7	0.3	3	0.91
649395	Rock	1.00	2753	141.3	2159	414	12.0	2.5	1.5	449	1.18	182	16.2	<0.1	38.0	43	3.5	8.8	10.1	6	0.66
649396	Rock	0.84	714.6	11.6	26.3	27	0.1	1.1	1.1	368	0.87	8	16.0	<0.1	43.8	50	<0.1	1.7	0.5	4	0.72
649397	Rock	0.71	468.5	20.2	22.4	15	0.2	2.1	1.0	238	0.81	7	12.2	<0.1	30.9	54	<0.1	1.2	0.8	4	0.60
649398	Rock	0.82	475.8	17.7	17.5	12	<0.1	1.6	1.1	243	0.80	6	12.6	<0.1	30.7	56	<0.1	1.2	0.9	1	0.64
649399	Rock	1.07	615.3	5.8	17.1	22	<0.1	2.3	1.2	285	1.04	3	13.8	<0.1	35.5	49	<0.1	0.8	0.3	5	0.64
649400	Rock	0.65	1593	11.6	24.2	32	0.3	1.9	2.3	611	0.88	30	14.4	<0.1	36.5	44	<0.1	1.7	2.5	6	0.68
649401	Rock	0.73	>4000	15.8	29.1	47	0.2	1.8	5.4	1105	1.14	18	17.9	<0.1	40.4	46	<0.1	3.0	0.4	5	0.82
649402	Rock	1.04	354.7	8.0	25.4	21	0.1	1.5	2.7	643	0.88	9	16.6	<0.1	40.4	41	<0.1	2.6	0.3	3	0.62
649403	Rock	0.74	456.1	15.0	35.3	26	0.2	1.4	1.4	596	0.82	12	15.5	<0.1	39.3	40	<0.1	2.6	0.8	1	0.54
649404	Sand	0.59	3.2	1.3	3.6	2	<0.1	2.7	0.3	37	0.33	<1	0.7	<0.1	2.3	11	<0.1	<0.1	<0.1	3	0.01
649405	Rock	0.96	1229	19.7	33.7	14	0.4	1.4	1.3	580	0.60	11	14.5	<0.1	30.5	33	<0.1	2.2	1.1	4	0.68
649406	Rock	0.65	155.8	12.8	30.7	14	0.7	1.8	5.2	846	0.73	7	13.2	<0.1	33.7	39	<0.1	3.4	0.6	5	0.68

CERTIFICATE OF ANALYSIS

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	Method	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1
649387	Rock	0.006	43.8	9	0.03	275	0.036	4.50	1.136	4.00	144.4	37.0	84	0.9	27.8	16.5	1.5	4	<1	22.6
649388	Rock	0.005	62.1	7	0.07	399	0.065	6.34	1.029	4.89	13.2	68.4	121	2.3	39.9	20.4	1.8	4	2	80.5
649389	Rock	0.003	34.2	8	0.04	344	0.044	6.40	2.032	4.82	18.1	34.3	69	1.0	36.2	13.8	1.4	5	<1	16.8
649390	Rock	0.016	94.6	9	0.11	465	0.134	6.16	2.037	4.28	43.1	65.9	180	3.1	58.4	27.4	2.0	8	4	30.1
649391	Rock	0.015	79.3	6	0.12	714	0.120	7.39	2.227	5.15	42.3	61.9	151	3.3	53.4	29.9	2.6	6	4	34.2
649392	Rock Pulp	0.014	4.3	15	0.13	284	0.038	2.85	0.465	1.52	1.9	6.7	8	1.6	1.8	1.4	<0.1	<1	<1	7.0
649393	Rock	0.027	109.7	13	0.16	523	0.193	7.14	2.635	4.07	42.7	74.2	211	12.8	78.9	38.8	2.7	8	7	45.2
649394	Rock	0.011	67.4	9	0.08	598	0.101	7.62	2.479	4.41	50.5	63.5	133	2.8	66.4	27.0	2.4	6	3	25.3
649395	Rock	0.009	59.6	7	0.11	493	0.079	7.43	1.460	4.93	18.9	66.8	118	7.4	44.6	23.8	2.2	5	3	59.6
649396	Rock	0.006	55.1	5	0.06	418	0.066	6.42	1.881	5.04	42.5	58.0	108	2.8	43.6	18.4	1.8	8	2	29.8
649397	Rock	0.007	56.7	7	0.05	366	0.063	6.17	2.149	4.50	31.5	53.1	107	2.0	40.7	17.6	1.8	6	2	19.2
649398	Rock	0.005	53.0	6	0.05	371	0.061	6.48	2.151	4.52	54.6	55.8	103	1.7	43.7	19.6	1.7	6	2	17.3
649399	Rock	0.006	58.8	7	0.06	396	0.071	6.37	2.205	4.41	29.7	69.5	113	2.2	50.2	21.5	1.7	6	2	21.2
649400	Rock	0.005	58.9	5	0.06	410	0.062	6.51	2.032	4.80	46.0	59.1	113	3.3	46.9	21.0	1.9	5	2	28.6
649401	Rock	0.007	63.8	5	0.12	437	0.078	6.18	0.943	4.69	20.1	60.7	125	4.8	56.1	29.1	3.6	5	2	113.8
649402	Rock	0.004	51.7	3	0.12	339	0.058	6.37	1.516	5.00	16.5	56.5	104	3.5	44.7	26.0	2.4	6	2	70.2
649403	Rock	0.003	44.9	4	0.12	377	0.053	6.60	1.651	5.15	11.3	45.9	91	3.0	42.0	20.6	2.3	8	2	32.1
649404	Sand	0.001	4.6	4	<0.01	136	0.015	0.58	0.125	0.69	<0.1	47.2	9	0.4	6.4	1.9	0.1	<1	<1	6.7
649405	Rock	0.005	44.7	6	0.07	261	0.052	4.74	1.017	3.98	>200	47.8	87	2.5	29.0	18.1	1.4	5	2	57.8
649406	Rock	0.008	53.6	6	0.15	388	0.058	5.70	0.671	4.57	47.0	57.2	105	3.7	47.1	21.0	2.1	4	2	63.7

QUALITY CONTROL REPORT

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	Method	WGHT	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
Pulp Duplicates																					
649297	Rock	1.05	5.8	4.2	24.2	25	<0.1	2.0	0.7	123	0.87	4	20.7	0.1	41.9	34	<0.1	1.0	<0.1	<1	0.40
REP 649297	QC		4.7	3.5	24.7	25	<0.1	2.3	0.7	120	0.86	4	19.8	0.1	42.8	34	0.2	1.1	0.1	2	0.37
649340	Rock	0.64	161.0	17.4	26.3	31	0.3	4.0	1.0	259	0.84	60	14.8	<0.1	33.5	45	0.2	2.3	0.2	2	0.58
REP 649340	QC		176.6	16.2	25.7	31	0.3	2.6	1.0	261	0.82	61	15.2	<0.1	33.6	45	0.1	2.1	0.2	2	0.58
649358	Rock	0.61	233.8	12.4	29.6	35	0.2	0.7	1.1	199	0.79	6	17.2	<0.1	32.3	40	0.2	3.4	1.7	3	0.36
REP 649358	QC		245.6	11.3	31.2	35	0.1	0.8	1.0	198	0.79	7	17.8	<0.1	31.5	40	<0.1	3.2	1.8	3	0.34
649387	Rock	0.70	3659	3.1	12.0	12	<0.1	1.7	0.5	153	0.44	5	11.1	<0.1	24.3	26	<0.1	0.4	0.4	7	0.31
REP 649387	QC		3799	3.9	12.1	13	<0.1	1.8	0.5	160	0.45	4	10.2	<0.1	23.5	27	<0.1	0.5	0.3	7	0.33
Reference Materials																					
STD DST6	Standard		11.3	130.3	36.3	172	0.3	30.3	14.3	924	3.73	24	8.3	<0.1	7.3	321	5.9	4.7	5.1	105	2.14
STD DST6	Standard		12.5	133.9	39.0	182	0.3	30.5	14.8	943	3.77	26	8.8	<0.1	7.7	333	6.7	5.7	5.4	104	2.19
STD DST6	Standard		14.3	127.7	36.0	181	0.4	30.7	14.1	959	3.86	23	7.8	<0.1	6.9	316	6.1	5.6	4.9	105	2.17
STD DST6	Standard		13.0	130.2	32.8	161	0.4	31.1	13.3	946	3.91	23	7.4	<0.1	6.5	328	5.8	5.1	4.5	101	2.21
STD DST6	Standard		12.8	140.9	38.6	179	0.4	30.1	15.0	945	3.76	23	7.6	<0.1	7.0	313	6.4	5.7	5.5	106	2.11
STD DST6	Standard		12.5	134.0	35.2	177	0.4	29.7	14.6	931	3.73	22	8.1	<0.1	7.2	314	6.3	5.5	5.2	112	2.08
STD DST6	Standard		11.7	127.0	34.8	166	0.3	30.4	14.2	926	3.76	23	7.9	<0.1	7.0	305	6.4	5.6	4.9	100	2.14
STD DST6	Standard		11.9	124.0	34.3	156	0.3	29.2	14.6	869	3.61	24	7.7	<0.1	6.4	292	6.4	5.5	5.1	94	2.00
STD DST6	Standard		11.3	129.6	35.3	172	0.3	30.5	14.3	868	3.55	23	7.6	<0.1	6.8	310	6.5	5.5	5.1	97	2.02
STD DST6	Standard		11.5	134.2	34.3	177	0.3	31.1	14.9	897	3.57	23	7.8	<0.1	7.1	307	6.6	5.4	5.2	104	2.08
STD MO OXIDE	Standard																				
STD MO OXIDE	Standard																				
STD R3T	Standard																				
STD R3T	Standard																				
STD DST6 Expected			12.7	129.7	36.7	176	0.4	30.4	13.7	980	3.91	24	7.8	0	6.9	298	5.6	5.4	4.7	115	2.26
STD R3T Expected																					
STD MO OXIDE Expected																					
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01

QUALITY CONTROL REPORT

VAN08004976.3

	Method Analyte Unit MDL	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1
Pulp Duplicates																				
649297	Rock	0.005	45.7	4	0.05	342	0.053	6.53	2.323	4.28	4.1	62.0	88	4.4	68.5	22.5	3.0	7	1	35.2
REP 649297	QC	0.004	47.2	5	0.05	344	0.053	6.36	2.281	3.99	4.3	65.0	88	3.9	66.9	22.0	3.1	7	1	33.8
649340	Rock	0.006	60.4	4	0.05	503	0.068	6.03	1.578	4.09	69.2	50.8	111	2.8	47.1	18.4	2.3	6	2	34.2
REP 649340	QC	0.006	60.6	5	0.05	486	0.066	5.99	1.611	4.10	69.7	53.9	112	2.8	47.5	17.5	2.2	6	2	33.5
649358	Rock	0.006	58.3	4	0.07	463	0.057	6.24	1.959	4.50	13.5	55.4	112	4.1	48.6	24.0	3.0	7	2	22.5
REP 649358	QC	0.006	56.4	4	0.06	457	0.057	6.12	1.975	4.42	13.8	52.0	110	4.1	47.3	24.4	3.1	7	2	23.2
649387	Rock	0.006	43.8	9	0.03	275	0.036	4.50	1.136	4.00	144.4	37.0	84	0.9	27.8	16.5	1.5	4	<1	22.6
REP 649387	QC	0.006	43.9	8	0.03	282	0.038	4.83	1.141	4.36	149.7	42.0	86	1.2	28.4	16.3	1.5	5	<1	28.0
Reference Materials																				
STD DST6	Standard	0.098	26.6	216	1.05	641	0.344	7.08	1.699	1.45	7.1	56.1	51	6.5	15.4	7.6	0.4	3	11	23.9
STD DST6	Standard	0.099	28.2	205	1.10	680	0.347	7.16	1.741	1.48	7.2	56.9	54	6.8	15.8	7.4	0.4	3	11	24.7
STD DST6	Standard	0.093	27.1	225	1.07	664	0.385	7.13	1.795	1.58	7.8	62.3	53	5.9	16.0	8.1	0.4	3	12	25.1
STD DST6	Standard	0.094	25.2	223	1.08	602	0.364	7.13	1.715	1.53	6.8	61.1	50	6.0	15.0	7.6	0.4	3	11	24.4
STD DST6	Standard	0.094	24.5	256	1.03	645	0.355	6.84	1.634	1.35	7.8	56.3	48	6.6	15.1	7.4	0.5	3	10	25.8
STD DST6	Standard	0.092	26.0	250	1.03	638	0.356	6.88	1.610	1.35	7.6	68.8	51	6.3	15.7	7.5	0.5	3	10	25.2
STD DST6	Standard	0.095	27.4	220	1.04	648	0.360	7.07	1.705	1.51	7.3	59.9	55	6.1	15.6	8.2	0.4	3	11	27.4
STD DST6	Standard	0.094	22.1	208	1.00	642	0.341	6.38	1.674	1.43	7.3	57.4	46	6.6	14.2	8.2	0.4	3	10	28.2
STD DST6	Standard	0.097	25.4	211	0.99	650	0.355	6.66	1.563	1.39	7.6	62.1	49	6.6	14.8	7.7	0.4	3	10	21.8
STD DST6	Standard	0.097	25.4	215	1.00	638	0.356	6.80	1.577	1.40	7.7	56.2	50	6.4	14.9	8.3	0.5	3	10	24.0
STD MO OXIDE	Standard																			
STD MO OXIDE	Standard																			
STD R3T	Standard																			
STD R3T	Standard																			
STD DST6 Expected		0.099	25.7	230	1.03	702	0.387	6.92	1.673	1.42	7.4	50.1	52	6.3	15.2	8.1	0.6	3	10	25.4
STD R3T Expected																				
STD MO OXIDE Expected																				
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1

QUALITY CONTROL REPORT

VAN08004976.3

		WGHT	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
G1	Prep Blank	<0.01	0.3	63.2	22.3	54	<0.1	9.1	6.1	690	2.99	1	3.9	<0.1	7.2	661	<0.1	<0.1	0.2	53	2.23
G1	Prep Blank	<0.01	0.2	28.4	24.5	55	<0.1	5.7	5.0	682	2.22	1	5.0	<0.1	8.2	678	<0.1	<0.1	0.2	49	2.23

QUALITY CONTROL REPORT

VAN08004976.3

		1EX P %	1EX La ppm	1EX Cr ppm	1EX Mg %	1EX Ba ppm	1EX Ti %	1EX Al %	1EX Na %	1EX K %	1EX W ppm	1EX Zr ppm	1EX Ce ppm	1EX Sn ppm	1EX Y ppm	1EX Nb ppm	1EX Ta ppm	1EX Be ppm	1EX Sc ppm	1EX Li ppm	1EX S %
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
G1	Prep Blank	0.076	22.2	8	0.61	848	0.208	7.44	2.460	2.84	0.2	7.9	42	2.7	13.8	17.4	1.1	3	5	42.9	<0.1
G1	Prep Blank	0.075	25.9	9	0.60	898	0.213	7.31	2.442	2.99	0.2	8.4	50	3.4	14.2	18.3	1.2	3	5	44.3	<0.1

Client: **Adanac Molybdenum Corporation**

#200, 2055 - 152nd Street
Surrey BC V4A 4N7 Canada

Submitted By: Ron MacKenzie

Receiving Lab: Acme Analytical Laboratories (Vancouver) Ltd.

Received: March 31, 2008

Report Date: May 07, 2008

Page: 1 of 4

CERTIFICATE OF ANALYSIS

VAN08004975.1

CLIENT JOB INFORMATION

Project: Ruby Creek Mine
Shipment ID: 8030390
P.O. Number
Number of Samples: 88

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT Store After 90 days Invoice for Storage

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

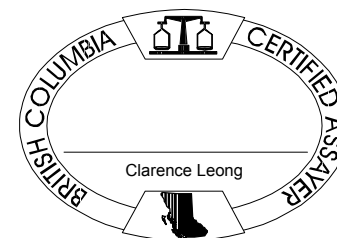
Invoice To: Adanac Molybdenum Corporation
#200, 2055 - 152nd Street
Surrey BC V4A 4N7
Canada

CC: Robert Pinsent
Michael MacLeod
Nick Bazowski

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
R150	79	Crush, split and pulverize rock to 150 mesh		
1EX	87	4 Acid digestion ICP-MS analysis	0.25	Completed

ADDITIONAL COMMENTS



CERTIFICATE OF ANALYSIS

VAN08004975.1

	Method	Analyte	Unit	MDL	WGHT	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX			
					Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
					kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
					0.01	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
648869	Rock		0.87	1.3	42.1	40.8	81	0.4	34.3	3.1	191	1.30	12	6.7	0.1	24.8	31	0.4	1.5	1.3	8	0.35		
648870	Rock		0.86	1.6	8.8	19.4	40	0.1	3.1	0.9	170	1.11	7	6.9	0.1	26.0	28	0.2	0.5	0.4	2	0.39		
648871	Rock Pulp		<0.01	2669	865.4	416.3	3533	4.9	3.9	6.3	736	3.67	1372	52.1	0.2	75.6	12	10.8	6.9	2572	<1	2.71		
648872	Rock		0.84	1.9	7.0	22.0	48	0.1	2.8	1.3	307	1.42	44	8.0	0.1	29.9	23	0.1	0.4	1.7	4	0.36		
648873	Rock		0.74	3.4	7.2	22.4	46	0.2	7.5	1.4	314	1.59	37	7.6	0.2	29.2	24	0.1	0.3	2.4	2	0.37		
648874	Rock		0.87	5.2	24.1	63.1	124	1.7	2.7	1.8	215	1.62	20	17.0	0.1	30.7	16	1.4	1.1	25.3	2	0.30		
648875 DUP REJ	Rock			6.7	21.5	57.4	114	1.5	6.9	1.7	214	1.69	21	17.3	0.2	30.3	16	1.0	1.3	24.4	1	0.30		
648876	Rock		0.71	3.6	22.5	21.3	27	0.1	2.9	1.2	137	1.18	42	16.3	0.1	36.4	17	<0.1	0.9	11.0	2	0.41		
648877	Rock		0.81	5.0	19.7	19.7	25	0.2	2.8	1.1	127	1.14	48	16.9	0.1	34.1	17	<0.1	1.5	17.4	1	0.36		
648878	Rock		0.81	5.3	31.1	29.4	29	0.2	2.1	1.3	168	1.05	31	11.4	0.1	31.3	21	<0.1	2.4	2.7	<1	0.29		
648879	Rock		0.85	9.6	50.0	75.3	196	1.9	3.5	1.3	367	1.32	21	17.8	0.1	34.5	29	2.2	3.6	4.9	3	0.27		
648880	Rock		0.83	5.5	25.5	29.1	29	0.4	2.2	1.0	227	1.24	6	18.1	0.1	39.7	26	0.1	1.2	6.8	2	0.30		
648881	Rock		0.54	6.7	33.9	23.4	18	0.2	5.7	0.8	181	0.97	11	25.9	0.1	47.1	14	0.1	1.4	6.9	<1	0.26		
648882	Rock		0.87	4.6	31.2	27.6	27	0.5	1.8	0.8	153	1.10	8	28.0	0.1	59.3	14	<0.1	1.0	1.6	<1	0.31		
648883	Rock		0.83	4.8	4.4	25.8	37	<0.1	2.8	0.8	151	1.25	1	18.1	0.2	56.2	14	0.2	0.2	3.4	<1	0.37		
648884	Rock		0.94	4.3	2.1	26.4	45	0.2	2.3	0.9	188	1.43	2	19.6	0.2	58.6	18	<0.1	0.3	1.1	<1	0.57		
648885	Rock Pulp		<0.01	413.1	1657	54.2	106	26.7	7.2	11.8	787	2.38	209	1.2	0.1	1.0	580	0.6	74.8	7.5	39	2.62		
648886	Rock		0.88	6.2	6.1	27.7	29	0.2	10.8	0.7	129	1.10	2	20.1	0.2	51.6	11	<0.1	0.5	4.2	<1	0.41		
648887	Rock		0.86	2.4	5.7	28.2	33	0.1	2.0	0.4	124	0.93	1	21.1	0.2	47.0	11	0.1	0.2	2.2	<1	0.39		
648888	Rock		0.91	4.6	8.5	26.5	30	0.1	8.9	0.7	128	0.99	3	29.8	0.2	54.3	10	<0.1	0.4	0.8	<1	0.38		
648889 DUP PULP	Rock Pulp			3.2	8.4	26.9	28	0.1	5.1	0.8	171	0.95	2	29.3	0.2	56.2	10	0.1	0.4	0.9	<1	0.40		
648890	Sand		0.58	1.9	2.0	3.3	4	<0.1	5.3	0.4	52	0.44	<1	0.8	<0.1	2.1	9	<0.1	<0.1	<0.1	<1	<0.01		
648891	Rock		0.91	4.3	6.3	29.0	36	<0.1	8.3	0.6	133	1.10	1	22.4	0.2	45.5	16	0.2	0.2	0.4	<1	0.40		
648892	Rock		0.85	2.0	4.3	30.1	34	<0.1	2.2	0.5	145	1.01	4	20.7	0.3	54.0	11	<0.1	0.6	0.4	<1	0.41		
648893	Rock		0.80	3.7	4.4	27.6	29	<0.1	5.9	0.7	140	1.04	<1	15.1	0.1	43.8	16	<0.1	0.3	0.1	<1	0.37		
648894	Rock		0.91	3.5	13.4	23.4	19	<0.1	1.5	0.6	104	0.80	11	20.7	0.2	46.7	16	<0.1	2.0	0.2	<1	0.46		
648895	Rock		0.75	4.1	31.5	21.0	16	0.2	5.8	0.5	111	0.86	4	17.5	0.2	38.3	20	<0.1	1.2	0.5	<1	0.26		
648896	Rock		0.94	3.1	2.8	26.6	30	0.1	3.2	0.7	144	1.05	1	16.5	0.2	42.4	20	<0.1	0.5	1.6	<1	0.38		
648897	Rock		0.75	2.1	10.9	29.2	34	0.1	0.9	0.6	186	1.04	3	20.5	0.1	39.2	19	0.2	0.7	1.0	<1	0.33		
648898	Rock		0.67	3.8	33.0	92.1	115	0.9	1.2	0.6	553	0.93	50	17.9	<0.1	41.4	25	1.2	10.0	2.7	<1	0.38		

CERTIFICATE OF ANALYSIS

VAN08004975.1

Method		1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX
Analyte		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
648869	Rock	0.006	54.5	30	0.43	271	0.080	6.52	2.052	4.72	2.9	43.5	112	9.1	30.0	23.4	2.0	5	2	35.6	<0.1
648870	Rock	0.004	63.8	6	0.07	303	0.064	6.24	2.168	4.21	3.7	46.6	132	4.3	33.3	21.1	2.4	6	2	30.6	<0.1
648871	Rock Pulp	0.009	184.9	5	0.03	9	0.021	2.02	0.010	0.36	>200	135.5	416	30.3	212.1	22.5	0.1	<1	4	48.9	0.6
648872	Rock	0.003	38.2	6	0.09	233	0.078	6.29	2.042	4.71	3.8	34.1	86	4.7	54.3	25.3	2.3	5	3	49.6	<0.1
648873	Rock	0.003	40.9	11	0.09	237	0.081	6.73	2.077	4.97	8.8	42.5	90	5.1	52.9	26.6	2.2	5	3	48.0	<0.1
648874	Rock	0.001	24.8	7	0.09	97	0.078	5.97	1.817	4.36	33.9	36.2	60	16.9	57.7	25.8	2.4	5	3	66.2	0.1
648875 DUP REJ	Rock	0.001	25.1	7	0.09	95	0.078	5.80	1.806	4.51	22.1	41.0	61	16.9	59.8	25.3	2.3	5	3	70.8	0.1
648876	Rock	0.007	62.9	6	0.06	134	0.071	5.82	2.003	4.63	7.2	47.7	137	6.8	62.6	25.2	2.4	4	2	42.1	<0.1
648877	Rock	0.003	55.9	7	0.06	132	0.071	5.91	1.909	4.34	4.6	38.9	119	6.0	55.5	24.2	2.4	4	2	42.6	<0.1
648878	Rock	0.002	39.1	5	0.06	167	0.061	6.05	1.971	4.71	36.4	44.6	88	6.7	50.3	23.5	2.8	5	2	34.5	0.2
648879	Rock	0.004	42.7	6	0.09	271	0.085	6.14	1.486	5.21	6.5	53.1	96	20.3	34.1	25.8	2.6	5	2	40.1	0.3
648880	Rock	0.003	43.3	6	0.07	191	0.075	6.08	1.860	4.79	32.6	61.6	96	7.5	47.7	26.0	3.0	4	1	39.0	<0.1
648881	Rock	0.002	34.2	8	0.03	56	0.050	5.87	2.299	4.08	35.9	64.5	83	5.0	81.1	27.9	3.1	7	1	28.7	<0.1
648882	Rock	<0.001	47.5	8	0.04	61	0.051	6.36	2.469	4.64	98.9	59.8	110	7.2	87.8	26.4	3.1	7	<1	43.6	0.1
648883	Rock	0.002	58.1	9	0.04	81	0.067	5.85	2.387	4.22	37.5	87.5	130	4.2	87.4	33.7	3.6	8	2	55.9	<0.1
648884	Rock	0.004	66.9	9	0.07	120	0.082	6.56	2.269	4.35	7.3	80.9	144	4.0	91.9	35.7	3.6	6	1	52.7	<0.1
648885	Rock Pulp	0.054	9.1	15	0.40	823	0.121	7.01	2.147	2.03	5.7	11.3	17	1.2	5.0	1.9	<0.1	<1	2	12.0	0.4
648886	Rock	0.002	37.0	13	0.02	81	0.044	5.96	2.631	3.71	35.6	101.2	83	5.3	109.0	40.9	4.9	7	<1	42.5	<0.1
648887	Rock	0.002	50.4	7	0.02	88	0.051	6.04	2.536	3.97	8.5	127.4	105	6.5	94.3	30.6	4.1	7	1	48.4	<0.1
648888	Rock	<0.001	42.9	11	0.02	68	0.046	5.66	2.454	3.81	26.8	118.9	95	5.2	96.6	40.3	6.0	5	1	40.0	<0.1
648889 DUP PULP	Rock Pulp	<0.001	42.9	12	0.02	70	0.047	5.93	2.545	3.89	27.4	111.0	94	6.3	96.2	42.1	5.1	6	1	43.6	<0.1
648890	Sand	<0.001	4.5	9	<0.01	116	0.013	0.56	0.105	0.51	0.2	43.3	9	0.4	6.2	2.3	0.2	<1	<1	6.5	<0.1
648891	Rock	0.002	56.4	14	0.03	161	0.050	5.83	2.408	4.23	10.1	122.0	117	5.4	85.2	32.0	3.8	8	1	45.4	<0.1
648892	Rock	0.002	43.6	7	0.03	89	0.053	5.85	2.564	4.03	8.2	123.3	96	5.2	106.4	43.7	6.5	6	1	53.0	<0.1
648893	Rock	0.006	59.1	10	0.03	144	0.051	5.84	2.483	3.88	3.8	123.2	123	4.6	78.0	32.4	3.6	7	1	37.8	<0.1
648894	Rock	0.003	43.7	7	0.03	115	0.046	5.70	2.155	4.10	4.0	98.7	95	5.5	83.6	37.1	4.8	6	1	34.9	<0.1
648895	Rock	0.003	50.2	10	0.03	207	0.049	5.45	2.331	3.55	2.9	87.1	106	5.2	64.1	30.2	4.0	7	1	27.6	<0.1
648896	Rock	0.003	50.9	9	0.04	196	0.051	5.89	2.374	3.94	16.9	98.2	110	4.3	71.0	30.5	4.7	9	1	34.3	<0.1
648897	Rock	0.002	53.9	8	0.03	181	0.054	5.66	2.396	3.76	10.0	104.7	113	4.9	72.7	33.0	3.9	8	2	32.3	<0.1
648898	Rock	0.001	54.7	7	0.04	306	0.051	5.62	2.000	4.11	6.9	92.2	113	19.9	48.9	26.9	2.4	5	1	29.2	0.3

CERTIFICATE OF ANALYSIS

VAN08004975.1

	Method Analyte Unit MDL	WGHT	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
648899	Rock	0.71	5.8	21.1	222.1	861	2.7	1.5	0.6	333	1.37	115	20.6	0.1	45.8	23	10.0	14.8	5.4	<1	0.43
648900	Rock	0.89	5.3	15.2	163.2	385	1.6	1.1	0.5	261	1.12	68	18.4	0.1	44.3	21	3.9	10.4	3.0	<1	0.38
648901 DUP REJ	Rock		6.6	15.4	174.8	421	1.7	0.9	0.5	265	1.18	81	18.6	0.1	43.8	22	4.2	10.6	3.3	<1	0.39
648902	Rock	0.87	3.2	3.4	26.2	30	0.1	0.9	0.6	125	0.92	1	14.7	0.2	31.4	24	<0.1	0.4	2.8	<1	0.40
648903	Rock	0.87	2.0	12.1	25.2	30	<0.1	0.7	0.6	129	1.01	2	15.9	<0.1	43.8	14	0.1	0.2	2.4	<1	0.44
648904	Rock	0.89	3.7	8.4	24.3	19	<0.1	0.8	0.5	116	0.85	3	17.3	<0.1	42.1	17	<0.1	0.2	1.9	2	0.42
648905	Rock	0.94	2.5	6.1	23.1	17	<0.1	1.1	0.6	152	0.91	3	16.2	<0.1	37.1	18	<0.1	0.3	2.3	4	0.40
648906	Rock	0.82	4.0	6.6	21.9	17	<0.1	0.8	0.6	141	0.88	4	20.0	<0.1	39.2	18	<0.1	0.3	0.8	4	0.41
648907	Rock	0.86	5.6	6.3	22.6	26	<0.1	1.2	0.6	231	1.03	6	16.8	<0.1	39.3	21	<0.1	0.7	2.9	3	0.47
648908	Rock	0.79	3.4	5.4	21.5	23	<0.1	1.0	0.6	207	0.99	4	16.5	<0.1	38.0	24	<0.1	0.3	0.4	5	0.43
648909	Rock	0.90	4.0	5.4	24.7	23	<0.1	0.9	0.5	194	0.89	4	19.2	<0.1	41.0	25	<0.1	0.3	0.3	2	0.52
648910	Rock	0.88	15.7	5.1	24.8	20	<0.1	0.7	0.5	185	0.81	4	18.3	<0.1	40.7	23	<0.1	0.3	0.4	5	0.51
648911 DUP PULP	Rock Pulp		3.5	4.5	23.6	21	<0.1	1.0	0.5	182	0.82	3	16.2	<0.1	37.3	23	<0.1	0.3	0.4	4	0.50
648912	Rock Pulp	<0.01	1081	8054	259.1	117	102.9	2.4	2.3	189	1.56	59	0.7	<0.1	0.6	159	0.9	237.0	9.6	30	0.59
648913	Rock	0.85	4.0	6.6	39.3	29	0.5	0.8	0.6	200	0.94	3	21.6	<0.1	42.1	24	<0.1	0.4	3.7	<1	0.44
648914	Rock	0.92	2.7	6.8	26.3	90	<0.1	1.2	0.7	198	1.07	4	21.1	<0.1	42.6	24	0.7	0.5	0.4	<1	0.44
648915	Rock	0.74	3.6	4.9	26.1	62	<0.1	1.0	0.6	240	1.06	16	19.3	<0.1	38.6	24	0.5	0.5	0.5	4	0.40
648916	Rock	0.95	3.2	4.6	26.5	147	<0.1	0.8	0.7	180	1.00	5	18.0	<0.1	37.1	23	1.5	0.3	0.7	2	0.45
648917	Sand	0.59	1.5	1.7	3.0	4	<0.1	2.1	0.4	55	0.43	1	0.8	<0.1	2.5	11	<0.1	<0.1	<0.1	<1	0.01
648918	Rock Pulp	<0.01	2575	789.1	397.0	3270	4.3	2.9	5.7	666	3.45	1195	42.8	0.1	65.7	11	8.7	6.4	2341	<1	2.44
648919	Rock	0.83	2.5	3.3	27.2	44	<0.1	0.9	0.6	151	1.01	2	17.1	<0.1	38.0	23	<0.1	0.3	0.9	<1	0.42
648920	Rock	0.96	3.4	5.2	38.2	123	0.2	0.8	0.6	169	1.03	2	15.6	<0.1	39.0	22	1.1	0.3	0.7	<1	0.43
648921	Rock	0.83	1.9	4.8	32.5	55	0.1	0.7	0.7	143	0.98	3	15.8	<0.1	36.7	22	0.4	0.4	0.4	<1	0.38
648922	Rock	0.95	4.1	12.8	32.9	45	0.1	1.0	0.6	219	1.07	2	14.5	<0.1	39.2	25	0.3	0.4	0.7	<1	0.41
648923	Rock	0.92	2.1	5.3	25.8	39	<0.1	0.9	0.7	445	1.03	4	13.3	<0.1	38.9	23	0.1	0.7	0.1	2	0.40
648924	Rock	0.86	5.6	28.3	238.8	489	2.1	1.0	0.7	861	1.22	58	18.7	<0.1	40.6	18	6.1	7.3	5.5	<1	0.41
648925	Rock	0.91	7.2	12.9	24.8	35	<0.1	0.9	0.7	192	0.95	3	17.4	<0.1	40.3	22	<0.1	0.3	0.8	<1	0.43
648926	Rock	0.85	5.2	5.0	24.4	28	<0.1	0.9	0.6	205	1.03	3	22.5	<0.1	40.5	21	<0.1	0.2	1.5	<1	0.46
648927	Rock	0.89	2.2	4.3	22.8	32	<0.1	1.0	0.6	147	1.01	1	15.1	<0.1	39.3	24	<0.1	0.2	0.9	<1	0.47
648928	Rock	0.74	2.6	2.8	21.7	34	<0.1	1.2	0.7	161	1.14	2	15.2	<0.1	36.6	24	<0.1	0.2	0.2	1	0.47

CERTIFICATE OF ANALYSIS

VAN08004975.1

		Method	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	
		Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
		Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
648899	Rock		0.001	58.1	9	0.04	252	0.056	5.74	1.950	3.77	5.5	133.5	118	31.4	67.1	27.4	2.9	5	1	44.0	0.5
648900	Rock		0.002	53.2	10	0.04	250	0.053	5.67	2.044	3.74	5.7	112.4	112	22.5	68.0	28.5	3.0	5	1	41.8	0.2
648901 DUP REJ	Rock		0.002	55.9	9	0.04	250	0.052	5.61	2.018	3.84	6.0	127.0	116	21.5	66.0	30.4	2.9	5	1	43.1	0.2
648902	Rock		0.002	55.2	7	0.03	257	0.053	5.74	2.498	3.78	51.6	108.9	115	3.7	66.5	28.2	4.2	7	1	49.7	<0.1
648903	Rock		0.002	39.2	5	0.02	108	0.043	6.29	2.507	4.09	17.4	96.6	87	3.4	95.7	37.6	4.7	5	1	47.0	<0.1
648904	Rock		0.002	33.5	5	0.02	183	0.040	6.02	2.579	3.72	25.2	86.4	71	3.0	77.9	33.4	4.0	6	<1	38.5	<0.1
648905	Rock		0.002	33.4	6	0.02	165	0.035	6.05	2.492	3.31	23.0	88.4	71	4.9	76.5	31.7	4.1	8	1	26.9	<0.1
648906	Rock		0.002	44.0	6	0.03	158	0.041	6.04	2.476	3.21	35.9	104.9	95	6.2	75.5	32.8	3.7	8	1	27.5	0.1
648907	Rock		0.003	50.1	6	0.03	207	0.049	6.06	2.453	3.48	75.3	116.8	107	7.7	81.8	36.3	4.1	6	1	29.5	<0.1
648908	Rock		0.004	54.0	8	0.03	252	0.045	6.19	2.443	3.16	4.3	94.8	116	8.0	73.8	29.6	3.3	7	1	21.1	<0.1
648909	Rock		0.003	55.9	6	0.03	232	0.047	6.14	2.360	3.28	28.3	110.9	120	9.0	72.6	31.1	4.0	7	1	23.5	<0.1
648910	Rock		0.003	54.7	5	0.03	217	0.044	6.03	2.380	3.75	28.7	94.6	117	8.9	74.2	31.2	3.6	7	1	23.8	<0.1
648911 DUP PULP	Rock Pulp		0.003	50.7	6	0.03	197	0.040	6.08	2.364	3.02	24.3	91.9	106	8.2	67.4	28.8	3.5	6	1	20.1	<0.1
648912	Rock Pulp		0.013	4.6	15	0.12	283	0.035	2.78	0.411	1.32	1.7	7.5	9	2.0	2.2	1.5	<0.1	<1	<1	7.4	0.7
648913	Rock		0.002	53.0	7	0.03	294	0.049	6.25	2.419	4.19	41.0	96.5	114	9.0	77.7	31.8	3.9	9	1	23.6	<0.1
648914	Rock		0.003	58.5	7	0.03	250	0.052	6.24	2.412	4.29	5.3	98.5	125	11.1	89.9	32.4	4.0	7	1	28.3	<0.1
648915	Rock		0.003	51.9	7	0.03	269	0.051	6.27	2.389	3.95	5.3	105.7	111	9.7	78.2	33.0	3.6	6	1	27.1	<0.1
648916	Rock		0.004	54.3	7	0.03	240	0.049	6.09	2.431	3.69	6.0	103.8	114	10.3	84.5	31.4	3.6	6	1	27.3	<0.1
648917	Sand		<0.001	5.7	5	<0.01	139	0.013	0.59	0.135	0.62	<0.1	47.8	11	0.5	8.1	3.0	0.2	<1	<1	5.9	<0.1
648918	Rock Pulp		0.010	189.1	6	0.03	9	0.016	1.77	0.009	0.35	>200	122.0	407	27.6	216.3	13.6	<0.1	<1	4	45.0	0.6
648919	Rock		0.003	46.3	6	0.03	207	0.050	6.04	2.435	3.24	15.6	90.7	97	9.9	77.3	33.5	3.4	6	1	29.4	<0.1
648920	Rock		0.003	49.7	7	0.03	221	0.051	5.92	2.392	3.12	2.5	89.5	107	10.1	76.4	29.3	3.4	5	1	26.8	<0.1
648921	Rock		0.003	52.1	6	0.03	240	0.048	6.03	2.405	3.89	5.4	93.2	109	8.7	76.5	27.5	3.9	5	1	22.8	<0.1
648922	Rock		0.003	54.8	7	0.03	266	0.051	6.33	2.409	3.97	2.5	96.4	114	8.7	86.2	32.2	3.5	5	1	22.7	<0.1
648923	Rock		0.003	55.0	6	0.04	236	0.057	6.33	2.322	4.13	3.9	88.9	115	8.9	67.8	30.7	3.2	5	1	23.2	<0.1
648924	Rock		0.002	52.8	5	0.06	214	0.047	5.81	1.080	4.08	30.1	102.5	113	26.9	63.1	29.8	3.0	5	1	42.2	0.4
648925	Rock		0.002	47.6	6	0.03	209	0.046	6.01	2.403	3.83	170.1	82.1	101	7.2	77.1	41.3	3.4	6	1	41.3	<0.1
648926	Rock		0.003	51.8	7	0.03	188	0.052	6.19	2.479	3.90	>200	102.4	110	7.3	78.9	38.9	4.2	7	2	45.7	<0.1
648927	Rock		0.003	53.6	7	0.03	214	0.056	6.40	2.694	4.16	7.3	96.4	115	8.7	89.6	35.0	4.7	8	2	52.7	<0.1
648928	Rock		0.003	53.9	9	0.03	243	0.054	6.39	2.581	3.59	7.7	98.1	113	8.1	83.6	35.7	4.4	8	2	47.9	<0.1

CERTIFICATE OF ANALYSIS

VAN08004975.1

	Method Analyte Unit MDL	WGHT	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
648929 DUP PULP	Rock Pulp		3.0	2.8	25.0	36	<0.1	1.2	0.7	158	1.12	<1	15.4	<0.1	38.8	26	<0.1	0.2	0.3	<1	0.51
648930	Rock	0.86	2.6	1.7	24.0	33	<0.1	0.6	0.7	150	0.98	6	10.5	<0.1	36.4	26	<0.1	0.2	2.9	4	0.45
648931	Rock	0.77	3.5	2.0	22.7	31	<0.1	0.9	0.6	163	1.02	<1	10.6	<0.1	35.5	26	<0.1	0.2	2.0	<1	0.42
648932	Rock	0.89	1.6	3.5	22.7	36	<0.1	1.0	0.6	171	1.00	2	20.7	<0.1	39.5	25	0.1	0.2	0.5	<1	0.46
648933	Rock	0.77	2.0	2.8	22.2	29	<0.1	0.9	0.8	159	1.05	1	21.6	<0.1	44.1	25	<0.1	0.2	<0.1	<1	0.45
648934	Rock	0.87	1.9	3.1	20.3	25	<0.1	1.0	0.8	167	1.08	1	26.8	<0.1	41.3	25	<0.1	0.2	0.1	2	0.46
648935	Rock Pulp	<0.01	411.4	1556	47.6	90	26.3	4.5	10.9	761	2.26	177	1.2	0.1	1.0	539	0.3	66.8	6.6	46	2.51
648936 DUP REJ	Rock		415.6	1610	47.7	94	26.4	5.1	12.9	795	2.32	190	1.3	0.3	1.1	559	0.4	70.3	6.9	44	2.60
648937	Rock	0.83	1.6	7.8	28.3	94	<0.1	1.1	0.6	133	1.01	2	15.1	<0.1	38.9	23	1.0	0.3	0.5	<1	0.41
648938	Rock	0.81	5.4	2.4	20.9	23	<0.1	0.7	0.6	126	0.90	<1	16.9	<0.1	41.8	24	<0.1	0.3	0.2	<1	0.42
648939	Rock	0.85	2.5	6.5	22.4	34	0.1	0.9	0.6	156	0.97	1	15.2	<0.1	43.2	27	<0.1	0.3	1.3	<1	0.42
648940	Rock	0.46	3.0	43.0	3.6	153	0.2	158.3	45.7	1254	8.09	1	1.5	<0.1	4.4	1233	0.2	0.1	<0.1	176	5.83
648941	Rock	0.81	4.1	5.0	21.6	51	0.2	0.8	0.8	172	1.19	2	17.3	<0.1	42.9	28	0.2	0.3	0.4	7	0.41
648942	Rock	0.75	2.0	1.5	20.0	34	0.1	1.3	0.8	147	0.97	<1	15.7	<0.1	38.4	33	<0.1	0.3	1.5	11	0.44
648943	Rock	0.73	1.4	1.4	19.8	35	0.1	0.9	0.8	157	1.05	2	13.3	<0.1	35.7	31	<0.1	0.2	0.5	9	0.42
648944	Rock	0.90	1.7	1.5	19.7	33	0.2	1.0	0.6	146	0.96	2	17.5	<0.1	38.8	29	<0.1	0.3	0.5	4	0.41
648945	Rock	0.78	2.3	1.2	19.4	32	<0.1	1.2	0.6	148	1.03	3	12.4	<0.1	36.1	30	<0.1	0.3	0.2	1	0.40
648946	Rock	0.82	2.5	14.6	18.8	29	0.1	0.8	0.8	175	1.04	4	17.5	<0.1	36.5	31	<0.1	0.7	0.5	9	0.42
648947	Rock	0.88	3.6	2.1	21.3	31	0.2	2.1	0.6	135	0.92	1	12.8	<0.1	33.0	33	<0.1	0.3	0.2	24	0.43
648948	Rock	0.85	5.4	1.7	21.4	35	<0.1	3.2	0.7	173	1.00	1	14.2	<0.1	37.0	30	<0.1	0.3	0.3	19	0.43
648949	Rock	0.86	5.5	3.1	17.7	26	0.2	2.3	0.7	223	0.91	5	20.5	<0.1	35.9	29	<0.1	0.4	0.3	11	0.37
648950	Rock Pulp	<0.01	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
648951	Rock	0.80	3.0	1.6	19.0	34	0.1	2.0	0.6	192	1.03	3	14.1	<0.1	36.7	31	<0.1	0.3	0.3	<1	0.44
648952	Rock	0.84	3.0	1.8	18.9	36	<0.1	3.0	0.8	184	1.02	4	12.9	<0.1	37.8	29	<0.1	0.4	0.6	2	0.41
648953	Rock	0.76	2.8	4.6	18.6	23	<0.1	1.6	0.6	187	0.92	6	13.9	<0.1	34.1	32	<0.1	0.8	0.2	5	0.39
648954	Rock	0.83	3.4	9.7	18.9	54	0.1	2.5	0.8	198	0.98	6	13.7	<0.1	32.0	31	0.4	0.7	0.3	14	0.35
648955	Rock	0.79	2.4	4.3	19.1	48	<0.1	1.3	0.7	195	0.98	3	13.0	<0.1	38.2	31	0.4	0.3	0.6	<1	0.39
648956	Rock	0.82	3.8	4.2	19.3	32	0.1	6.1	0.8	197	0.95	5	14.1	<0.1	35.0	27	0.1	0.3	0.4	8	0.40

CERTIFICATE OF ANALYSIS

VAN08004975.1

Method Analyte Unit MDL		1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1
648929 DUP PULP	Rock Pulp	0.003	56.8	8	0.03	260	0.056	6.41	2.571	3.38	9.2	104.0	119	9.6	83.3	36.2	4.6	9	2	50.2	<0.1
648930	Rock	0.003	53.1	7	0.03	276	0.052	6.25	2.525	3.21	5.9	80.7	112	7.5	83.1	33.7	3.9	7	2	48.5	<0.1
648931	Rock	0.003	50.2	7	0.03	242	0.052	6.25	2.496	4.25	10.7	82.8	107	6.7	76.9	34.0	3.3	13	1	50.6	<0.1
648932	Rock	0.004	54.1	7	0.03	261	0.056	6.25	2.524	4.11	3.2	77.9	114	8.4	72.5	35.8	3.5	6	1	55.7	<0.1
648933	Rock	0.003	53.8	7	0.03	223	0.056	6.31	2.629	3.99	2.4	101.8	115	7.1	78.9	32.6	3.8	6	2	43.6	<0.1
648934	Rock	0.003	50.5	8	0.03	234	0.056	6.14	2.500	3.43	4.8	91.9	109	7.2	72.3	31.4	3.6	7	1	38.6	<0.1
648935	Rock Pulp	0.048	10.4	14	0.39	737	0.118	6.87	2.066	1.98	4.4	10.5	18	1.2	5.7	1.7	<0.1	<1	3	9.5	0.4
648936 DUP REJ	Rock	0.048	10.8	14	0.42	773	0.120	7.07	2.117	2.14	4.7	9.9	18	1.2	5.9	1.9	<0.1	<1	3	8.6	0.4
648937	Rock	0.003	53.0	8	0.03	224	0.051	5.94	2.406	2.83	3.5	88.2	114	8.8	72.2	27.6	3.3	7	1	27.2	<0.1
648938	Rock	0.003	48.5	7	0.03	212	0.054	5.94	2.405	3.24	3.9	83.8	103	5.3	67.7	31.6	3.3	6	2	34.3	<0.1
648939	Rock	0.003	47.3	7	0.04	221	0.055	5.92	2.507	3.88	13.6	78.8	93	7.0	81.7	27.3	3.1	5	1	49.7	<0.1
648940	Rock	0.381	45.2	209	4.88	544	1.348	7.45	2.585	1.39	0.9	182.6	81	2.0	20.7	54.1	2.2	2	14	7.8	<0.1
648941	Rock	0.004	69.6	6	0.05	250	0.076	5.70	2.477	3.93	3.1	99.9	145	8.7	85.4	30.1	3.0	6	2	62.9	<0.1
648942	Rock	0.003	49.3	7	0.04	308	0.063	5.85	2.534	3.84	3.3	82.8	108	7.7	89.6	28.1	2.7	6	1	59.8	<0.1
648943	Rock	0.003	47.1	3	0.04	308	0.061	6.19	2.627	4.00	3.0	71.4	99	7.9	83.4	28.8	2.8	6	1	60.6	<0.1
648944	Rock	0.003	46.6	6	0.04	282	0.060	5.81	2.551	3.96	3.2	66.2	94	8.4	71.3	25.9	3.0	7	1	58.1	<0.1
648945	Rock	0.003	43.5	7	0.04	292	0.059	6.04	2.603	4.31	3.3	74.0	89	7.5	78.9	29.2	2.8	9	1	55.5	<0.1
648946	Rock	0.002	48.6	7	0.04	301	0.056	5.81	2.342	4.06	4.5	74.6	100	15.1	71.4	29.8	3.2	9	2	35.6	0.2
648947	Rock	0.004	45.3	7	0.04	328	0.058	6.01	2.550	4.11	4.4	74.5	94	4.1	77.6	30.3	4.1	7	2	57.7	<0.1
648948	Rock	0.004	52.2	8	0.04	282	0.062	6.00	2.523	4.23	37.7	77.5	103	4.0	76.9	30.2	3.8	9	2	49.5	<0.1
648949	Rock	0.005	50.7	8	0.04	255	0.062	5.62	2.504	3.77	4.4	73.9	107	5.6	71.4	26.4	2.8	5	2	29.3	<0.1
648950	Rock Pulp	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
648951	Rock	0.006	52.8	8	0.05	274	0.069	5.80	2.488	3.98	3.1	82.3	109	5.7	80.6	31.5	3.4	9	2	42.7	<0.1
648952	Rock	0.004	47.8	8	0.04	266	0.064	5.88	2.509	3.81	3.2	82.5	100	5.4	79.7	30.0	2.8	4	2	47.9	<0.1
648953	Rock	0.004	48.8	7	0.05	345	0.056	5.87	2.458	4.05	2.4	71.5	104	5.7	77.7	33.3	2.4	6	1	26.1	<0.1
648954	Rock	0.004	51.7	8	0.05	273	0.056	5.93	2.541	3.90	2.8	82.6	111	6.4	68.1	29.0	2.6	6	1	21.5	<0.1
648955	Rock	0.003	51.1	7	0.04	273	0.059	5.94	2.522	3.99	1.8	92.9	105	6.4	73.6	31.3	2.5	8	1	23.5	<0.1
648956	Rock	0.003	44.2	10	0.04	269	0.054	5.71	2.384	4.02	2.9	78.4	96	4.6	71.5	25.8	2.5	6	1	24.2	<0.1

QUALITY CONTROL REPORT

VAN08004975.1

	Method	WGHT	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
Pulp Duplicates																					
648886	Rock	0.88	6.2	6.1	27.7	29	0.2	10.8	0.7	129	1.10	2	20.1	0.2	51.6	11	<0.1	0.5	4.2	<1	0.41
REP 648886	QC		5.0	5.1	27.6	29	0.1	7.0	0.6	127	1.03	1	21.8	0.2	53.1	11	<0.1	0.4	4.2	<1	0.38
648924	Rock	0.86	5.6	28.3	238.8	489	2.1	1.0	0.7	861	1.22	58	18.7	<0.1	40.6	18	6.1	7.3	5.5	<1	0.41
REP 648924	QC		6.2	27.9	246.0	511	2.1	0.9	0.7	883	1.27	59	19.2	<0.1	40.0	18	5.8	7.3	5.7	2	0.41
Reference Materials																					
STD DST6	Standard		11.2	128.0	31.5	169	0.3	27.9	12.4	903	3.69	23	7.1	<0.1	6.4	304	6.7	5.4	5.0	115	2.04
STD DST6	Standard		12.3	128.9	34.6	176	0.3	30.1	13.4	952	3.78	25	7.2	<0.1	6.4	314	6.4	5.2	4.9	111	2.14
STD DST6	Standard		12.7	143.2	38.2	187	0.4	30.8	15.2	957	3.97	22	8.3	<0.1	6.4	318	6.5	5.3	5.2	110	2.23
STD DST6	Standard		12.3	138.1	40.4	181	0.4	31.5	14.4	965	3.98	24	8.4	0.3	6.9	315	6.5	5.9	5.6	107	2.24
STD DST6	Standard		11.8	126.5	32.7	159	0.2	30.6	14.2	929	3.83	25	7.6	<0.1	6.9	302	6.2	5.1	4.8	103	2.14
STD DST6	Standard		11.9	128.4	34.4	166	0.3	29.1	14.3	927	3.68	22	7.3	<0.1	6.4	302	6.2	5.1	4.6	98	2.12
STD DST6 Expected			12.7	129.7	36.7	176	0.365	30.4	13.7	980	3.91	24.3	7.8	0	6.9	298	5.6	5.39	4.7	115	2.26
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
Prep Wash																					
G1	Prep Blank	<0.01	1.1	10.5	23.5	56	0.2	8.7	6.3	766	2.48	<1	4.1	0.1	7.0	700	<0.1	<0.1	0.2	59	2.45
G1	Prep Blank	<0.01	1.5	8.9	23.8	60	0.2	10.4	6.3	784	2.54	<1	3.8	<0.1	7.1	710	<0.1	<0.1	0.2	62	2.45

QUALITY CONTROL REPORT

VAN08004975.1

		Method	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	
		Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
		Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
Pulp Duplicates																						
648886	Rock		0.002	37.0	13	0.02	81	0.044	5.96	2.631	3.71	35.6	101.2	83	5.3	109.0	40.9	4.9	7	<1	42.5	<0.1
REP 648886	QC		0.002	38.1	11	0.02	83	0.044	5.67	2.591	3.63	34.6	111.4	85	5.0	113.3	43.5	5.0	8	<1	40.8	<0.1
648924	Rock		0.002	52.8	5	0.06	214	0.047	5.81	1.080	4.08	30.1	102.5	113	26.9	63.1	29.8	3.0	5	1	42.2	0.4
REP 648924	QC		0.002	52.7	5	0.06	219	0.047	6.03	1.125	3.92	29.3	104.1	112	26.3	63.7	29.3	3.0	5	1	44.7	0.4
Reference Materials																						
STD DST6	Standard		0.089	24.7	207	1.00	663	0.344	6.50	1.582	1.51	7.4	55.9	50	6.0	15.0	9.3	0.4	2	11	25.2	<0.1
STD DST6	Standard		0.092	26.5	230	1.02	621	0.362	7.06	1.589	1.47	7.6	58.9	51	6.2	15.3	10.1	0.4	3	10	25.6	<0.1
STD DST6	Standard		0.093	23.1	248	1.09	675	0.373	7.13	1.699	1.48	10.1	64.8	49	6.4	14.8	10.3	0.5	3	10	30.1	<0.1
STD DST6	Standard		0.092	23.9	256	1.08	680	0.376	7.03	1.626	1.49	8.3	72.4	51	6.7	14.3	9.7	0.5	3	11	29.3	<0.1
STD DST6	Standard		0.095	27.3	231	1.02	616	0.375	6.99	1.710	1.48	7.4	63.8	54	5.6	15.4	10.0	0.4	3	10	27.1	<0.1
STD DST6	Standard		0.094	26.9	229	1.01	628	0.361	6.97	1.587	1.40	7.3	57.4	52	5.6	15.8	9.6	0.4	3	10	22.6	<0.1
STD DST6 Expected			0.099	25.7	230	1.03	702	0.387	6.92	1.673	1.42	7.4	50.1	52	6.3	15.2	8.11	0.6	3.3	10.1	25.4	
BLK	Blank		<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank		<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank		<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
Prep Wash																						
G1	Prep Blank		0.081	21.2	14	0.69	959	0.238	8.20	2.617	3.12	0.6	11.0	47	1.7	14.1	24.0	1.3	3	5	42.2	0.1
G1	Prep Blank		0.082	21.3	15	0.69	976	0.248	8.31	2.606	3.25	0.3	11.7	48	1.5	16.3	25.5	1.5	3	5	39.1	0.1

Client: **Adanac Molybdenum Corporation**
#200, 2055 - 152nd Street
Surrey BC V4A 4N7 Canada

Submitted By: Ruby Creek Mine -Email Distribution List
Receiving Lab: Canada-Vancouver
Received: May 05, 2008
Report Date: October 08, 2008
Page: 1 of 5

CERTIFICATE OF ANALYSIS

VAN08005655.2

CLIENT JOB INFORMATION

Project: Ruby Creek Mine
Shipment ID: 8040393
P.O. Number
Number of Samples: 109

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Adanac Molybdenum Corporation
#200, 2055 - 152nd Street
Surrey BC V4A 4N7
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
R150	103	Crush split and pulverize drill core to 150mesh		
1EX	109	4 Acid digestion ICP-MS analysis	0.25	Completed
Mo/Ox	15	Mo in oxide form, 30% HCL leach	1	Completed

ADDITIONAL COMMENTS

Version 2: Group 8 Mo/Ox included



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.

CERTIFICATE OF ANALYSIS

VAN08005655.2

	Method	WGHT	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
69701	Drill Core	0.50	37.0	6.7	23.0	67	<0.1	3.7	0.9	260	0.95	5	15.8	<0.1	33.0	37	0.4	0.2	1.4	<1	0.43
69702	Drill Core	0.46	92.4	24.1	24.1	154	<0.1	2.7	0.8	195	1.00	4	16.3	<0.1	35.1	32	1.0	0.3	1.9	<1	0.34
69703	Drill Core	0.50	38.5	13.8	24.8	107	<0.1	2.0	0.8	309	0.90	5	17.7	<0.1	38.0	37	0.5	0.2	1.0	1	0.41
69704	Drill Core	0.49	391.8	12.9	28.4	85	<0.1	1.6	0.8	191	0.97	14	16.0	<0.1	39.1	36	0.2	0.4	2.4	1	0.41
69705	Drill Core	0.52	114.9	57.3	42.2	180	0.6	2.2	0.8	213	1.16	30	18.6	<0.1	38.7	31	1.8	0.8	3.2	1	0.45
69706	Drill Core	0.46	392.8	1629	48.4	90	26.9	4.5	11.3	782	2.19	224	1.3	0.2	1.0	605	0.6	72.8	6.4	38	2.61
69707	Drill Core	0.54	80.1	90.8	113.3	816	1.4	2.3	1.0	644	0.96	218	18.4	<0.1	35.8	22	13.1	1.3	4.5	<1	0.43
69708	Drill Core	0.48	123.2	55.5	24.4	681	0.2	2.8	0.8	276	1.09	3	17.5	<0.1	33.6	34	10.4	0.4	4.5	4	0.45
69709	Drill Core	0.56	135.6	5.5	20.8	47	<0.1	1.6	0.8	256	0.84	<1	15.5	<0.1	31.4	34	0.3	0.2	1.7	2	0.42
69710	Drill Core	0.40	124.0	8.8	22.1	57	<0.1	2.2	0.8	279	0.80	8	19.2	<0.1	38.6	33	0.2	0.2	2.7	1	0.42
69711	Drill Core	0.37	102.4	3.6	22.1	49	<0.1	2.4	0.8	388	0.89	1	17.8	<0.1	37.8	36	0.1	0.2	0.5	2	0.43
69712	Sand	0.37	1.3	1.3	3.0	3	<0.1	1.3	0.3	39	0.31	<1	0.8	<0.1	2.0	11	<0.1	<0.1	<0.1	<1	0.01
69713	Drill Core	0.58	43.3	93.0	20.1	1349	0.2	2.2	1.1	253	1.17	29	14.1	<0.1	30.2	22	21.2	4.9	4.0	<1	0.45
69714	Drill Core	0.68	66.2	39.3	41.0	327	0.2	2.0	0.8	343	1.07	37	15.1	<0.1	33.7	31	4.4	0.9	2.1	<1	0.45
69715	Drill Core	0.43	46.5	3.6	26.2	48	<0.1	1.4	0.8	381	1.03	2	16.4	<0.1	32.7	35	0.2	0.4	0.4	<1	0.42
69716	Drill Core	0.42	65.8	2.6	28.1	35	<0.1	2.0	0.8	282	0.90	4	16.4	<0.1	35.3	36	0.1	0.2	0.4	<1	0.42
69717	Drill Core	0.51	43.8	4.4	26.2	38	<0.1	2.0	0.8	279	0.98	3	14.2	<0.1	34.0	35	<0.1	0.2	0.5	<1	0.44
69718	Rock Pulp	0.02	1074	8114	283.1	121	111.3	2.6	2.6	202	1.60	70	0.8	<0.1	0.7	177	0.7	268.1	11.5	25	0.61
69719	Drill Core	0.62	48.8	18.9	22.0	29	<0.1	1.1	0.8	237	0.89	<1	13.2	<0.1	33.0	36	0.1	0.3	1.3	2	0.43
69720	Drill Core	0.55	96.2	116.6	36.4	67	0.4	2.2	0.9	810	1.17	12	17.1	<0.1	42.2	28	0.6	0.4	2.7	2	0.40
69721	Drill Core	0.52	121.3	19.5	26.5	32	<0.1	1.9	0.6	171	0.78	4	23.8	<0.1	43.6	14	<0.1	0.6	8.1	<1	0.36
69722	Drill Core	0.43	86.0	18.6	27.2	50	<0.1	1.0	0.6	157	0.87	14	22.7	<0.1	47.2	13	0.5	0.7	6.0	<1	0.37
69723	Drill Core	0.51	79.8	35.6	35.2	37	0.1	1.8	0.6	270	0.84	37	22.9	<0.1	44.2	18	0.4	0.6	4.5	<1	0.36
69724	Drill Core	0.59	94.0	33.1	41.7	42	0.2	1.7	0.6	270	0.84	25	23.0	<0.1	48.0	19	0.4	0.7	6.6	<1	0.37
69725	Drill Core	0.61	452.6	20.0	26.9	27	<0.1	1.0	0.6	181	0.81	5	22.1	<0.1	46.9	16	<0.1	0.4	5.1	<1	0.38
69726	Drill Core	0.47	80.5	7.3	58.0	128	0.2	1.9	0.6	204	0.85	30	21.3	<0.1	45.8	14	1.3	1.1	7.5	<1	0.34
69727	Drill Core	0.62	127.1	12.9	29.6	22	<0.1	2.2	0.6	155	0.88	8	25.2	0.2	54.7	14	0.2	1.2	6.9	3	0.37
69728	Drill Core	0.48	31.2	131.0	34.4	34	0.7	1.5	0.5	136	0.87	50	23.2	0.2	50.7	14	0.3	3.2	4.4	2	0.35
69729	Drill Core	0.49	112.8	14.4	41.6	40	<0.1	2.4	0.7	143	0.88	10	25.6	0.2	51.9	14	0.4	2.1	4.6	<1	0.39
69730	Sand	0.28	1.8	1.2	3.9	3	<0.1	3.8	0.4	43	0.37	<1	0.9	<0.1	2.4	12	0.1	0.5	<0.1	2	<0.01

CERTIFICATE OF ANALYSIS

VAN08005655.2

Method		1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX
Analyte		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
69701	Drill Core	0.005	50.7	4	0.06	347	0.063	6.21	2.274	3.26	1.5	64.5	105	3.8	50.5	30.5	3.2	7	2	28.4	<0.1
69702	Drill Core	0.005	47.4	4	0.05	348	0.054	5.70	1.960	3.81	3.0	68.2	99	13.7	40.8	27.2	2.6	7	1	24.6	0.1
69703	Drill Core	0.005	53.0	3	0.05	414	0.061	6.29	2.220	4.23	1.7	69.5	107	4.3	48.2	28.7	2.7	6	2	26.9	<0.1
69704	Drill Core	0.006	53.3	4	0.05	389	0.060	6.07	2.172	4.28	1.9	75.3	111	5.1	50.5	26.3	2.6	6	2	27.6	<0.1
69705	Drill Core	0.005	48.4	5	0.05	347	0.060	5.98	1.976	4.01	2.7	57.8	102	22.2	43.4	25.5	2.5	7	2	26.6	0.3
69706	Drill Core	0.048	8.5	10	0.40	794	0.116	6.97	2.197	2.11	4.8	11.3	16	1.2	5.3	1.9	<0.1	<1	2	11.3	0.4
69707	Drill Core	0.006	52.4	3	0.06	341	0.056	5.72	1.399	4.11	5.7	64.5	109	54.3	37.4	28.6	2.4	11	2	29.1	0.4
69708	Drill Core	0.005	49.8	4	0.05	390	0.058	5.87	2.029	3.78	2.8	66.5	105	21.9	45.9	28.8	2.7	6	1	27.4	0.3
69709	Drill Core	0.005	46.2	5	0.05	352	0.065	5.56	2.120	3.30	1.2	63.5	97	3.8	47.4	26.7	2.4	4	2	25.2	<0.1
69710	Drill Core	0.004	43.3	3	0.05	344	0.054	6.01	2.253	4.16	1.8	57.9	93	3.3	51.5	28.8	2.7	5	1	23.8	<0.1
69711	Drill Core	0.004	46.6	3	0.06	359	0.064	6.08	2.247	3.90	1.4	60.0	97	2.5	53.0	27.6	2.6	4	1	20.4	<0.1
69712	Sand	0.001	4.7	2	<0.01	134	0.012	0.57	0.125	0.59	0.1	41.0	9	0.4	6.6	2.5	0.1	<1	<1	5.6	<0.1
69713	Drill Core	0.005	42.6	3	0.06	346	0.059	5.67	0.891	4.30	5.8	54.7	91	42.3	38.9	24.9	2.3	9	1	49.7	0.7
69714	Drill Core	0.005	54.0	3	0.06	419	0.058	6.31	2.128	4.55	3.7	63.8	114	24.9	44.9	26.8	2.9	8	2	28.3	0.3
69715	Drill Core	0.005	50.8	4	0.06	362	0.071	6.00	2.228	4.57	1.8	63.8	107	3.9	54.8	30.5	3.3	6	2	30.7	<0.1
69716	Drill Core	0.005	51.5	4	0.05	402	0.061	6.12	2.283	4.37	1.7	62.4	108	2.2	48.0	28.5	3.1	6	2	27.0	<0.1
69717	Drill Core	0.006	55.6	4	0.07	399	0.069	6.12	2.255	4.59	1.7	61.1	115	2.9	47.2	29.9	3.5	6	2	39.5	<0.1
69718	Rock Pulp	0.014	4.6	13	0.14	326	0.039	2.79	0.472	1.52	2.4	6.9	9	1.9	2.1	2.0	<0.1	<1	<1	9.8	0.7
69719	Drill Core	0.005	48.3	4	0.06	404	0.065	5.92	2.134	3.14	1.5	57.7	99	2.5	41.4	24.6	2.5	5	2	29.9	<0.1
69720	Drill Core	0.004	63.6	4	0.06	304	0.077	6.22	2.120	3.85	2.2	87.9	132	8.6	54.5	27.2	2.7	6	2	34.5	<0.1
69721	Drill Core	<0.001	40.0	3	0.03	82	0.036	5.69	2.158	4.34	2.6	51.4	90	5.1	68.5	32.6	3.5	5	<1	19.8	<0.1
69722	Drill Core	0.002	41.3	3	0.03	71	0.040	5.75	2.219	4.48	4.0	62.6	95	5.3	76.7	37.8	4.6	7	<1	21.7	<0.1
69723	Drill Core	0.002	38.8	3	0.03	157	0.043	5.86	2.243	4.24	3.6	68.1	88	7.4	69.6	32.2	3.7	8	<1	33.8	<0.1
69724	Drill Core	0.002	40.6	3	0.03	186	0.042	6.12	2.308	4.60	3.2	61.8	91	7.8	71.1	32.6	3.8	12	1	40.2	<0.1
69725	Drill Core	0.002	48.5	3	0.03	115	0.044	6.21	2.411	4.35	2.0	65.9	106	4.8	66.2	32.5	4.5	7	1	24.2	<0.1
69726	Drill Core	0.002	45.9	3	0.04	106	0.039	5.82	2.214	4.31	2.2	82.9	104	6.1	69.3	28.7	3.9	6	1	22.8	<0.1
69727	Drill Core	0.002	50.2	5	0.05	76	0.055	6.26	2.573	4.23	2.4	85.3	102	2.4	108.0	32.5	3.9	7	<1	26.6	<0.1
69728	Drill Core	0.002	46.7	4	0.05	76	0.045	6.00	2.123	3.85	33.9	69.8	95	4.5	95.0	35.2	4.0	7	1	29.1	0.1
69729	Drill Core	0.002	48.2	4	0.04	81	0.049	6.01	2.192	4.26	3.8	69.4	98	3.0	95.8	33.9	3.6	8	1	28.4	<0.1
69730	Sand	0.002	5.1	3	<0.01	135	0.015	0.56	0.131	0.59	0.1	49.3	10	0.5	7.9	2.5	<0.1	<1	<1	5.8	<0.1

CERTIFICATE OF ANALYSIS

VAN08005655.2

	Method	WGHT	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	0.1	1	0.1	0.1	0.1	1
69731	Drill Core	0.47	46.6	20.6	71.4	68	0.3	1.6	0.7	179	1.01	20	26.1	0.2	52.4	16	0.9	3.7	3.4	2
69732	Drill Core	0.41	13.9	75.5	28.5	483	0.3	2.0	0.7	296	1.27	4	24.7	0.2	50.1	12	7.0	1.4	14.1	<1
69733	Drill Core	0.43	24.3	31.5	25.5	32	<0.1	1.2	0.4	141	0.81	1	20.7	0.2	49.7	15	0.2	0.7	1.0	<1
69734	Drill Core	0.53	15.9	23.5	26.1	39	<0.1	1.9	0.5	128	0.75	<1	22.5	<0.1	47.6	13	0.2	0.4	2.4	<1
69735	Drill Core	0.55	47.0	17.5	23.5	29	<0.1	1.4	0.5	170	0.83	<1	20.0	<0.1	46.7	12	0.1	0.3	3.8	<1
69736	Rock Pulp	0.02	431.3	5391	7.5	52	1.8	2.3	2.5	446	1.01	6	0.9	<0.1	0.9	487	0.2	7.8	0.8	52
69737	Drill Core	0.52	67.8	14.9	22.8	27	<0.1	2.2	0.6	174	0.87	<1	18.3	<0.1	45.9	13	<0.1	0.2	2.6	<1
69738	Drill Core	0.51	33.4	9.0	21.9	79	<0.1	0.9	0.5	140	0.80	<1	18.0	<0.1	41.9	10	0.8	0.2	3.0	<1
69739	Drill Core	0.52	36.2	4.0	22.8	42	<0.1	1.5	0.4	143	0.79	<1	18.3	<0.1	43.9	9	0.2	<0.1	1.4	<1
69740	Drill Core	0.46	15.5	121.3	22.2	144	0.2	0.5	0.5	162	0.81	<1	21.3	<0.1	44.7	12	1.8	<0.1	1.9	<1
69741	Drill Core	0.51	230.3	51.8	24.2	65	0.1	1.2	0.5	191	0.88	<1	21.8	<0.1	47.1	12	0.4	<0.1	3.4	<1
69742	Drill Core	0.48	423.8	40.9	22.7	100	<0.1	2.1	0.5	190	0.86	<1	20.8	<0.1	45.1	11	0.9	<0.1	2.6	<1
69743	Drill Core	0.47	66.0	4.5	22.4	28	<0.1	0.4	0.4	202	0.79	<1	22.0	<0.1	46.3	10	<0.1	<0.1	3.7	<1
69744	Drill Core	0.49	31.6	2.6	22.5	23	<0.1	1.0	0.4	181	0.75	1	20.6	<0.1	42.7	11	<0.1	0.1	2.1	<1
69745	Drill Core	0.47	39.7	20.9	23.4	27	<0.1	0.9	0.5	201	0.85	<1	21.0	<0.1	47.9	13	<0.1	<0.1	1.0	<1
69746	Drill Core	0.50	42.1	7.9	23.5	23	<0.1	0.3	0.5	232	0.82	<1	20.6	<0.1	45.4	13	<0.1	0.1	3.2	<1
69747	Drill Core	0.57	54.2	7.5	21.8	22	<0.1	2.3	0.8	184	0.87	<1	20.3	<0.1	43.8	13	<0.1	<0.1	5.7	<1
69748	Sand	0.25	1.0	0.7	3.2	3	<0.1	2.1	0.2	38	0.31	<1	0.5	<0.1	2.2	8	<0.1	<0.1	<0.1	<0.01
69749	Drill Core	0.51	57.3	21.6	22.6	28	<0.1	0.4	0.5	159	0.85	<1	19.1	<0.1	42.0	14	<0.1	0.2	2.7	<1
69750	Drill Core	0.44	75.3	5.4	21.3	27	<0.1	1.2	0.5	123	0.85	<1	25.6	<0.1	44.4	12	<0.1	0.1	2.9	<1
69751	Drill Core	0.53	29.4	88.1	28.5	26	0.2	1.0	0.8	211	1.09	<1	21.8	<0.1	41.0	13	0.1	0.7	13.6	<1
69752	Drill Core	0.50	36.6	4.6	21.0	25	<0.1	0.2	0.4	155	0.81	<1	18.7	<0.1	43.2	12	<0.1	<0.1	1.6	<1
69753	Drill Core	0.57	60.6	44.9	15.2	20	0.2	1.4	0.6	171	0.99	<1	22.5	<0.1	44.5	18	<0.1	<0.1	5.0	<1
69754	Rock Pulp	0.02	400.0	1612	48.5	101	27.1	4.1	11.5	798	2.34	188	1.1	0.2	1.1	588	0.3	72.5	7.5	36
69755	Drill Core	0.43	25.6	33.7	12.9	21	<0.1	1.3	0.5	150	0.85	<1	17.5	<0.1	39.7	21	<0.1	0.1	2.6	<1
69756	Drill Core	0.48	133.4	31.9	14.3	30	<0.1	0.3	0.6	210	0.94	<1	19.6	<0.1	42.9	31	<0.1	0.2	6.1	<1
69757	Drill Core	0.51	23.1	20.2	14.8	24	<0.1	0.7	0.5	177	0.88	<1	14.9	<0.1	33.9	29	<0.1	0.2	2.4	<1
69758	Drill Core	0.49	95.8	24.3	19.2	25	<0.1	1.5	0.7	211	0.98	1	15.5	<0.1	35.1	31	<0.1	0.2	5.3	<1
69759	Drill Core	0.62	83.5	57.0	18.4	31	<0.1	0.6	0.9	250	1.26	2	16.5	<0.1	37.1	31	0.1	0.3	5.8	<1
69760	Drill Core	0.59	83.3	54.4	18.0	33	<0.1	1.5	0.7	246	1.24	1	15.5	<0.1	34.5	33	0.1	0.2	3.4	<1

CERTIFICATE OF ANALYSIS

VAN08005655.2

	Method Analyte Unit MDL	1EX P %	1EX La ppm	1EX Cr ppm	1EX Mg %	1EX Ba ppm	1EX Ti %	1EX Al %	1EX Na %	1EX K %	1EX W ppm	1EX Zr ppm	1EX Ce ppm	1EX Sn ppm	1EX Y ppm	1EX Nb ppm	1EX Ta ppm	1EX Be ppm	1EX Sc ppm	1EX Li ppm	1EX S %
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
69731	Drill Core	0.002	45.7	4	0.09	133	0.045	6.52	1.189	4.49	4.1	74.2	91	6.0	80.9	38.9	4.0	6	<1	54.4	<0.1
69732	Drill Core	0.003	47.6	5	0.03	81	0.045	5.83	1.845	3.69	10.9	73.7	95	32.8	85.9	30.5	3.8	7	<1	30.3	0.3
69733	Drill Core	0.001	47.3	3	0.03	78	0.044	6.12	2.597	3.99	2.5	66.0	93	3.1	77.9	31.8	4.1	8	<1	19.5	<0.1
69734	Drill Core	<0.001	40.3	23	0.02	91	0.038	5.85	2.375	4.02	2.5	53.1	87	5.3	62.9	40.1	4.0	6	<1	23.7	<0.1
69735	Drill Core	<0.001	45.8	23	0.02	77	0.043	5.66	2.347	3.91	2.2	55.7	95	2.7	61.1	33.3	3.2	6	<1	25.8	<0.1
69736	Rock Pulp	0.033	6.4	19	0.29	511	0.085	7.81	2.244	1.99	2.3	12.1	13	1.7	4.3	1.4	<0.1	<1	2	11.5	0.5
69737	Drill Core	0.001	48.5	16	0.03	86	0.045	5.65	2.512	3.74	2.4	58.4	102	3.0	61.5	28.6	3.8	6	<1	27.7	<0.1
69738	Drill Core	<0.001	41.9	15	0.02	56	0.041	5.35	2.166	3.81	2.1	56.3	86	4.7	67.8	26.7	3.1	5	<1	24.9	<0.1
69739	Drill Core	<0.001	43.0	16	0.02	46	0.041	5.46	2.230	3.86	1.5	51.6	91	2.5	70.4	25.6	3.1	5	<1	22.8	<0.1
69740	Drill Core	<0.001	43.6	16	0.02	51	0.039	5.55	2.329	3.68	2.7	61.1	91	7.9	68.2	30.9	3.3	6	<1	25.3	<0.1
69741	Drill Core	0.002	42.3	17	0.02	60	0.046	5.68	2.356	4.00	2.9	58.5	88	4.4	74.4	29.1	4.0	6	<1	30.3	<0.1
69742	Drill Core	<0.001	40.7	16	0.02	66	0.045	5.68	2.227	3.98	2.4	54.6	86	5.2	73.1	29.1	4.0	7	<1	28.9	<0.1
69743	Drill Core	0.001	42.8	13	0.02	55	0.047	5.45	2.276	3.73	1.9	81.8	90	1.7	78.5	26.6	3.1	6	<1	34.5	<0.1
69744	Drill Core	0.001	42.4	11	0.03	64	0.042	5.64	2.376	3.72	2.1	70.0	89	1.5	65.9	32.0	3.8	7	<1	34.5	<0.1
69745	Drill Core	<0.001	47.6	12	0.03	71	0.046	5.81	2.381	3.87	11.8	74.4	96	1.5	67.7	37.2	4.3	5	<1	33.7	<0.1
69746	Drill Core	<0.001	50.3	14	0.03	74	0.045	5.66	2.316	3.81	2.3	62.0	106	1.7	69.1	34.3	3.1	6	<1	23.8	<0.1
69747	Drill Core	<0.001	47.5	18	0.03	57	0.043	5.33	2.249	3.55	6.6	64.5	100	1.9	61.6	31.8	3.1	5	<1	27.0	<0.1
69748	Sand	<0.001	4.5	12	<0.01	112	0.013	0.55	0.114	0.53	<0.1	42.5	8	0.3	6.1	2.5	0.2	<1	<1	5.1	<0.1
69749	Drill Core	<0.001	46.4	16	0.03	81	0.043	5.68	2.133	3.77	2.3	59.6	97	2.3	67.2	31.0	3.3	6	<1	31.6	<0.1
69750	Drill Core	<0.001	45.2	15	0.02	63	0.044	5.40	2.161	3.66	2.4	60.6	93	3.0	63.5	24.2	2.9	5	<1	18.8	<0.1
69751	Drill Core	<0.001	38.5	14	0.02	79	0.039	5.73	2.117	3.62	5.5	58.8	82	17.2	61.9	34.6	3.8	6	1	25.7	0.3
69752	Drill Core	<0.001	42.8	11	0.02	59	0.045	5.54	2.308	3.79	1.2	53.6	90	2.5	67.4	27.8	2.7	6	<1	20.5	<0.1
69753	Drill Core	<0.001	42.4	9	0.02	91	0.043	5.66	2.606	3.28	6.8	62.3	90	4.8	68.4	30.1	3.1	6	<1	19.4	0.2
69754	Rock Pulp	0.049	9.4	17	0.38	742	0.125	7.14	2.196	2.16	5.1	10.4	17	1.1	5.4	1.7	<0.1	<1	3	11.7	0.4
69755	Drill Core	<0.001	44.6	10	0.02	102	0.046	5.43	2.762	2.81	2.3	57.5	90	3.0	58.7	25.4	2.7	4	<1	19.9	<0.1
69756	Drill Core	<0.001	49.3	11	0.03	158	0.054	6.90	3.965	2.81	3.5	61.5	103	3.1	53.8	26.2	3.1	4	1	21.4	<0.1
69757	Drill Core	0.002	47.2	15	0.03	329	0.045	5.32	2.084	3.95	1.4	52.2	94	5.7	32.8	20.8	2.3	5	1	15.9	0.1
69758	Drill Core	0.003	47.8	13	0.04	333	0.051	5.43	2.160	3.95	2.3	55.5	95	6.3	40.2	25.8	2.2	5	1	19.1	<0.1
69759	Drill Core	0.004	54.4	14	0.05	378	0.064	6.09	2.091	3.94	3.7	63.8	110	14.6	45.7	27.0	2.7	6	2	33.2	0.2
69760	Drill Core	0.004	52.9	15	0.05	382	0.063	6.18	2.018	4.15	3.8	65.9	104	14.0	44.7	28.1	2.9	6	2	31.6	0.2

CERTIFICATE OF ANALYSIS

VAN08005655.2

	Method	WGHT	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
69761	Drill Core	0.52	45.7	45.3	17.7	38	<0.1	1.1	0.7	243	1.15	2	16.6	<0.1	39.0	31	0.3	0.5	3.1	<1	0.42
69762	Drill Core	0.50	76.4	78.8	20.8	21	<0.1	0.5	0.9	208	1.08	4	16.1	<0.1	33.5	32	0.1	0.8	3.1	<1	0.44
69763	Drill Core	0.47	14.6	457.7	63.8	34	0.6	1.2	3.8	359	2.40	8	18.9	<0.1	33.7	20	0.2	3.8	147.5	<1	0.41
69764	Drill Core	0.61	56.7	95.3	51.7	536	0.2	2.2	1.7	630	1.48	<1	16.6	<0.1	24.0	70	7.8	0.2	5.0	9	0.88
69765	Drill Core	0.58	101.4	104.6	108.6	724	0.4	1.4	1.6	917	1.56	<1	14.5	<0.1	23.1	78	10.8	0.2	4.9	11	0.76
69766	Sand	0.31	1.0	1.9	3.4	3	<0.1	2.5	0.3	39	0.32	<1	0.8	<0.1	2.3	10	<0.1	<0.1	0.4	<1	0.01
69767	Drill Core	0.68	3.5	58.1	18.6	216	<0.1	1.8	1.8	576	1.44	<1	15.5	<0.1	21.4	75	2.6	<0.1	2.4	11	0.89
69768	Drill Core	0.53	1.0	21.0	18.4	65	<0.1	1.4	1.6	417	1.19	<1	13.1	<0.1	21.7	85	0.6	<0.1	0.6	11	0.86
69769	Drill Core	0.47	1.3	45.6	21.0	33	<0.1	2.4	1.8	450	1.35	2	17.3	0.1	26.6	89	0.2	0.7	1.1	11	0.92
69770	Drill Core	0.49	1.4	5.7	22.1	26	<0.1	2.0	1.3	339	1.07	1	17.4	0.2	24.8	92	<0.1	0.5	0.3	11	0.80
69771	Drill Core	0.36	1.1	5.6	22.7	25	<0.1	1.6	1.3	348	1.10	2	15.8	0.2	23.4	93	0.2	0.5	0.4	10	0.82
69772	Rock Pulp	0.02	1144	8954	285.2	128	115.1	2.7	2.3	206	1.61	71	0.9	<0.1	0.8	177	1.3	280.5	12.0	31	0.64
69773	Drill Core	0.46	2.0	76.0	19.5	53	0.1	2.4	1.5	376	1.77	<1	18.1	0.2	24.9	70	0.6	0.3	6.4	14	0.74
69774	Drill Core	0.57	1.7	77.2	19.2	75	<0.1	1.7	1.4	398	1.68	2	16.1	0.2	26.4	73	0.8	0.2	2.4	12	0.73
69775	Drill Core	0.54	1.0	147.2	51.8	55	0.5	1.0	1.6	791	1.85	7	16.9	0.3	26.7	63	0.4	0.7	3.9	9	1.14
69776	Drill Core	0.42	0.8	28.0	23.6	44	0.1	3.0	1.6	420	1.38	1	16.4	0.2	23.7	88	0.3	0.2	1.7	12	0.77
69777	Drill Core	0.56	1.7	113.8	74.0	123	0.7	2.0	1.7	371	1.96	182	16.0	0.1	25.3	58	1.0	5.4	5.1	10	0.71
69778	Drill Core	0.50	1.1	127.0	56.7	86	0.8	1.8	1.9	395	2.40	70	16.8	0.2	26.6	60	0.7	2.2	7.7	10	0.73
69779	Drill Core	0.56	1.2	61.2	29.5	65	0.2	2.0	1.8	450	1.64	3	17.8	0.2	29.0	83	0.6	0.6	4.5	9	0.77
69780	Drill Core	0.46	2.7	59.4	23.9	43	0.2	1.6	1.6	416	1.66	2	15.1	0.2	26.1	83	0.3	0.3	2.7	9	0.74
69781	Drill Core	0.52	1.6	542.2	20.6	264	0.7	1.2	2.3	519	4.29	5	14.6	0.1	27.2	20	4.1	1.7	39.3	10	0.83
69782	Drill Core	0.53	1.7	108.6	21.2	42	0.2	2.6	1.6	443	2.09	2	17.7	0.2	27.7	72	0.3	0.3	5.1	11	0.71
69783	Drill Core	0.48	1.8	91.4	28.0	59	0.2	2.5	1.7	443	1.77	8	16.5	0.2	27.1	71	0.4	0.3	3.1	13	0.62
69784	Sand	0.35	1.0	2.1	3.4	2	<0.1	1.2	0.3	41	0.36	<1	0.8	<0.1	2.4	11	<0.1	<0.1	0.2	2	0.01
69785	Drill Core	0.50	1.4	255.6	34.2	436	0.5	1.7	3.3	479	2.95	1	16.1	0.2	24.7	37	6.6	0.6	22.7	13	0.77
69786	Drill Core	0.54	1.1	152.2	33.2	70	0.4	3.0	2.5	599	2.35	27	17.9	0.3	29.4	58	0.9	2.7	10.7	10	0.74
69787	Drill Core	0.51	0.7	22.9	270.4	159	0.8	1.5	1.6	459	1.33	227	15.1	0.2	29.7	78	1.4	3.4	1.2	12	0.72
69788	Drill Core	0.51	0.6	22.9	25.7	31	0.1	2.5	1.7	566	1.27	3	16.3	0.2	27.5	91	0.2	0.3	1.6	11	0.88
69789	Drill Core	0.54	0.7	27.8	72.8	100	0.3	2.2	1.7	550	1.41	35	17.6	0.2	27.0	84	0.9	0.6	1.4	12	0.81
69790	Rock Pulp	0.02	467.5	6044	7.2	47	2.0	2.4	2.3	441	1.03	10	1.6	<0.1	1.0	508	0.5	8.0	0.8	56	2.44

CERTIFICATE OF ANALYSIS

VAN08005655.2

	Method Analyte Unit MDL	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
69761	Drill Core	0.004	55.8	12	0.06	377	0.059	5.74	2.095	4.26	4.5	56.4	110	10.2	45.2	25.2	2.7	5	2	25.2	0.3
69762	Drill Core	0.004	51.6	11	0.06	399	0.056	6.17	2.069	4.48	4.7	56.5	101	12.1	44.0	25.6	2.5	12	2	19.6	0.3
69763	Drill Core	0.005	48.6	10	0.08	374	0.048	5.75	0.977	3.94	24.1	58.6	101	59.9	32.4	22.3	2.7	7	2	40.5	1.5
69764	Drill Core	0.018	22.5	7	0.18	530	0.091	6.65	2.238	3.48	7.2	70.0	45	35.3	24.8	29.8	4.0	9	2	53.5	0.3
69765	Drill Core	0.018	21.0	8	0.18	562	0.093	6.59	2.100	3.97	7.4	62.4	41	42.2	21.5	29.7	3.7	9	2	50.6	0.4
69766	Sand	<0.001	4.6	2	<0.01	125	0.014	0.62	0.128	0.56	0.2	39.9	9	0.6	6.1	2.8	0.2	<1	<1	5.2	<0.1
69767	Drill Core	0.019	21.0	8	0.18	517	0.100	6.21	2.201	2.92	4.9	63.7	41	26.5	18.7	27.3	3.3	7	2	51.8	0.3
69768	Drill Core	0.018	21.5	6	0.19	482	0.099	6.35	2.576	2.75	1.8	61.5	42	12.4	18.3	24.9	2.8	6	2	42.9	<0.1
69769	Drill Core	0.021	26.2	5	0.20	521	0.094	6.39	2.494	3.09	3.0	70.5	47	17.8	21.7	23.4	2.8	9	2	44.2	0.2
69770	Drill Core	0.018	23.1	4	0.18	482	0.089	6.12	2.667	3.07	3.3	67.0	42	9.3	25.5	29.5	4.0	12	2	35.6	<0.1
69771	Drill Core	0.017	21.7	5	0.16	483	0.095	6.34	2.808	2.99	3.7	70.0	40	9.4	25.0	24.5	3.8	8	2	33.7	<0.1
69772	Rock Pulp	0.014	5.1	14	0.14	318	0.047	2.95	0.457	1.51	2.4	7.7	10	2.3	2.1	1.8	<0.1	<1	<1	7.3	0.7
69773	Drill Core	0.019	23.6	5	0.17	508	0.089	6.46	2.185	3.32	51.4	73.6	44	35.1	23.1	25.4	3.3	9	2	50.4	0.4
69774	Drill Core	0.018	23.5	5	0.16	478	0.084	6.39	2.266	3.31	6.1	71.0	44	33.2	23.6	25.5	3.8	10	2	53.7	0.4
69775	Drill Core	0.018	27.1	4	0.18	504	0.071	6.35	1.929	3.50	7.3	75.3	49	37.2	27.9	29.7	6.6	11	2	49.1	0.7
69776	Drill Core	0.019	23.0	4	0.18	530	0.088	6.45	2.647	3.24	3.9	67.2	41	15.8	24.7	26.8	3.4	9	2	36.6	0.2
69777	Drill Core	0.018	24.5	5	0.16	472	0.078	6.43	1.852	3.30	9.1	68.2	44	35.9	21.7	24.4	3.0	9	2	50.0	0.8
69778	Drill Core	0.018	26.3	7	0.17	498	0.077	6.40	1.943	3.40	9.5	73.1	49	41.4	22.6	25.8	3.2	10	2	54.2	0.9
69779	Drill Core	0.019	27.9	6	0.19	543	0.088	6.78	2.572	3.45	5.1	71.2	51	29.4	24.6	28.2	4.0	11	2	45.2	0.3
69780	Drill Core	0.020	25.7	5	0.18	505	0.086	6.75	2.575	3.20	4.3	66.5	47	27.6	20.0	22.9	3.0	9	2	45.7	0.3
69781	Drill Core	0.019	34.1	7	0.20	420	0.062	7.88	0.727	4.51	16.8	69.5	64	117.8	17.3	15.7	2.0	9	3	149.0	1.7
69782	Drill Core	0.021	25.8	6	0.19	532	0.083	6.62	2.293	3.44	6.8	71.9	48	32.8	21.6	25.2	3.6	12	2	54.4	0.5
69783	Drill Core	0.020	25.8	5	0.15	471	0.079	6.45	2.442	3.30	5.8	70.1	47	30.7	20.5	26.9	3.4	10	2	49.3	0.4
69784	Sand	0.001	5.1	5	<0.01	139	0.015	0.59	0.128	0.60	0.1	43.9	10	0.4	7.1	2.7	<0.1	<1	<1	7.3	<0.1
69785	Drill Core	0.019	24.3	8	0.18	299	0.074	6.57	1.007	3.23	14.4	69.8	45	123.0	17.5	25.9	3.5	8	3	97.4	1.5
69786	Drill Core	0.021	27.9	6	0.22	554	0.078	6.64	1.676	3.88	8.6	82.5	53	52.3	25.6	31.7	5.1	11	3	68.5	0.8
69787	Drill Core	0.019	27.3	5	0.18	541	0.093	6.89	2.484	3.42	4.7	75.2	50	15.6	22.2	26.0	3.4	10	2	50.6	0.2
69788	Drill Core	0.020	24.9	4	0.18	577	0.089	6.77	2.705	3.67	9.4	78.7	46	14.3	27.3	27.9	3.0	13	2	41.4	0.1
69789	Drill Core	0.020	26.7	6	0.17	520	0.093	6.89	2.743	3.50	8.9	77.3	50	14.9	26.9	30.9	4.3	10	2	39.8	0.2
69790	Rock Pulp	0.035	8.8	4	0.32	532	0.086	7.92	2.465	2.17	2.5	12.3	16	1.3	5.9	1.9	<0.1	1	2	12.1	0.5

CERTIFICATE OF ANALYSIS

VAN08005655.2

	Method	WGHT	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	0.1	1	0.1	0.1	0.1	1
69791	Drill Core	0.52	0.8	7.3	84.2	103	0.2	1.5	1.5	524	1.22	19	16.9	0.2	30.2	85	1.0	0.5	0.5	10
69792	Drill Core	0.53	0.9	9.7	39.2	34	0.2	2.1	6.1	434	1.21	2	17.0	0.2	27.8	87	0.2	0.3	0.8	13
69793	Drill Core	0.55	0.7	6.6	26.6	31	<0.1	1.7	1.5	450	1.31	2	17.4	0.2	30.2	86	0.2	0.4	0.6	13
69794	Drill Core	0.50	0.5	15.2	48.6	54	0.3	1.4	1.4	325	1.18	7	15.0	0.2	25.7	68	0.5	0.7	0.9	10
69795	Drill Core	0.49	1.4	42.2	42.1	62	0.2	3.2	1.0	287	1.03	6	26.0	0.6	26.0	41	0.8	0.7	6.8	8
69796	Drill Core	0.48	1.1	48.6	43.0	66	0.3	1.7	0.9	296	1.02	6	26.6	0.6	24.8	40	0.9	0.8	13.7	5
69797	Drill Core	0.50	1.6	165.0	44.1	212	0.5	2.4	1.7	1348	1.66	5	16.3	0.2	26.4	69	2.8	0.4	62.6	9
69798	Drill Core	0.48	1.1	14.0	25.3	37	<0.1	1.7	1.8	457	1.24	<1	16.8	<0.1	24.8	89	0.1	0.2	1.0	13
69799	Drill Core	0.41	1.0	8.1	24.6	41	<0.1	2.3	1.7	458	1.24	2	16.4	<0.1	24.7	96	0.1	<0.1	0.3	11
69800	Drill Core	0.43	0.9	50.5	23.9	36	<0.1	2.8	1.6	434	1.47	3	16.1	<0.1	24.1	78	0.1	<0.1	2.2	12
69801	Drill Core	0.48	0.8	35.2	23.1	36	<0.1	1.2	1.7	431	1.48	<1	17.2	<0.1	23.7	85	<0.1	0.1	2.6	8
69802	Sand	0.42	0.7	1.0	3.8	6	<0.1	2.2	0.3	37	0.27	1	0.7	<0.1	1.7	9	<0.1	<0.1	<0.1	<1
69803	Drill Core	0.49	1.1	18.0	24.9	39	<0.1	2.2	1.6	480	1.33	18	17.4	<0.1	26.0	93	0.2	<0.1	0.3	14
69804	Drill Core	0.43	1.0	32.9	22.1	34	<0.1	1.0	1.6	471	1.39	1	17.7	<0.1	24.5	87	<0.1	0.3	5.1	15
69805	Drill Core	0.43	1.4	7.4	24.5	43	<0.1	2.9	1.9	462	1.36	2	15.4	<0.1	24.4	88	0.1	<0.1	0.5	14
69806	Drill Core	0.44	1.2	29.3	23.5	37	<0.1	1.4	1.5	388	1.37	7	17.9	<0.1	29.8	72	<0.1	0.1	1.0	9
69807	Drill Core	0.74	0.9	25.4	22.1	36	<0.1	2.0	2.0	513	1.39	5	16.5	<0.1	23.7	69	<0.1	0.6	1.3	11
69808	Rock Pulp	0.02	428.6	1657	50.3	97	29.3	5.3	10.8	807	2.44	234	1.2	0.2	1.0	627	0.4	75.9	7.5	44
69809	Drill Core	0.63	1.6	38.1	21.8	34	<0.1	1.9	2.0	507	1.40	6	15.8	<0.1	25.4	73	<0.1	1.0	5.0	10

CERTIFICATE OF ANALYSIS

VAN08005655.2

Method		1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	
Analyte		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
69791	Drill Core	0.018	28.6	4	0.17	548	0.089	7.05	2.916	3.60	4.1	77.8	52	10.7	24.1	27.5	3.4	9	2	39.1	<0.1
69792	Drill Core	0.019	24.2	4	0.17	539	0.090	6.74	2.790	3.46	4.7	75.2	45	10.1	23.2	28.6	4.2	8	2	41.0	<0.1
69793	Drill Core	0.021	26.8	3	0.20	556	0.097	7.17	2.577	3.46	5.8	76.3	49	10.9	27.1	29.5	3.5	9	3	91.4	<0.1
69794	Drill Core	0.018	25.6	3	0.16	565	0.085	6.78	2.273	3.48	7.1	73.6	46	11.7	25.3	28.3	3.3	9	2	82.9	<0.1
69795	Drill Core	0.008	16.5	3	0.08	280	0.052	6.45	3.069	3.27	4.5	59.6	34	12.9	70.1	44.3	12.2	13	2	33.9	0.2
69796	Drill Core	0.008	15.1	5	0.08	280	0.053	6.41	3.003	3.29	4.2	59.4	31	15.7	66.7	46.5	11.9	13	2	41.0	0.3
69797	Drill Core	0.020	27.0	5	0.16	564	0.087	6.65	2.036	3.97	20.4	73.8	50	28.8	30.8	27.3	3.7	16	2	46.2	0.5
69798	Drill Core	0.020	23.3	9	0.22	622	0.096	6.21	2.501	1.23	3.8	85.8	50	12.1	21.6	28.3	4.1	11	2	52.4	<0.1
69799	Drill Core	0.020	20.7	6	0.22	639	0.101	6.37	2.616	1.20	2.8	82.0	45	10.4	22.8	30.1	4.2	10	3	54.9	<0.1
69800	Drill Core	0.019	21.1	10	0.20	600	0.089	6.50	2.428	1.20	5.4	78.9	44	20.1	21.5	28.7	3.8	9	3	51.0	0.3
69801	Drill Core	0.022	22.2	7	0.22	618	0.096	6.42	2.532	1.37	4.4	75.5	48	16.6	23.5	30.2	4.3	9	2	54.0	0.2
69802	Sand	<0.001	3.3	3	<0.01	116	0.011	0.57	0.116	0.48	0.1	40.2	7	0.6	5.1	2.1	0.3	<1	<1	5.7	<0.1
69803	Drill Core	0.021	26.6	7	0.22	645	0.098	6.47	2.642	1.26	4.9	83.5	54	13.6	22.2	30.8	3.8	9	2	58.2	0.1
69804	Drill Core	0.022	21.9	7	0.22	648	0.095	6.27	2.450	1.30	5.0	81.3	48	12.9	25.4	31.2	3.7	10	2	58.7	0.1
69805	Drill Core	0.020	20.6	7	0.22	609	0.100	6.56	2.599	1.11	2.6	87.2	44	11.8	21.5	28.7	3.5	9	2	72.5	<0.1
69806	Drill Core	0.017	25.2	5	0.21	528	0.087	6.37	2.266	1.47	4.1	81.2	55	15.0	22.2	31.9	4.7	11	3	56.9	0.2
69807	Drill Core	0.018	23.1	6	0.42	543	0.098	6.49	1.810	1.22	3.6	78.2	51	13.0	23.7	30.5	4.8	10	2	66.9	0.1
69808	Rock Pulp	0.052	8.0	13	0.45	876	0.129	6.79	2.148	1.63	6.0	12.5	17	1.4	5.5	1.9	<0.1	1	3	11.7	0.4
69809	Drill Core	0.019	23.3	5	0.35	555	0.095	6.43	2.033	1.31	4.1	83.2	51	14.9	25.8	27.6	3.9	10	3	68.5	0.3

QUALITY CONTROL REPORT

VAN08005655.2

	Method	WGHT	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
Pulp Duplicates																					
69705	Drill Core	0.52	114.9	57.3	42.2	180	0.6	2.2	0.8	213	1.16	30	18.6	<0.1	38.7	31	1.8	0.8	3.2	1	0.45
REP 69705	QC																				
69739	Drill Core	0.52	36.2	4.0	22.8	42	<0.1	1.5	0.4	143	0.79	<1	18.3	<0.1	43.9	9	0.2	<0.1	1.4	<1	0.35
REP 69739	QC		35.1	4.0	23.1	42	<0.1	1.2	0.5	147	0.78	<1	18.4	<0.1	45.6	9	0.2	<0.1	1.2	<1	0.36
69764	Drill Core	0.61	56.7	95.3	51.7	536	0.2	2.2	1.7	630	1.48	<1	16.6	<0.1	24.0	70	7.8	0.2	5.0	9	0.88
REP 69764	QC		50.8	91.6	50.7	521	0.2	1.6	1.7	641	1.44	1	18.9	<0.1	25.0	69	7.8	0.2	4.5	10	0.89
69793	Drill Core	0.55	0.7	6.6	26.6	31	<0.1	1.7	1.5	450	1.31	2	17.4	0.2	30.2	86	0.2	0.4	0.6	13	0.92
REP 69793	QC		0.5	6.7	27.0	33	<0.1	2.2	1.7	460	1.34	2	18.5	0.2	35.4	87	0.2	0.4	0.5	12	0.91
Core Reject Duplicates																					
69702	Drill Core	0.46	92.4	24.1	24.1	154	<0.1	2.7	0.8	195	1.00	4	16.3	<0.1	35.1	32	1.0	0.3	1.9	<1	0.34
DUP 69702	QC		104.4	27.4	25.1	161	<0.1	2.0	0.8	207	1.04	4	17.8	<0.1	36.4	31	0.9	0.3	1.6	1	0.33
69737	Drill Core	0.52	67.8	14.9	22.8	27	<0.1	2.2	0.6	174	0.87	<1	18.3	<0.1	45.9	13	<0.1	0.2	2.6	<1	0.36
DUP 69737	QC		77.7	12.3	22.6	28	<0.1	0.1	0.4	168	0.85	<1	18.0	<0.1	46.5	12	<0.1	0.2	2.8	<1	0.33
69807	Drill Core	0.74	0.9	25.4	22.1	36	<0.1	2.0	2.0	513	1.39	5	16.5	<0.1	23.7	69	<0.1	0.6	1.3	11	0.83
DUP 69807	QC		0.7	25.5	22.5	36	<0.1	1.7	1.9	482	1.32	4	14.6	<0.1	21.7	71	<0.1	0.7	1.4	13	0.80
Reference Materials																					
STD DST6	Standard		11.5	123.6	35.9	154	0.2	31.7	13.5	916	3.66	25	7.6	<0.1	6.6	317	6.4	5.4	4.6	96	2.16
STD DST6	Standard		10.8	119.4	35.4	157	0.3	30.8	13.6	888	3.57	22	7.6	<0.1	6.8	304	6.3	5.3	4.7	95	2.07
STD DST6	Standard		10.9	119.6	39.8	156	0.2	28.6	13.5	885	3.54	23	7.7	<0.1	6.5	291	6.0	4.7	5.1	94	2.00
STD DST6	Standard		11.5	118.4	40.1	173	0.3	29.7	14.1	900	3.63	25	7.0	<0.1	6.2	293	6.9	5.0	5.0	94	2.01
STD DST6	Standard		11.7	123.5	35.2	172	0.3	31.8	13.6	949	3.83	22	8.0	<0.1	7.1	324	5.8	5.3	5.1	93	2.14
STD DST6	Standard		11.7	124.8	34.9	165	0.2	30.9	13.7	962	3.82	21	7.4	<0.1	6.6	314	6.0	5.1	5.1	90	2.13
STD DST6	Standard		11.4	126.3	33.1	170	0.2	28.7	13.4	909	3.79	25	7.7	<0.1	6.8	327	6.0	5.4	4.8	115	2.14
STD DST6	Standard		12.7	131.6	36.4	172	0.3	30.1	14.2	923	3.89	25	7.8	<0.1	6.6	336	7.0	6.0	4.8	115	2.18
STD DST6	Standard		12.5	138.1	42.2	180	0.3	31.0	15.3	980	4.04	28	9.4	<0.1	8.2	323	7.2	6.5	5.9	113	2.24
STD DST6	Standard		12.4	130.3	38.2	173	0.4	30.2	14.2	961	3.98	26	8.8	<0.1	7.7	297	6.8	6.1	5.6	114	2.07
STD MO OXIDE	Standard																				
STD MO OXIDE	Standard																				

QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1
Pulp Duplicates																				
69705	Drill Core	0.005	48.4	5	0.05	347	0.060	5.98	1.976	4.01	2.7	57.8	102	22.2	43.4	25.5	2.5	7	2	26.6
REP 69705	QC																			
69739	Drill Core	<0.001	43.0	16	0.02	46	0.041	5.46	2.230	3.86	1.5	51.6	91	2.5	70.4	25.6	3.1	5	<1	22.8
REP 69739	QC	<0.001	43.4	16	0.02	46	0.044	5.51	2.305	3.86	1.6	51.0	92	2.6	69.1	26.4	3.4	5	<1	23.1
69764	Drill Core	0.018	22.5	7	0.18	530	0.091	6.65	2.238	3.48	7.2	70.0	45	35.3	24.8	29.8	4.0	9	2	53.5
REP 69764	QC	0.017	24.3	6	0.18	535	0.089	6.67	2.144	3.61	8.5	70.5	47	34.3	25.9	35.2	5.2	9	2	52.7
69793	Drill Core	0.021	26.8	3	0.20	556	0.097	7.17	2.577	3.46	5.8	76.3	49	10.9	27.1	29.5	3.5	9	3	91.4
REP 69793	QC	0.020	31.7	4	0.20	558	0.096	6.93	2.585	3.45	5.7	79.2	58	9.9	29.8	35.7	3.9	8	2	93.4
Core Reject Duplicates																				
69702	Drill Core	0.005	47.4	4	0.05	348	0.054	5.70	1.960	3.81	3.0	68.2	99	13.7	40.8	27.2	2.6	7	1	24.6
DUP 69702	QC	0.006	47.9	5	0.05	363	0.055	5.80	2.014	3.87	3.1	72.8	101	15.3	42.0	27.5	2.6	6	1	22.8
69737	Drill Core	0.001	48.5	16	0.03	86	0.045	5.65	2.512	3.74	2.4	58.4	102	3.0	61.5	28.6	3.8	6	<1	27.7
DUP 69737	QC	<0.001	49.5	13	0.02	85	0.042	5.63	2.374	3.66	2.9	54.6	104	3.2	62.6	26.8	3.5	6	<1	21.8
69807	Drill Core	0.018	23.1	6	0.42	543	0.098	6.49	1.810	1.22	3.6	78.2	51	13.0	23.7	30.5	4.8	10	2	66.9
DUP 69807	QC	0.019	21.0	6	0.44	568	0.096	6.21	1.837	1.36	3.6	76.3	46	13.5	23.0	31.2	4.7	9	2	67.3
Reference Materials																				
STD DST6	Standard	0.090	24.2	195	1.05	670	0.364	6.99	1.713	1.49	7.5	58.7	53	5.9	14.2	9.4	0.4	3	10	28.7
STD DST6	Standard	0.096	23.7	190	1.00	677	0.341	6.69	1.675	1.41	7.7	64.5	49	5.0	14.0	9.3	0.4	3	11	27.0
STD DST6	Standard	0.094	22.1	233	0.99	645	0.329	6.36	1.649	1.33	8.1	57.9	49	6.7	13.6	9.2	0.5	4	10	28.7
STD DST6	Standard	0.096	22.3	218	1.01	670	0.327	6.25	1.717	1.32	10.7	61.7	48	6.8	13.6	8.9	0.5	3	10	26.5
STD DST6	Standard	0.093	24.9	253	1.04	628	0.367	7.03	1.769	1.46	9.2	60.3	52	5.4	14.7	9.7	0.4	3	11	26.6
STD DST6	Standard	0.095	24.6	245	1.04	628	0.373	6.92	1.680	1.40	7.4	63.4	49	5.8	14.6	10.0	0.4	3	10	31.3
STD DST6	Standard	0.094	24.3	257	1.03	639	0.369	6.97	1.713	1.46	7.9	62.5	50	6.9	14.7	10.3	0.5	3	11	26.6
STD DST6	Standard	0.099	24.4	254	1.09	646	0.376	7.15	1.793	1.49	8.0	64.2	51	6.5	15.1	10.1	0.5	4	11	26.6
STD DST6	Standard	0.104	30.6	248	1.11	706	0.406	6.98	1.771	1.58	8.1	67.5	59	7.2	18.4	10.4	0.5	4	11	28.2
STD DST6	Standard	0.100	29.6	233	1.09	669	0.371	6.61	1.724	1.58	8.2	65.0	56	6.5	16.9	10.7	0.5	3	11	27.7
STD MO OXIDE	Standard																			
STD MO OXIDE	Standard																			

QUALITY CONTROL REPORT

VAN08005655.2

		WGHT	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
STD DST6 Expected			12.7	129.7	36.7	176	0.4	30.4	13.7	980	3.91	24	7.8	0	6.9	298	5.6	5.4	4.7	115	2.26
STD MO OXIDE Expected																					
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<0.1	<0.1	2.9	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<0.1	<0.1	4.0	6	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank																				
Prep Wash																					
G1	Prep Blank	<0.01	0.4	2.1	19.6	47	<0.1	5.5	4.6	702	2.14	<1	3.6	<0.1	6.0	678	<0.1	<0.1	0.2	45	2.30
G1	Prep Blank	<0.01	0.5	1.9	20.5	48	<0.1	4.3	4.8	715	2.26	<1	3.6	<0.1	7.0	681	<0.1	0.1	0.1	50	2.27

QUALITY CONTROL REPORT

VAN08005655.2

		1EX P %	1EX La ppm	1EX Cr ppm	1EX Mg %	1EX Ba ppm	1EX Ti %	1EX Al %	1EX Na %	1EX K %	1EX W ppm	1EX Zr ppm	1EX Ce ppm	1EX Sn ppm	1EX Y ppm	1EX Nb ppm	1EX Ta ppm	1EX Be ppm	1EX Sc ppm	1EX Li ppm	1EX S %
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
STD DST6 Expected		0.099	25.7	230	1.03	702	0.387	6.92	1.673	1.42	7.4	50.1	52	6.3	15.2	8.1	0.6	3	10	25.4	
STD MO OXIDE Expected																					
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	16	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	0.7	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
Prep Wash																					
G1	Prep Blank	0.079	18.0	9	0.63	935	0.211	7.84	2.601	2.86	0.1	13.3	40	1.3	13.1	22.3	1.2	3	4	38.2	<0.1
G1	Prep Blank	0.082	25.2	9	0.65	932	0.213	7.90	2.734	2.99	3.7	9.3	51	1.1	13.7	22.9	1.0	3	4	44.6	<0.1



1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

ACME ANALYTICAL LABORATORIES LTD.

www.acmelab.com

Client:

Adanac Molybdenum Corporation

#200, 2055 - 152nd Street
Surrey BC V4A 4N7 Canada

Submitted By:

Ruby Creek Mine -Email Distribution List

Receiving Lab:

Canada-Vancouver

Received:

September 02, 2008

Report Date:

November 18, 2008

Page:

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CERTIFICATE OF ANALYSIS

VAN08008888.2

CLIENT JOB INFORMATION

Project: Ruby Creek Mine
Shipment ID: 8080408
P.O. Number
Number of Samples: 134

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Adanac Molybdenum Corporation
#200, 2055 - 152nd Street
Surrey BC V4A 4N7
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
R150	126	Crush, split and pulverize rock to 200 mesh		
1EX	134	4 Acid digestion ICP-MS analysis	0.25	Completed
DIS-RJT	134	Warehouse handling / Disposition of reject		
Mo/Ox	34	Mo in oxide form, 30% HCL leach	1	Completed

ADDITIONAL COMMENTS

Ver.2 to include Mo/Ox



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.
** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



ACME ANALYTICAL LABORATORIES LTD.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client:

Adanac Molybdenum Corporation

#200, 2055 - 152nd Street
Surrey BC V4A 4N7 Canada

Project:

Ruby Creek Mine

Report Date:

November 18, 2008

Page:

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Part 1

CERTIFICATE OF ANALYSIS

VAN08008888.2

	Method Analyte Unit MDL	WGHT	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
832451	Rock	0.41	14.3	6.3	17.1	35	<0.1	0.7	0.3	137	0.69	31	17.6	<0.1	41.4	20	<0.1	1.2	0.3	3	0.20
832452	Rock	0.45	35.2	8.7	22.6	125	<0.1	1.3	0.6	1073	0.91	100	20.7	<0.1	48.0	18	0.5	2.7	0.4	2	0.26
832453	Rock	0.48	8.6	9.1	17.8	44	<0.1	1.1	0.4	116	0.78	50	18.6	<0.1	41.7	21	<0.1	1.4	0.6	4	0.25
832454	Rock	0.48	10.2	4.4	17.7	56	<0.1	0.7	0.3	143	0.75	57	13.1	<0.1	37.3	26	<0.1	1.2	0.2	2	0.22
832455	Rock	0.52	70.4	3.1	20.8	103	<0.1	1.9	0.5	410	0.84	157	12.8	<0.1	39.7	28	0.5	1.9	0.2	2	0.17
832456	Rock Pulp	0.06	400.6	>10000	43.1	35	27.1	4.4	1.6	219	1.25	23	1.2	<0.1	2.0	214	0.2	78.8	3.6	37	0.99
832457	Rock	0.66	70.6	3.8	18.0	124	<0.1	0.7	0.4	182	0.85	141	11.1	<0.1	38.9	26	0.2	2.8	0.1	5	0.16
832458	Rock	0.58	87.9	2.5	18.6	137	<0.1	0.6	0.4	228	0.85	59	11.6	<0.1	33.3	26	0.4	2.7	0.1	6	0.28
832459	Rock	0.48	152.7	3.4	19.3	134	<0.1	1.0	0.5	199	0.97	4	15.8	<0.1	36.5	28	0.1	2.1	0.4	2	0.39
832460	Rock	0.65	147.7	4.2	20.2	229	<0.1	2.1	0.8	537	0.98	86	19.1	<0.1	38.3	25	0.8	2.9	0.1	5	0.28
832461	Rock	0.52	34.9	5.0	19.3	206	<0.1	0.6	0.6	615	0.65	35	16.8	<0.1	35.8	24	1.2	2.5	0.1	3	0.30
832462	Rock	0.81	2.5	2.2	0.9	9	0.2	7.9	1.3	195	0.17	<1	0.4	<0.1	0.6	105	0.2	<0.1	<0.1	7	21.87
832463	Rock	0.57	85.9	4.2	53.9	311	0.3	0.6	0.5	822	0.85	208	19.0	<0.1	32.9	26	4.1	6.8	<0.1	4	0.32
832464	Rock	0.56	30.0	10.4	94.9	84	1.3	1.6	<0.2	274	0.65	328	13.3	<0.1	29.8	13	3.2	17.3	1.1	6	0.13
832465	Rock	0.54	68.7	23.0	326.4	94	1.5	0.9	<0.2	272	0.61	311	11.9	<0.1	23.0	15	2.9	18.7	0.3	6	0.03
832466	Rock	0.47	114.7	132.3	5468	192	7.9	1.7	<0.2	196	1.17	2603	14.4	<0.1	24.9	6	5.2	50.9	0.7	4	0.03
832467	Rock	0.51	30.4	134.2	8285	214	11.8	1.0	<0.2	152	1.38	7158	14.3	0.2	21.4	6	7.7	125.3	0.6	1	0.02
832468	Rock Pulp	0.04	1147	8448	244.8	139	111.0	2.8	2.3	198	1.59	39	0.8	<0.1	0.6	172	1.5	288.0	11.1	29	0.62
832469	Rock	0.59	15.0	196.3	>10000	5663	36.4	1.4	0.3	155	2.43	>10000	14.6	1.4	17.6	5	72.3	262.1	0.7	4	0.01
832470	Rock	0.59	11.6	70.8	3591	6222	8.8	0.9	<0.2	386	1.22	3987	13.0	<0.1	31.3	5	72.3	72.8	0.4	1	0.02
832471	Rock	0.51	28.8	152.3	8780	5820	63.6	0.9	<0.2	229	1.57	6172	21.7	0.4	21.2	9	84.7	186.5	0.2	<1	0.02
832472	Rock	0.52	119.9	177.9	>10000	6134	37.8	1.9	0.4	299	2.31	>10000	30.6	1.0	20.9	8	97.6	228.8	0.4	<1	0.01
832473	Rock	0.72	208.4	78.0	8066	379	13.5	7.9	0.3	206	1.61	5972	21.3	0.2	21.3	7	60.4	107.2	2.4	4	0.03
832474	Rock	0.78	191.5	94.9	7636	367	14.6	1.1	<0.2	194	1.37	5639	21.1	0.2	21.6	7	52.5	98.8	2.9	3	0.02
832475	Rock	0.55	157.1	117.4	4681	3729	15.8	1.3	0.3	220	2.06	9788	16.2	0.8	23.6	7	105.9	144.6	35.1	3	0.03
832476	Rock	0.55	490.4	340.8	>10000	4909	156.2	0.8	0.4	197	3.28	>10000	60.3	1.2	18.4	5	109.4	341.3	1.3	5	0.01
832477	Rock	0.67	416.8	82.4	3999	421	12.7	2.1	<0.2	200	1.39	5679	44.2	0.5	17.3	13	33.0	77.6	1.4	4	0.04
832478	Rock	0.63	213.9	1281	>10000	>10000	>200	0.5	0.6	269	4.29	>10000	49.6	1.6	9.2	9	240.0	1041	4.1	2	0.01
832479	Rock	0.73	398.8	4811	>10000	>10000	>200	<0.1	0.7	444	8.95	>10000	34.5	2.3	2.1	1	1194	2824	26.2	3	<0.01
832480	Sand	0.45	1.3	8.2	89.5	85	1.2	6.7	2.3	190	0.92	41	0.9	<0.1	3.7	223	0.9	3.4	<0.1	17	0.71



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Report Date:

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Part 2

CERTIFICATE OF ANALYSIS

VAN08008888.2

	Method Analyte Unit MDL	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
832451	Rock	0.002	40.9	2	0.04	157	0.053	5.71	1.912	3.11	42.6	58.4	74	2.0	56.5	27.1	2.4	4	1	16.2	<0.1
832452	Rock	0.002	42.6	3	0.06	135	0.056	5.91	1.894	3.31	6.1	54.5	84	2.7	92.2	34.2	2.9	5	1	26.9	<0.1
832453	Rock	0.002	40.1	3	0.04	202	0.059	6.00	2.033	3.23	3.5	70.2	75	1.8	64.6	29.3	2.7	4	1	16.2	<0.1
832454	Rock	0.003	40.5	2	0.06	282	0.057	6.09	2.027	2.98	10.5	69.4	73	1.5	57.9	25.2	2.6	4	1	22.1	<0.1
832455	Rock	0.004	49.9	4	0.12	306	0.062	6.03	1.717	3.47	11.4	68.5	90	2.2	73.4	28.9	3.2	4	1	23.0	<0.1
832456	Rock Pulp	0.023	5.3	65	0.15	555	0.074	3.65	0.559	2.10	1.7	20.1	11	2.6	4.2	4.5	0.2	2	1	21.0	0.8
832457	Rock	0.004	50.3	2	0.12	276	0.065	5.86	1.308	2.99	5.1	76.0	89	2.0	81.9	28.1	2.9	4	2	31.2	<0.1
832458	Rock	0.005	54.8	4	0.13	340	0.068	5.68	1.047	3.50	9.6	72.5	92	1.6	81.8	29.0	2.9	3	2	33.9	<0.1
832459	Rock	0.005	56.8	4	0.16	354	0.073	5.96	1.176	3.79	27.3	74.7	99	2.0	93.6	33.4	4.0	3	2	34.7	<0.1
832460	Rock	0.004	50.3	3	0.13	283	0.059	6.17	1.159	3.66	5.0	68.9	92	1.8	92.6	26.9	2.7	4	1	26.7	<0.1
832461	Rock	0.003	45.9	2	0.11	299	0.051	6.12	1.516	3.83	6.5	71.8	85	1.7	80.0	27.3	3.2	3	1	19.1	<0.1
832462	Rock	0.023	2.8	4	10.17	9	0.006	0.27	0.030	0.07	0.3	1.9	3	<0.1	4.5	0.6	<0.1	<1	<1	2.2	<0.1
832463	Rock	0.004	46.6	2	0.12	375	0.066	5.92	1.039	3.47	5.9	66.6	90	2.4	76.3	28.8	2.7	4	1	27.2	<0.1
832464	Rock	0.001	25.7	3	0.10	120	0.037	4.63	0.066	2.52	29.6	49.9	43	3.7	41.3	21.6	2.2	3	1	238.2	<0.1
832465	Rock	0.001	27.7	3	0.07	306	0.033	5.33	0.072	2.67	51.5	42.4	59	4.5	26.5	17.5	2.2	2	1	111.9	<0.1
832466	Rock	<0.001	23.4	4	0.09	65	0.042	4.71	0.021	2.19	13.9	47.2	30	7.0	13.1	21.2	2.8	4	1	79.4	<0.1
832467	Rock	<0.001	25.5	5	0.08	57	0.036	3.92	0.017	1.87	109.3	43.0	39	5.8	15.0	19.1	2.2	3	<1	93.1	0.2
832468	Rock Pulp	0.013	5.0	13	0.14	309	0.042	2.90	0.438	1.42	1.9	6.9	9	2.0	2.2	1.9	<0.1	<1	<1	9.1	0.7
832469	Rock	<0.001	24.4	4	0.07	45	0.022	3.29	0.014	1.59	15.4	31.7	41	9.3	34.6	17.6	2.0	2	<1	104.2	1.3
832470	Rock	<0.001	31.7	4	0.08	67	0.036	4.24	0.021	2.15	22.9	48.9	68	7.5	38.6	24.2	2.5	3	<1	140.5	0.5
832471	Rock	<0.001	24.7	5	0.05	62	0.017	2.34	0.015	1.09	14.3	28.6	43	10.0	29.0	12.4	1.4	3	<1	174.0	0.6
832472	Rock	<0.001	48.8	8	0.06	64	0.024	2.40	0.014	1.18	>200	30.8	90	7.6	57.8	15.9	1.4	3	<1	145.0	1.1
832473	Rock	<0.001	30.8	9	0.07	67	0.028	3.46	0.015	1.57	21.4	35.0	59	7.0	45.5	17.9	1.8	3	<1	93.4	<0.1
832474	Rock	<0.001	27.8	4	0.07	61	0.029	3.41	0.014	1.58	31.7	33.0	55	7.1	43.3	19.2	1.9	3	<1	100.8	<0.1
832475	Rock	<0.001	31.6	5	0.08	53	0.035	3.65	0.016	1.89	119.4	45.4	60	10.5	47.7	18.1	1.9	2	<1	87.9	0.7
832476	Rock	0.001	21.5	8	0.05	40	0.019	2.38	0.012	1.13	198.9	25.7	40	10.7	53.9	13.8	1.1	2	<1	144.7	1.9
832477	Rock	<0.001	24.3	4	0.06	52	0.021	2.83	0.018	1.20	38.2	27.6	43	6.8	138.1	11.9	1.1	4	<1	104.1	0.2
832478	Rock	<0.001	8.1	5	0.04	39	0.007	1.46	0.013	0.55	>200	14.7	13	11.2	62.5	7.6	0.8	3	<1	130.2	4.7
832479	Rock	<0.001	5.4	4	0.02	14	0.002	0.89	0.005	0.34	>200	5.1	8	28.2	25.3	2.9	0.3	1	<1	76.7	>10
832480	Sand	0.030	16.0	6	0.19	764	0.052	4.76	1.576	2.23	0.8	44.4	26	0.5	6.1	2.3	0.1	1	1	9.2	<0.1



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Part 1

CERTIFICATE OF ANALYSIS

VAN08008888.2

	Method Analyte Unit MDL	WGHT	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
832481	Rock	0.55	201.7	183.7	6626	4801	44.4	0.9	0.5	1515	1.44	1375	21.1	*	44.2	10	50.5	113.0	15.4	<1	0.17
832482	Rock	0.43	53.9	18.2	175.4	322	2.5	0.3	0.6	684	1.03	293	23.6	<0.1	57.2	13	2.5	24.1	44.5	1	0.29
832483	Rock	0.59	21.5	7.8	93.1	266	0.4	2.0	0.6	229	0.95	18	26.2	<0.1	55.9	11	0.6	5.2	4.6	<1	0.29
832484	Rock	0.55	36.1	8.7	64.7	247	0.2	0.6	0.4	355	0.77	74	25.3	<0.1	59.3	14	1.2	7.1	2.0	<1	0.30
832485	Rock	0.47	82.9	6.4	56.2	154	0.3	1.3	0.6	653	0.83	107	23.3	<0.1	56.8	15	0.6	6.6	0.5	2	0.18
832486	Rock Pulp	0.03	483.7	5682	8.0	55	2.0	2.7	2.5	453	1.06	9	1.2	<0.1	0.9	515	0.5	8.9	0.8	54	2.50
832487	Rock	0.61	49.1	7.0	74.3	130	0.3	0.5	0.6	481	0.53	81	15.3	<0.1	42.4	10	1.5	5.4	0.6	<1	0.22
832488	Rock	0.03	126.1	6.7	177.0	265	1.2	1.0	0.6	460	1.14	619	23.3	<0.1	47.8	10	2.1	21.5	5.5	<1	0.20
832489	Rock	0.65	97.1	5.6	108.6	288	0.3	0.4	0.6	1374	0.80	26	22.7	<0.1	48.7	16	1.8	6.9	2.4	2	0.34
832490	Rock	0.59	237.4	5.0	34.6	88	<0.1	0.5	0.7	195	0.59	12	22.2	<0.1	49.6	16	0.3	3.2	2.7	<1	0.29
832491	Rock	0.55	88.9	3.4	106.7	181	0.4	0.8	0.5	560	0.82	125	25.4	<0.1	51.5	13	1.2	6.2	3.9	<1	0.25
832492	Rock	0.52	113.3	1.7	104.1	193	0.6	0.8	0.4	654	0.86	129	26.4	<0.1	55.7	14	1.2	6.6	4.2	<1	0.24
832493	Rock	0.55	139.7	6.2	75.5	96	0.3	1.0	1.0	294	0.81	134	25.7	<0.1	50.6	13	0.7	7.5	2.2	<1	0.26
832494	Rock	0.63	63.0	6.2	30.3	31	<0.1	0.4	0.6	433	0.76	9	25.6	<0.1	55.4	19	0.2	2.2	3.6	<1	0.40
832495	Rock	0.53	75.0	2.9	26.7	40	<0.1	1.2	0.5	514	0.72	27	25.5	<0.1	53.6	17	0.3	2.3	2.3	<1	0.34
832496	Rock	0.49	64.1	4.6	27.4	39	<0.1	0.9	0.7	137	0.63	21	24.4	<0.1	52.0	15	0.3	3.7	3.5	<1	0.28
832497	Rock	0.54	104.9	4.3	26.9	47	0.1	3.1	0.6	183	0.78	121	23.7	<0.1	43.3	16	0.4	7.1	0.8	<1	0.30
832498	Rock	0.82	1.5	2.8	2.4	8	0.2	10.3	1.9	189	0.25	3	0.3	<0.1	0.3	103	0.2	<0.1	<0.1	4	22.48
832499	Rock	0.71	177.8	4.6	22.3	18	<0.1	0.8	0.6	256	0.76	3	20.6	<0.1	44.9	24	0.4	1.1	3.1	2	0.46
832500	Rock	0.51	22.7	6.1	22.3	16	0.1	0.9	0.7	209	0.78	3	21.2	<0.1	45.7	23	0.2	1.3	0.8	<1	0.39
832501	Rock	0.55	46.8	6.5	22.8	17	<0.1	0.6	0.8	148	0.75	4	23.1	<0.1	51.8	25	0.1	1.2	0.5	<1	0.55
832502	Rock	0.66	34.4	3.4	24.7	18	<0.1	0.6	0.6	103	0.80	2	21.1	<0.1	46.0	25	0.2	0.4	1.3	<1	0.50
832503	Rock	0.56	144.2	6.8	23.8	16	<0.1	0.8	0.6	99	0.74	2	22.0	<0.1	48.0	25	0.4	0.5	0.3	<1	0.52
832504	Rock Pulp	0.12	415.6	>10000	45.3	38	25.6	4.8	2.0	214	1.22	24	1.3	<0.1	2.0	217	0.7	74.3	3.4	36	1.00
832505	Rock	0.61	120.6	11.3	23.7	13	<0.1	0.8	0.6	84	0.66	1	22.1	<0.1	43.2	25	<0.1	0.5	0.7	<1	0.45
832506	Rock	0.51	54.2	6.8	20.4	14	<0.1	0.7	0.7	93	0.69	2	21.1	<0.1	44.3	30	0.2	0.7	0.1	<1	0.49
832507	Rock	0.57	69.7	6.4	23.1	24	<0.1	0.6	0.8	109	0.85	2	20.4	<0.1	40.9	28	0.2	0.5	0.2	<1	0.50
832508	Rock	0.66	86.0	3.6	23.9	17	<0.1	1.0	0.7	96	0.74	1	20.3	<0.1	42.5	29	0.3	0.3	0.9	2	0.49
832509	Rock	0.52	317.5	4.9	25.0	19	<0.1	0.3	0.7	113	0.80	2	21.2	<0.1	46.3	32	0.2	0.5	3.3	2	0.54
832510	Rock	0.62	389.2	3.6	22.5	18	<0.1	0.6	0.7	110	0.79	1	20.0	<0.1	46.3	30	0.4	0.5	2.3	<1	0.53



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Part 2

CERTIFICATE OF ANALYSIS

VAN08008888.2

	Method Analyte Unit MDL	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
832481	Rock	<0.001	29.0	5	0.04	120	0.035	5.84	0.181	3.29	57.0	64.5	66	7.7	55.9	38.8	4.4	4	1	121.7	0.9
832482	Rock	0.002	32.6	3	0.03	162	0.039	6.38	0.210	4.07	15.5	68.1	82	3.9	69.5	40.9	4.2	4	1	60.3	<0.1
832483	Rock	0.001	47.1	4	0.05	120	0.043	6.49	1.049	3.86	10.1	74.1	103	6.1	96.8	45.2	5.2	6	1	59.9	<0.1
832484	Rock	0.003	47.1	2	0.04	183	0.045	6.48	0.967	4.09	21.4	93.4	98	6.6	87.4	41.7	4.6	6	1	50.5	<0.1
832485	Rock	0.003	40.6	4	0.04	196	0.049	6.58	0.191	4.40	17.1	77.9	94	6.1	60.4	33.7	4.1	3	1	52.8	<0.1
832486	Rock Pulp	0.034	6.0	3	0.32	581	0.084	8.37	2.641	2.26	2.9	12.5	13	1.5	4.3	1.4	<0.1	1	2	10.5	0.5
832487	Rock	0.002	36.4	2	0.03	143	0.034	4.98	0.106	3.28	10.2	60.0	80	3.0	53.7	29.7	3.4	3	1	115.1	<0.1
832488	Rock	0.002	36.4	5	0.08	218	0.046	6.08	0.155	3.82	30.8	62.9	79	4.0	74.8	32.7	3.7	3	1	59.5	0.3
832489	Rock	0.002	42.0	2	0.05	236	0.047	6.60	0.598	4.29	27.2	63.5	93	2.6	74.0	34.9	3.7	4	1	54.1	<0.1
832490	Rock	0.002	40.8	3	0.05	214	0.043	5.89	0.770	3.86	43.4	64.8	87	2.8	64.3	34.6	3.7	3	1	56.5	<0.1
832491	Rock	0.002	39.3	4	0.05	192	0.048	5.94	0.582	3.68	30.2	70.3	84	2.2	65.5	33.3	3.5	3	1	87.4	<0.1
832492	Rock	0.002	39.5	4	0.05	225	0.047	6.72	0.515	4.01	33.0	73.3	82	2.4	66.0	35.2	3.9	5	1	100.0	<0.1
832493	Rock	0.001	46.0	4	0.06	241	0.047	6.36	1.077	4.04	29.7	78.0	95	2.2	72.3	34.9	3.4	5	1	33.4	0.1
832494	Rock	0.003	46.9	4	0.04	215	0.052	6.69	1.853	4.04	46.5	90.6	100	1.9	89.6	36.4	3.7	5	1	32.3	<0.1
832495	Rock	0.002	43.9	3	0.05	197	0.047	6.08	1.398	4.01	81.1	75.4	94	2.2	75.0	33.1	3.4	5	1	36.3	<0.1
832496	Rock	0.002	45.1	2	0.06	213	0.047	6.36	0.785	4.05	22.5	89.3	98	2.3	71.7	31.0	3.2	5	1	34.8	<0.1
832497	Rock	0.002	42.2	6	0.08	200	0.044	5.65	0.926	3.50	49.4	85.3	87	2.1	61.8	27.8	2.6	5	1	42.1	<0.1
832498	Rock	0.021	1.9	9	10.80	18	0.009	0.24	0.013	0.03	0.4	1.7	3	<0.1	2.8	0.5	<0.1	<1	<1	3.4	0.2
832499	Rock	0.004	49.0	3	0.07	281	0.051	6.15	2.234	3.72	46.6	66.8	105	1.6	72.3	29.3	2.8	19	1	19.7	<0.1
832500	Rock	0.003	42.7	2	0.07	241	0.050	6.19	2.283	3.86	21.4	87.1	92	1.9	73.4	28.7	2.7	7	1	21.1	<0.1
832501	Rock	0.003	45.1	4	0.06	266	0.052	6.50	2.311	3.84	41.4	84.0	93	2.0	76.5	30.7	2.8	6	1	20.3	<0.1
832502	Rock	0.004	45.9	4	0.03	267	0.053	6.58	2.564	3.87	27.2	88.9	97	2.0	80.8	31.8	2.9	7	1	26.0	<0.1
832503	Rock	0.004	48.0	4	0.04	272	0.050	6.34	2.433	3.78	16.1	85.5	104	2.1	77.5	28.9	2.6	6	1	22.7	<0.1
832504	Rock Pulp	0.027	5.3	72	0.14	126	0.068	3.88	0.618	2.38	1.6	21.7	12	2.7	3.6	4.3	0.3	1	1	19.2	0.8
832505	Rock	0.004	44.6	3	0.03	273	0.050	6.17	2.487	3.98	106.8	70.5	93	1.6	67.8	28.0	2.8	8	1	21.5	<0.1
832506	Rock	0.004	52.2	4	0.04	337	0.058	6.31	2.429	3.73	134.9	77.3	111	2.1	59.6	27.9	2.7	7	1	25.8	<0.1
832507	Rock	0.004	49.4	5	0.04	318	0.056	6.60	2.549	3.37	47.8	80.6	100	2.1	70.5	31.1	3.0	5	1	36.7	<0.1
832508	Rock	0.003	55.6	5	0.04	349	0.052	6.42	2.607	3.91	74.0	86.5	110	1.5	69.4	34.1	3.0	7	1	25.2	<0.1
832509	Rock	0.004	54.3	4	0.05	340	0.057	6.40	2.577	3.86	52.1	90.0	110	1.6	64.3	23.9	2.8	10	1	28.0	<0.1
832510	Rock	0.005	53.1	4	0.05	288	0.057	6.29	2.397	3.66	54.2	88.7	110	1.7	62.4	24.1	2.9	8	1	25.3	<0.1



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Report Date:

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Part 1

CERTIFICATE OF ANALYSIS

VAN08008888.2

	Method Analyte Unit MDL	WGHT	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
832511	Rock	0.59	148.0	3.9	22.0	29	<0.1	0.8	1.0	233	1.06	2	21.1	<0.1	39.0	47	0.2	1.4	0.2	2	0.84
832512	Rock	0.56	42.1	4.4	19.5	24	<0.1	1.0	0.8	186	0.94	2	16.5	<0.1	33.4	43	0.1	1.1	1.1	4	0.81
832513	Rock	0.67	113.1	3.5	21.2	21	<0.1	0.3	0.9	160	0.85	2	17.8	<0.1	31.9	41	<0.1	1.0	0.2	2	0.62
832514	Rock	0.58	736.3	4.0	23.3	20	<0.1	1.2	0.8	143	0.84	2	20.0	<0.1	38.3	38	0.3	0.8	1.3	1	0.59
832515	Rock	0.56	61.5	4.4	22.5	19	<0.1	0.9	0.8	142	0.80	2	17.7	<0.1	37.1	39	<0.1	0.5	0.2	2	0.59
832516	Sand	0.34	1.7	6.1	17.3	22	<0.1	6.6	2.7	161	0.92	3	1.0	<0.1	4.8	235	0.2	0.4	<0.1	14	0.76
832517	Rock	0.57	67.0	3.1	23.2	21	<0.1	1.0	1.0	168	0.88	<1	19.2	<0.1	36.4	40	0.2	0.6	0.2	9	0.62
832518	Rock	0.57	21.5	5.7	23.1	19	<0.1	2.1	0.9	174	0.97	1	17.8	<0.1	37.4	42	0.2	0.9	0.1	7	0.60
832519	Rock	0.57	23.9	5.2	20.7	22	<0.1	0.5	0.8	146	0.84	2	19.0	<0.1	39.3	37	0.2	1.1	0.4	8	0.51
832520	Rock	0.50	58.8	7.0	20.8	17	<0.1	1.0	0.7	196	0.89	2	17.3	<0.1	34.9	38	<0.1	1.1	0.4	9	1.02
832521	Rock	0.56	162.1	8.5	23.0	45	<0.1	1.4	1.1	188	0.96	3	18.3	<0.1	37.6	44	0.6	1.3	0.5	9	0.64
832522	Rock Pulp	0.05	1180	8590	282.3	145	114.1	3.4	2.6	207	1.64	68	0.9	<0.1	0.7	176	2.3	267.2	11.4	29	0.64
832523	Rock	0.59	569.3	10.5	22.3	18	<0.1	1.2	0.7	205	0.86	3	16.4	<0.1	37.1	38	0.3	1.3	0.7	7	0.56
832524	Rock	0.61	62.4	6.3	21.9	23	0.1	0.7	1.0	270	1.07	2	16.3	<0.1	39.5	37	0.1	0.9	0.3	4	0.68
832525	Rock	0.55	92.4	6.7	22.8	15	<0.1	0.8	0.9	178	0.82	3	19.0	<0.1	39.6	28	0.1	1.2	0.2	<1	0.53
832526	Rock	0.50	9.9	7.0	22.0	15	<0.1	1.1	0.6	137	0.61	3	23.9	<0.1	46.4	29	0.3	1.2	0.2	1	0.53
832527	Rock	0.63	102.5	5.0	28.7	9	0.2	1.7	0.4	140	0.69	2	22.7	<0.1	43.2	28	0.2	1.7	6.5	2	0.47
832528	Rock	0.49	169.7	4.3	27.3	15	<0.1	0.7	0.5	135	0.62	2	22.1	<0.1	40.9	26	0.2	1.4	4.8	<1	0.44
832529	Rock	0.55	267.3	7.0	19.7	12	<0.1	1.9	0.4	95	0.44	2	22.2	<0.1	36.0	24	0.3	0.8	0.2	3	0.37
832530	Rock	0.50	105.7	9.6	44.9	27	0.2	1.6	0.7	127	0.57	2	22.0	<0.1	34.6	28	0.4	1.3	6.1	<1	0.50
832531	Rock	0.56	1118	7.6	26.2	18	<0.1	1.2	0.4	84	0.41	3	15.0	<0.1	27.2	30	0.4	0.8	1.3	<1	0.39
832532	Rock	0.56	362.2	9.7	26.5	32	<0.1	0.8	0.6	153	0.72	6	16.4	<0.1	38.5	32	0.3	1.9	2.7	1	0.52
832533	Rock	0.58	28.6	17.3	36.1	136	0.2	1.1	0.7	124	0.62	4	16.3	<0.1	31.5	30	1.6	1.0	4.1	3	0.47
832534	Rock	0.90	1.0	1.9	1.4	8	<0.1	7.2	1.4	207	0.24	<1	0.2	<0.1	0.3	98	0.3	0.2	<0.1	7	21.92
832535	Rock	0.76	34.6	10.1	29.5	34	0.2	1.9	0.6	120	0.56	4	17.5	<0.1	33.8	29	0.3	1.2	1.0	5	0.58
832536	Rock	0.62	41.5	9.4	30.0	42	0.2	0.9	0.6	108	0.46	3	17.5	<0.1	36.8	32	0.4	1.6	0.6	5	0.51
832537	Rock	0.47	1137	9.4	51.2	69	0.4	1.3	1.4	228	0.99	4	13.8	<0.1	28.8	61	0.7	1.3	1.8	13	0.71
832538	Rock	0.55	229.6	10.0	63.9	96	0.5	1.3	2.1	324	1.31	2	13.3	<0.1	29.9	78	0.8	1.4	11.1	18	0.85
832539	Rock	0.54	153.3	7.8	22.0	23	<0.1	1.1	0.7	116	0.52	<1	15.7	<0.1	33.2	39	0.2	0.6	0.5	3	0.48
832540	Rock Pulp	0.03	482.8	5869	7.4	56	2.3	3.1	2.5	453	1.05	8	1.5	<0.1	0.9	510	0.2	9.3	0.8	55	2.50



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Part 2

CERTIFICATE OF ANALYSIS

VAN08008888.2

	Method Analyte Unit MDL	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
832511	Rock	0.010	58.1	6	0.13	560	0.087	6.82	2.141	3.87	35.3	81.8	117	2.2	66.4	30.7	3.4	7	2	39.3	<0.1
832512	Rock	0.007	54.6	5	0.14	455	0.077	6.32	2.086	3.71	22.6	81.8	112	1.8	60.6	29.8	3.0	8	2	28.3	<0.1
832513	Rock	0.006	51.7	4	0.08	418	0.063	6.60	2.370	3.65	94.1	63.3	106	2.3	68.0	31.5	6.2	9	2	29.7	<0.1
832514	Rock	0.005	59.6	5	0.07	437	0.068	6.61	2.281	3.86	86.6	68.6	119	1.9	56.9	29.9	3.6	8	2	28.1	<0.1
832515	Rock	0.005	56.6	4	0.06	417	0.064	6.72	2.585	3.86	54.6	75.8	115	1.5	56.1	27.6	3.6	8	2	26.4	<0.1
832516	Sand	0.025	15.8	6	0.18	848	0.050	5.01	1.680	2.82	0.3	50.9	28	0.4	8.5	2.6	0.2	1	1	10.6	<0.1
832517	Rock	0.006	61.8	3	0.07	466	0.073	6.41	2.320	3.76	77.1	87.9	125	1.8	58.3	30.2	3.5	9	2	34.0	<0.1
832518	Rock	0.006	64.2	4	0.08	475	0.086	6.49	2.603	3.43	20.2	80.9	130	2.7	61.5	30.7	3.6	8	2	34.4	<0.1
832519	Rock	0.005	51.9	2	0.08	490	0.069	5.97	2.084	3.28	6.9	71.1	105	1.7	58.7	29.8	3.4	7	2	29.5	<0.1
832520	Rock	0.006	51.2	3	0.12	385	0.066	6.10	1.888	3.33	8.3	73.2	104	2.3	61.6	28.5	3.2	7	2	30.3	<0.1
832521	Rock	0.010	60.1	5	0.12	569	0.081	6.06	2.098	3.56	68.7	72.0	117	3.9	57.1	31.2	3.0	6	2	37.1	<0.1
832522	Rock Pulp	0.014	4.9	14	0.13	333	0.040	2.97	0.457	1.52	2.7	7.2	9	1.7	1.9	1.9	<0.1	<1	<1	8.8	0.7
832523	Rock	0.007	56.2	4	0.10	457	0.075	6.20	2.009	3.37	48.9	75.4	112	2.2	55.1	28.3	3.1	8	2	29.9	<0.1
832524	Rock	0.007	75.5	3	0.10	450	0.087	6.43	2.454	3.41	17.5	90.4	150	2.6	62.4	31.0	2.9	7	2	33.0	<0.1
832525	Rock	0.003	53.0	4	0.07	291	0.056	6.20	2.139	3.48	22.7	87.4	112	2.3	64.7	30.1	2.6	6	1	24.5	<0.1
832526	Rock	0.002	39.2	3	0.05	366	0.055	5.90	2.267	3.69	23.8	70.6	84	1.8	68.2	32.3	2.6	8	1	18.5	<0.1
832527	Rock	0.001	37.0	4	0.07	332	0.043	6.03	2.056	3.57	35.1	84.6	81	2.9	73.9	34.0	3.2	6	1	27.3	<0.1
832528	Rock	0.002	34.1	3	0.06	305	0.042	5.73	1.973	3.68	47.6	78.2	74	4.1	67.4	32.8	2.8	5	1	25.4	<0.1
832529	Rock	0.002	36.5	4	0.05	234	0.035	5.28	1.994	3.74	32.2	63.0	80	2.4	55.8	31.0	3.2	6	1	17.7	<0.1
832530	Rock	0.002	48.2	5	0.05	290	0.042	5.60	2.074	3.94	46.4	68.9	98	2.8	64.4	29.0	2.9	6	1	22.6	<0.1
832531	Rock	0.002	34.1	4	0.04	331	0.034	5.61	2.044	4.33	99.9	51.0	70	2.1	52.4	23.2	2.2	6	1	18.4	0.1
832532	Rock	0.004	66.9	6	0.08	368	0.060	5.98	2.388	3.86	32.9	63.8	136	2.8	58.4	25.8	2.3	11	2	27.4	0.1
832533	Rock	0.003	41.5	5	0.05	323	0.044	6.02	2.338	3.75	66.8	55.3	91	5.9	58.7	22.9	2.7	7	1	21.0	<0.1
832534	Rock	0.028	1.7	4	10.58	8	0.014	0.24	0.014	0.04	0.5	1.8	3	<0.1	3.0	0.4	<0.1	<1	<1	3.2	0.2
832535	Rock	0.003	44.2	3	0.08	278	0.046	5.62	2.132	3.58	43.2	58.0	90	4.1	59.6	27.3	3.4	8	<1	20.0	<0.1
832536	Rock	0.002	42.8	4	0.09	339	0.048	5.77	1.881	3.95	84.4	57.1	87	5.1	42.5	22.1	2.4	7	<1	18.1	<0.1
832537	Rock	0.018	50.2	8	0.15	666	0.102	6.32	1.776	4.11	151.0	60.7	99	11.0	37.7	23.3	2.2	6	2	37.3	0.2
832538	Rock	0.028	55.4	13	0.20	859	0.143	6.58	1.985	3.99	>200	65.3	108	8.5	33.6	25.0	2.1	9	3	48.9	<0.1
832539	Rock	0.003	48.0	6	0.04	423	0.050	5.85	2.299	3.86	87.8	51.9	96	3.6	39.9	21.9	2.8	6	1	14.1	<0.1
832540	Rock Pulp	0.038	5.6	4	0.30	540	0.084	8.31	2.494	2.17	2.9	12.3	12	1.2	4.1	1.5	<0.1	1	2	13.3	0.5



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CERTIFICATE OF ANALYSIS

VAN08008888.2

	Method Analyte Unit MDL	WGHT	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	0.1	1	0.1	0.1	0.1	1
832541	Rock	0.54	110.9	27.2	42.8	53	0.3	0.8	0.8	137	0.66	6	17.4	<0.1	34.8	36	0.5	1.1	2.3	7
832542	Rock	0.55	167.0	12.6	23.7	26	<0.1	1.5	0.8	189	0.70	1	18.7	<0.1	35.3	40	0.5	0.4	0.6	8
832543	Rock	0.60	245.4	14.1	35.3	25	0.3	1.5	0.9	208	0.74	3	16.3	<0.1	27.4	38	0.3	1.4	1.2	3
832544	Rock	0.69	160.7	23.8	34.0	35	0.2	0.8	0.8	365	0.69	6	19.7	<0.1	49.1	38	0.2	2.4	1.3	3
832545	Rock	0.55	118.0	12.0	25.1	17	0.1	0.9	0.9	172	0.74	4	13.4	<0.1	31.9	38	0.2	1.4	0.4	<1
832546	Rock	0.57	125.5	11.6	25.3	19	0.1	0.8	0.9	186	0.74	5	14.4	<0.1	31.3	38	0.2	1.4	0.5	5
832547	Rock	0.57	170.9	10.9	22.0	23	<0.1	1.0	1.0	190	0.78	5	13.4	<0.1	28.1	45	0.2	2.0	2.1	5
832548	Rock	0.54	733.8	20.4	35.4	81	0.3	1.7	2.3	350	1.48	7	11.5	<0.1	23.0	75	0.9	2.4	1.2	16
832549	Rock	0.57	23.8	15.8	22.2	20	0.2	1.3	0.9	142	0.83	5	16.8	<0.1	28.5	39	0.2	1.1	0.7	4
832550	Rock	0.67	32.9	10.2	20.9	23	0.1	1.3	0.7	203	0.71	<1	13.9	<0.1	28.5	34	0.1	1.3	0.3	4
832551	Rock	0.51	601.5	15.6	26.6	41	0.2	1.7	0.8	298	0.63	1	16.5	<0.1	35.2	32	0.5	2.7	0.9	<1
832552	Sand	0.60	1.1	3.7	17.2	17	<0.1	7.9	2.9	148	0.92	2	0.8	<0.1	3.8	229	0.2	0.2	<0.1	10
832553	Rock	0.65	305.9	11.7	19.0	19	<0.1	0.5	0.5	201	0.51	1	14.1	<0.1	27.0	28	0.4	1.8	0.6	<1
832554	Rock	0.62	57.2	13.0	22.5	13	<0.1	1.4	0.6	273	0.60	1	17.0	<0.1	38.6	37	0.2	2.6	0.3	4
832555	Rock	0.84	26.2	11.5	24.2	23	<0.1	0.3	0.7	244	0.65	2	25.9	<0.1	60.7	25	0.2	1.4	0.3	5
832556	Rock	0.57	439.2	8.4	29.1	24	<0.1	0.7	0.4	94	0.58	3	25.5	<0.1	47.1	17	0.4	1.4	0.5	3
832557	Rock	0.57	337.6	13.5	67.3	43	1.5	0.4	0.4	173	0.62	2	20.6	<0.1	40.0	17	0.7	3.0	13.4	4
832558	Rock Pulp	0.03	394.4	9918	39.1	29	23.4	4.3	1.5	208	1.18	20	1.0	<0.1	2.1	200	0.7	66.2	3.5	34
832559	Rock	0.70	219.8	8.8	48.0	29	1.0	0.2	0.4	138	0.60	1	20.1	<0.1	40.1	21	0.3	1.4	3.0	1
832560	Rock	0.59	373.0	9.8	24.0	25	0.1	0.4	0.5	133	0.60	1	19.1	<0.1	35.4	22	0.2	1.6	0.5	4
832561	Rock	0.51	101.6	16.6	22.2	44	0.2	0.5	0.6	124	0.68	2	22.1	<0.1	40.6	21	0.6	1.3	0.8	1
832562	Rock	0.50	299.1	12.4	21.9	32	<0.1	0.5	0.7	152	0.67	1	19.5	<0.1	41.8	26	0.4	2.0	0.8	<1
832563	Rock	0.58	219.4	43.9	20.6	37	0.1	0.6	0.4	167	0.61	2	15.9	<0.1	32.3	26	0.5	1.9	1.1	4
832564	Rock	0.49	227.5	25.6	21.1	44	<0.1	0.4	0.4	213	0.65	<1	14.4	<0.1	30.3	28	0.6	2.1	1.1	5
832565	Rock	0.51	387.7	7.2	26.1	40	<0.1	0.4	0.4	120	0.71	2	25.9	<0.1	50.2	25	0.4	1.0	0.6	3
832566	Rock	0.61	265.5	7.1	99.8	32	2.4	0.8	0.6	132	0.81	7	24.6	<0.1	52.4	24	0.4	9.3	45.0	5
832567	Rock	0.62	895.0	13.2	37.0	90	0.4	0.9	0.5	132	0.72	9	22.8	<0.1	45.2	22	1.3	1.5	2.1	<1
832568	Rock	0.56	77.0	6.0	26.1	28	<0.1	0.5	0.4	119	0.70	4	20.3	<0.1	40.6	22	0.1	1.1	1.0	2
832569	Rock	0.66	569.2	6.7	31.8	47	<0.1	0.4	0.4	137	0.75	7	19.0	<0.1	43.6	23	0.9	0.9	0.5	3
832570	Rock	0.75	1.2	2.0	2.6	8	0.2	3.1	1.0	240	0.21	1	0.2	<0.1	0.6	107	0.2	0.1	<0.1	6



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Part 2

CERTIFICATE OF ANALYSIS

VAN08008888.2

	Method Analyte Unit MDL	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
832541	Rock	0.006	53.0	6	0.05	410	0.057	5.66	2.251	3.60	85.7	58.8	103	7.3	36.2	23.3	3.0	7	1	18.3	0.1
832542	Rock	0.005	59.2	6	0.05	439	0.053	6.06	2.610	3.92	66.3	62.8	113	3.2	40.4	22.5	2.5	8	2	22.2	<0.1
832543	Rock	0.004	52.8	6	0.08	417	0.052	5.81	1.808	3.62	21.8	55.7	104	3.9	40.7	18.9	2.5	7	1	27.8	0.1
832544	Rock	0.004	60.1	5	0.08	373	0.049	5.84	1.681	3.26	29.6	60.4	119	7.6	43.5	22.9	2.4	7	2	35.3	0.2
832545	Rock	0.006	75.0	6	0.08	456	0.075	6.18	1.742	3.72	15.1	66.9	139	3.0	40.9	20.9	2.0	5	2	29.2	<0.1
832546	Rock	0.006	67.4	4	0.08	511	0.062	6.16	1.782	4.26	13.0	62.5	134	2.6	39.9	22.0	1.9	5	2	25.9	<0.1
832547	Rock	0.014	62.5	4	0.12	738	0.083	6.03	1.646	3.55	29.3	51.6	118	3.9	39.3	26.9	3.1	5	2	32.0	<0.1
832548	Rock	0.033	57.9	6	0.23	901	0.157	6.47	1.455	3.70	42.5	48.3	108	12.1	32.1	25.9	1.9	5	3	58.4	0.2
832549	Rock	0.006	51.4	6	0.05	451	0.064	5.63	2.341	3.05	76.3	55.7	97	3.7	36.0	26.1	2.0	5	2	21.0	<0.1
832550	Rock	0.004	41.2	5	0.11	280	0.047	5.63	1.578	3.51	40.8	50.8	87	2.9	47.9	21.7	2.1	5	1	23.4	<0.1
832551	Rock	0.002	41.1	6	0.12	217	0.044	5.35	1.298	3.45	22.4	46.2	88	3.7	61.5	29.0	2.5	7	<1	31.8	0.1
832552	Sand	0.032	14.8	7	0.17	887	0.052	4.92	1.740	2.97	0.4	47.1	28	0.1	5.2	2.5	0.1	1	2	11.3	<0.1
832553	Rock	0.002	23.9	<1	0.08	242	0.034	4.66	1.479	3.51	18.3	57.4	52	3.3	42.3	24.2	2.1	5	<1	26.6	<0.1
832554	Rock	0.003	30.7	<1	0.10	369	0.041	5.68	2.065	3.73	6.8	67.7	72	3.2	54.9	23.6	1.9	5	<1	26.0	<0.1
832555	Rock	0.001	27.0	<1	0.08	142	0.043	5.56	1.875	3.57	12.4	50.9	69	5.3	82.9	39.9	4.7	10	<1	26.1	<0.1
832556	Rock	0.002	32.1	<1	0.04	109	0.040	5.10	2.132	3.77	19.1	61.5	71	4.0	80.5	41.3	5.4	6	1	22.0	<0.1
832557	Rock	0.002	27.3	<1	0.05	102	0.038	4.81	1.672	3.33	73.1	61.5	62	5.7	70.6	33.1	3.4	12	<1	28.7	<0.1
832558	Rock Pulp	0.025	4.8	60	0.13	183	0.070	3.44	0.575	2.08	1.2	20.2	10	2.3	4.2	4.5	0.2	1	1	22.4	0.8
832559	Rock	0.003	35.9	<1	0.06	132	0.041	5.18	2.141	3.43	20.4	61.3	77	5.4	68.8	32.6	4.6	8	<1	25.7	<0.1
832560	Rock	0.002	32.0	<1	0.05	136	0.042	4.96	1.926	3.64	12.6	61.2	69	5.7	72.5	33.9	4.6	6	1	26.3	<0.1
832561	Rock	0.004	33.6	<1	0.05	176	0.047	5.21	2.127	3.76	48.2	61.2	73	8.9	74.6	36.6	4.4	8	1	25.2	<0.1
832562	Rock	0.004	40.4	<1	0.06	244	0.051	5.08	2.030	3.76	21.1	77.3	91	5.0	58.7	32.2	4.4	13	1	26.4	<0.1
832563	Rock	0.003	30.7	<1	0.06	264	0.041	4.76	1.805	3.48	51.6	59.2	67	10.8	57.2	27.8	4.3	8	1	29.8	<0.1
832564	Rock	0.003	32.3	<1	0.07	253	0.046	5.05	1.743	3.63	>200	61.6	76	10.2	62.1	30.5	4.0	9	1	31.3	<0.1
832565	Rock	0.003	39.2	<1	0.04	211	0.051	5.44	2.284	3.98	34.6	76.1	86	4.0	72.5	35.1	5.3	9	1	25.0	<0.1
832566	Rock	0.004	47.1	3	0.04	190	0.059	5.65	2.675	3.79	10.8	77.1	100	4.3	74.9	36.7	4.7	7	1	28.3	<0.1
832567	Rock	0.003	41.2	2	0.04	207	0.052	5.23	2.487	3.97	32.1	69.5	89	5.7	78.7	33.5	4.9	16	1	22.8	0.1
832568	Rock	0.002	41.3	6	0.04	223	0.048	5.57	2.394	3.76	35.9	58.3	90	3.8	74.4	30.6	3.7	7	1	20.2	<0.1
832569	Rock	0.003	41.6	4	0.06	231	0.049	5.69	2.309	3.71	23.9	68.7	90	3.6	71.4	30.9	4.2	8	1	23.8	<0.1
832570	Rock	0.031	2.2	3	10.04	15	0.006	0.27	0.012	0.03	0.4	2.0	3	<0.1	3.0	0.2	<0.1	<1	<1	2.2	<0.1



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Part 1

CERTIFICATE OF ANALYSIS

VAN08008888.2

	Method Analyte Unit MDL	WGHT	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	0.1	1	0.1	0.1	0.1	1
832571	Rock	0.63	126.0	5.4	34.6	38	<0.1	0.6	0.4	104	0.62	8	17.6	<0.1	36.2	23	0.3	1.1	0.6	3
832572	Rock	0.57	54.5	4.1	26.6	24	<0.1	0.8	0.4	122	0.70	2	20.7	<0.1	41.0	21	<0.1	0.9	0.2	3
832573	Rock	0.54	1090	6.0	23.2	28	<0.1	0.4	0.5	131	0.71	2	20.3	<0.1	43.6	23	0.5	1.1	1.0	3
832574	Rock	0.51	313.3	9.0	33.3	34	<0.1	0.7	0.5	126	0.67	14	21.0	<0.1	42.6	23	0.6	1.6	1.4	3
832575	Rock	0.52	746.7	10.7	22.8	30	<0.1	0.6	0.4	125	0.73	<1	21.4	<0.1	41.1	25	0.8	0.9	0.8	4
832576	Rock Pulp	0.03	1178	8017	281.0	123	108.0	3.2	2.4	201	1.59	70	1.3	<0.1	0.6	166	2.0	256.7	10.7	27
832577	Rock	0.58	76.0	5.1	8.9	10	<0.1	0.5	0.2	41	0.22	<1	11.6	<0.1	15.3	8	<0.1	0.4	0.7	2
832578	Rock	0.68	21.2	4.0	8.8	10	<0.1	0.5	<0.2	42	0.24	<1	8.4	<0.1	14.7	9	<0.1	0.3	0.8	<1
832579	Rock	0.73	19.0	6.3	24.8	25	<0.1	0.6	0.5	130	0.77	<1	21.3	<0.1	39.8	26	0.2	0.5	1.3	2
832580	Rock	0.70	313.3	22.9	22.7	265	<0.1	0.6	0.5	155	0.70	8	23.1	<0.1	44.5	27	3.8	0.6	1.6	<1
832581	Rock	0.80	212.2	10.8	22.9	65	<0.1	0.9	0.5	158	0.78	5	21.4	<0.1	46.8	27	0.4	0.9	0.8	<1
832582	Rock	0.66	287.8	11.7	23.3	42	<0.1	0.4	0.5	158	0.80	4	22.3	<0.1	47.3	26	0.2	0.8	1.0	<1
832583	Rock	0.60	244.2	8.4	20.3	35	<0.1	1.0	0.5	154	0.73	3	20.5	<0.1	46.4	30	0.2	0.7	0.7	3
832584	Rock	0.72	42.7	4.9	22.4	25	<0.1	0.6	0.4	150	0.77	<1	20.9	<0.1	46.1	25	<0.1	0.4	0.3	<1



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Part 2

CERTIFICATE OF ANALYSIS

VAN08008888.2

	Method Analyte Unit MDL	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1
832571	Rock	0.002	37.6	<1	0.07	216	0.043	4.75	2.169	3.58	16.3	59.8	81	3.9	71.1	29.2	3.7	11	1	21.7
832572	Rock	0.003	36.6	<1	0.08	180	0.047	5.01	2.375	3.60	37.5	75.6	82	4.2	76.9	33.0	3.9	8	1	24.9
832573	Rock	0.002	40.7	<1	0.05	202	0.048	5.35	2.207	3.72	36.4	61.2	90	5.1	74.8	34.0	3.5	9	1	23.4
832574	Rock	0.003	38.9	<1	0.05	224	0.047	5.27	2.077	3.69	20.9	59.1	85	5.0	73.0	33.7	3.6	6	1	23.3
832575	Rock	0.003	39.5	1	0.04	201	0.050	5.44	2.705	3.70	16.4	81.2	83	4.8	79.0	36.3	5.1	7	1	22.8
832576	Rock Pulp	0.016	4.8	14	0.13	306	0.042	2.71	0.468	1.52	2.5	7.2	9	1.9	2.2	1.9	<0.1	<1	<1	10.3
832577	Rock	<0.001	13.7	5	0.01	57	0.016	2.21	0.947	1.63	29.8	25.7	31	1.2	31.5	15.1	1.5	3	<1	5.9
832578	Rock	0.001	15.6	2	0.01	81	0.018	2.21	0.920	1.52	8.5	22.8	31	1.4	27.8	13.3	1.5	3	<1	9.0
832579	Rock	0.003	38.2	2	0.03	246	0.051	5.30	2.586	3.62	16.0	60.4	87	4.0	81.7	37.0	4.2	6	1	28.2
832580	Rock	0.004	46.5	6	0.04	243	0.051	5.90	2.151	4.62	139.5	63.7	96	7.7	71.8	36.3	4.3	6	2	22.1
832581	Rock	0.003	45.0	6	0.05	225	0.057	5.96	2.328	2.88	58.1	71.2	93	6.2	77.6	34.1	3.5	8	2	24.3
832582	Rock	0.004	46.9	6	0.05	204	0.059	6.10	2.233	2.67	94.8	71.2	96	7.4	80.7	34.1	3.5	7	2	25.3
832583	Rock	0.003	44.2	6	0.05	259	0.056	6.14	2.389	2.99	51.8	71.0	92	5.6	65.9	32.7	3.3	7	1	20.5
832584	Rock	0.004	39.1	16	0.04	250	0.054	5.71	2.670	3.84	20.8	79.0	92	5.4	80.1	36.3	3.4	7	1	26.1



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Ruby Creek Mine

Report Date:

November 18, 2008

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Part 1

QUALITY CONTROL REPORT

VAN08008888.2

	Method Analyte Unit MDL	WGHT	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	0.1	1	0.1	0.1	0.1	1
Pulp Duplicates																				
832466	Rock	0.47	114.7	132.3	5468	192	7.9	1.7	<0.2	196	1.17	2603	14.4	<0.1	24.9	6	5.2	50.9	0.7	4
REP 832466	QC		111.8	123.3	5348	184	7.9	1.7	<0.2	195	1.15	2540	13.9	<0.1	24.4	5	4.7	49.5	0.7	4
832493	Rock	0.55	139.7	6.2	75.5	96	0.3	1.0	1.0	294	0.81	134	25.7	<0.1	50.6	13	0.7	7.5	2.2	<1
REP 832493	QC		148.8	6.8	78.5	96	0.3	0.7	0.7	296	0.80	134	26.6	<0.1	51.4	14	0.8	8.0	2.3	<1
832532	Rock	0.56	362.2	9.7	26.5	32	<0.1	0.8	0.6	153	0.72	6	16.4	<0.1	38.5	32	0.3	1.9	2.7	1
REP 832532	QC		352.7	8.7	26.7	29	<0.1	1.2	0.6	150	0.74	6	17.7	<0.1	42.5	34	0.6	1.8	2.9	3
832581	Rock	0.80	212.2	10.8	22.9	65	<0.1	0.9	0.5	158	0.78	5	21.4	<0.1	46.8	27	0.4	0.9	0.8	<1
REP 832581	QC		215.0	10.4	22.7	58	<0.1	0.5	0.4	150	0.76	4	23.1	<0.1	45.1	26	0.5	1.0	0.8	1
Reference Materials																				
STD DST6	Standard		12.4	146.2	36.1	187	0.3	31.9	14.6	928	3.84	28	7.1	<0.1	5.9	312	7.0	5.5	5.2	102
STD DST6	Standard		12.6	143.2	39.4	181	0.3	33.7	15.8	977	3.90	26	8.6	<0.1	7.0	336	7.0	5.3	4.9	106
STD DST6	Standard		12.0	114.3	39.0	161	0.3	31.7	13.0	920	3.69	23	7.4	<0.1	6.5	304	6.1	5.8	5.2	104
STD DST6	Standard		12.3	131.4	36.2	183	0.3	31.3	14.3	919	3.68	24	7.5	<0.1	6.1	300	6.0	5.1	4.9	100
STD DST6	Standard		12.2	132.3	40.5	165	0.3	30.3	14.0	971	3.89	25	8.2	<0.1	7.2	323	6.5	5.8	5.1	102
STD GRANITE_SPIKE	Standard																			
STD GRANITE_SPIKE	Standard																			
STD GRANITE_SPIKE	Standard																			
STD GRANITE_SPIKE	Standard																			
STD OREAS45P	Standard		2.2	740.9	26.0	160	0.3	386.5	120.2	1296	19.32	15	2.1	<0.1	9.2	33	0.2	0.9	0.2	260
STD OREAS45P	Standard		1.8	738.1	24.0	158	0.4	387.1	124.5	1288	19.75	13	2.2	<0.1	9.4	30	0.3	0.7	0.3	274
STD OREAS45P	Standard		2.2	691.2	21.3	137	0.3	378.2	117.9	1257	18.46	10	1.8	<0.1	9.1	32	0.2	0.7	0.2	258
STD OREAS45P	Standard		2.2	745.7	23.6	155	0.3	391.8	125.1	1291	19.66	11	2.3	<0.1	9.2	30	0.2	0.8	0.2	273
STD OREAS45P	Standard		1.9	738.2	24.3	144	0.3	359.1	127.2	1344	19.62	12	2.3	<0.1	9.5	34	0.2	0.8	0.2	271
STD DST6 Expected			12.7	129.7	36.7	176	0.4	30.4	13.7	980	3.91	24	7.8	0	6.9	298	5.6	5.4	4.7	115
STD OREAS45P Expected			1.9	749	22	141	0.32	385	120	1270	19.22	13.4	2.4	0.055	9.8	32.6	0.2	0.92	0.21	267
STD GRANITE_SPIKE																				
BLK	Blank		<0.1	<0.1	1.3	<1	<0.1	<0.1	<0.2	5	<0.01	<1	0.5	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1



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Adanac Molybdenum Corporation

#200, 2055 - 152nd Street
Surrey BC V4A 4N7 Canada

Project:

Ruby Creek Mine

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Part 2

QUALITY CONTROL REPORT

VAN08008888.2

	Method Analyte Unit MDL	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1
Pulp Duplicates																				
832466	Rock	<0.001	23.4	4	0.09	65	0.042	4.71	0.021	2.19	13.9	47.2	30	7.0	13.1	21.2	2.8	4	1	79.4
REP 832466	QC	<0.001	23.8	4	0.09	63	0.040	4.48	0.020	2.27	13.7	46.9	31	6.8	13.5	21.6	2.8	3	1	76.2
832493	Rock	0.001	46.0	4	0.06	241	0.047	6.36	1.077	4.04	29.7	78.0	95	2.2	72.3	34.9	3.4	5	1	33.4
REP 832493	QC	0.002	45.7	4	0.07	260	0.049	6.34	1.146	3.98	35.7	82.8	95	2.5	70.3	34.7	3.7	5	1	34.8
832532	Rock	0.004	66.9	6	0.08	368	0.060	5.98	2.388	3.86	32.9	63.8	136	2.8	58.4	25.8	2.3	11	2	27.4
REP 832532	QC	0.005	65.6	4	0.08	361	0.059	5.79	2.246	3.83	28.0	62.3	137	3.7	58.9	26.9	2.4	11	2	27.1
832581	Rock	0.003	45.0	6	0.05	225	0.057	5.96	2.328	2.88	58.1	71.2	93	6.2	77.6	34.1	3.5	8	2	24.3
REP 832581	QC	0.003	43.2	5	0.05	222	0.054	5.99	2.235	2.84	55.2	76.3	87	6.5	73.6	32.6	3.4	8	2	24.5
Reference Materials																				
STD DST6	Standard	0.088	23.1	253	1.03	671	0.374	6.65	1.661	1.51	7.8	63.0	45	7.1	16.2	10.1	0.5	3	11	22.7
STD DST6	Standard	0.103	27.0	230	1.09	718	0.379	7.26	1.867	1.61	8.2	65.2	57	5.9	14.5	9.5	0.5	3	12	27.1
STD DST6	Standard	0.099	23.5	217	1.02	687	0.371	6.40	1.817	1.42	8.4	58.4	50	6.5	14.5	10.6	0.5	2	10	25.7
STD DST6	Standard	0.090	20.0	215	1.01	630	0.363	6.48	1.650	1.54	8.2	60.3	43	6.0	12.5	9.6	0.6	3	11	27.1
STD DST6	Standard	0.095	25.4	237	1.09	635	0.390	7.05	1.631	1.43	8.3	63.9	51	6.2	15.6	10.5	0.6	3	12	28.4
STD GRANITE_SPIKE	Standard																			
STD GRANITE_SPIKE	Standard																			
STD GRANITE_SPIKE	Standard																			
STD GRANITE_SPIKE	Standard																			
STD OREAS45P	Standard	0.041	27.1	1114	0.22	278	1.007	6.82	0.086	0.33	0.9	154.2	49	2.7	14.3	20.9	1.2	<1	67	13.2
STD OREAS45P	Standard	0.049	24.6	1048	0.20	273	0.975	7.00	0.076	0.38	1.3	145.3	48	2.3	12.1	19.5	1.2	<1	67	15.0
STD OREAS45P	Standard	0.047	24.3	1063	0.18	271	0.981	6.65	0.073	0.36	1.3	146.2	48	2.3	12.2	19.6	1.2	<1	63	13.9
STD OREAS45P	Standard	0.047	25.3	1056	0.19	270	1.018	7.00	0.074	0.37	1.4	137.1	50	2.0	11.1	19.2	1.3	1	67	15.0
STD OREAS45P	Standard	0.044	26.1	1067	0.23	272	1.067	7.17	0.079	0.34	1.1	157.0	48	2.5	13.1	20.4	1.3	<1	68	14.9
STD DST6 Expected		0.099	25.7	230	1.03	702	0.387	6.92	1.673	1.42	7.4	50.1	52	6.3	15.2	8.1	0.6	3	10	25.4
STD OREAS45P Expected		0.047	24.8	1140	0.22	281	1.18	6.82	0.081	0.35	1.1	154	48.9	2.4	13	24	1.33		67	14.7
STD GRANITE_SPIKE																				
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	0.09	0.005	<0.01	<0.1	0.5	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1



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Part 1

QUALITY CONTROL REPORT

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		WGHT	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	0.1	1	0.1	0.1	0.1	1
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	5	<0.01	<1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.01
BLK	Blank																			
BLK	Blank																			
Prep Wash																				
G1	Prep Blank	<0.01	1.0	2.3	19.4	55	<0.1	5.3	5.6	772	2.32	<1	3.3	<0.1	6.7	742	<0.1	<0.1	0.2	55
G1	Prep Blank	<0.01	0.6	5.8	20.1	58	<0.1	4.9	5.7	787	2.52	<1	3.5	<0.1	7.1	737	<0.1	<0.1	0.3	59



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Part 2

QUALITY CONTROL REPORT

VAN08008888.2

		1EX P %	1EX La ppm	1EX Cr ppm	1EX Mg %	1EX Ba ppm	1EX Ti %	1EX Al %	1EX Na %	1EX K %	1EX W ppm	1EX Zr ppm	1EX Ce ppm	1EX Sn ppm	1EX Y ppm	1EX Nb ppm	1EX Ta ppm	1EX Be ppm	1EX Sc ppm	1EX Li ppm	1EX S %
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	0.07	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
G1	Prep Blank	0.080	24.6	6	0.70	882	0.262	7.78	2.599	2.62	2.3	7.8	48	1.3	15.0	22.0	1.1	2	5	39.1	<0.1
G1	Prep Blank	0.087	26.6	6	0.72	851	0.272	7.66	2.670	2.86	3.0	8.3	51	1.1	16.4	24.7	1.3	3	5	40.6	<0.1

Appendix 3

GDS DDH's., 2 Certificates of Analysis., Zinex Mining Corp.

DDH ADV2-2016-003, Certificate of Analysis WHI16000289.1

DDH ADV2-2016-004+005 Certificate of Analysis WHI1000290.2



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Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Zinex Mining Corp.**
Box 997
Whistler British Columbia V0N 1B0 Canada

Submitted By: Janet Miller
Receiving Lab: Canada-Whitehorse
Received: September 19, 2016
Report Date: October 05, 2016
Page: 1 of 3

CERTIFICATE OF ANALYSIS

WHI16000289.1

CLIENT JOB INFORMATION

Project: Adanac
Shipment ID:
P.O. Number
Number of Samples: 50

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Zinex Mining Corp.
Box 997
Whistler British Columbia V0N 1B0
Canada

CC: Barry Hanslit
Caoimhe Peat

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	50	Crush, split and pulverize 250 g rock to 200 mesh			WHI
AQ202	50	1:1:1 Aqua Regia digestion ICP-MS analysis	30	Completed	VAN
SHP01	50	Per sample shipping charges for branch shipments			VAN
MA370	3	4-Acid Digestion ICP-ES Finish	0.5	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: Adanac
Report Date: October 05, 2016

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CERTIFICATE OF ANALYSIS

WHI16000289.1

	Method	Analyte	Unit	MDL	WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202				
					Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
					kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
					0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1542101	Rock					0.57	19.8	8.6	40.4	23	0.4	0.5	0.4	66	0.64	8.4	<0.5	48.6	4	0.1	1.5	0.2	<2	0.28	0.002
1542102	Rock					0.52	13.6	4.8	15.8	41	0.1	0.3	0.6	129	0.75	29.6	0.7	38.6	3	0.1	0.9	0.2	<2	0.12	0.002
1542103	Rock					0.70	6.8	5.3	6.8	30	<0.1	0.7	0.6	89	0.89	7.9	<0.5	40.4	3	<0.1	0.5	0.3	<2	0.25	0.003
1542104	Rock					0.43	2.1	2.3	8.5	71	0.1	1.3	2.1	220	1.57	3.9	<0.5	18.5	5	0.1	0.3	2.8	11	0.29	0.028
1542105	Rock					0.70	145.7	6.2	15.1	58	0.1	1.2	0.6	92	0.83	65.4	<0.5	33.5	4	0.3	1.8	0.2	<2	0.10	0.005
1542106	Rock					0.59	69.3	3.9	8.9	50	<0.1	0.4	0.6	97	0.98	31.9	<0.5	28.9	3	0.2	0.8	<0.1	3	0.26	0.004
1542107	Rock					0.43	70.0	3.5	6.6	28	<0.1	1.3	0.5	78	0.59	19.7	0.8	25.5	3	0.2	0.6	0.3	<2	0.22	0.004
1542108	Rock					0.41	22.8	6.5	9.2	60	<0.1	0.4	0.6	95	1.00	16.5	<0.5	40.6	3	0.1	0.9	0.2	2	0.29	0.006
1542109	Rock					1.08	212.4	3.6	8.3	75	<0.1	1.3	1.8	553	1.18	2.3	<0.5	40.6	7	0.5	1.0	0.1	4	0.33	0.007
1542110	Rock					1.00	261.3	3.5	9.4	67	0.2	0.5	0.7	241	0.99	26.5	<0.5	41.9	7	0.4	1.6	0.4	3	0.40	0.008
1542111	Rock					0.72	42.3	4.4	5.9	39	<0.1	1.1	0.8	118	0.94	3.0	<0.5	32.8	3	<0.1	0.7	0.1	3	0.36	0.006
1542112	Rock					0.83	64.3	6.5	6.7	128	<0.1	0.8	1.6	384	1.31	5.6	<0.5	24.3	4	0.3	1.3	<0.1	8	0.38	0.022
1542113	Rock					1.15	63.8	6.2	18.0	123	0.6	1.0	0.5	59	0.37	184.2	5.1	26.8	2	3.2	5.0	0.3	<2	0.04	0.002
1542114	Rock					0.49	1280.5	23.9	6294.4	243	3.8	0.3	0.1	52	0.94	2441.1	22.2	30.9	4	10.5	39.6	0.3	<2	0.05	0.002
1542115	Rock					0.62	>2000	61.2	>10000	237	7.2	0.7	0.2	27	0.65	3604.5	122.4	18.2	11	6.8	35.6	0.4	<2	0.03	0.004
1542116	Rock					0.77	653.7	24.6	2504.1	3331	4.8	0.7	1.5	48	1.27	8273.1	270.6	15.1	3	89.9	45.6	0.7	<2	0.07	0.004
1542117	Rock					1.07	185.4	165.6	632.8	432	6.9	0.7	0.4	36	0.69	1024.5	17.2	17.1	7	6.1	12.5	0.2	<2	0.10	0.008
1542118	Rock					0.79	37.3	32.3	346.8	181	23.8	0.2	1.3	2006	0.35	246.2	2.9	32.0	2	2.9	8.6	0.3	<2	0.02	0.001
1542119	Rock					0.58	62.5	27.9	27.6	215	6.6	1.1	0.2	46	1.14	2278.5	23.6	32.3	4	9.1	33.5	0.2	<2	0.04	<0.001
1542120	Rock					0.88	22.4	29.0	483.2	162	5.2	0.2	0.3	898	0.51	238.6	<0.5	42.7	1	5.8	9.0	0.4	<2	0.02	0.001
1542121	Rock					1.00	26.5	14.7	183.6	260	9.6	1.0	0.6	1572	0.43	151.9	1.4	33.8	2	11.0	6.6	0.2	<2	0.03	0.001
1542122	Rock					0.56	81.9	13.8	300.4	138	2.5	0.2	0.1	55	0.51	302.9	6.6	37.1	1	7.6	6.7	0.2	<2	0.13	0.001
1542123	Rock					1.16	45.2	9.9	385.7	259	1.5	0.9	0.3	459	0.56	265.7	2.3	31.1	2	8.6	6.3	0.1	<2	0.04	0.003
1542124	Rock					1.84	91.5	9.8	163.6	446	1.5	0.2	0.5	1804	0.76	333.9	1.7	33.7	4	9.9	7.5	0.5	<2	0.08	0.002
1542125	Rock					1.76	13.3	17.8	850.8	1750	2.7	0.8	0.9	124	0.87	3463.4	49.5	17.2	1	43.6	18.2	0.4	<2	0.04	0.003
1542126	Rock					2.09	24.6	45.1	762.5	1513	5.1	0.5	0.8	88	0.82	1704.5	37.3	16.9	1	31.3	13.4	2.7	<2	0.05	0.003
1542127	Rock					0.93	21.5	12.7	484.1	1051	2.2	1.3	0.8	86	0.66	555.4	17.3	27.4	1	23.5	8.6	0.3	<2	0.07	0.003
1542128	Rock					0.88	83.3	13.6	211.4	211	0.8	0.3	0.3	63	0.71	424.0	10.4	24.3	<1	4.9	7.2	0.1	<2	0.02	0.003
1542129	Rock					0.99	209.6	8.7	1794.1	384	0.5	1.0	0.2	212	0.93	963.9	5.6	22.8	2	8.6	19.6	0.1	<2	0.05	0.005
1542130	Rock					1.14	81.1	9.5	519.9	1509	2.5	0.3	0.6	81	0.42	847.8	27.4	14.8	2	102.8	8.7	0.7	<2	0.05	0.002



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CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL		AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	MA370	MA370
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te	Pb	Ag
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	gm/t
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.02	2
1542101	Rock	36	2	0.03	6	0.009	2	0.40	0.043	0.12	4.8	<0.01	1.4	0.2	<0.05	4	<0.5	<0.2		
1542102	Rock	27	2	0.03	13	0.018	2	0.37	0.037	0.14	62.1	<0.01	1.4	0.2	<0.05	4	<0.5	<0.2		
1542103	Rock	33	2	0.04	9	0.029	1	0.40	0.046	0.20	1.7	<0.01	1.6	0.3	<0.05	5	0.5	<0.2		
1542104	Rock	42	4	0.20	97	0.083	<1	0.80	0.040	0.42	3.9	<0.01	3.6	0.7	<0.05	6	<0.5	<0.2		
1542105	Rock	28	3	0.05	11	0.020	<1	0.42	0.035	0.16	3.0	<0.01	1.5	0.4	<0.05	5	<0.5	0.3		
1542106	Rock	28	2	0.06	14	0.039	<1	0.48	0.039	0.23	12.2	<0.01	2.3	0.4	<0.05	6	<0.5	<0.2		
1542107	Rock	26	3	0.04	9	0.015	2	0.30	0.039	0.15	>100	<0.01	1.4	0.2	<0.05	3	<0.5	<0.2		
1542108	Rock	31	2	0.05	17	0.037	<1	0.49	0.052	0.24	35.1	<0.01	2.1	0.4	<0.05	6	<0.5	<0.2		
1542109	Rock	32	3	0.13	24	0.016	<1	0.87	0.020	0.15	1.8	<0.01	1.9	0.3	<0.05	7	<0.5	<0.2		
1542110	Rock	25	2	0.16	13	0.015	<1	0.95	0.015	0.13	11.3	<0.01	1.9	0.2	<0.05	7	<0.5	<0.2		
1542111	Rock	31	3	0.08	14	0.035	1	0.63	0.040	0.21	26.9	<0.01	2.2	0.3	<0.05	5	<0.5	<0.2		
1542112	Rock	27	3	0.18	48	0.057	<1	0.81	0.032	0.27	63.0	<0.01	2.9	0.5	<0.05	6	<0.5	<0.2		
1542113	Rock	20	2	0.01	5	<0.001	<1	0.28	0.005	0.07	13.3	<0.01	0.4	<0.1	<0.05	2	<0.5	<0.2		
1542114	Rock	33	2	0.02	5	<0.001	5	0.30	0.003	0.16	30.9	<0.01	0.4	0.4	<0.05	2	<0.5	<0.2		
1542115	Rock	43	2	0.01	4	<0.001	2	0.24	0.002	0.08	28.8	0.02	0.2	0.3	0.11	3	3.2	<0.2	1.14	8
1542116	Rock	13	2	0.02	3	<0.001	3	0.22	0.003	0.12	8.1	0.04	0.4	0.8	1.02	2	<0.5	<0.2		
1542117	Rock	35	2	0.03	6	<0.001	2	0.42	0.004	0.13	3.4	<0.01	0.6	0.3	0.11	4	<0.5	<0.2		
1542118	Rock	25	1	<0.01	18	<0.001	3	0.21	0.004	0.11	3.7	<0.01	0.3	1.0	<0.05	2	<0.5	<0.2		
1542119	Rock	7	2	0.01	30	<0.001	6	0.25	0.003	0.20	10.2	<0.01	0.2	0.7	<0.05	2	<0.5	<0.2		
1542120	Rock	29	2	<0.01	6	<0.001	2	0.26	0.005	0.08	3.5	<0.01	0.4	0.3	<0.05	2	<0.5	<0.2		
1542121	Rock	27	2	0.01	9	<0.001	3	0.24	0.006	0.11	3.1	<0.01	0.4	0.2	<0.05	2	<0.5	<0.2		
1542122	Rock	25	1	0.01	6	<0.001	6	0.35	0.004	0.23	5.7	<0.01	0.3	0.5	<0.05	2	<0.5	<0.2		
1542123	Rock	32	2	0.01	5	<0.001	5	0.29	0.003	0.15	0.9	<0.01	0.4	0.3	<0.05	3	<0.5	<0.2		
1542124	Rock	27	1	0.02	6	<0.001	3	0.39	0.002	0.07	2.0	<0.01	0.4	0.3	<0.05	4	<0.5	<0.2		
1542125	Rock	50	2	0.01	10	<0.001	3	0.28	0.003	0.25	1.0	0.01	0.4	0.8	0.62	1	<0.5	<0.2		
1542126	Rock	21	2	0.01	9	<0.001	4	0.41	0.002	0.22	0.7	0.01	0.5	0.6	0.58	1	<0.5	<0.2		
1542127	Rock	22	3	0.01	12	<0.001	5	0.42	0.003	0.30	1.1	<0.01	0.4	0.8	0.44	2	<0.5	<0.2		
1542128	Rock	21	2	<0.01	8	<0.001	4	0.19	0.002	0.22	1.3	<0.01	0.3	0.5	0.23	1	<0.5	<0.2		
1542129	Rock	27	3	0.01	3	<0.001	4	0.36	0.002	0.12	0.6	<0.01	0.7	0.3	<0.05	3	<0.5	<0.2		
1542130	Rock	15	1	0.01	4	<0.001	2	0.35	0.002	0.09	0.7	0.01	0.5	0.3	0.25	3	<0.5	<0.2		



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1542131	Rock	1.32	29.6	8.4	63.5	334	0.4	1.4	0.8	124	0.44	44.1	1.4	27.3	4	9.0	3.1	0.5	<2	0.14	0.002
1542132	Rock	1.03	12.5	3.4	149.5	171	0.9	0.5	1.0	124	1.99	>10000	217.0	32.2	<1	38.3	71.7	0.4	<2	0.02	<0.001
1542133	Rock	1.17	162.3	2.2	62.1	158	0.5	0.5	0.8	2913	1.39	491.0	31.8	41.1	<1	9.4	4.2	0.3	<2	0.03	0.001
1542134	Rock	0.39	828.8	9.8	270.6	506	2.4	0.4	0.5	117	0.46	100.9	14.0	34.3	1	17.7	3.6	0.4	<2	0.19	0.001
1542135	Rock	0.52	37.1	7.4	43.1	153	<0.1	0.9	0.6	57	0.31	25.0	<0.5	39.2	1	2.6	1.8	0.1	<2	0.14	0.002
1542136	Rock	0.94	165.7	5.2	280.8	398	0.3	1.0	0.3	110	0.99	620.4	0.6	35.9	1	3.4	15.4	0.9	<2	0.03	0.002
1542137	Rock	0.97	280.9	36.8	5151.4	1384	32.5	0.5	1.5	67	1.97	>10000	236.1	16.0	<1	77.1	95.2	2.0	<2	0.01	<0.001
1542138	Rock	1.21	68.0	25.8	>10000	967	39.9	0.4	1.6	77	2.62	>10000	478.1	18.7	<1	70.5	96.0	3.4	<2	0.02	<0.001
1542139	Rock	1.61	104.0	36.1	255.0	1519	2.4	1.0	1.1	883	1.04	1897.0	22.7	25.1	2	10.3	41.3	4.2	<2	0.10	0.003
1542140	Rock	1.98	19.4	8.4	3141.8	782	9.4	1.1	2.3	109	2.51	>10000	538.5	13.9	<1	21.3	106.7	1.0	<2	0.03	<0.001
1542141	Rock	1.18	34.0	12.9	214.1	1119	1.7	0.4	0.7	1047	0.83	1624.7	17.7	22.3	2	5.6	43.1	3.0	<2	0.08	0.002
1542142	Rock	0.90	122.4	976.4	>10000	9140	>100	1.0	0.4	47	2.90	>10000	1472.7	2.5	<1	98.9	364.4	0.4	<2	<0.01	<0.001
1542143	Rock	0.67	70.0	104.4	3338.4	204	29.0	0.4	0.2	85	0.67	2154.6	107.5	6.5	2	13.4	35.2	0.2	<2	0.01	<0.001
1542144	Rock	0.84	6.1	10.4	64.4	112	0.9	1.2	0.5	83	0.73	34.9	1.8	35.0	2	2.1	2.4	7.4	<2	0.24	0.002
1542145	Rock	0.98	9.9	3.7	19.4	83	<0.1	0.4	0.4	107	0.67	12.8	1.3	60.2	2	<0.1	1.3	9.8	<2	0.30	<0.001
1542146	Rock	0.56	10.4	2.9	21.5	39	0.2	1.0	0.4	136	0.70	12.6	3.2	43.5	4	<0.1	3.4	30.9	<2	0.32	<0.001
1542147	Rock	1.13	29.7	23.2	192.7	236	0.8	0.3	4.3	80	0.64	440.7	17.5	28.4	3	4.0	74.1	101.9	<2	0.41	<0.001
1542148	Rock	0.77	82.3	6.2	286.8	64	2.6	0.9	0.2	60	0.99	193.3	4.2	40.7	2	0.2	4.9	0.5	<2	0.38	<0.001
1542149	Rock	0.63	2.7	32.6	8.5	28	<0.1	0.3	1.4	164	0.73	8.2	0.6	53.8	2	<0.1	1.0	0.6	<2	0.28	<0.001
1542150	Rock	1.85	4.2	10.0	10.7	18	0.3	4.4	4.3	3283	1.45	46.7	29.2	0.7	735	<0.1	1.0	0.2	12	24.24	0.010



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	MA370	MA370
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Pb
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.02
1542131	Rock	35	3	0.01	2	<0.001	3	0.63	0.002	0.06	0.7	<0.01	1.0	0.1	0.07	3	<0.5	<0.2	
1542132	Rock	32	2	<0.01	7	<0.001	5	0.25	0.002	0.22	3.4	0.01	0.3	0.8	1.56	1	<0.5	<0.2	
1542133	Rock	24	2	<0.01	11	<0.001	6	0.28	0.002	0.28	2.3	<0.01	0.3	0.9	1.16	1	<0.5	<0.2	
1542134	Rock	19	2	0.01	10	<0.001	9	0.54	0.004	0.34	49.8	0.01	0.5	0.7	0.33	2	<0.5	<0.2	
1542135	Rock	31	2	<0.01	7	<0.001	2	0.68	0.004	0.12	7.6	<0.01	0.6	0.2	0.06	3	<0.5	<0.2	
1542136	Rock	18	2	<0.01	5	<0.001	3	0.45	0.003	0.11	4.6	<0.01	0.7	0.2	<0.05	2	<0.5	<0.2	
1542137	Rock	12	2	<0.01	5	<0.001	4	0.26	0.001	0.17	1.2	0.03	0.2	0.8	1.52	<1	<0.5	<0.2	
1542138	Rock	15	2	<0.01	6	<0.001	3	0.25	0.001	0.18	1.0	0.03	0.2	0.9	2.14	<1	0.8	0.3	1.52
1542139	Rock	33	2	0.03	9	<0.001	3	0.81	0.003	0.26	0.7	0.01	0.6	0.9	0.48	4	<0.5	<0.2	
1542140	Rock	10	3	0.01	5	<0.001	4	0.26	0.001	0.16	0.4	0.02	0.2	0.8	1.63	1	<0.5	<0.2	
1542141	Rock	25	1	0.03	5	<0.001	1	0.54	0.002	0.16	1.3	0.01	0.5	0.6	0.45	3	<0.5	<0.2	
1542142	Rock	2	3	<0.01	1	<0.001	2	0.10	<0.001	0.06	2.8	0.09	<0.1	0.4	2.53	1	1.1	<0.2	1.93
1542143	Rock	9	2	<0.01	5	<0.001	2	0.15	0.001	0.07	1.4	0.01	0.2	0.2	<0.05	1	<0.5	<0.2	
1542144	Rock	38	3	0.02	8	0.016	2	0.46	0.071	0.26	9.2	<0.01	1.2	0.4	<0.05	4	<0.5	<0.2	
1542145	Rock	41	2	0.02	3	0.008	4	0.49	0.081	0.24	6.9	<0.01	1.1	0.3	<0.05	4	<0.5	<0.2	
1542146	Rock	35	3	0.03	3	0.005	2	0.59	0.050	0.17	10.5	<0.01	0.9	0.2	<0.05	3	<0.5	0.3	
1542147	Rock	37	2	0.04	7	0.001	5	0.84	0.037	0.28	4.5	<0.01	0.7	0.5	0.11	4	0.6	1.8	
1542148	Rock	8	3	0.02	10	0.001	10	0.81	0.006	0.38	2.3	<0.01	0.4	0.8	<0.05	5	<0.5	<0.2	
1542149	Rock	34	2	0.02	5	0.011	4	0.48	0.084	0.26	8.6	<0.01	1.2	0.4	0.09	4	<0.5	<0.2	
1542150	Rock	10	2	0.83	49	<0.001	<1	0.26	0.001	0.07	0.3	<0.01	2.9	<0.1	0.17	<1	0.7	<0.2	



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QUALITY CONTROL REPORT

WHI16000289.1

Method		WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
1542108	Rock	0.41	22.8	6.5	9.2	60	<0.1	0.4	0.6	95	1.00	16.5	<0.5	40.6	3	0.1	0.9	0.2	2	0.29	0.006
REP 1542108	QC		21.9	5.8	8.8	55	<0.1	0.4	0.6	93	0.99	15.8	<0.5	37.6	3	<0.1	0.9	0.2	2	0.29	0.006
1542115	Rock	0.62	>2000	61.2	>10000	237	7.2	0.7	0.2	27	0.65	3604.5	122.4	18.2	11	6.8	35.6	0.4	<2	0.03	0.004
REP 1542115	QC																				
1542133	Rock	1.17	162.3	2.2	62.1	158	0.5	0.5	0.8	2913	1.39	491.0	31.8	41.1	<1	9.4	4.2	0.3	<2	0.03	0.001
REP 1542133	QC		160.8	2.3	60.7	167	0.5	0.5	0.9	2923	1.38	488.8	31.9	40.1	<1	10.1	4.3	0.3	<2	0.03	0.001
1542135	Rock	0.52	37.1	7.4	43.1	153	<0.1	0.9	0.6	57	0.31	25.0	<0.5	39.2	1	2.6	1.8	0.1	<2	0.14	0.002
REP 1542135	QC		39.0	7.0	43.1	156	<0.1	0.9	0.6	57	0.31	23.3	<0.5	39.3	1	2.7	1.6	0.1	<2	0.14	0.002
Core Reject Duplicates																					
1542132	Rock	1.03	12.5	3.4	149.5	171	0.9	0.5	1.0	124	1.99	>10000	217.0	32.2	<1	38.3	71.7	0.4	<2	0.02	<0.001
DUP 1542132	QC		11.3	3.5	139.3	156	0.9	1.2	1.1	120	2.02	>10000	220.8	30.8	<1	35.2	71.9	0.4	<2	0.02	0.001
Reference Materials																					
STD CDN-ME-14	Standard																				
STD CDN-ME-9	Standard																				
STD CDN-ME-14	Standard																				
STD CDN-ME-9	Standard																				
STD DS10	Standard		15.5	161.3	148.9	360	1.8	77.9	13.4	899	2.81	45.6	77.4	7.4	62	2.5	7.8	11.0	44	1.09	0.071
STD DS10	Standard		14.5	153.4	147.4	357	1.9	73.2	13.3	885	2.80	45.9	76.9	7.6	63	2.8	9.1	12.6	42	1.06	0.081
STD DS10	Standard		15.3	159.9	149.4	368	2.0	74.2	13.5	915	2.83	49.1	102.8	7.9	69	3.0	9.8	12.4	44	1.09	0.085
STD OXC129	Standard		1.3	28.1	6.1	41	<0.1	82.9	21.9	417	3.03	1.8	178.2	1.7	187	<0.1	<0.1	<0.1	51	0.67	0.093
STD OXC129	Standard		1.3	29.1	6.8	42	<0.1	81.1	22.2	424	3.05	<0.5	192.7	2.0	186	<0.1	<0.1	<0.1	50	0.62	0.115
STD OXC129	Standard		1.3	28.5	6.7	43	<0.1	76.7	21.4	427	3.07	1.2	202.1	1.9	188	<0.1	0.1	<0.1	52	0.64	0.116
STD DS10 Expected			15.1	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	46.2	91.9	7.5	67.1	2.62	9	11.65	43	1.0625	0.0765
STD OXC129 Expected			1.3	28	6.3	42.9		79.5	20.3	421	3.065	0.6	195	1.9					51	0.665	0.102
STD CDN-ME-14 Expected																					
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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Client: **Zinex Mining Corp.**
Box 997
Whistler British Columbia V0N 1B0 Canada

Project: Adanac
Report Date: October 05, 2016

Bureau Veritas Commodities Canada Ltd.

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QUALITY CONTROL REPORT

WHI16000289.1

	Method Analyte Unit MDL	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	MA370	MA370	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Pb	Ag	
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	gm/t	
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.02	2	
Pulp Duplicates																					
1542108	Rock	31	2	0.05	17	0.037	<1	0.49	0.052	0.24	35.1	<0.01	2.1	0.4	<0.05	6	<0.5	<0.2			
REP 1542108	QC	29	2	0.05	17	0.034	1	0.46	0.048	0.23	33.1	<0.01	2.0	0.4	<0.05	5	<0.5	<0.2			
1542115	Rock	43	2	0.01	4	<0.001	2	0.24	0.002	0.08	28.8	0.02	0.2	0.3	0.11	3	3.2	<0.2	1.14	8	
REP 1542115	QC																			1.14	8
1542133	Rock	24	2	<0.01	11	<0.001	6	0.28	0.002	0.28	2.3	<0.01	0.3	0.9	1.16	1	<0.5	<0.2			
REP 1542133	QC	24	2	<0.01	11	<0.001	6	0.26	0.002	0.27	2.1	<0.01	0.3	0.9	1.16	1	<0.5	<0.2			
1542135	Rock	31	2	<0.01	7	<0.001	2	0.68	0.004	0.12	7.6	<0.01	0.6	0.2	0.06	3	<0.5	<0.2			
REP 1542135	QC	30	2	<0.01	6	<0.001	3	0.70	0.004	0.12	7.5	<0.01	0.7	0.1	0.06	3	<0.5	<0.2			
Core Reject Duplicates																					
1542132	Rock	32	2	<0.01	7	<0.001	5	0.25	0.002	0.22	3.4	0.01	0.3	0.8	1.56	1	<0.5	<0.2			
DUP 1542132	QC	30	3	<0.01	8	<0.001	7	0.30	0.001	0.25	4.0	<0.01	0.3	0.9	1.60	1	<0.5	<0.2			
Reference Materials																					
STD CDN-ME-14	Standard																			0.51	43
STD CDN-ME-9	Standard																			<0.02	3
STD CDN-ME-14	Standard																			0.52	43
STD CDN-ME-9	Standard																			<0.02	5
STD DS10	Standard	19	59	0.78	351	0.080	7	1.11	0.076	0.34	3.2	0.26	3.3	5.2	0.28	4	2.3	5.1			
STD DS10	Standard	17	57	0.77	343	0.077	7	1.04	0.069	0.33	3.3	0.29	3.1	5.1	0.27	5	2.2	4.6			
STD DS10	Standard	18	56	0.78	355	0.082	7	1.07	0.079	0.35	3.4	0.29	3.2	5.4	0.29	4	2.5	5.3			
STD OXC129	Standard	12	55	1.53	50	0.366	1	1.61	0.601	0.38	<0.1	<0.01	1.0	<0.1	<0.05	5	<0.5	<0.2			
STD OXC129	Standard	13	54	1.53	53	0.410	1	1.52	0.596	0.37	<0.1	<0.01	1.1	<0.1	<0.05	6	<0.5	<0.2			
STD OXC129	Standard	13	54	1.54	55	0.400	<1	1.65	0.619	0.42	<0.1	<0.01	1.6	<0.1	<0.05	6	<0.5	<0.2			
STD DS10 Expected		17.5	54.6	0.775	359	0.0817		1.0755	0.067	0.338	3.32	0.3	3	5.1	0.29	4.5	2.3	5.01			
STD OXC129 Expected		13	52	1.545	50	0.4	1	1.58	0.6	0.37			1.1			5.6					
STD CDN-ME-14 Expected																				0.495	42.3
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2			
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2			
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2			

Bureau Veritas Commodities Canada Ltd.

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Project: Adanac
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QUALITY CONTROL REPORT

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		WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank		0.9	4.4	8.4	29	<0.1	1.1	3.7	407	1.76	2.8	<0.5	2.5	25	<0.1	0.2	<0.1	22	0.60	0.048
ROCK-WHI	Prep Blank		0.9	3.7	2.5	32	<0.1	1.2	3.8	418	1.67	1.3	<0.5	2.5	25	<0.1	0.1	<0.1	21	0.65	0.044



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		AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	MA370	MA370
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Pb	Ag
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	gm/t
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.02	2
BLK	Blank																			<0.02
BLK	Blank																			<0.02
Prep Wash																				
ROCK-WHI	Prep Blank	5	3	0.40	72	0.067	2	0.87	0.096	0.08	<0.1	<0.01	2.5	<0.1	<0.05	4	<0.5	<0.2		
ROCK-WHI	Prep Blank	5	3	0.40	64	0.076	2	0.90	0.087	0.08	0.1	<0.01	2.6	<0.1	<0.05	4	<0.5	<0.2		



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Client: **Zinex Mining Corp.**
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Submitted By: Janet Miller
Receiving Lab: Canada-Whitehorse
Received: September 19, 2016
Report Date: November 22, 2016
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CERTIFICATE OF ANALYSIS

WHI16000290.2

CLIENT JOB INFORMATION

Project: Adanac
Shipment ID:
P.O. Number
Number of Samples: 50

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	50	Crush, split and pulverize 250 g rock to 200 mesh			WHI
AQ202	50	1:1:1 Aqua Regia digestion ICP-MS analysis	30	Completed	VAN
SHP01	50	Per sample shipping charges for branch shipments			VAN
MA370	6	4-Acid Digestion ICP-ES Finish	0.5	Completed	VAN
FA550-Ag	2	50g Lead collection fire assay fusion - Grav finish	50	Completed	VAN
EN002	2	Environmental disposal charge-Fire assay lead waste			VAN
GC817	4	Lead Assay by Classical Titration	0.5	Completed	VAN

ADDITIONAL COMMENTS

Version 2 : FA550-Ag & GC817-Pb included.

Invoice To: Zinex Mining Corp.
Box 997
Whistler British Columbia V0N 1B0
Canada

CC: Barry Hanslit
Caoimhe Peat



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



BUREAU MINERAL LABORATORIES
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CERTIFICATE OF ANALYSIS

WHI16000290.2

Method Analyte Unit MDL		WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
1542151	Rock	0.32	2.2	15.4	2.9	13	<0.1	0.4	0.3	45	0.54	4.2	2.4	36.1	3	<0.1	0.9	0.2	<2	0.11	0.003
1542152	Rock	0.38	22.3	10.5	4.3	40	<0.1	1.1	0.3	61	0.56	42.5	1.7	37.6	3	<0.1	2.6	1.0	<2	0.05	0.002
1542153	Rock	0.31	22.4	10.3	6.1	57	<0.1	0.3	0.2	72	0.56	33.2	4.7	38.5	5	0.2	2.3	0.3	<2	0.08	0.002
1542154	Rock	0.37	22.7	3.7	7.6	142	<0.1	1.1	0.6	524	0.85	53.6	0.8	42.4	7	0.3	0.6	<0.1	<2	0.11	0.003
1542155	Rock	0.40	47.0	15.1	9.5	93	<0.1	0.2	0.5	107	0.60	47.5	1.2	38.3	6	<0.1	0.9	0.1	<2	0.11	0.002
1542156	Rock	0.29	10.4	6.8	5.3	58	<0.1	1.4	0.6	110	0.98	27.8	1.1	42.5	3	<0.1	0.6	0.5	<2	0.08	0.003
1542157	Rock	0.73	35.4	5.2	4.7	52	<0.1	0.4	0.4	66	0.58	29.5	1.3	40.1	3	0.1	0.6	0.1	<2	0.13	0.002
1542158	Rock	0.50	142.2	5.0	9.9	228	<0.1	1.1	2.0	520	1.28	24.0	<0.5	22.0	9	1.0	0.5	<0.1	6	0.27	0.013
1542159	Rock	0.41	109.0	19.9	6.4	82	<0.1	0.5	1.0	117	0.84	7.1	<0.5	25.9	4	0.1	4.0	0.2	<2	0.26	0.004
1542160	Rock	0.42	68.4	4.4	21.2	69	0.1	1.8	0.8	180	0.57	101.0	4.6	22.1	3	0.4	1.1	0.2	<2	0.07	0.012
1542161	Rock	0.44	6.4	8.0	16.7	203	0.1	0.6	0.7	175	1.00	6.4	0.9	41.6	6	0.4	1.0	0.1	4	0.32	0.016
1542162	Rock	0.49	37.6	27.3	81.5	394	0.1	1.5	1.2	458	0.94	74.2	<0.5	24.7	8	1.8	1.3	0.1	5	0.28	0.019
1542163	Rock	0.90	86.6	24.9	69.7	111	0.7	0.2	0.8	142	0.79	468.1	0.9	18.0	4	5.3	19.1	0.2	4	0.13	0.015
1542164	Rock	0.94	667.2	57.3	5049.1	116	35.5	0.8	0.2	42	0.75	3514.0	164.9	16.9	10	5.3	60.0	0.6	<2	0.07	0.008
1542165	Rock	1.17	28.3	33.7	1214.3	48	10.7	0.3	0.2	172	0.47	1084.9	91.7	13.0	3	3.2	20.5	0.3	<2	0.03	<0.001
1542166	Rock	1.48	224.0	123.3	5576.2	138	55.4	1.1	0.2	90	0.70	3020.7	101.7	13.7	2	3.0	46.6	0.8	<2	0.03	<0.001
1542167	Rock	0.71	16.0	21.6	1307.7	42	2.3	0.4	0.2	434	0.35	297.1	1.9	25.2	2	0.2	5.7	0.3	<2	0.04	<0.001
1542168	Rock	0.69	9.6	19.1	829.5	107	2.2	1.2	0.3	155	0.50	733.8	7.6	30.9	2	9.5	11.1	0.9	<2	0.04	<0.001
1542169	Rock	1.29	9.5	25.6	579.4	108	2.5	0.5	0.2	68	0.60	884.7	55.8	27.2	4	12.8	9.1	0.3	<2	0.03	<0.001
1542170	Rock	0.73	222.9	63.1	1943.4	226	1.4	1.1	0.4	245	0.94	1674.2	2.0	37.4	3	47.8	18.3	<0.1	<2	0.05	<0.001
1542171	Rock	1.87	56.1	95.9	3751.2	129	4.9	0.3	0.2	70	0.81	2007.0	13.3	31.6	8	8.6	14.0	2.6	<2	0.03	<0.001
1542172	Rock	0.88	3.4	180.8	>10000	278	>100	1.1	0.4	25	2.27	>10000	1074.6	7.3	<1	4.7	185.4	0.5	<2	<0.01	<0.001
1542173	Rock	1.09	8.2	2202.8	>10000	>10000	>100	0.3	0.5	58	4.78	>10000	2184.0	11.7	<1	125.6	1141.7	0.6	<2	<0.01	<0.001
1542174	Rock	0.96	24.0	2366.3	>10000	2103	>100	1.0	0.3	114	3.76	>10000	4422.9	14.1	<1	88.6	>2000	1.8	<2	<0.01	0.001
1542175	Rock	1.06	1.7	6191.9	>10000	>10000	>100	<0.1	0.4	174	4.92	>10000	3198.7	0.8	<1	486.4	>2000	5.3	<2	<0.01	<0.001
1542176	Rock	1.04	6.7	790.4	>10000	5942	>100	1.0	0.2	39	1.64	7092.1	394.7	8.9	<1	72.7	>2000	0.8	<2	0.01	<0.001
1542177	Rock	0.94	233.2	72.0	9909.7	341	12.4	0.3	0.1	35	0.79	2766.4	8.6	30.5	1	10.1	93.9	<0.1	<2	0.03	0.002
1542178	Rock	0.87	49.6	6.6	205.0	173	1.5	1.1	0.6	140	0.75	48.9	5.9	35.3	2	0.2	17.4	0.5	<2	0.34	0.001
1542179	Rock	0.78	90.9	20.5	108.6	81	0.8	0.4	0.4	40	0.45	71.9	2.6	34.5	1	0.5	8.1	0.3	<2	0.24	0.002
1542180	Rock	0.99	9.1	44.1	70.4	137	0.5	1.5	1.4	121	0.88	19.8	1.6	32.0	3	0.2	5.9	0.5	<2	0.35	0.002



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CERTIFICATE OF ANALYSIS

WHI16000290.2

Method Analyte Unit MDL		AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	MA370	MA370	MA370
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te	Pb	Zn	Ag
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	gm/t
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.02	0.01	2
1542151	Rock	38	3	0.01	3	0.002	1	0.26	0.063	0.06	0.7	<0.01	0.7	0.1	<0.05	2	<0.5	<0.2			
1542152	Rock	31	3	0.02	5	0.001	1	0.25	0.021	0.05	0.4	<0.01	0.5	<0.1	<0.05	3	<0.5	<0.2			
1542153	Rock	35	2	0.03	4	0.002	<1	0.33	0.007	0.06	1.1	<0.01	0.8	0.1	<0.05	3	<0.5	<0.2			
1542154	Rock	40	2	0.08	9	0.016	<1	0.61	0.016	0.16	0.8	<0.01	1.6	0.3	<0.05	6	<0.5	<0.2			
1542155	Rock	33	1	0.06	5	0.006	<1	0.50	0.007	0.10	1.8	<0.01	0.9	0.2	<0.05	5	<0.5	<0.2			
1542156	Rock	36	3	0.05	10	0.030	<1	0.56	0.061	0.25	1.0	<0.01	1.7	0.4	<0.05	5	<0.5	<0.2			
1542157	Rock	36	2	0.04	8	0.010	<1	0.46	0.036	0.14	4.1	<0.01	1.2	0.2	<0.05	4	<0.5	<0.2			
1542158	Rock	35	3	0.21	29	0.023	<1	1.22	0.010	0.24	0.5	<0.01	2.5	0.4	<0.05	9	<0.5	<0.2			
1542159	Rock	33	2	0.10	12	0.011	1	0.76	0.029	0.16	4.7	<0.01	1.6	0.4	<0.05	5	<0.5	<0.2			
1542160	Rock	39	5	0.03	17	<0.001	5	0.39	0.007	0.25	2.6	<0.01	0.6	0.5	<0.05	2	<0.5	<0.2			
1542161	Rock	40	4	0.13	25	0.028	2	1.22	0.027	0.26	0.4	<0.01	2.5	0.5	<0.05	7	<0.5	<0.2			
1542162	Rock	28	4	0.16	24	0.011	<1	1.19	0.006	0.19	0.4	<0.01	2.3	0.4	<0.05	7	<0.5	<0.2			
1542163	Rock	47	3	0.06	14	0.002	<1	0.61	0.003	0.09	0.6	<0.01	1.9	0.2	<0.05	5	<0.5	<0.2			
1542164	Rock	92	2	0.03	91	<0.001	1	0.43	0.002	0.09	11.4	0.03	0.7	0.5	<0.05	2	<0.5	<0.2			
1542165	Rock	15	2	0.01	5	<0.001	3	0.23	0.001	0.11	1.4	<0.01	0.2	0.3	<0.05	2	<0.5	<0.2			
1542166	Rock	20	3	<0.01	4	<0.001	3	0.25	0.002	0.13	6.6	0.02	0.2	0.3	0.08	1	<0.5	<0.2			
1542167	Rock	24	2	0.01	3	<0.001	3	0.25	0.002	0.16	1.5	<0.01	0.2	0.3	<0.05	1	<0.5	<0.2			
1542168	Rock	44	3	0.01	7	<0.001	4	0.28	<0.001	0.21	1.9	<0.01	0.2	0.5	<0.05	1	<0.5	<0.2			
1542169	Rock	31	3	0.01	16	<0.001	6	0.27	0.002	0.22	1.8	<0.01	0.2	0.6	<0.05	1	<0.5	<0.2			
1542170	Rock	22	3	0.02	4	<0.001	4	0.31	0.003	0.15	2.1	<0.01	0.2	0.3	<0.05	2	<0.5	<0.2			
1542171	Rock	24	2	0.01	8	<0.001	2	0.28	0.003	0.22	5.8	<0.01	0.2	0.5	0.11	2	<0.5	<0.2			
1542172	Rock	12	3	<0.01	2	<0.001	5	0.21	0.001	0.10	0.4	0.03	0.1	0.4	1.18	2	<0.5	<0.2	3.60	0.03	127
1542173	Rock	8	2	<0.01	2	<0.001	6	0.20	0.001	0.12	1.2	0.24	0.1	0.6	4.57	3	0.8	<0.2	5.44	1.31	436
1542174	Rock	6	2	<0.01	<1	<0.001	1	0.07	<0.001	0.02	>100	0.49	0.1	0.2	1.80	3	2.5	<0.2	>10	0.22	1177
1542175	Rock	<1	<1	<0.01	7	<0.001	2	0.03	<0.001	0.03	68.8	0.43	<0.1	3.7	7.78	2	1.0	<0.2	>10	4.22	>1500
1542176	Rock	7	3	<0.01	<1	<0.001	4	0.19	0.001	0.13	3.4	0.08	0.1	1.4	2.28	4	0.9	<0.2	>10	0.63	564
1542177	Rock	28	2	<0.01	5	<0.001	2	0.28	0.003	0.16	3.6	<0.01	0.6	0.4	<0.05	1	<0.5	<0.2			
1542178	Rock	43	2	0.05	5	0.008	3	0.57	0.029	0.14	10.3	<0.01	1.2	0.2	<0.05	4	<0.5	<0.2			
1542179	Rock	40	2	<0.01	3	0.001	2	0.63	0.004	0.10	5.5	<0.01	0.8	0.1	<0.05	3	<0.5	<0.2			
1542180	Rock	34	3	0.02	9	0.005	3	0.52	0.065	0.21	9.7	<0.01	1.1	0.4	0.16	3	0.7	<0.2			



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Project: Adanac
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CERTIFICATE OF ANALYSIS

WHI16000290.2

	Method Analyte Unit MDL	FA550 GC817	
		Ag	Pb
		gm/t	%
		20	0.01
1542151	Rock		
1542152	Rock		
1542153	Rock		
1542154	Rock		
1542155	Rock		
1542156	Rock		
1542157	Rock		
1542158	Rock		
1542159	Rock		
1542160	Rock		
1542161	Rock		
1542162	Rock		
1542163	Rock		
1542164	Rock		
1542165	Rock		
1542166	Rock		
1542167	Rock		
1542168	Rock		
1542169	Rock		
1542170	Rock		
1542171	Rock		
1542172	Rock		
1542173	Rock		
1542174	Rock		10.90
1542175	Rock	2308	30.88
1542176	Rock		12.67
1542177	Rock		
1542178	Rock		
1542179	Rock		
1542180	Rock		



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CERTIFICATE OF ANALYSIS

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	Method	Analyte	Unit	MDL	WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202			
					Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1542181	Rock																							
1542182	Rock																							
1542183	Rock																							
1542184	Rock																							
1542185	Rock																							
1542186	Rock																							
1542187	Rock																							
1542188	Rock																							
1542189	Rock																							
1542190	Rock																							
1542191	Rock																							
1542192	Rock																							
1542193	Rock																							
1542194	Rock																							
1542195	Rock																							
1542196	Rock																							
1542197	Rock																							
1542198	Rock																							
1542199	Rock																							
1542200	Rock																							



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CERTIFICATE OF ANALYSIS

WHI16000290.2

	Method Analyte Unit MDL	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	MA370	MA370	MA370
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te	Pb	Zn	Ag
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	gm/t
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.02	0.01	2
1542181	Rock	36	1	0.02	7	0.011	2	0.41	0.066	0.19	51.1	<0.01	1.5	0.2	<0.05	3	0.7	0.3			
1542182	Rock	33	2	0.02	6	0.002	2	0.36	0.043	0.16	81.8	0.01	0.7	0.2	<0.05	2	<0.5	2.3			
1542183	Rock	41	2	0.02	9	0.016	2	0.46	0.065	0.21	6.9	<0.01	1.4	0.3	<0.05	4	0.8	<0.2			
1542184	Rock	45	3	0.03	6	0.016	1	0.49	0.053	0.20	26.6	<0.01	1.6	0.3	<0.05	4	0.8	0.3			
1542185	Rock	32	1	0.03	5	0.026	<1	0.50	0.058	0.25	7.2	<0.01	1.6	0.4	<0.05	5	0.8	<0.2			
1542186	Rock	40	2	0.07	14	0.016	<1	0.52	0.022	0.17	1.7	<0.01	1.2	0.3	<0.05	5	0.8	<0.2			
1542187	Rock	23	2	0.06	7	0.008	<1	0.43	0.028	0.14	2.5	<0.01	1.1	0.2	<0.05	4	<0.5	0.3			
1542188	Rock	39	2	0.14	15	0.020	<1	0.85	0.044	0.24	1.4	<0.01	2.4	0.4	<0.05	6	0.9	<0.2			
1542189	Rock	30	2	0.14	7	0.016	<1	1.14	0.030	0.19	5.3	<0.01	2.2	0.3	<0.05	8	0.9	<0.2			
1542190	Rock	32	2	0.06	9	0.019	<1	0.62	0.039	0.18	2.2	<0.01	1.6	0.3	<0.05	5	0.7	<0.2			
1542191	Rock	33	2	0.06	7	0.005	<1	0.56	0.025	0.12	2.1	<0.01	1.1	0.3	<0.05	5	0.8	<0.2			
1542192	Rock	59	2	0.11	31	0.012	<1	0.70	0.019	0.16	0.8	<0.01	1.7	1.1	<0.05	9	1.2	<0.2			
1542193	Rock	10	2	0.01	5	<0.001	2	0.30	0.003	0.20	1.7	0.01	0.3	0.4	<0.05	2	0.5	<0.2			
1542194	Rock	20	2	0.02	7	<0.001	4	0.28	0.002	0.19	4.4	0.01	0.4	0.4	<0.05	2	0.6	<0.2			
1542195	Rock	31	3	<0.01	4	<0.001	2	0.29	0.002	0.22	32.7	<0.01	0.4	0.4	<0.05	2	<0.5	0.2			
1542196	Rock	64	2	0.01	2	<0.001	3	0.22	0.002	0.18	67.5	0.02	0.3	0.3	<0.05	2	0.6	<0.2			
1542197	Rock	32	1	<0.01	6	<0.001	3	0.26	0.003	0.19	3.7	<0.01	0.4	0.5	<0.05	2	<0.5	0.3			
1542198	Rock	27	2	<0.01	6	<0.001	3	0.24	0.002	0.20	1.7	0.01	0.4	0.5	<0.05	3	<0.5	<0.2			
1542199	Rock	12	2	<0.01	6	<0.001	5	0.21	0.002	0.19	1.0	<0.01	0.2	0.7	0.09	2	<0.5	<0.2			
1542200	Rock	2	1	<0.01	2	<0.001	<1	0.05	<0.001	0.03	0.3	0.05	0.1	2.2	>10	<1	2.4	<0.2	>10	0.27	>1500



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	FA550	GC817
		Ag	Pb
		gm/t	%
		20	0.01
1542181	Rock		
1542182	Rock		
1542183	Rock		
1542184	Rock		
1542185	Rock		
1542186	Rock		
1542187	Rock		
1542188	Rock		
1542189	Rock		
1542190	Rock		
1542191	Rock		
1542192	Rock		
1542193	Rock		
1542194	Rock		
1542195	Rock		
1542196	Rock		
1542197	Rock		
1542198	Rock		
1542199	Rock		
1542200	Rock	1399	15.20



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QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
1542172	Rock	0.88	3.4	180.8	>10000	278	>100	1.1	0.4	25	2.27	>10000	1074.6	7.3	<1	4.7	185.4	0.5	<2	<0.01	<0.001
REP 1542172	QC		3.4	181.3	>10000	282	>100	1.2	0.4	25	2.28	>10000	1094.3	7.4	<1	4.7	184.4	0.5	<2	<0.01	<0.001
1542175	Rock	1.06	1.7	6191.9	>10000	>10000	>100	<0.1	0.4	174	4.92	>10000	3198.7	0.8	<1	486.4	>2000	5.3	<2	<0.01	<0.001
REP 1542175	QC		1.8	6181.5	>10000	>10000	>100	<0.1	0.4	173	5.07	>10000	3320.3	0.8	<1	502.4	>2000	5.3	<2	<0.01	<0.001
1542195	Rock	0.90	176.9	19.6	637.8	93	6.5	1.1	0.3	494	0.72	320.6	6.0	32.8	1	1.3	6.7	1.2	<2	0.03	<0.001
REP 1542195	QC		176.6	18.1	670.9	96	6.3	1.2	0.3	508	0.71	317.8	5.9	34.4	2	1.3	7.6	1.2	<2	0.03	<0.001
1542200	Rock	0.89	300.2	4638.8	>10000	3176	>100	0.2	1.6	30	15.03	>10000	3527.7	3.5	3	38.9	1241.9	4.8	<2	<0.01	0.001
REP 1542200	QC																				
Core Reject Duplicates																					
1542151	Rock	0.32	2.2	15.4	2.9	13	<0.1	0.4	0.3	45	0.54	4.2	2.4	36.1	3	<0.1	0.9	0.2	<2	0.11	0.003
DUP 1542151	QC		2.3	15.6	3.0	12	<0.1	0.4	0.3	47	0.55	4.2	0.8	36.6	3	<0.1	0.9	0.2	<2	0.11	0.003
1542185	Rock	0.98	11.5	1.8	11.7	35	<0.1	0.3	0.6	120	0.79	17.2	<0.5	45.1	2	<0.1	0.6	0.1	<2	0.23	0.004
DUP 1542185	QC		12.5	2.1	10.4	32	<0.1	0.8	0.5	115	0.77	12.7	<0.5	47.4	3	<0.1	0.8	<0.1	<2	0.23	0.002
Reference Materials																					
STD AGPROOF	Standard																				
STD CDN-ME-14	Standard																				
STD CDN-ME-9	Standard																				
STD CDN-ME-14	Standard																				
STD CDN-ME-9	Standard																				
STD CPB-2	Standard																				
STD CPB-2	Standard																				
STD DS10	Standard		16.5	159.1	154.5	346	2.0	79.1	13.9	909	2.78	41.1	90.6	7.8	70	2.7	8.8	11.1	43	1.08	0.079
STD DS10	Standard		15.7	161.3	158.7	365	1.9	78.2	13.5	884	2.75	50.1	83.2	7.0	60	2.4	8.8	10.5	43	1.08	0.069
STD DS10	Standard		15.7	156.8	153.5	362	2.0	74.3	13.9	925	2.86	47.7	90.5	8.3	69	3.1	10.2	12.3	46	1.12	0.088
STD OXC129	Standard		1.3	31.0	6.8	44	<0.1	87.2	21.4	427	3.07	0.8	198.0	1.9	184	<0.1	<0.1	<0.1	50	0.66	0.086
STD OXC129	Standard		1.2	27.9	5.2	40	<0.1	81.0	21.0	418	3.02	1.0	179.2	1.7	187	<0.1	<0.1	<0.1	51	0.70	0.094
STD OXC129	Standard		1.4	28.7	11.0	44	<0.1	79.4	20.7	420	2.98	2.2	200.1	2.0	191	<0.1	0.4	<0.1	52	0.69	0.105
STD SP49	Standard																				



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QUALITY CONTROL REPORT

WHI16000290.2

	Method Analyte Unit MDL	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	MA370	MA370	MA370	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Pb	Zn	Ag
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	gm/t
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.1	0.05	1	0.5	0.2	0.02	0.01
Pulp Duplicates																					
1542172	Rock	12	3	<0.01	2	<0.001	5	0.21	0.001	0.10	0.4	0.03	0.1	0.4	1.18	2	<0.5	<0.2	3.60	0.03	127
REP 1542172	QC	12	3	<0.01	3	<0.001	6	0.22	0.001	0.10	0.4	0.03	0.1	0.4	1.19	2	<0.5	<0.2			
1542175	Rock	<1	<1	<0.01	7	<0.001	2	0.03	<0.001	0.03	68.8	0.43	<0.1	3.7	7.78	2	1.0	<0.2	>10	4.22	>1500
REP 1542175	QC	<1	<1	<0.01	7	<0.001	2	0.03	<0.001	0.03	74.9	0.45	<0.1	3.8	7.86	2	0.9	<0.2			
1542195	Rock	31	3	<0.01	4	<0.001	2	0.29	0.002	0.22	32.7	<0.01	0.4	0.4	<0.05	2	<0.5	0.2			
REP 1542195	QC	34	3	0.01	5	<0.001	3	0.29	0.003	0.22	31.2	0.01	0.5	0.4	<0.05	2	0.6	0.2			
1542200	Rock	2	1	<0.01	2	<0.001	<1	0.05	<0.001	0.03	0.3	0.05	0.1	2.2	>10	<1	2.4	<0.2	>10	0.27	>1500
REP 1542200	QC																		>10	0.27	>1500
Core Reject Duplicates																					
1542151	Rock	38	3	0.01	3	0.002	1	0.26	0.063	0.06	0.7	<0.01	0.7	0.1	<0.05	2	<0.5	<0.2			
DUP 1542151	QC	39	3	0.01	4	0.003	2	0.26	0.063	0.06	0.6	<0.01	0.7	<0.1	<0.05	2	<0.5	<0.2			
1542185	Rock	32	1	0.03	5	0.026	<1	0.50	0.058	0.25	7.2	<0.01	1.6	0.4	<0.05	5	0.8	<0.2			
DUP 1542185	QC	30	2	0.03	5	0.030	<1	0.49	0.056	0.25	8.5	<0.01	1.6	0.4	<0.05	4	0.5	<0.2			
Reference Materials																					
STD AGPROOF	Standard																				
STD CDN-ME-14	Standard																		0.49	3.13	44
STD CDN-ME-9	Standard																		<0.02	0.01	6
STD CDN-ME-14	Standard																		0.51	3.19	42
STD CDN-ME-9	Standard																		<0.02	0.01	3
STD CPB-2	Standard																				
STD CPB-2	Standard																				
STD DS10	Standard	17	56	0.79	331	0.077	6	1.10	0.075	0.35	3.5	0.27	3.0	5.0	0.27	5	2.2	5.2			
STD DS10	Standard	19	58	0.78	348	0.079	8	1.09	0.072	0.33	3.0	0.26	3.0	5.1	0.29	4	2.5	4.6			
STD DS10	Standard	19	56	0.80	363	0.088	7	1.13	0.078	0.35	3.4	0.28	3.3	5.2	0.29	5	2.2	5.1			
STD OXC129	Standard	12	52	1.53	49	0.345	<1	1.61	0.611	0.38	<0.1	<0.01	0.8	<0.1	<0.05	6	<0.5	<0.2			
STD OXC129	Standard	12	55	1.55	49	0.371	2	1.61	0.590	0.35	<0.1	<0.01	1.0	<0.1	<0.05	6	<0.5	<0.2			
STD OXC129	Standard	13	50	1.55	54	0.384	1	1.63	0.603	0.37	<0.1	<0.01	1.2	<0.1	<0.05	5	<0.5	<0.2			
STD SP49	Standard																				



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Project: Adanac
Report Date: November 22, 2016

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QUALITY CONTROL REPORT

WHI16000290.2

Method		FA550	GC817
Analyte		Ag	Pb
Unit		gm/t	%
MDL		20	0.01
Pulp Duplicates			
1542172	Rock		
REP 1542172	QC		
1542175	Rock	2308	30.88
REP 1542175	QC		30.90
1542195	Rock		
REP 1542195	QC		
1542200	Rock	1399	15.20
REP 1542200	QC		
Core Reject Duplicates			
1542151	Rock		
DUP 1542151	QC		
1542185	Rock		
DUP 1542185	QC		
Reference Materials			
STD AGPROOF	Standard	96	
STD CDN-ME-14	Standard		
STD CDN-ME-9	Standard		
STD CDN-ME-14	Standard		
STD CDN-ME-9	Standard		
STD CPB-2	Standard		62.92
STD CPB-2	Standard		62.77
STD DS10	Standard		
STD DS10	Standard		
STD DS10	Standard		
STD OXC129	Standard		
STD OXC129	Standard		
STD OXC129	Standard		
STD SP49	Standard	60	



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QUALITY CONTROL REPORT

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		WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
STD SQ70	Standard																				
STD CDN-ME-14 Expected																					
STD CDN-ME-9 Expected																					
STD DS10 Expected			15.1	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	46.2	91.9	7.5	67.1	2.62	9	11.65	43	1.0625	0.0765
STD OXC129 Expected			1.3	28	6.3	42.9		79.5	20.3	421	3.065	0.6	195	1.9					51	0.665	0.102
STD AGPROOF Expected																					
STD SP49 Expected																					
STD SQ70 Expected																					
STD CPB-2 Expected																					
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	0.5	<1	<0.1	<0.1	<0.1	<1	<0.01	0.8	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank																				
BLK	Blank																				
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank		0.8	5.0	1.6	29	<0.1	1.0	3.5	390	1.58	2.3	0.6	2.1	20	<0.1	<0.1	<0.1	20	0.55	0.035
ROCK-WHI	Prep Blank		0.7	3.4	1.4	28	<0.1	1.0	3.4	398	1.61	1.3	0.9	2.1	23	<0.1	<0.1	<0.1	22	0.59	0.036



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QUALITY CONTROL REPORT

WHI16000290.2

		AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	MA370	MA370	MA370	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Pb	Zn	Ag	
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	gm/t	
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.02	0.01	2	
STD SQ70	Standard																					
STD CDN-ME-14 Expected																				0.495	3.1	42.3
STD CDN-ME-9 Expected																					0.012	
STD DS10 Expected		17.5	54.6	0.775	359	0.0817		1.0755	0.067	0.338	3.32	0.3	3	5.1	0.29	4.5	2.3	5.01				
STD OXC129 Expected		13	52	1.545	50	0.4	1	1.58	0.6	0.37				1.1	5.6							
STD AGPROOF Expected																						
STD SP49 Expected																						
STD SQ70 Expected																						
STD CPB-2 Expected																						
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2				
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2				
BLK	Blank																			<0.02	<0.01	<2
BLK	Blank																			<0.02	<0.01	<2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2				
BLK	Blank																					
Prep Wash																						
ROCK-WHI	Prep Blank	5	2	0.37	57	0.060	2	0.86	0.088	0.08	<0.1	<0.01	2.1	<0.1	<0.05	4	<0.5	<0.2				
ROCK-WHI	Prep Blank	5	3	0.38	62	0.067	2	0.90	0.095	0.09	<0.1	<0.01	2.5	<0.1	<0.05	4	<0.5	<0.2				



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Report Date: November 22, 2016

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QUALITY CONTROL REPORT

WHI16000290.2

		FA550	GC817
		Ag	Pb
		gm/t	%
		20	0.01
STD SQ70	Standard	155	
STD CDN-ME-14 Expected			
STD CDN-ME-9 Expected			
STD DS10 Expected			
STD OXC129 Expected			
STD AGPROOF Expected		94	
STD SP49 Expected		60.2	
STD SQ70 Expected		159.5	
STD CPB-2 Expected			63.52
BLK	Blank		
BLK	Blank		
BLK	Blank		
BLK	Blank		
BLK	Blank		
BLK	Blank	<20	
Prep Wash			
ROCK-WHI	Prep Blank		
ROCK-WHI	Prep Blank		

Appendix 4

GDS Rock Samples; 17 Certificates of Analyses., Zinex Mining Corp., and Table 18, key to cross-checking rock samples with Figure 8, and with 17 certificates of analyses

- 1)Certificate of Analysis WHI18000272.1
- 2)Certificate of Analysis WHI18000174.1
- 3)Certificate of Analysis WHI18000229.1
- 4)Certificate of Analysis WHI18000297.1
- 5)Certificate of Analysis WHI17000469.1
- 6)Certificate of Analysis WHI17000228.1
- 7)Certificate of Analysis WHI17000316.1
- 8)Certificate of Analysis WHI17000713.1
- 9)Certificate of Analysis WHI17000174.1
- 10)Certificate of Analysis WHI17000111.1
- 11)Certificate of Analysis WHI17000062.1
- 12)Certificate of Analysis WHI17000083.1
- 13)Certificate of Analysis WHI17000281.1
- 14)Certificate of Analysis WHI17000042.1
- 15)Certificate of Analysis WHI16000109.1
- 16)Certificate of Analysis WHI16000314.1
- 17)Certificate of Analysis WHI16000313.1

Table 20

Key To Cross-Checking Rock Samples with Figure 8, and 17 Certificates of Analyses					
Sample#	Au ppm	Certificate	Sample#	Au ppm	Certificate
14780044	0.7326	WHI18000272	1532607	0.231	WHI17000111
14780064	0.768	WHI18000272	1532628	1.614	WHI17000228
14780065	0.8434	WHI18000272	1532644	2.414	WHI17000316
1478007	0.1306	WHI18000174	1532835	0.229	WHI17000174
1478009	0.1796	WHI18000174	1532844	0.172	WHI17000174
1478011	0.726	WHI18000174	1532853	0.47	WHI17000228
1478023	1.8759	WHI18000229	1532861	0.341	WHI17000228
1478024	2.4107	WHI18000229	1532863	0.103	WHI17000228
1478035	0.5751	WHI18000229	1532902	0.534	WHI17000174
1478037	3.2786	WHI18000229	1532903	0.693	WHI17000174
1478040	0.8934	WHI18000229	1532904	0.604	WHI17000174
1478077	0.4563	WHI18000297	1532920	0.114	WHI17000174
1478081	4.9589	WHI18000297	1532923	1.593	WHI17000228
1478082	0.2989	WHI18000297	1532925	0.256	WHI17000228

1532059	0.282	WHI17000469	1532926	0.148	WHI17000228
1532109	0.484	WHI17000228	1532933	0.318	WHI17000228
1532145	0.482	WHI17000316	1532940	0.485	WHI17000281
1532151	0.764	WHI17000713	1532942	0.141	WHI17000281
1532152	0.233	WHI17000713	1532950	0.102	WHI17000281
1532534	0.149	WHI17000174	1542474	5.322	WHI17000042
1532538	3.222	WHI17000111	662212	0.379	WHI16000109
1532539	3.043	WHI17000111	662213	0.316	WHI16000109
1532540	0.154	WHI17000111	662220	0.29	WHI16000109
1532556	0.166	WHI17000062	662234	1.708	WHI16000313
1532562	0.3	WHI17000062	M387955	0.12	WHI16000314
1532581	0.162	WHI17000083	M387957	28.375	WHI16000314
1532605	0.156	WHI17000111			



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Client: **Zinex Mining Corp.**
Box 997
Whistler BC V0N 1B0 CANADA

Submitted By: Janet Miller
Receiving Lab: Canada-Whitehorse
Received: July 14, 2016
Report Date: August 04, 2016
Page: 1 of 2

CERTIFICATE OF ANALYSIS

WHI16000109.1

CLIENT JOB INFORMATION

Project: Adanac
Shipment ID:
P.O. Number
Number of Samples: 28

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Zinex Mining Corp.
Box 997
Whistler BC V0N 1B0
CANADA

CC: Barry Hanslit
Caoimhe Peat

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	28	Crush, split and pulverize 250 g rock to 200 mesh			WHI
AQ202	28	1:1:1 Aqua Regia digestion ICP-MS analysis	30	Completed	VAN
SHP01	28	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: Adanac
Report Date: August 04, 2016

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CERTIFICATE OF ANALYSIS

WHI16000109.1

	Method	Analyte	Unit	MDL	WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202			
					Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
662205	Rock																							
662206	Rock																							
662207	Rock																							
662208	Rock																							
662210	Rock																							
662211	Rock																							
662212	Rock																							
662213	Rock																							
662214	Rock																							
662215	Rock																							
662216	Rock																							
662217	Rock																							
662218	Rock																							
662219	Rock																							
662220	Rock																							
662221	Rock																							
662222	Rock																							
662223	Rock																							
662224	Rock																							
662225	Rock																							
662226	Rock																							
662227	Rock																							
662228	Rock																							
662229	Rock																							
662230	Rock																							
662231	Rock																							
662232	Rock																							
662106	Rock																							



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CERTIFICATE OF ANALYSIS

WHI16000109.1

Method Analyte Unit MDL		AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
662205	Rock	23	4	<0.01	4	<0.001	1	0.04	0.002	0.04	53.0	0.02	14.5	0.1	0.07	1	0.8	<0.2
662206	Rock	2	7	<0.01	3	<0.001	<1	0.01	0.002	<0.01	50.6	0.02	9.2	<0.1	<0.05	<1	<0.5	15.6
662207	Rock	2	16	0.08	61	0.010	9	0.31	0.006	0.05	>100	0.10	0.5	0.7	0.14	6	11.0	0.3
662208	Rock	29	9	0.08	91	<0.001	4	0.87	0.013	0.23	51.0	0.02	2.4	0.9	<0.05	3	<0.5	<0.2
662210	Rock	3	9	0.01	9	<0.001	<1	0.11	0.002	0.06	31.1	0.02	0.2	0.4	0.08	1	0.8	<0.2
662211	Rock	22	6	0.03	37	<0.001	2	0.35	0.015	0.24	31.4	0.02	0.7	0.9	0.13	2	0.6	<0.2
662212	Rock	2	5	0.05	12	<0.001	2	0.21	0.001	0.14	5.5	0.09	1.7	1.1	>10	4	0.9	1.2
662213	Rock	1	3	0.11	7	<0.001	2	0.11	<0.001	0.08	14.3	0.09	0.6	0.7	>10	3	0.8	1.2
662214	Rock	32	75	0.82	423	0.188	<1	1.13	0.084	0.69	3.0	<0.01	2.9	0.9	0.06	6	<0.5	<0.2
662215	Rock	15	18	0.21	32	0.060	1	0.27	<0.001	<0.01	5.3	<0.01	0.6	<0.1	<0.05	<1	<0.5	<0.2
662216	Rock	44	4	0.03	179	0.002	3	0.65	0.008	0.41	10.0	0.01	0.5	0.9	0.27	3	0.5	<0.2
662217	Rock	9	5	<0.01	8	0.001	2	0.32	0.003	0.14	3.6	0.01	0.2	0.3	0.09	5	<0.5	<0.2
662218	Rock	5	3	<0.01	19	<0.001	<1	0.35	0.014	0.17	7.1	<0.01	<0.1	0.5	1.64	3	<0.5	0.2
662219	Rock	2	4	0.56	25	0.005	2	0.89	0.017	0.52	>100	*	5.1	1.9	>10	5	26.0	9.9
662220	Rock	7	7	<0.01	10	<0.001	<1	0.04	<0.001	0.03	>100	*	10.7	0.5	0.44	<1	<0.5	4.9
662221	Rock	3	8	<0.01	9	<0.001	1	0.15	0.004	0.10	30.9	0.01	0.9	0.2	<0.05	<1	<0.5	<0.2
662222	Rock	7	56	0.28	111	0.028	<1	0.85	0.110	0.17	52.3	0.02	2.2	0.1	0.17	3	<0.5	<0.2
662223	Rock	3	77	0.52	118	0.075	<1	1.83	0.276	0.19	4.5	<0.01	3.0	0.2	1.31	3	3.6	<0.2
662224	Rock	4	309	2.16	25	0.130	<1	3.80	0.167	1.01	1.7	<0.01	12.0	0.6	4.03	12	13.7	0.6
662225	Rock	7	168	2.42	89	0.282	<1	2.79	0.145	1.62	1.4	<0.01	10.5	1.1	1.33	10	3.9	<0.2
662226	Rock	5	262	3.76	64	0.290	<1	3.88	0.145	2.05	1.0	<0.01	13.7	0.9	1.24	13	2.3	<0.2
662227	Rock	7	119	2.05	79	0.286	<1	3.61	0.343	1.40	1.5	<0.01	9.5	1.7	1.29	11	4.7	<0.2
662228	Rock	8	104	1.78	517	0.124	<1	2.24	0.069	0.62	1.0	<0.01	9.0	1.1	0.08	7	<0.5	<0.2
662229	Rock	6	163	1.15	157	0.180	<1	2.12	0.292	0.57	1.0	<0.01	2.6	0.5	0.74	7	2.1	<0.2
662230	Rock	5	193	3.88	217	0.353	<1	3.90	0.145	2.98	0.6	<0.01	17.6	2.2	0.58	14	2.0	<0.2
662231	Rock	7	49	0.92	324	0.101	<1	1.09	0.127	0.49	2.1	<0.01	5.6	0.4	0.48	4	1.3	<0.2
662232	Rock	7	29	0.35	338	0.119	<1	2.15	0.255	0.04	4.4	<0.01	1.8	<0.1	<0.05	6	<0.5	<0.2
662106	Rock	22	11	0.10	55	0.107	2	1.50	0.294	0.08	2.7	<0.01	1.7	0.2	0.63	4	<0.5	<0.2



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Project: Adanac
Report Date: August 04, 2016

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Part: 1 of 2

QUALITY CONTROL REPORT

WHI16000109.1

	Method Analyte Unit MDL	WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
662224	Rock	0.24	3.8	219.3	15.7	118	1.4	190.2	47.9	508	6.57	<0.5	1.1	0.9	64	1.2	0.4	0.7	284	0.77	0.066
REP 662224	QC		4.0	226.6	16.1	122	1.4	191.1	50.0	512	6.57	<0.5	<0.5	0.9	66	1.2	0.4	0.7	288	0.81	0.067
Core Reject Duplicates																					
662223	Rock	0.87	0.4	53.3	7.5	48	0.3	26.7	10.6	734	2.22	0.9	<0.5	0.3	197	0.4	0.3	0.2	55	13.88	0.082
DUP 662223	QC		0.4	53.8	7.6	48	0.3	27.6	11.2	735	2.22	0.6	<0.5	0.3	203	0.5	0.3	0.2	56	13.96	0.085
Reference Materials																					
STD DS10	Standard		16.4	170.8	164.6	390	1.9	80.9	14.1	909	2.86	50.2	84.7	8.9	73	3.1	9.4	13.8	45	1.11	0.081
STD OXC129	Standard		1.4	31.8	7.7	43	<0.1	83.7	21.9	420	3.10	0.5	204.6	2.2	199	<0.1	<0.1	<0.1	53	0.66	0.099
STD DS10 Expected			15.1	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	46.2	91.9	7.5	67.1	2.62	9	11.65	43	1.0625	0.0765
STD OXC129 Expected			1.3	28	6.3	42.9		79.5	20.3	421	3.065	0.6	195	1.9					51	0.665	0.102
BLK	Blank		<0.1	<0.1	0.3	<1	<0.1	<0.1	<0.1	<1	<0.01	0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
Prep Wash																					
ROCK-WHI	Prep Blank		0.5	3.2	1.5	33	<0.1	0.6	4.1	416	1.73	1.0	1.3	2.4	30	<0.1	<0.1	<0.1	24	0.62	0.045
ROCK-WHI	Prep Blank		0.5	3.9	1.7	34	<0.1	1.0	4.1	448	1.85	1.3	<0.5	2.6	36	<0.1	<0.1	<0.1	24	0.90	0.046



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Project: Adanac
Report Date: August 04, 2016

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QUALITY CONTROL REPORT

WHI16000109.1

	Method Analyte Unit MDL	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																		
662224	Rock	4	309	2.16	25	0.130	<1	3.80	0.167	1.01	1.7	<0.01	12.0	0.6	4.03	12	13.7	0.6
REP 662224	QC	4	308	2.11	26	0.131	<1	3.70	0.169	1.01	1.6	<0.01	12.4	0.7	4.06	12	13.1	0.6
Core Reject Duplicates																		
662223	Rock	3	77	0.52	118	0.075	<1	1.83	0.276	0.19	4.5	<0.01	3.0	0.2	1.31	3	3.6	<0.2
DUP 662223	QC	2	80	0.53	116	0.076	<1	1.83	0.279	0.19	3.6	<0.01	3.0	0.2	1.31	4	4.2	<0.2
Reference Materials																		
STD DS10	Standard	21	61	0.82	376	0.091	8	1.10	0.071	0.34	3.5	0.29	3.1	5.8	0.29	4	2.5	5.0
STD OXC129	Standard	14	55	1.59	53	0.406	2	1.58	0.612	0.36	0.3	<0.01	0.6	<0.1	<0.05	5	<0.5	<0.2
STD DS10 Expected		17.5	54.6	0.775	359	0.0817		1.0755	0.067	0.338	3.32	0.3	3	5.1	0.29	4.5	2.3	5.01
STD OXC129 Expected		13	52	1.545	50	0.4	1	1.58	0.6	0.37			1.1			5.6		
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																		
ROCK-WHI	Prep Blank	6	4	0.42	70	0.085	1	0.91	0.067	0.07	0.2	<0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
ROCK-WHI	Prep Blank	7	5	0.43	82	0.101	1	1.10	0.101	0.10	0.4	<0.01	3.3	<0.1	<0.05	5	<0.5	<0.2



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Submitted By: Janet Miller
Receiving Lab: Canada-Whitehorse
Received: September 26, 2016
Report Date: October 13, 2016
Page: 1 of 2

CERTIFICATE OF ANALYSIS

WHI16000313.1

CLIENT JOB INFORMATION

Project: Adanac
Shipment ID:
P.O. Number
Number of Samples: 18

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Zinex Mining Corp.
Box 997
Whistler British Columbia V0N 1B0
Canada

CC: Barry Hanslit
Caoimhe Peat

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	18	Crush, split and pulverize 250 g rock to 200 mesh			WHI
AQ202	18	1:1:1 Aqua Regia digestion ICP-MS analysis	30	Completed	VAN
SHP01	18	Per sample shipping charges for branch shipments			VAN
MA370	1	4-Acid Digestion ICP-ES Finish	0.5	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: Adanac
Report Date: October 13, 2016

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Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI16000313.1

	Method Analyte Unit MDL	WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
662233	Rock	0.29	2.1	53.8	25.2	7	3.0	1.3	0.4	46	0.85	327.9	21.8	55.0	7	<0.1	9.7	3.6	<2	0.02	0.003
662234	Rock	3.15	0.8	1675.6	>10000	>10000	>100	2.0	1.2	127	8.47	>10000	1708.4	10.4	1	156.2	>2000	79.6	<2	0.01	0.004
662235	Rock	1.13	2.1	108.5	109.6	24	1.5	0.8	0.8	32	0.75	87.4	2.3	36.2	2	0.3	61.0	5.9	<2	0.32	0.001
662236	Rock	1.30	1.1	178.4	67.9	17	0.5	0.6	0.5	26	1.89	38.0	0.8	27.3	<1	0.2	6.8	4.4	<2	0.07	0.003
662237	Rock	0.94	34.8	69.3	13.7	107	0.4	59.5	15.6	94	1.61	6.8	<0.5	3.2	60	2.7	1.1	0.4	192	1.12	0.257
662238	Rock	0.54	1.0	238.7	6.0	46	0.3	26.7	27.7	751	3.76	3.7	<0.5	0.7	553	0.5	0.3	0.1	113	4.66	0.141
662239	Rock	0.25	0.2	8.0	6.0	34	<0.1	15.9	3.5	132	1.14	5.2	<0.5	0.1	108	0.6	0.4	<0.1	37	1.78	0.123
662240	Rock	0.52	5.8	18.9	7.6	99	<0.1	33.2	15.8	812	3.51	5.0	2.3	1.4	137	0.6	0.4	0.9	86	9.61	0.036
662241	Rock	0.14	0.3	20.6	1.7	27	<0.1	40.8	13.2	2542	1.60	13.7	0.5	0.2	425	<0.1	0.2	<0.1	52	27.67	0.041
662242	Rock	0.30	0.2	31.8	9.3	94	0.1	79.4	20.8	901	4.15	5.9	8.4	0.5	106	0.2	0.3	1.5	86	4.94	0.058
662243	Rock	0.28	0.4	3.6	8.1	26	<0.1	12.4	3.0	221	0.63	3.2	1.0	0.7	124	0.5	0.9	0.1	20	2.12	0.106
662244	Rock	0.85	0.2	130.1	4.3	66	<0.1	24.4	9.1	1215	3.74	2.1	<0.5	0.7	262	0.2	0.1	0.4	81	17.92	0.100
662245	Rock	0.66	0.1	1.3	1.9	3	<0.1	2.6	0.6	53	0.39	1.1	<0.5	<0.1	3	<0.1	<0.1	<0.1	3	0.23	0.001
662246	Rock	0.70	15.0	61.2	1.3	77	<0.1	341.1	30.8	361	3.30	1.4	<0.5	1.6	12	0.1	0.2	<0.1	133	0.44	0.097
662247	Rock	1.05	3.9	55.2	0.9	95	0.2	234.0	28.6	402	3.68	5.0	0.7	1.5	16	0.1	0.1	0.2	131	0.46	0.112
662248	Rock	0.44	330.6	7.9	248.6	759	0.9	1.9	0.8	8071	1.22	426.6	18.7	25.3	2	22.8	5.6	0.5	<2	0.12	0.001
662249	Rock	0.59	363.5	5.5	226.9	891	1.8	1.8	1.5	>10000	2.78	6017.5	79.6	24.5	3	4.2	27.0	0.4	<2	0.22	0.007
662250	Rock	0.21	>2000	5.8	24.2	210	0.1	1.1	0.6	1071	0.79	39.6	1.6	30.0	3	5.7	1.8	0.3	7	0.30	0.002



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Project: Adanac
Report Date: October 13, 2016

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Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI16000313.1

	Method Analyte Unit MDL	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	MA370	MA370	MA370
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te	Pb	Zn	Ag
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	gm/t
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.02	0.01	2
662233	Rock	5	3	0.01	168	<0.001	6	0.33	0.008	0.30	7.3	<0.01	0.2	0.7	0.19	2	<0.5	1.3			
662234	Rock	4	4	0.01	27	<0.001	<1	0.24	0.003	0.20	0.8	0.04	0.1	1.5	7.07	1	5.8	2.4	2.93	1.11	117
662235	Rock	13	2	0.01	39	0.003	5	0.57	0.010	0.39	17.2	<0.01	0.5	0.7	0.15	4	<0.5	1.1			
662236	Rock	10	2	<0.01	13	0.002	<1	0.41	0.011	0.28	6.0	<0.01	0.3	0.4	0.29	2	0.9	0.5			
662237	Rock	5	29	0.41	122	0.044	1	1.16	0.074	0.31	0.5	<0.01	4.4	0.3	0.72	4	5.3	<0.2			
662238	Rock	5	75	2.29	601	0.103	<1	3.95	0.177	0.43	0.1	<0.01	8.3	0.3	0.05	8	0.7	<0.2			
662239	Rock	2	79	1.13	168	0.041	<1	1.50	0.094	0.07	0.3	<0.01	2.7	<0.1	<0.05	3	<0.5	<0.2			
662240	Rock	3	65	2.54	53	0.026	<1	1.19	0.028	0.02	0.2	<0.01	6.8	<0.1	<0.05	4	<0.5	<0.2			
662241	Rock	1	168	1.17	191	0.053	<1	1.61	0.003	0.47	0.1	<0.01	7.6	0.5	<0.05	4	<0.5	<0.2			
662242	Rock	2	149	7.64	859	0.119	<1	3.06	0.016	0.49	0.2	<0.01	5.5	1.0	<0.05	9	<0.5	<0.2			
662243	Rock	4	21	0.72	239	0.134	<1	0.88	0.113	0.06	0.7	<0.01	1.4	<0.1	<0.05	2	<0.5	<0.2			
662244	Rock	4	47	4.41	524	0.088	<1	2.49	0.009	1.58	0.2	<0.01	5.9	2.1	0.66	6	0.6	<0.2			
662245	Rock	<1	5	0.11	3	0.003	<1	0.03	0.007	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2			
662246	Rock	5	440	4.06	503	0.233	<1	2.58	0.027	2.06	<0.1	<0.01	5.2	1.9	<0.05	7	<0.5	<0.2			
662247	Rock	8	353	4.87	636	0.286	2	3.20	0.044	2.42	1.5	<0.01	6.0	2.1	<0.05	9	<0.5	<0.2			
662248	Rock	24	5	0.04	9	<0.001	4	0.44	0.003	0.24	2.1	<0.01	0.4	0.6	0.44	2	<0.5	<0.2			
662249	Rock	24	3	0.08	11	<0.001	2	0.89	0.002	0.22	2.2	0.02	0.9	1.2	1.14	5	<0.5	<0.2			
662250	Rock	20	4	0.03	8	<0.001	9	0.82	0.004	0.17	8.8	<0.01	0.6	0.3	0.27	3	<0.5	<0.2			



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QUALITY CONTROL REPORT

WHI16000313.1

	Method	WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
662242	Rock	0.30	0.2	31.8	9.3	94	0.1	79.4	20.8	901	4.15	5.9	8.4	0.5	106	0.2	0.3	1.5	86	4.94	0.058
REP 662242	QC		0.1	31.4	8.1	92	0.1	73.1	19.4	903	4.14	5.9	8.1	0.4	110	0.3	0.3	1.3	86	4.98	0.058
Reference Materials																					
STD CDN-ME-14	Standard																				
STD CDN-ME-9	Standard																				
STD DS10	Standard		14.6	175.1	158.9	395	1.9	77.6	14.3	867	2.83	52.3	85.2	7.5	66	3.2	9.1	13.4	44	1.09	0.073
STD DS10	Standard		17.1	174.4	171.0	388	1.9	77.5	12.6	883	2.76	44.4	87.7	8.3	71	3.0	9.3	13.3	44	1.05	0.063
STD OXC129	Standard		1.4	29.0	6.2	41	<0.1	81.3	21.2	401	3.09	0.5	194.7	1.7	200	<0.1	<0.1	<0.1	53	0.66	0.103
STD OXC129	Standard		1.5	31.7	6.8	40	<0.1	86.0	22.2	427	3.11	0.7	210.0	1.9	207	<0.1	<0.1	<0.1	54	0.68	0.107
STD DS10 Expected			15.1	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	46.2	91.9	7.5	67.1	2.62	9	11.65	43	1.0625	0.0765
STD OXC129 Expected			1.3	28	6.3	42.9		79.5	20.3	421	3.065	0.6	195	1.9					51	0.665	0.102
STD CDN-ME-14 Expected																					
STD CDN-ME-9 Expected																					
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank		0.8	9.0	1.9	29	<0.1	9.0	3.9	409	1.68	0.8	<0.5	2.4	28	<0.1	<0.1	<0.1	21	0.57	0.040
ROCK-WHI	Prep Blank		0.8	4.6	1.9	30	<0.1	2.6	3.7	403	1.66	1.0	<0.5	2.4	28	<0.1	<0.1	<0.1	21	0.58	0.036



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Client: **Zinex Mining Corp.**
Box 997
Whistler British Columbia V0N 1B0 Canada

Project: Adanac
Report Date: October 13, 2016

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

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Page: 1 of 1

Part: 2 of 2

QUALITY CONTROL REPORT

WHI16000313.1

	Method Analyte Unit MDL	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	MA370	MA370	MA370
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Pb	Zn	Ag
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	gm/t
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.02	0.01	2
Pulp Duplicates																					
662242	Rock	2	149	7.64	859	0.119	<1	3.06	0.016	0.49	0.2	<0.01	5.5	1.0	<0.05	9	<0.5	<0.2			
REP 662242	QC	2	142	7.69	820	0.119	<1	3.08	0.016	0.49	0.2	<0.01	5.9	0.8	<0.05	8	<0.5	<0.2			
Reference Materials																					
STD CDN-ME-14	Standard																		0.49	3.12	44
STD CDN-ME-9	Standard																		<0.02	<0.01	4
STD DS10	Standard	17	52	0.78	344	0.076	9	1.07	0.076	0.35	3.2	0.26	2.8	5.4	0.29	4	1.7	5.2			
STD DS10	Standard	18	57	0.77	365	0.085	6	1.05	0.072	0.33	3.8	0.34	3.2	6.0	0.28	5	2.3	5.3			
STD OXC129	Standard	12	53	1.54	52	0.425	2	1.59	0.607	0.39	0.2	<0.01	0.8	<0.1	<0.05	5	<0.5	<0.2			
STD OXC129	Standard	13	56	1.55	53	0.439	<1	1.59	0.602	0.37	<0.1	<0.01	0.9	<0.1	<0.05	5	<0.5	<0.2			
STD DS10 Expected		17.5	54.6	0.775	359	0.0817		1.0755	0.067	0.338	3.32	0.3	3	5.1	0.29	4.5	2.3	5.01			
STD OXC129 Expected		13	52	1.545	50	0.4	1	1.58	0.6	0.37			1.1			5.6					
STD CDN-ME-14 Expected																			0.495	3.1	42.3
STD CDN-ME-9 Expected																			0.012		
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2			
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2			
BLK	Blank																		<0.02	<0.01	<2
Prep Wash																					
ROCK-WHI	Prep Blank	5	3	0.38	80	0.075	1	0.88	0.118	0.11	0.2	<0.01	2.8	<0.1	<0.05	4	<0.5	<0.2			
ROCK-WHI	Prep Blank	5	3	0.36	70	0.082	<1	0.85	0.102	0.10	0.2	<0.01	2.9	<0.1	<0.05	4	<0.5	<0.2			



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PHONE (604) 253-3158

Client: **Zinex Mining Corp.**
Box 997
Whistler British Columbia V0N 1B0 Canada

Submitted By: Janet Miller
Receiving Lab: Canada-Whitehorse
Received: September 26, 2016
Report Date: October 13, 2016
Page: 1 of 2

CERTIFICATE OF ANALYSIS

WHI16000314.1

CLIENT JOB INFORMATION

Project: Adanac
Shipment ID:
P.O. Number
Number of Samples: 13

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Zinex Mining Corp.
Box 997
Whistler British Columbia V0N 1B0
Canada

CC: Barry Hanslit
Caoimhe Peat

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	13	Crush, split and pulverize 250 g rock to 200 mesh			WHI
AQ202	13	1:1:1 Aqua Regia digestion ICP-MS analysis	30	Completed	VAN
SHP01	13	Per sample shipping charges for branch shipments			VAN
MA370	1	4-Acid Digestion ICP-ES Finish	0.5	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Client: **Zinex Mining Corp.**
Box 997
Whistler British Columbia V0N 1B0 Canada

Project: Adanac
Report Date: October 13, 2016

Page: 2 of 2

Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI16000314.1

	Method Analyte Unit MDL	WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
M387954	Rock	0.44	2.3	17.0	159.8	24	6.4	0.7	0.2	36	0.85	524.0	15.1	7.9	3	0.1	38.7	5.8	3	0.02	0.023
M387955	Rock	1.79	15.7	539.4	5799.2	453	>100	20.9	15.6	2839	3.59	>10000	119.5	5.2	2	11.1	>2000	1019.1	<2	0.16	0.004
M387956	Rock	0.56	0.8	64.8	13.8	30	0.1	6.7	2.7	79	1.58	35.4	2.6	3.3	7	<0.1	3.3	1.0	13	0.04	0.032
M387957	Rock	0.96	10.1	13.9	22.7	63	4.5	16.3	10.2	365	3.23	124.9	28375.2	0.2	10	0.6	11.3	3.4	8	0.30	0.026
M387958	Rock	0.15	21.9	284.5	11.2	32	0.3	3.9	6.8	59	2.20	18.4	10.1	25.6	4	0.8	3.4	2.8	5	0.32	0.020
M387959	Rock	0.57	6.1	304.4	13.7	19	0.4	0.7	3.8	33	1.76	11.6	9.3	55.3	8	0.4	2.6	1.6	<2	1.10	0.001
M387960	Rock	1.09	8.9	198.5	7.3	5	0.3	0.1	0.9	56	1.24	16.8	<0.5	55.6	23	<0.1	2.4	0.6	<2	3.53	0.001
M387961	Rock	0.61	29.3	252.2	4.3	17	0.3	0.4	1.6	73	1.66	4.1	3.2	11.7	<1	0.2	0.7	2.0	<2	0.17	0.002
M387962	Rock	0.70	58.5	214.1	5.3	35	0.3	1.1	1.4	99	1.78	2.9	<0.5	17.4	<1	0.5	0.3	2.7	3	0.21	0.005
M387963	Rock	0.45	230.1	121.3	391.6	55	1.6	0.4	0.2	58	4.22	3000.3	30.2	7.7	<1	5.7	37.6	3.0	<2	<0.01	0.002
M387964	Rock	1.18	12.2	403.8	32.6	33	<0.1	1.4	0.7	79	8.17	219.3	4.4	36.0	<1	0.3	14.4	1.8	<2	<0.01	0.003
M387965	Rock	0.81	72.4	164.0	286.8	27	0.8	0.3	0.2	37	3.48	2256.5	9.8	280.7	<1	2.1	74.2	0.7	<2	<0.01	0.002
M387966	Rock	1.25	5.4	5.6	3.5	4	<0.1	1.0	0.2	29	0.30	10.3	3.9	3.1	<1	<0.1	1.1	5.5	<2	0.19	<0.001



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Whistler British Columbia V0N 1B0 Canada

Project: Adanac
Report Date: October 13, 2016

Page: 2 of 2

Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI16000314.1

	Method Analyte Unit MDL	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	MA370
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Ag
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm/t
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	2
M387954	Rock	26	2	0.02	21	0.001	2	0.25	0.002	0.17	4.4	0.02	0.9	0.6	<0.05	4	<0.5	0.9	
M387955	Rock	32	2	0.04	60	0.001	2	0.40	0.004	0.28	>100	*	7.2	1.3	1.95	4	2.9	7.5	106
M387956	Rock	10	15	0.54	418	0.054	1	0.72	0.014	0.46	12.8	<0.01	1.4	0.3	0.33	3	<0.5	<0.2	
M387957	Rock	1	6	0.12	80	0.001	<1	0.17	0.049	0.07	36.2	0.03	4.7	<0.1	0.62	<1	0.9	1.4	
M387958	Rock	9	4	0.09	102	0.005	2	0.68	0.030	0.38	51.0	<0.01	0.9	0.6	0.88	4	0.8	0.5	
M387959	Rock	11	1	0.01	53	0.004	3	1.05	0.076	0.70	10.8	<0.01	0.6	1.0	0.92	5	1.5	0.5	
M387960	Rock	11	<1	0.02	95	0.006	6	1.98	0.037	1.11	13.2	<0.01	1.5	1.7	0.34	11	1.1	0.4	
M387961	Rock	11	1	0.02	26	0.006	1	0.41	0.023	0.24	6.8	<0.01	0.6	0.5	0.74	3	<0.5	<0.2	
M387962	Rock	21	2	0.05	33	0.014	1	0.43	0.033	0.22	10.3	<0.01	1.1	0.4	0.41	4	<0.5	<0.2	
M387963	Rock	8	2	<0.01	64	<0.001	2	0.04	0.002	0.02	7.7	0.02	<0.1	<0.1	<0.05	<1	<0.5	0.4	
M387964	Rock	5	2	<0.01	4	<0.001	<1	0.28	0.002	0.07	1.8	<0.01	0.7	0.1	<0.05	2	0.7	<0.2	
M387965	Rock	27	1	<0.01	24	<0.001	1	0.17	0.002	0.13	3.4	<0.01	0.5	0.5	<0.05	2	<0.5	<0.2	
M387966	Rock	5	2	<0.01	7	<0.001	2	0.24	0.005	0.16	28.4	<0.01	0.2	0.2	<0.05	1	<0.5	<0.2	



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Project: Adanac
Report Date: October 13, 2016

Page: 1 of 1

Part: 1 of 2

QUALITY CONTROL REPORT

WHI16000314.1

	Method Analyte Unit MDL	WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
Pulp Duplicates																					
M387955	Rock	1.79	15.7	539.4	5799.2	453	>100	20.9	15.6	2839	3.59	>10000	119.5	5.2	2	11.1	>2000	1019.1	<2	0.16	0.004
REP M387955	QC																				
M387964	Rock	1.18	12.2	403.8	32.6	33	<0.1	1.4	0.7	79	8.17	219.3	4.4	36.0	<1	0.3	14.4	1.8	<2	<0.01	0.003
REP M387964	QC		11.3	399.8	32.1	32	<0.1	1.3	0.8	78	8.14	221.7	4.9	36.3	<1	0.3	13.4	1.8	<2	<0.01	0.002
Reference Materials																					
STD CDN-ME-14	Standard																				
STD CDN-ME-9	Standard																				
STD DS10	Standard		14.6	175.1	158.9	395	1.9	77.6	14.3	867	2.83	52.3	85.2	7.5	66	3.2	9.1	13.4	44	1.09	0.073
STD OXC129	Standard		1.4	29.0	6.2	41	<0.1	81.3	21.2	401	3.09	0.5	194.7	1.7	200	<0.1	<0.1	<0.1	53	0.66	0.103
STD DS10 Expected			15.1	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	46.2	91.9	7.5	67.1	2.62	9	11.65	43	1.0625	0.0765
STD OXC129 Expected			1.3	28	6.3	42.9		79.5	20.3	421	3.065	0.6	195	1.9					51	0.665	0.102
STD CDN-ME-14 Expected																					
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank		1.5	3.2	2.6	32	<0.1	1.3	4.1	452	1.66	2.9	1.1	2.1	22	<0.1	0.2	<0.1	21	0.53	0.037
ROCK-WHI	Prep Blank		0.9	4.5	2.0	28	<0.1	1.4	3.9	368	1.63	1.3	0.7	2.2	23	<0.1	<0.1	<0.1	20	0.52	0.045



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Client: **Zinex Mining Corp.**
Box 997
Whistler British Columbia V0N 1B0 Canada

Project: Adanac
Report Date: October 13, 2016

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Page: 1 of 1

Part: 2 of 2

QUALITY CONTROL REPORT

WHI16000314.1

	Method Analyte Unit MDL	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	MA370
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Ag
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm/t
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	2
Pulp Duplicates																			
M387955	Rock	32	2	0.04	60	0.001	2	0.40	0.004	0.28	>100	*	7.2	1.3	1.95	4	2.9	7.5	106
REP M387955	QC																		107
M387964	Rock	5	2	<0.01	4	<0.001	<1	0.28	0.002	0.07	1.8	<0.01	0.7	0.1	<0.05	2	0.7	<0.2	
REP M387964	QC	4	2	<0.01	4	<0.001	<1	0.28	0.002	0.07	1.5	<0.01	0.6	<0.1	<0.05	2	0.7	<0.2	
Reference Materials																			
STD CDN-ME-14	Standard																		45
STD CDN-ME-9	Standard																		4
STD DS10	Standard	17	52	0.78	344	0.076	9	1.07	0.076	0.35	3.2	0.26	2.8	5.4	0.29	4	1.7	5.2	
STD OXC129	Standard	12	53	1.54	52	0.425	2	1.59	0.607	0.39	0.2	<0.01	0.8	<0.1	<0.05	5	<0.5	<0.2	
STD DS10 Expected		17.5	54.6	0.775	359	0.0817		1.0755	0.067	0.338	3.32	0.3	3	5.1	0.29	4.5	2.3	5.01	
STD OXC129 Expected		13	52	1.545	50	0.4	1	1.58	0.6	0.37			1.1			5.6			
STD CDN-ME-14 Expected																			42.3
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank																		<2
Prep Wash																			
ROCK-WHI	Prep Blank	4	3	0.39	64	0.064	1	0.91	0.114	0.10	0.2	<0.01	2.2	<0.1	<0.05	3	<0.5	<0.2	
ROCK-WHI	Prep Blank	5	3	0.38	60	0.061	1	0.89	0.133	0.12	<0.1	<0.01	1.9	<0.1	<0.05	3	<0.5	<0.2	



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Client: **Zinex Mining Corp.**
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Submitted By: Janet Miller
Receiving Lab: Canada-Whitehorse
Received: May 17, 2017
Report Date: June 02, 2017
Page: 1 of 2

CERTIFICATE OF ANALYSIS

WHI17000042.1

CLIENT JOB INFORMATION

Project: Adanac
Shipment ID:
P.O. Number
Number of Samples: 27

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Zinex Mining Corp.
Box 997
Whistler British Columbia V0N 1B0
Canada

CC: Barry Hanslit
Caoimhe Peat

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	27	Crush, split and pulverize 250 g rock to 200 mesh			WHI
AQ252_EXT	27	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	30	Completed	VAN
SHP01	27	Per sample shipping charges for branch shipments			VAN
MA370	1	4-Acid Digestion ICP-ES Finish	0.5	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: Adanac
Report Date: June 02, 2017

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CERTIFICATE OF ANALYSIS

WHI17000042.1

	Method Analyte Unit MDL	WGHT	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
1542451	Rock	1.60	0.42	5.22	1.07	9.3	64	878.5	54.9	742	3.41	7.4	<0.1	0.6	<0.1	45.8	0.08	0.64	<0.02	12	0.93
1542452	Rock	1.32	0.16	3.58	0.26	17.2	6	1558.9	63.0	484	3.18	2.3	<0.1	0.8	<0.1	1.8	0.01	0.08	<0.02	24	0.10
1542453	Rock	0.27	1.12	1.98	17.61	19.4	85	6.0	0.5	52	0.54	27.6	2.4	<0.2	28.2	1.7	0.20	0.37	4.57	<2	0.26
1542454	Rock	0.25	1.23	1.45	13.38	36.3	78	3.1	0.8	63	0.67	79.0	10.9	<0.2	42.7	2.1	0.12	0.41	1.90	<2	0.32
1542455	Rock	0.39	19.31	128.74	8.04	110.9	291	41.1	14.3	464	3.50	11.8	4.8	0.7	5.7	20.4	0.38	0.26	1.32	189	0.31
1542456	Rock	0.75	1.33	196.96	373.02	546.6	3502	1.1	0.4	76	0.58	5.9	8.5	<0.2	30.4	5.5	12.48	2.59	3.77	<2	0.46
1542457	Rock	0.77	0.19	27.35	1.41	24.3	27	27.0	3.4	74	0.75	1.6	0.4	<0.2	1.7	3.7	0.08	0.09	0.07	33	0.14
1542458	Rock	1.33	0.64	11.97	1.78	19.2	20	1565.4	82.2	724	4.67	17.9	0.2	<0.2	<0.1	2.5	0.06	0.34	<0.02	33	0.04
1542459	Rock	2.18	0.65	74.95	2.58	16.1	85	1341.7	67.7	484	3.64	15.0	0.4	<0.2	<0.1	4.3	0.21	0.53	<0.02	50	0.19
1542460	Rock	2.02	0.06	12.50	1.62	50.4	30	32.4	27.2	643	4.62	0.7	<0.1	<0.2	0.1	109.3	0.08	0.05	<0.02	156	1.73
1542461	Rock	1.29	1.62	70.13	2.52	55.8	180	90.6	21.6	1154	2.88	0.7	0.4	<0.2	0.8	233.4	0.30	0.16	0.08	105	9.04
1542462	Rock	1.37	0.42	3.39	1.82	14.6	35	18.2	1.7	264	0.28	1.1	0.5	<0.2	1.3	159.6	0.24	0.12	<0.02	9	7.15
1542463	Rock	1.68	0.32	22.42	1.85	14.9	32	13.7	2.0	71	0.59	2.1	0.9	<0.2	1.2	7.7	0.06	0.10	0.06	21	0.45
1542464	Rock	0.98	0.60	14.52	5.30	14.9	41	11.6	1.5	75	0.92	3.8	1.9	<0.2	25.7	4.6	0.04	0.25	0.35	2	0.08
1542465	Rock	0.51	2.23	33.95	20.03	20.2	197	30.2	2.9	129	1.47	5.6	2.6	<0.2	24.3	11.8	0.11	0.90	1.54	7	0.15
1542466	Rock	1.05	0.23	4.47	0.38	2.0	6	4.2	0.9	44	0.21	1.5	0.2	0.3	0.2	0.5	0.03	0.05	<0.02	<2	0.01
1542467	Rock	0.58	0.21	4.87	1.22	24.2	13	19.6	4.1	217	0.93	2.6	0.4	<0.2	1.6	2.0	0.10	0.08	0.04	17	0.04
1542468	Rock	0.69	0.43	87.37	5.45	28.8	154	51.8	10.2	331	1.27	5.3	1.1	1.7	4.9	12.3	0.41	0.14	0.08	25	0.16
1542469	Rock	1.43	0.22	317.39	2.75	35.8	868	61.1	25.9	385	3.27	5.3	0.6	4.6	0.7	435.7	0.17	0.07	0.31	89	3.55
1542470	Rock	2.24	1.83	808.15	103.56	400.1	23641	175.5	50.2	2606	8.33	531.4	0.8	15.0	0.7	12.8	8.96	7.10	4.41	289	0.43
1542471	Rock	1.50	0.17	10.58	1.70	15.9	54	7.2	2.1	100	0.55	2.5	0.1	<0.2	0.9	7.3	0.10	0.19	0.03	13	0.32
1542472	Rock	1.05	0.31	252.64	3.30	89.4	819	186.4	46.3	319	5.64	<0.1	0.2	0.4	<0.1	75.9	0.27	0.26	0.46	184	1.71
1542473	Rock	1.28	1.44	207.60	2.69	65.2	567	194.4	47.1	513	4.34	0.9	0.3	<0.2	0.3	167.4	0.31	0.25	0.29	120	6.78
1542474	Rock	1.97	0.17	1.20	780.84	137.4	74222	2.2	0.9	46	0.35	5.1	<0.1	5321.6	<0.1	1.2	14.67	0.05	49.64	<2	0.08
1542475	Rock	3.14	0.17	1.57	9.07	23.8	954	7.7	4.2	190	1.01	35.0	<0.1	58.1	<0.1	9.4	1.25	0.06	0.70	4	0.63
1542476	Rock	1.97	0.15	2.33	2.79	12.0	528	6.2	1.6	618	0.68	4.8	<0.1	22.2	<0.1	71.7	0.58	0.04	0.29	7	2.42
1542477	Rock	0.25	0.19	>10000	7.85	20.0	2623	55.3	21.3	90	11.68	16.4	<0.1	61.7	<0.1	16.2	0.14	3.28	5.23	<2	0.74



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CERTIFICATE OF ANALYSIS

WHI17000042.1

	Method	Analyte	Unit	MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252			
					P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge
					%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
					0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1
1542451	Rock				0.002	<0.5	185.3	13.03	17.0	<0.001	1	0.03	0.002	<0.01	1.1	4.2	<0.02	<0.02	<5	<0.1	<0.02	0.3	0.05	<0.1
1542452	Rock				<0.001	<0.5	870.4	12.67	1.9	0.001	33	0.33	<0.001	<0.01	0.3	6.6	<0.02	<0.02	<5	<0.1	<0.02	0.5	<0.02	<0.1
1542453	Rock				0.004	27.9	7.3	0.05	9.6	0.009	3	0.43	0.082	0.33	1.5	1.4	0.37	<0.02	<5	0.4	0.07	4.5	3.48	<0.1
1542454	Rock				0.003	36.3	5.8	0.03	17.0	0.013	3	0.57	0.083	0.36	1.5	1.9	0.64	<0.02	<5	0.6	0.04	6.6	6.90	<0.1
1542455	Rock				0.081	10.3	53.9	1.26	96.1	0.094	2	2.15	0.065	1.27	0.3	6.6	1.31	1.15	<5	2.7	0.17	7.2	12.79	<0.1
1542456	Rock				0.002	31.9	8.8	0.03	24.2	0.007	3	0.66	0.076	0.39	14.0	1.0	0.78	0.19	<5	<0.1	<0.02	4.9	3.50	0.1
1542457	Rock				0.028	3.7	28.8	0.31	74.6	0.050	<1	0.35	0.035	0.16	<0.1	2.4	0.08	<0.02	<5	<0.1	0.03	2.2	0.81	<0.1
1542458	Rock				0.012	<0.5	1070.8	15.62	42.7	0.005	20	0.48	0.002	<0.01	<0.1	8.6	0.02	0.08	<5	<0.1	<0.02	2.3	0.56	0.1
1542459	Rock				0.007	<0.5	1544.9	9.14	77.6	0.005	15	1.49	0.002	<0.01	<0.1	8.4	0.05	0.12	<5	<0.1	<0.02	5.1	0.92	<0.1
1542460	Rock				0.049	1.3	22.4	2.63	2713.1	0.292	2	4.09	0.241	1.82	<0.1	11.8	0.66	<0.02	<5	<0.1	<0.02	7.6	12.21	<0.1
1542461	Rock				0.054	2.5	189.5	1.18	256.2	0.130	<1	3.44	0.418	1.06	0.2	13.5	0.40	0.72	<5	0.2	0.16	7.9	3.65	0.1
1542462	Rock				0.081	6.7	25.4	0.19	62.9	0.076	<1	1.02	0.084	0.04	0.2	1.0	0.03	<0.02	<5	<0.1	<0.02	3.1	1.21	<0.1
1542463	Rock				0.156	3.6	31.9	0.20	49.2	0.028	<1	0.21	0.036	0.08	0.2	1.7	0.03	<0.02	<5	<0.1	0.04	1.3	0.35	<0.1
1542464	Rock				0.003	41.6	11.6	0.06	15.5	0.019	<1	0.41	0.039	0.17	1.7	0.8	0.23	<0.02	<5	<0.1	<0.02	3.5	3.14	<0.1
1542465	Rock				0.008	35.6	22.0	0.34	30.8	0.009	1	0.64	0.014	0.15	1.7	1.3	0.23	<0.02	<5	<0.1	0.09	3.1	4.29	<0.1
1542466	Rock				0.002	0.5	28.4	0.02	6.5	0.001	<1	0.05	0.003	0.02	0.4	0.2	0.05	<0.02	<5	<0.1	<0.02	0.2	0.32	<0.1
1542467	Rock				0.010	6.5	28.4	0.33	85.4	0.027	1	0.52	0.015	0.24	0.3	3.0	0.31	<0.02	<5	<0.1	<0.02	2.3	2.12	<0.1
1542468	Rock				0.006	12.5	37.4	0.49	111.3	0.037	2	1.11	0.072	0.41	0.5	4.5	0.60	0.02	<5	<0.1	0.04	3.3	6.01	<0.1
1542469	Rock				0.141	7.6	164.9	1.06	209.4	0.296	2	4.07	0.233	0.26	0.4	7.9	0.20	0.56	<5	0.6	0.07	11.6	2.90	<0.1
1542470	Rock				0.074	6.4	48.3	1.03	352.6	0.020	3	1.88	0.009	0.37	5.6	26.2	1.09	<0.02	65	0.3	0.11	6.9	8.06	<0.1
1542471	Rock				0.004	2.2	35.4	0.14	14.0	0.010	<1	0.19	0.014	0.02	<0.1	1.6	<0.02	<0.02	<5	<0.1	<0.02	0.9	0.22	<0.1
1542472	Rock				0.034	0.7	485.2	2.13	40.7	0.310	<1	4.26	0.169	1.67	0.3	5.4	0.90	2.63	<5	12.1	0.36	14.5	9.98	0.2
1542473	Rock				0.054	1.4	357.3	1.62	53.9	0.237	<1	3.90	0.180	1.17	0.2	3.1	0.73	1.84	<5	10.7	0.29	12.0	7.13	0.2
1542474	Rock				<0.001	<0.5	35.1	0.04	1.6	<0.001	<1	0.02	0.002	0.01	<0.1	0.3	0.03	0.17	15	5.2	34.08	0.1	0.03	<0.1
1542475	Rock				0.003	<0.5	28.5	0.33	2.4	<0.001	<1	0.05	0.013	0.02	<0.1	2.0	<0.02	0.57	5	1.2	0.84	0.3	0.05	<0.1
1542476	Rock				<0.001	<0.5	21.9	1.32	3.7	<0.001	<1	0.02	0.008	<0.01	<0.1	7.5	<0.02	0.08	<5	<0.1	0.28	0.1	<0.02	<0.1
1542477	Rock				0.002	<0.5	9.6	0.49	12.8	<0.001	<1	0.08	0.008	0.01	<0.1	0.3	0.08	3.96	406	7.4	0.07	0.6	0.04	3.9



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	MA370
		Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Cu
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%
		0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.001
1542451	Rock	<0.02	<0.02	0.4	<0.1	<0.05	<0.1	0.21	<0.1	<0.02	<1	0.1	0.4	<10	<2	
1542452	Rock	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	0.18	<0.1	<0.02	<1	<0.1	0.2	<10	7	
1542453	Rock	0.95	8.32	72.0	4.9	<0.05	19.8	101.55	58.8	0.07	<1	0.9	44.4	<10	<2	
1542454	Rock	1.29	9.49	100.8	4.5	<0.05	27.5	114.85	76.4	0.06	<1	1.1	85.0	<10	<2	
1542455	Rock	0.28	0.07	112.7	1.4	<0.05	11.2	8.21	21.2	<0.02	34	1.6	67.7	<10	<2	
1542456	Rock	1.89	8.24	69.9	23.0	<0.05	43.7	38.40	64.5	0.63	<1	1.4	11.9	<10	<2	
1542457	Rock	0.20	0.12	11.1	0.4	<0.05	8.5	3.82	8.2	<0.02	<1	<0.1	3.8	<10	<2	
1542458	Rock	<0.02	<0.02	0.4	0.1	<0.05	1.0	1.26	0.5	<0.02	1	0.1	3.6	<10	<2	
1542459	Rock	0.02	<0.02	0.5	0.1	<0.05	0.5	2.98	0.9	<0.02	1	0.1	1.4	<10	2	
1542460	Rock	0.09	<0.02	54.4	0.2	<0.05	1.4	7.60	3.6	<0.02	<1	<0.1	78.2	<10	<2	
1542461	Rock	0.03	0.06	47.0	0.3	<0.05	1.7	10.13	4.5	0.02	3	0.2	28.7	<10	2	
1542462	Rock	0.10	0.36	2.6	0.3	<0.05	4.3	8.76	10.5	<0.02	<1	0.2	3.6	<10	<2	
1542463	Rock	0.13	0.18	4.1	0.3	<0.05	5.5	7.70	7.8	<0.02	<1	<0.1	2.1	<10	<2	
1542464	Rock	0.54	1.70	25.6	0.9	<0.05	15.1	21.92	89.2	<0.02	<1	1.9	11.5	<10	<2	
1542465	Rock	0.62	0.39	18.6	1.1	<0.05	44.1	22.40	72.8	<0.02	<1	2.7	13.3	<10	<2	
1542466	Rock	<0.02	0.05	2.6	0.2	<0.05	0.2	0.47	1.0	<0.02	<1	<0.1	1.1	<10	<2	
1542467	Rock	<0.02	0.09	19.6	0.4	<0.05	0.4	2.08	13.9	<0.02	<1	0.3	14.4	<10	<2	
1542468	Rock	<0.02	0.16	41.8	0.6	<0.05	0.4	8.57	32.6	0.02	<1	0.9	24.9	<10	<2	
1542469	Rock	0.27	0.40	10.6	8.5	<0.05	7.7	8.29	14.6	0.13	<1	0.3	21.3	<10	<2	
1542470	Rock	0.04	0.08	39.5	5.7	<0.05	1.6	17.62	13.6	0.13	<1	1.0	18.2	12	27	
1542471	Rock	0.03	0.07	0.8	0.5	<0.05	1.0	1.49	4.3	<0.02	<1	0.1	2.4	<10	<2	
1542472	Rock	0.05	0.03	99.7	0.6	<0.05	0.9	6.61	2.2	<0.02	1	0.9	44.9	22	9	
1542473	Rock	0.05	0.06	73.1	0.6	<0.05	1.4	7.92	3.4	<0.02	2	0.5	35.3	12	4	
1542474	Rock	<0.02	<0.02	0.3	0.1	<0.05	<0.1	0.14	<0.1	0.09	<1	<0.1	<0.1	<10	<2	
1542475	Rock	<0.02	<0.02	0.6	0.2	<0.05	<0.1	0.64	0.3	<0.02	<1	<0.1	0.1	<10	<2	
1542476	Rock	<0.02	<0.02	0.2	0.1	<0.05	<0.1	2.87	0.6	0.04	<1	<0.1	<0.1	<10	<2	
1542477	Rock	<0.02	0.03	0.5	51.3	<0.05	<0.1	0.77	0.3	0.72	<1	<0.1	1.8	<10	<2	>10



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QUALITY CONTROL REPORT

WHI17000042.1

	Method Analyte Unit MDL	WGHT	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2
Pulp Duplicates																					
1542453	Rock	0.27	1.12	1.98	17.61	19.4	85	6.0	0.5	52	0.54	27.6	2.4	<0.2	28.2	1.7	0.20	0.37	4.57	<2	0.26
REP 1542453	QC		1.14	2.04	17.20	18.8	91	5.5	0.5	51	0.53	28.2	2.4	<0.2	30.0	1.7	0.20	0.38	4.65	<2	0.26
1542477	Rock	0.25	0.19	>10000	7.85	20.0	2623	55.3	21.3	90	11.68	16.4	<0.1	61.7	<0.1	16.2	0.14	3.28	5.23	<2	0.74
REP 1542477	QC																				
Core Reject Duplicates																					
1542461	Rock	1.29	1.62	70.13	2.52	55.8	180	90.6	21.6	1154	2.88	0.7	0.4	<0.2	0.8	233.4	0.30	0.16	0.08	105	9.04
DUP 1542461	QC		1.64	71.88	2.70	56.4	186	98.5	21.8	1167	2.90	0.5	0.5	<0.2	0.8	245.9	0.29	0.17	0.09	106	9.21
Reference Materials																					
STD CDN-ME-14	Standard																				
STD CDN-ME-9	Standard																				
STD DS10	Standard		16.64	149.83	154.80	369.8	2039	76.4	13.0	906	2.81	48.1	2.9	102.5	8.3	72.9	2.82	8.49	12.67	46	1.13
STD OXC129	Standard		1.29	26.64	6.17	40.5	12	76.9	20.2	428	3.12	0.6	0.7	205.0	1.8	202.7	0.04	0.03	<0.02	54	0.66
STD DS10 Expected			15.1	154.61	150.55	370	2020	74.6	12.9	875	2.7188	46.2	2.59	91.9	7.5	67.1	2.62	9	11.65	43	1.0625
STD OXC129 Expected			1.3	28	6.3	42.9	28	79.5	20.3	421	3.065	0.6	0.72	195	1.9		0.03	0.04		51	0.665
STD CDN-ME-14 Expected																					
STD CDN-ME-9 Expected																					
BLK	Blank		<0.01	<0.01	<0.01	<0.1	<2	0.3	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank		0.73	4.07	1.58	30.3	14	2.8	4.0	441	1.76	6.9	0.5	0.3	2.6	30.2	0.03	0.05	0.03	25	0.72
ROCK-WHI	Prep Blank		0.72	3.34	1.63	30.3	15	1.0	3.7	449	1.76	1.8	0.5	<0.2	2.5	32.8	0.03	0.03	0.02	25	0.75



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Project: Adanac
Report Date: June 02, 2017

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Part: 2 of 3

QUALITY CONTROL REPORT

WHI17000042.1

	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252			
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge			
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm			
		0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1			
Pulp Duplicates																								
1542453	Rock	0.004	27.9	7.3	0.05	9.6	0.009	3	0.43	0.082	0.33	1.5	1.4	0.37	<0.02	<5	0.4	0.07	4.5	3.48	<0.1			
REP 1542453	QC	0.004	27.9	6.9	0.04	9.5	0.008	3	0.40	0.079	0.32	1.4	1.3	0.37	<0.02	<5	0.3	0.07	4.4	3.57	<0.1			
1542477	Rock	0.002	<0.5	9.6	0.49	12.8	<0.001	<1	0.08	0.008	0.01	<0.1	0.3	0.08	3.96	406	7.4	0.07	0.6	0.04	3.9			
REP 1542477	QC																							
Core Reject Duplicates																								
1542461	Rock	0.054	2.5	189.5	1.18	256.2	0.130	<1	3.44	0.418	1.06	0.2	13.5	0.40	0.72	<5	0.2	0.16	7.9	3.65	0.1			
DUP 1542461	QC	0.058	2.7	200.4	1.19	262.9	0.133	<1	3.51	0.425	1.05	0.2	13.9	0.42	0.72	<5	0.4	0.15	7.9	3.92	0.1			
Reference Materials																								
STD CDN-ME-14	Standard																							
STD CDN-ME-9	Standard																							
STD DS10	Standard	0.072	21.1	59.5	0.83	378.6	0.094	7	1.14	0.076	0.36	3.3	3.3	5.32	0.29	289	2.0	5.23	5.0	2.95	<0.1			
STD OXC129	Standard	0.102	12.8	54.7	1.62	53.5	0.412	<1	1.68	0.621	0.37	<0.1	1.0	0.03	<0.02	<5	<0.1	<0.02	5.8	0.16	<0.1			
STD DS10 Expected		0.0765	17.5	54.6	0.775	359	0.0817	1.0755		0.067	0.338	3.32	3	5.1	0.29	300	2.3	5.01	4.5	2.63	0.08			
STD OXC129 Expected		0.102	13	52	1.545	50	0.4	1	1.58	0.6	0.37	0.08	1.1	0.03								5.6	0.16	
STD CDN-ME-14 Expected																								
STD CDN-ME-9 Expected																								
BLK	Blank	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1			
BLK	Blank																							
Prep Wash																								
ROCK-WHI	Prep Blank	0.040	6.7	10.2	0.41	69.2	0.105	2	0.93	0.078	0.08	0.2	3.1	<0.02	<0.02	<5	<0.1	<0.02	4.2	0.09	<0.1			
ROCK-WHI	Prep Blank	0.041	7.0	7.2	0.41	72.7	0.102	1	0.98	0.079	0.09	0.1	3.1	<0.02	<0.02	<5	<0.1	<0.02	4.2	0.09	<0.1			



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Part: 3 of 3

QUALITY CONTROL REPORT

WHI17000042.1

	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	MA370
		Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Cu
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%
		0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.001
Pulp Duplicates																
1542453	Rock	0.95	8.32	72.0	4.9	<0.05	19.8	101.55	58.8	0.07	<1	0.9	44.4	<10	<2	
REP 1542453	QC	0.98	8.20	70.8	4.8	<0.05	18.3	100.15	59.4	0.08	<1	0.7	44.9	17	<2	
1542477	Rock	<0.02	0.03	0.5	51.3	<0.05	<0.1	0.77	0.3	0.72	<1	<0.1	1.8	<10	<2	>10
REP 1542477	QC	>10														
Core Reject Duplicates																
1542461	Rock	0.03	0.06	47.0	0.3	<0.05	1.7	10.13	4.5	0.02	3	0.2	28.7	<10	2	
DUP 1542461	QC	0.06	0.06	48.8	0.3	<0.05	1.4	10.42	4.9	0.02	3	0.3	29.6	<10	<2	
Reference Materials																
STD CDN-ME-14	Standard	1.247														
STD CDN-ME-9	Standard	0.661														
STD DS10	Standard	0.07	1.84	31.9	1.9	<0.05	3.2	9.00	41.9	0.25	58	0.8	20.8	101	197	
STD OXC129	Standard	0.17	1.26	16.0	0.7	<0.05	14.8	4.90	23.4	<0.02	<1	0.9	2.4	<10	<2	
STD DS10 Expected		0.06	1.62	27.7	1.6		2.7	7.77	37	0.23	50	0.63	19.4	110	191	
STD OXC129 Expected		0.24	1.4		0.7		21	4.7	23.7			0.8	2.22			
STD CDN-ME-14 Expected		1.221														
STD CDN-ME-9 Expected		0.654														
BLK	Blank	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2	
BLK	Blank	<0.001														
Prep Wash																
ROCK-WHI	Prep Blank	0.16	0.23	2.6	0.4	<0.05	4.2	9.14	13.1	<0.02	<1	0.3	4.5	<10	<2	
ROCK-WHI	Prep Blank	0.16	0.24	2.7	0.4	<0.05	4.2	9.45	13.1	<0.02	<1	0.3	4.3	<10	<2	



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Client: **Zinex Mining Corp.**
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Whistler British Columbia V0N 1B0 Canada

Submitted By: Janet Miller
Receiving Lab: Canada-Whitehorse
Received: June 09, 2017
Report Date: June 20, 2017
Page: 1 of 2

CERTIFICATE OF ANALYSIS

WHI17000062.1

CLIENT JOB INFORMATION

Project: Adanac
Shipment ID:
P.O. Number
Number of Samples: 20

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Zinex Mining Corp.
Box 997
Whistler British Columbia V0N 1B0
Canada

CC: Barry Hanslit
Caoimhe Peat

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	20	Crush, split and pulverize 250 g rock to 200 mesh			WHI
AQ252_EXT	20	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	30	Completed	VAN
SHP01	20	Per sample shipping charges for branch shipments			VAN
MA370	6	4-Acid Digestion ICP-ES Finish	0.5	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: Adanac
Report Date: June 20, 2017

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Part: 1 of 3

CERTIFICATE OF ANALYSIS

WHI17000062.1

	Method Analyte Unit MDL	WGHT	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
1532551	Rock	4.26	5.67	914.85	185.98	139.2	13654	15.2	5.7	63	2.59	5.4	12.4	3.6	27.8	2.2	2.50	0.55	24.62	3	0.56
1532552	Rock	3.85	1.68	776.40	288.32	436.4	17694	24.6	21.5	436	6.97	4.8	0.5	5.0	2.0	3.6	10.38	0.90	70.07	87	1.68
1532553	Rock	4.06	0.28	6028.82	1202.40	3857.6	88929	32.1	20.6	410	12.10	1.1	<0.1	21.6	<0.1	2.0	73.49	1.24	134.85	77	0.54
1532554	Rock	2.09	3.22	61.24	3015.33	25.7	>100000	10.4	4.0	86	1.92	68.3	<0.1	33.1	<0.1	0.9	1.17	4.02	659.13	<2	0.02
1532555	Rock	1.43	0.48	83.36	13.33	170.7	509	65.4	39.0	1065	6.25	12.3	<0.1	0.8	<0.1	92.5	1.56	0.19	1.81	268	4.24
1532556	Rock	1.09	10.57	842.01	4145.90	1049.9	>100000	12.2	6.7	260	10.91	3360.7	0.7	166.0	<0.1	1.7	35.41	11.48	337.86	16	0.03
1532557	Rock	1.58	0.41	47.76	15.06	31.5	614	23.6	14.7	224	2.00	13.0	<0.1	0.8	0.1	16.8	0.22	0.09	1.66	69	1.19
1532558	Rock	1.70	0.32	2.15	5.63	8.4	149	1.5	0.3	25	0.20	1.6	26.2	<0.2	87.2	5.0	0.12	0.09	0.56	<2	0.01
1532559	Rock	0.79	1.21	5.92	52.58	82.7	917	2.7	0.4	87	0.55	10.5	33.5	<0.2	66.5	5.4	0.90	0.38	2.51	<2	0.01
1532560	Rock	1.67	0.46	14.71	12.93	16.9	614	2.1	0.5	203	0.75	7.5	0.3	1.0	0.3	0.9	0.05	0.17	0.96	9	0.08
1532561	Rock	2.31	0.90	4.37	11.07	24.9	384	2.6	0.6	83	0.44	10.6	5.2	1.6	71.2	2.8	0.15	0.14	1.50	<2	0.27
1532562	Rock	0.28	0.83	3.88	3.17	22.6	322	6.2	2.0	119	0.74	5.2	0.4	299.6	3.7	2.4	0.09	0.16	50.65	13	0.33
1532563	Rock	1.62	0.51	2.17	2.52	1.5	124	1.9	0.3	71	0.33	1.9	<0.1	0.6	0.3	<0.5	0.01	0.04	0.34	<2	<0.01
1532564	Rock	2.69	3.22	4.52	11.79	17.0	388	2.4	0.4	66	0.50	2.1	3.6	41.8	14.9	1.2	0.06	0.31	8.96	<2	<0.01
1532565	Rock	0.73	0.21	59.02	1.39	38.4	140	35.5	15.1	318	1.64	67.8	0.3	3.8	0.1	44.6	0.10	0.08	3.60	63	2.20
1532566	Rock	1.13	40.05	2.54	3.82	8.4	97	2.1	0.4	76	0.44	0.8	2.6	19.5	15.0	0.5	0.11	0.12	4.18	<2	0.04
1532567	Rock	1.43	0.81	20.08	4.76	39.4	134	9.3	2.1	230	1.12	7.0	4.0	<0.2	17.6	0.6	0.10	0.25	0.32	13	0.03
1532568	Rock	2.00	0.30	7.26	5.04	80.5	67	21.6	14.4	389	2.80	12.1	3.0	*	11.2	3.0	0.26	0.75	0.33	102	0.78
1532569	Rock	2.20	1.28	276.60	148.99	36.2	17511	1.9	0.4	122	0.56	31.0	5.3	2.6	17.6	1.1	0.49	1.97	44.68	4	0.19
1532570	Rock	1.05	3.86	44.77	542.67	503.0	8506	2.6	0.7	152	1.24	5709.5	8.6	43.0	2.9	3.1	38.86	224.31	1.56	<2	0.05



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Project: Adanac
Report Date: June 20, 2017

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Part: 2 of 3

CERTIFICATE OF ANALYSIS

WHI17000062.1

Method Analyte Unit MDL		AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
		0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1
1532551	Rock	0.004	9.4	7.6	0.04	49.3	0.004	2	0.84	0.010	0.50	4.6	0.6	1.26	1.81	<5	1.9	0.38	3.8	1.53	<0.1
1532552	Rock	0.058	10.2	30.6	1.74	89.1	0.050	5	2.60	0.022	2.12	>100	8.6	5.26	3.97	<5	1.1	1.04	9.8	25.04	0.5
1532553	Rock	0.021	1.6	58.9	1.15	63.2	0.049	4	1.65	0.010	1.33	>100	8.6	4.22	7.00	*	2.8	2.58	6.3	20.47	0.2
1532554	Rock	<0.001	<0.5	13.3	<0.01	1.6	<0.001	<1	0.02	0.004	0.01	9.9	0.2	1.04	1.64	<5	1.6	51.20	0.2	0.11	<0.1
1532555	Rock	0.050	1.0	152.1	2.64	137.3	0.325	2	6.05	0.424	1.88	2.5	23.3	7.53	0.50	<5	<0.1	0.07	12.7	38.54	0.2
1532556	Rock	0.021	1.0	15.5	0.02	4.5	0.001	<1	0.23	0.003	0.03	86.2	2.3	0.23	0.11	34	0.8	9.79	0.8	0.63	0.1
1532557	Rock	0.047	1.0	41.4	0.73	7.0	0.212	<1	1.25	0.246	0.17	1.0	7.9	0.53	0.30	<5	<0.1	0.07	3.3	3.20	0.1
1532558	Rock	0.001	39.8	4.1	<0.01	30.9	<0.001	<1	0.47	0.010	0.50	1.8	0.4	0.52	<0.02	<5	1.0	<0.02	2.1	10.91	<0.1
1532559	Rock	<0.001	32.2	6.2	<0.01	59.4	0.001	<1	0.49	0.009	0.43	2.1	0.4	0.55	<0.02	<5	1.0	0.04	2.1	10.89	<0.1
1532560	Rock	0.003	<0.5	12.2	0.07	13.9	0.005	1	0.46	0.006	0.29	>100	1.2	0.85	<0.02	19	<0.1	<0.02	2.2	4.72	<0.1
1532561	Rock	0.001	8.5	4.9	<0.01	5.4	<0.001	<1	0.27	0.151	0.03	1.6	0.3	0.09	<0.02	<5	<0.1	0.04	1.8	1.10	<0.1
1532562	Rock	0.002	7.7	25.9	0.24	16.0	0.007	<1	0.42	0.076	0.11	10.3	1.6	0.37	<0.02	<5	<0.1	2.55	2.3	3.75	0.2
1532563	Rock	<0.001	<0.5	3.9	<0.01	1.4	<0.001	<1	<0.01	0.002	<0.01	0.2	<0.1	<0.02	<0.02	<5	<0.1	0.02	<0.1	0.10	<0.1
1532564	Rock	0.001	5.4	3.6	<0.01	7.9	0.004	<1	0.33	0.058	0.25	2.0	0.6	0.23	<0.02	<5	<0.1	0.37	1.9	1.01	<0.1
1532565	Rock	0.026	1.1	68.9	1.01	90.3	0.092	<1	2.44	0.295	0.16	6.8	8.7	0.38	<0.02	<5	<0.1	0.05	5.2	7.70	0.1
1532566	Rock	0.002	14.1	4.4	<0.01	4.9	0.005	<1	0.10	0.008	0.09	>100	0.8	0.17	<0.02	41	<0.1	0.24	1.1	1.54	<0.1
1532567	Rock	0.006	9.6	11.0	0.24	11.3	0.006	<1	0.36	0.004	0.12	0.6	2.0	0.88	<0.02	<5	<0.1	<0.02	2.8	4.57	0.1
1532568	Rock	0.025	7.9	46.8	1.47	50.1	0.195	<1	1.41	0.245	1.01	2.5	11.6	1.71	<0.02	<5	<0.1	<0.02	5.1	19.53	0.2
1532569	Rock	0.002	22.4	4.1	<0.01	65.0	0.001	2	0.51	0.008	0.38	21.0	0.4	0.73	<0.02	<5	<0.1	0.25	2.8	1.65	<0.1
1532570	Rock	0.001	1.6	8.7	<0.01	9.5	<0.001	1	0.09	0.002	0.08	14.7	0.1	0.20	0.15	9	<0.1	<0.02	0.5	0.94	<0.1



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Project: Adanac
Report Date: June 20, 2017

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CERTIFICATE OF ANALYSIS

WHI17000062.1

	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	MA370	MA370
		Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Ag	W
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	gm/t	%
		0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	2	0.01
1532551	Rock	1.16	12.08	68.0	22.8	<0.05	24.8	45.70	20.5	0.52	<1	0.5	9.8	28	<2		
1532552	Rock	0.26	0.31	366.4	56.3	<0.05	10.3	11.11	21.0	0.64	2	2.2	144.1	<10	<2	19	0.04
1532553	Rock	<0.02	0.05	257.1	64.4	<0.05	0.2	3.41	4.2	3.80	3	1.4	112.4	<10	<2	90	0.05
1532554	Rock	<0.02	0.03	1.8	6.7	<0.05	<0.1	0.51	0.2	0.09	<1	<0.1	0.3	<10	<2	185	<0.01
1532555	Rock	0.07	0.07	305.7	10.4	<0.05	8.0	11.33	3.2	0.10	2	4.1	53.3	<10	<2		
1532556	Rock	<0.02	0.03	4.1	5.0	<0.05	0.1	3.59	1.7	2.79	<1	0.8	1.0	<10	<2	126	<0.01
1532557	Rock	0.12	0.12	30.0	4.8	<0.05	2.2	6.61	2.9	0.02	<1	0.2	12.2	<10	<2		
1532558	Rock	0.26	2.66	59.5	1.8	0.10	6.2	169.35	94.6	0.02	<1	15.9	1.6	<10	<2		
1532559	Rock	0.36	3.19	53.5	2.5	0.11	9.3	141.19	77.2	1.35	<1	11.8	2.7	<10	<2		
1532560	Rock	<0.02	<0.02	58.2	19.9	<0.05	0.3	3.40	1.1	<0.02	<1	0.5	21.1	<10	<2	<2	0.29
1532561	Rock	0.76	3.60	4.4	0.8	<0.05	15.2	26.32	19.6	0.03	<1	2.2	5.3	<10	<2		
1532562	Rock	<0.02	1.01	36.5	1.3	<0.05	0.4	4.02	25.1	0.02	<1	0.9	13.1	<10	<2		
1532563	Rock	<0.02	0.12	0.8	0.2	<0.05	0.2	0.31	0.3	<0.02	<1	<0.1	0.4	<10	<2		
1532564	Rock	0.16	3.26	26.2	1.3	<0.05	3.4	11.02	14.9	0.02	<1	0.5	9.0	<10	<2		
1532565	Rock	0.12	0.03	35.1	15.1	<0.05	3.8	5.36	2.6	0.26	<1	1.9	13.1	<10	4		
1532566	Rock	0.15	5.76	22.7	0.7	<0.05	3.0	8.43	32.4	<0.02	1	0.1	10.5	<10	<2	<2	0.03
1532567	Rock	0.51	2.34	37.1	5.7	0.11	6.4	8.02	32.2	0.09	<1	0.8	13.2	<10	<2		
1532568	Rock	1.12	2.20	260.3	3.4	0.15	11.9	17.59	30.9	0.08	<1	2.3	71.4	<10	<2		
1532569	Rock	0.53	2.76	62.3	25.9	<0.05	17.2	21.06	45.7	0.58	<1	1.5	14.0	<10	<2		
1532570	Rock	0.05	0.65	16.5	4.6	<0.05	1.2	5.43	3.4	0.50	<1	0.2	2.6	<10	<2		



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Report Date: June 20, 2017

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QUALITY CONTROL REPORT

WHI17000062.1

	Method Analyte Unit MDL	WGHT	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
Pulp Duplicates																					
1532553	Rock	4.06	0.28	6028.82	1202.40	3857.6	88929	32.1	20.6	410	12.10	1.1	<0.1	21.6	<0.1	2.0	73.49	1.24	134.85	77	0.54
REP 1532553	QC																				
1532554	Rock	2.09	3.22	61.24	3015.33	25.7	>100000	10.4	4.0	86	1.92	68.3	<0.1	33.1	<0.1	0.9	1.17	4.02	659.13	<2	0.02
REP 1532554	QC		3.14	62.81	2948.17	26.9	>100000	9.4	4.0	80	1.92	68.2	<0.1	41.0	<0.1	0.5	1.04	3.96	661.59	<2	0.02
Reference Materials																					
STD CDN-ME-14	Standard																				
STD CDN-ME-9	Standard																				
STD DS10	Standard		14.44	154.97	159.24	392.8	2042	80.4	12.9	927	2.79	47.7	2.7	86.8	7.9	68.1	2.93	9.46	12.80	46	1.08
STD OXC129	Standard		1.27	29.03	6.46	43.4	30	82.1	21.3	419	3.05	0.8	0.7	190.6	1.7	187.6	0.04	0.03	0.08	53	0.66
STD DS10 Expected			15.1	154.61	150.55	370	2020	74.6	12.9	875	2.7188	46.2	2.59	91.9	7.5	67.1	2.62	9	11.65	43	1.0625
STD OXC129 Expected			1.3	28	6.3	42.9	28	79.5	20.3	421	3.065	0.6	0.72	195	1.9		0.03	0.04		51	0.665
STD CDN-ME-14 Expected																					
BLK	Blank		<0.01	<0.01	<0.01	<0.1	2	<0.1	<0.1	<1	<0.01	0.3	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank		0.92	3.94	1.49	35.5	15	1.5	4.0	458	1.70	0.9	0.4	<0.2	2.5	27.0	0.03	0.03	<0.02	23	0.59
ROCK-WHI	Prep Blank		0.90	3.02	1.27	32.3	17	1.2	3.9	442	1.72	1.1	0.4	0.6	2.6	29.7	0.02	0.03	<0.02	23	0.60



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QUALITY CONTROL REPORT

WHI17000062.1

Method Analyte Unit MDL		AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
		0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1
Pulp Duplicates																					
1532553	Rock	0.021	1.6	58.9	1.15	63.2	0.049	4	1.65	0.010	1.33	>100	8.6	4.22	7.00	*	2.8	2.58	6.3	20.47	0.2
REP 1532553	QC																				
1532554	Rock	<0.001	<0.5	13.3	<0.01	1.6	<0.001	<1	0.02	0.004	0.01	9.9	0.2	1.04	1.64	<5	1.6	51.20	0.2	0.11	<0.1
REP 1532554	QC	<0.001	<0.5	13.4	<0.01	1.7	<0.001	<1	0.02	0.004	0.01	9.7	0.2	1.02	1.64	<5	1.4	51.04	0.2	0.11	<0.1
Reference Materials																					
STD CDN-ME-14	Standard																				
STD CDN-ME-9	Standard																				
STD DS10	Standard	0.072	17.5	57.7	0.78	371.1	0.083	7	1.07	0.072	0.35	3.6	2.9	5.34	0.29	294	2.0	5.16	4.8	2.63	<0.1
STD OXC129	Standard	0.098	11.9	56.1	1.56	50.2	0.417	<1	1.55	0.582	0.38	0.2	0.7	0.04	<0.02	<5	<0.1	<0.02	5.5	0.15	<0.1
STD DS10 Expected		0.0765	17.5	54.6	0.775	359	0.0817		1.0755	0.067	0.338	3.32	3	5.1	0.29	300	2.3	5.01	4.5	2.63	0.08
STD OXC129 Expected		0.102	13	52	1.545	50	0.4	1	1.58	0.6	0.37	0.08	1.1	0.03					5.6	0.16	
STD CDN-ME-14 Expected																					
BLK	Blank	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank	0.044	5.4	5.6	0.38	77.0	0.077	1	1.10	0.202	0.17	0.1	3.6	<0.02	<0.02	<5	<0.1	<0.02	3.7	0.09	0.1
ROCK-WHI	Prep Blank	0.043	5.5	5.6	0.38	85.2	0.081	<1	1.05	0.179	0.15	0.1	3.3	<0.02	<0.02	<5	<0.1	<0.02	4.0	0.09	0.1



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Part: 3 of 3

QUALITY CONTROL REPORT

WHI17000062.1

	Method	Analyte	Unit	MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	MA370	MA370		
					Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Ag	W
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	gm/t	%
					0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	2	0.01
Pulp Duplicates																				
1532553	Rock	<0.02	0.05	257.1	64.4	<0.05	0.2	3.41	4.2	3.80	3	1.4	112.4	<10	<2	90	0.05			
REP 1532553	QC																92	0.05		
1532554	Rock	<0.02	0.03	1.8	6.7	<0.05	<0.1	0.51	0.2	0.09	<1	<0.1	0.3	<10	<2	185	<0.01			
REP 1532554	QC	<0.02	<0.02	1.7	6.6	<0.05	<0.1	0.50	0.3	0.08	<1	<0.1	0.3	<10	<2					
Reference Materials																				
STD CDN-ME-14	Standard																43	<0.01		
STD CDN-ME-9	Standard																2	<0.01		
STD DS10	Standard	0.06	1.67	28.7	1.7	<0.05	2.6	8.49	37.6	0.24	50	0.8	20.3	123	189					
STD OXC129	Standard	0.28	1.27	15.7	0.7	<0.05	19.8	4.74	22.2	<0.02	<1	0.9	2.5	<10	<2					
STD DS10 Expected		0.06	1.62	27.7	1.6		2.7	7.77	37	0.23	50	0.63	19.4	110	191					
STD OXC129 Expected		0.24	1.4		0.7		21	4.7	23.7			0.8	2.22							
STD CDN-ME-14 Expected																		42.3		
BLK	Blank	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	0.02	<0.1	<0.02	<1	<0.1	<0.1	<10	<2					
BLK	Blank																<2	<0.01		
Prep Wash																				
ROCK-WHI	Prep Blank	0.14	0.27	2.9	0.4	<0.05	3.5	8.21	10.9	<0.02	<1	0.2	4.0	<10	<2					
ROCK-WHI	Prep Blank	0.11	0.25	2.9	0.4	<0.05	3.4	8.57	11.1	<0.02	<1	0.2	4.2	<10	<2					



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Submitted By: Janet Miller
Receiving Lab: Canada-Whitehorse
Received: June 13, 2017
Report Date: June 23, 2017
Page: 1 of 2

CERTIFICATE OF ANALYSIS

WHI17000083.1

CLIENT JOB INFORMATION

Project: Adanac
Shipment ID:
P.O. Number
Number of Samples: 30

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Zinex Mining Corp.
Box 997
Whistler British Columbia V0N 1B0
Canada

CC: Barry Hanslit
Caoimhe Peat

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	30	Crush, split and pulverize 250 g rock to 200 mesh			WHI
AQ252_EXT	30	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	30	Completed	VAN
SHP01	30	Per sample shipping charges for branch shipments			VAN
MA370	2	4-Acid Digestion ICP-ES Finish	0.5	Completed	VAN

ADDITIONAL COMMENTS


JEFFREY CANNON
Geochemistry Department Supervisor

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: Adanac
Report Date: June 23, 2017

Page: 2 of 2 **Part:** 1 of 3

CERTIFICATE OF ANALYSIS

WHI17000083.1

	Method	Analyte	Unit	MDL	WGHT	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252			
					Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
					kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
					0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
1532571	Rock				4.03	2.51	86.99	543.73	26.7	12463	0.4	0.2	86	0.82	1064.7	8.8	4.7	26.6	10.4	3.16	14.13	6.83	<2	0.83
1532572	Rock				3.46	0.28	4.49	1.63	19.8	27	7.2	3.7	136	0.63	4.4	0.2	0.7	0.3	7.5	0.06	0.14	0.18	7	0.31
1532573	Rock				4.02	2.81	3.55	4.57	1.7	375	0.6	0.2	25	0.23	12.0	5.7	<0.2	3.4	1.0	0.03	0.65	1.38	<2	0.06
1532574	Rock				0.97	1.86	4.15	3.57	2.2	31	2.6	0.5	28	0.34	50.9	13.1	<0.2	15.7	<0.5	0.02	0.42	0.47	<2	<0.01
1532575	Rock				4.24	3.24	7.45	8.36	5.2	82	1.3	0.3	29	0.39	2.5	5.5	<0.2	7.3	<0.5	<0.01	0.19	0.84	<2	0.01
1532576	Rock				0.65	1.68	1.76	2.86	4.4	37	0.4	0.1	23	0.26	13.2	21.0	0.4	23.0	<0.5	0.01	0.15	0.27	<2	<0.01
1532577	Rock				1.89	6.24	12.78	112.25	171.0	5724	3.2	0.7	95	0.62	7.5	22.4	<0.2	36.1	1.8	0.36	1.18	9.60	<2	0.08
1532578	Rock				1.96	2.43	5.86	35.57	11.1	1759	1.0	0.2	62	0.45	172.5	2.0	12.2	7.8	0.7	0.15	3.27	3.18	<2	<0.01
1532579	Rock				1.78	7.24	468.34	117.99	189.8	14799	0.3	0.1	253	2.78	5649.2	25.0	1.8	48.8	15.7	1.36	5.80	65.98	<2	0.23
1532580	Rock				0.72	0.49	4.80	1.67	3.3	183	2.6	0.6	33	0.30	20.3	3.9	<0.2	4.7	0.5	<0.01	0.08	2.07	<2	0.02
1532581	Rock				1.61	0.44	45.28	59.65	12.2	8553	1.1	0.2	27	0.57	3751.8	9.6	161.6	3.2	7.0	0.57	60.57	0.66	<2	<0.01
1532582	Rock				1.88	0.89	4.92	15.18	18.3	1558	0.6	0.5	95	0.37	19.5	5.6	<0.2	20.5	4.0	0.02	0.93	6.55	<2	0.44
1532583	Rock				5.26	10.42	2636.72	485.27	163.9	47623	2.5	1.0	144	1.10	6.5	3.8	1.8	18.4	3.4	2.77	0.99	77.15	<2	0.66
1532584	Rock				3.30	2.31	7.12	7.59	10.9	166	1.1	0.2	35	0.24	10.0	0.5	<0.2	1.5	0.5	0.06	0.74	0.30	<2	0.01
1532585	Rock				2.42	0.70	72.19	11.05	43.7	226	0.6	1.2	217	1.96	3.5	11.8	3.1	34.8	11.7	0.11	0.13	2.69	4	0.94
1532586	Rock				3.03	3.89	38.16	36.17	39.9	471	2.1	0.6	54	3.59	28.0	6.9	18.5	17.8	0.8	0.30	2.77	2.04	<2	<0.01
1532587	Rock				3.68	0.83	35.19	19.84	193.0	341	0.8	0.8	122	1.15	13.1	18.3	4.9	27.3	3.4	0.84	0.22	3.74	2	0.21
1532588	Rock				3.24	0.81	6.43	72.85	7.8	3244	0.3	<0.1	50	0.67	12.7	2.8	1.1	9.3	0.6	0.04	2.56	10.62	<2	<0.01
1532589	Rock				3.67	0.78	7.14	6.01	140.4	73	1.7	0.7	231	1.06	1.8	14.9	<0.2	40.8	3.0	0.60	0.17	1.11	<2	0.11
1532590	Rock				1.59	5.24	8.42	9.01	8.3	275	0.8	0.2	21	0.23	11.7	5.5	<0.2	5.8	<0.5	0.04	0.54	0.42	<2	<0.01
1532591	Rock				4.77	221.73	1798.85	1542.49	295.8	>100000	0.6	0.2	87	0.72	2.0	22.6	4.6	34.4	0.9	1.30	2.70	602.55	<2	0.09
1532592	Rock				2.94	49.92	39.99	49.92	14.9	2559	1.8	0.4	30	0.39	75.3	20.7	7.3	24.9	0.8	0.30	2.06	13.39	<2	<0.01
1532593	Rock				0.81	0.34	6.50	1.27	8.9	104	7.2	0.8	22	0.22	1.2	0.6	<0.2	0.2	0.9	0.02	0.06	0.32	<2	0.04
1532594	Rock				2.16	1.12	9.41	51.59	27.2	2152	0.4	0.2	450	0.26	1.4	1.8	<0.2	9.1	45.1	0.31	1.18	43.12	<2	1.10
1532595	Rock				1.79	0.88	12.44	12.17	67.5	199	8.1	14.5	422	4.17	2.3	1.8	<0.2	7.3	169.3	0.25	0.35	0.63	97	1.81
1532596	Rock				1.52	1.92	56.56	15.79	87.6	222	1.2	2.5	804	3.46	7.5	2.6	<0.2	6.3	16.9	1.07	1.22	5.49	15	0.77
1532597	Rock				2.81	5.58	6.39	11.75	72.8	220	0.9	1.6	391	2.58	1.4	1.8	<0.2	11.8	15.8	0.33	0.08	0.74	9	0.54
1532598	Rock				2.78	0.88	9.81	78.85	41.5	279	1.7	0.4	38	0.38	3.1	14.4	<0.2	13.6	4.9	0.11	0.31	0.95	<2	0.03
1532599	Rock				1.34	1.50	21.41	19.20	241.2	187	0.9	0.6	218	0.92	4.0	6.8	<0.2	20.7	23.7	1.20	0.36	0.64	<2	0.28
1532600	Rock				0.73	3.12	5.45	102.27	525.8	332	0.4	1.0	661	0.82	135.4	2.5	4.2	7.7	12.4	4.45	0.15	0.80	<2	0.91



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Project: Adanac
Report Date: June 23, 2017

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CERTIFICATE OF ANALYSIS

WHI17000083.1

	Method	Analyte	AQ252																			
			P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge
			%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
			MDL	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02
1532571	Rock	0.002	14.2	4.2	0.03	41.7	0.003	3	1.09	0.012	0.66	8.2	0.6	1.49	0.08	<5	0.5	<0.02	6.9	1.99	0.1	
1532572	Rock	0.017	1.3	10.5	0.09	30.6	0.055	<1	0.22	0.026	0.07	2.0	1.1	0.13	<0.02	<5	<0.1	<0.02	1.0	2.48	0.2	
1532573	Rock	<0.001	1.5	5.1	<0.01	5.7	<0.001	1	0.21	0.002	0.14	0.6	0.2	0.28	<0.02	12	<0.1	0.49	1.5	0.67	<0.1	
1532574	Rock	0.001	9.3	6.1	<0.01	3.1	<0.001	<1	0.20	0.002	0.20	1.2	0.2	0.45	<0.02	<5	<0.1	0.03	1.4	1.14	<0.1	
1532575	Rock	<0.001	3.6	6.0	<0.01	2.5	<0.001	<1	0.13	0.007	0.10	0.5	0.2	0.20	<0.02	<5	<0.1	0.02	0.7	0.99	<0.1	
1532576	Rock	<0.001	12.0	3.2	<0.01	4.6	<0.001	<1	0.22	0.004	0.23	1.2	0.2	0.37	<0.02	<5	0.2	<0.02	1.4	1.70	<0.1	
1532577	Rock	<0.001	23.5	9.7	<0.01	53.0	<0.001	<1	0.17	0.001	0.09	1.5	0.8	0.33	<0.02	9	<0.1	0.04	2.2	1.83	<0.1	
1532578	Rock	<0.001	3.9	4.9	<0.01	8.1	<0.001	<1	0.23	0.002	0.26	1.3	0.1	0.77	<0.02	<5	0.2	<0.02	1.5	2.19	<0.1	
1532579	Rock	0.001	53.3	2.7	<0.01	5.7	0.002	<1	1.22	0.006	0.73	2.0	1.1	3.60	0.19	<5	1.8	<0.02	7.8	9.67	0.1	
1532580	Rock	<0.001	2.9	5.7	<0.01	2.4	<0.001	<1	0.13	0.002	0.11	0.4	0.2	0.24	<0.02	<5	<0.1	<0.02	0.7	0.62	<0.1	
1532581	Rock	<0.001	6.1	6.7	<0.01	142.4	<0.001	<1	0.12	0.001	0.10	0.5	0.2	3.64	0.08	6	3.0	0.03	1.0	5.95	<0.1	
1532582	Rock	<0.001	17.8	4.1	0.02	17.6	0.001	3	1.00	0.006	0.56	1.3	0.8	1.21	<0.02	<5	0.2	0.02	5.5	4.40	<0.1	
1532583	Rock	0.002	17.6	5.7	<0.01	60.3	0.002	3	1.03	0.015	0.64	>100	0.6	1.61	0.74	*	2.0	0.08	6.4	4.41	0.2	
1532584	Rock	0.001	1.4	7.1	<0.01	4.6	<0.001	<1	0.07	0.010	0.05	0.5	0.2	0.12	<0.02	<5	<0.1	<0.02	0.4	0.76	<0.1	
1532585	Rock	0.006	56.2	2.5	0.07	27.1	0.031	<1	1.07	0.254	0.29	1.1	1.8	1.60	0.11	<5	1.2	0.13	12.6	8.54	0.2	
1532586	Rock	0.002	14.8	4.0	<0.01	23.8	<0.001	<1	0.61	0.009	0.43	52.8	0.8	0.52	<0.02	<5	0.5	0.07	3.5	1.56	<0.1	
1532587	Rock	0.006	55.3	3.7	0.04	17.7	0.008	<1	0.70	0.070	0.12	0.4	1.5	0.51	<0.02	<5	1.2	0.09	5.6	2.38	0.1	
1532588	Rock	0.003	25.3	1.4	0.04	61.0	0.002	<1	0.78	0.012	0.54	7.8	0.7	0.70	0.09	<5	0.4	0.43	3.8	1.86	<0.1	
1532589	Rock	0.003	81.6	4.1	0.03	16.5	0.022	1	0.55	0.084	0.17	0.7	1.7	0.34	<0.02	<5	0.7	<0.02	3.9	3.05	0.2	
1532590	Rock	<0.001	2.2	4.5	<0.01	9.8	<0.001	<1	0.13	0.004	0.10	0.5	0.2	0.20	<0.02	<5	<0.1	0.11	0.8	0.73	<0.1	
1532591	Rock	<0.001	12.2	4.9	<0.01	14.5	<0.001	<1	0.42	0.003	0.30	1.1	0.7	0.70	0.07	6	68.0	9.70	2.9	1.38	<0.1	
1532592	Rock	<0.001	7.4	5.0	<0.01	36.9	<0.001	<1	0.34	0.005	0.32	4.8	0.3	0.62	<0.02	<5	0.7	0.37	2.0	2.58	<0.1	
1532593	Rock	0.015	1.1	8.9	0.05	46.2	0.004	<1	0.05	0.007	<0.01	<0.1	0.6	<0.02	<0.02	<5	<0.1	<0.02	0.3	0.14	<0.1	
1532594	Rock	0.002	3.6	4.1	0.01	18.1	<0.001	1	0.32	0.003	0.14	1.7	0.2	0.21	<0.02	<5	0.1	7.74	0.9	1.27	<0.1	
1532595	Rock	0.097	13.1	8.2	1.36	195.0	0.217	<1	3.46	0.303	0.99	0.4	4.5	1.07	<0.02	<5	<0.1	0.03	9.0	10.31	0.2	
1532596	Rock	0.068	33.4	1.7	0.51	60.3	0.041	<1	1.58	0.093	0.15	21.5	1.6	0.45	0.15	<5	<0.1	<0.02	10.1	2.35	0.1	
1532597	Rock	0.055	20.2	2.8	0.37	97.2	0.096	<1	0.95	0.081	0.17	0.5	1.6	0.15	<0.02	<5	<0.1	0.04	6.2	1.38	0.1	
1532598	Rock	0.005	8.9	3.6	0.02	19.3	<0.001	<1	0.50	0.003	0.16	0.4	0.4	0.27	<0.02	<5	<0.1	0.10	1.8	1.71	<0.1	
1532599	Rock	0.009	87.6	2.3	0.07	35.6	<0.001	<1	0.57	0.031	0.13	0.3	0.7	0.14	<0.02	<5	<0.1	<0.02	1.7	1.67	<0.1	
1532600	Rock	0.058	26.8	1.1	0.04	41.9	<0.001	1	0.42	0.029	0.23	0.2	0.3	0.31	<0.02	7	<0.1	<0.02	0.9	1.71	<0.1	



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Project: Adanac
Report Date: June 23, 2017

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CERTIFICATE OF ANALYSIS

WHI17000083.1

	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	MA370	MA370
		Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Ag	W
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	gm/t	%
		0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	2	0.01
1532571	Rock	2.04	8.42	109.0	38.5	<0.05	40.4	26.62	29.1	0.51	<1	1.4	28.4	<10	<2		
1532572	Rock	0.07	0.76	13.4	5.7	<0.05	1.4	4.76	2.6	0.06	<1	0.9	5.4	<10	<2		
1532573	Rock	0.40	2.46	24.0	1.8	<0.05	7.0	5.09	3.3	0.03	<1	0.5	1.4	<10	3		
1532574	Rock	0.21	2.77	42.1	2.3	<0.05	4.5	27.23	21.7	<0.02	<1	0.3	2.1	<10	<2		
1532575	Rock	0.25	3.06	19.7	0.4	<0.05	4.7	8.88	9.0	<0.02	<1	0.3	1.4	<10	<2		
1532576	Rock	0.29	7.56	42.8	0.2	<0.05	6.5	25.12	26.8	<0.02	<1	0.3	2.1	<10	<2		
1532577	Rock	2.05	13.53	24.0	1.8	<0.05	37.5	21.08	49.7	9.36	<1	1.0	1.9	<10	<2		
1532578	Rock	0.27	1.83	59.2	63.4	<0.05	5.2	12.44	8.7	3.00	<1	0.2	2.3	<10	<2		
1532579	Rock	1.11	0.98	238.1	21.2	<0.05	27.9	100.76	99.6	47.23	<1	0.8	124.6	<10	<2		
1532580	Rock	0.14	1.33	25.0	0.6	<0.05	3.2	4.79	6.2	0.29	<1	<0.1	1.7	<10	<2		
1532581	Rock	0.05	0.63	29.7	4.7	<0.05	1.1	183.18	4.8	0.24	1	0.6	1.2	<10	<2		
1532582	Rock	2.22	7.65	120.7	3.7	<0.05	37.5	32.22	38.6	0.54	<1	18.0	9.1	<10	<2		
1532583	Rock	1.03	3.84	132.3	75.7	<0.05	24.5	36.36	34.4	2.82	<1	1.1	26.1	<10	<2	47	0.05
1532584	Rock	<0.02	0.16	6.7	0.4	<0.05	0.4	1.29	2.2	<0.02	<1	<0.1	2.3	<10	<2		
1532585	Rock	1.84	7.92	70.3	14.1	<0.05	41.2	62.71	105.4	0.16	<1	4.2	28.8	<10	<2		
1532586	Rock	0.48	0.90	48.7	4.4	<0.05	14.2	14.18	25.7	0.03	<1	0.8	9.6	<10	<2		
1532587	Rock	0.64	1.64	28.5	7.9	<0.05	15.9	64.40	106.0	0.32	<1	3.2	9.8	<10	<2		
1532588	Rock	0.51	1.50	63.5	14.8	<0.05	14.0	6.54	50.1	0.06	<1	0.9	21.1	<10	<2		
1532589	Rock	0.45	1.38	17.6	4.6	<0.05	11.0	46.39	128.9	0.18	<1	2.0	4.7	<10	<2		
1532590	Rock	0.08	2.09	15.6	0.7	<0.05	1.6	7.67	4.5	<0.02	<1	<0.1	1.7	<10	<2		
1532591	Rock	0.78	6.14	52.3	17.6	<0.05	18.1	21.39	29.7	1.47	<1	0.9	1.9	<10	<2	282	<0.01
1532592	Rock	0.17	2.57	49.2	2.5	<0.05	4.5	22.52	13.2	0.30	<1	0.7	2.3	<10	<2		
1532593	Rock	<0.02	0.07	0.6	0.2	<0.05	0.6	1.29	2.1	<0.02	<1	<0.1	0.7	<10	<2		
1532594	Rock	0.11	0.19	15.6	0.4	<0.05	3.2	7.18	5.1	0.04	<1	0.5	2.9	<10	<2		
1532595	Rock	0.21	0.24	119.3	4.3	<0.05	7.2	13.91	23.8	0.04	<1	0.2	72.4	<10	<2		
1532596	Rock	0.31	0.58	27.9	4.7	<0.05	10.1	15.85	59.8	<0.02	<1	1.1	58.1	<10	<2		
1532597	Rock	0.49	1.37	17.1	4.3	<0.05	13.8	13.19	39.8	<0.02	<1	0.3	24.7	<10	<2		
1532598	Rock	0.27	0.16	21.1	0.3	<0.05	8.9	6.87	9.8	0.05	<1	0.7	4.0	<10	<2		
1532599	Rock	0.43	0.29	9.8	0.4	<0.05	12.6	32.37	49.9	<0.02	<1	0.6	3.9	<10	<2		
1532600	Rock	0.08	0.16	29.6	0.7	<0.05	4.0	22.44	48.0	0.05	1	0.4	3.5	<10	<2		



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Report Date: June 23, 2017

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QUALITY CONTROL REPORT

WHI17000083.1

Method Analyte Unit MDL		WGHT	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2
Pulp Duplicates																					
1532583	Rock	5.26	10.42	2636.72	485.27	163.9	47623	2.5	1.0	144	1.10	6.5	3.8	1.8	18.4	3.4	2.77	0.99	77.15	<2	0.66
REP 1532583	QC																				
1532591	Rock	4.77	221.73	1798.85	1542.49	295.8	>100000	0.6	0.2	87	0.72	2.0	22.6	4.6	34.4	0.9	1.30	2.70	602.55	<2	0.09
REP 1532591	QC		221.80	1821.47	1565.89	284.9	>100000	0.5	0.3	91	0.73	2.0	21.8	5.9	34.2	0.9	1.29	2.52	599.36	<2	0.09
1532600	Rock	0.73	3.12	5.45	102.27	525.8	332	0.4	1.0	661	0.82	135.4	2.5	4.2	7.7	12.4	4.45	0.15	0.80	<2	0.91
REP 1532600	QC		3.20	5.76	100.65	539.9	333	0.3	1.0	657	0.82	135.2	2.4	2.4	7.6	12.2	4.56	0.16	0.81	<2	0.91
Core Reject Duplicates																					
1532574	Rock	0.97	1.86	4.15	3.57	2.2	31	2.6	0.5	28	0.34	50.9	13.1	<0.2	15.7	<0.5	0.02	0.42	0.47	<2	<0.01
DUP 1532574	QC		1.75	4.05	3.47	2.7	24	2.4	0.5	27	0.34	49.1	13.2	<0.2	16.0	<0.5	0.02	0.36	0.45	<2	<0.01
Reference Materials																					
STD CDN-ME-14	Standard																				
STD CDN-ME-9	Standard																				
STD DS10	Standard		13.54	151.50	153.61	351.5	1963	74.8	13.1	917	2.68	45.6	2.8	86.3	7.8	71.4	2.63	9.52	12.60	44	1.07
STD DS10	Standard		13.80	152.99	151.24	362.2	1909	74.4	12.9	907	2.80	45.8	2.6	87.1	7.1	69.8	2.49	9.21	12.48	44	1.07
STD OXC129	Standard		1.18	26.09	5.91	40.2	5	79.6	20.0	423	2.89	0.6	0.7	193.4	1.7	176.3	0.02	0.04	0.02	51	0.61
STD OXC129	Standard		1.22	27.93	6.10	43.2	9	81.7	21.2	414	3.07	0.7	0.7	191.1	1.7	187.3	0.04	0.03	0.02	52	0.69
STD DS10 Expected			15.1	154.61	150.55	370	2020	74.6	12.9	875	2.7188	46.2	2.59	91.9	7.5	67.1	2.62	9	11.65	43	1.0625
STD OXC129 Expected			1.3	28	6.3	42.9	28	79.5	20.3	421	3.065	0.6	0.72	195	1.9		0.03	0.04		51	0.665
STD CDN-ME-14 Expected																					
BLK	Blank		<0.01	0.02	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.3	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01
BLK	Blank		<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.2	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank		0.66	4.37	1.64	33.9	17	1.0	3.5	416	1.70	3.7	0.4	0.3	2.3	26.8	0.03	0.04	0.06	22	0.61
ROCK-WHI	Prep Blank		0.66	4.57	1.39	29.5	14	1.0	3.6	388	1.64	2.1	0.4	<0.2	2.1	25.2	0.03	0.04	0.03	23	0.59



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Bureau Veritas Commodities Canada Ltd.

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Client: **Zinex Mining Corp.**
Box 997
Whistler British Columbia V0N 1B0 Canada

Project: Adanac
Report Date: June 23, 2017

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Part: 2 of 3

QUALITY CONTROL REPORT

WHI17000083.1

	Method	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
	MDL	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1
Pulp Duplicates																					
1532583	Rock	0.002	17.6	5.7	<0.01	60.3	0.002	3	1.03	0.015	0.64	>100	0.6	1.61	0.74	*	2.0	0.08	6.4	4.41	0.2
REP 1532583																					
1532591	Rock	<0.001	12.2	4.9	<0.01	14.5	<0.001	<1	0.42	0.003	0.30	1.1	0.7	0.70	0.07	6	68.0	9.70	2.9	1.38	<0.1
REP 1532591	QC	<0.001	12.2	5.5	<0.01	14.7	<0.001	<1	0.43	0.003	0.31	1.0	0.7	0.70	0.07	<5	65.8	9.28	3.0	1.42	<0.1
1532600	Rock	0.058	26.8	1.1	0.04	41.9	<0.001	1	0.42	0.029	0.23	0.2	0.3	0.31	<0.02	7	<0.1	<0.02	0.9	1.71	<0.1
REP 1532600	QC	0.057	27.4	1.1	0.04	43.0	<0.001	1	0.44	0.029	0.24	0.2	0.4	0.34	<0.02	5	0.2	<0.02	1.1	1.67	<0.1
Core Reject Duplicates																					
1532574	Rock	0.001	9.3	6.1	<0.01	3.1	<0.001	<1	0.20	0.002	0.20	1.2	0.2	0.45	<0.02	<5	<0.1	0.03	1.4	1.14	<0.1
DUP 1532574	QC	<0.001	9.2	5.8	<0.01	2.8	<0.001	<1	0.22	0.002	0.21	1.2	0.2	0.47	<0.02	<5	<0.1	0.03	1.4	1.16	<0.1
Reference Materials																					
STD CDN-ME-14																					
STD CDN-ME-9																					
STD DS10	Standard	0.075	16.8	55.6	0.81	358.2	0.080	7	1.03	0.073	0.34	3.3	2.9	5.04	0.29	301	2.2	4.84	4.5	2.57	0.1
STD DS10	Standard	0.077	16.5	55.2	0.77	343.4	0.080	7	1.03	0.069	0.34	3.3	3.0	5.18	0.28	264	2.0	4.95	4.4	2.53	<0.1
STD OXC129	Standard	0.093	11.9	51.2	1.51	48.0	0.394	2	1.49	0.581	0.37	<0.1	0.9	0.04	<0.02	6	<0.1	<0.02	5.3	0.15	<0.1
STD OXC129	Standard	0.100	12.3	52.9	1.56	49.1	0.403	<1	1.56	0.589	0.37	<0.1	0.9	0.05	<0.02	8	<0.1	<0.02	5.7	0.15	<0.1
STD DS10 Expected		0.0765	17.5	54.6	0.775	359	0.0817		1.0755	0.067	0.338	3.32	3	5.1	0.29	300	2.3	5.01	4.5	2.63	0.08
STD OXC129 Expected		0.102	13	52	1.545	50	0.4	1	1.58	0.6	0.37	0.08	1.1	0.03					5.6	0.16	
STD CDN-ME-14 Expected																					
BLK	Blank	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1
BLK	Blank	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1
BLK																					
Prep Wash																					
ROCK-WHI	Prep Blank	0.041	5.0	3.2	0.39	69.8	0.077	2	0.97	0.124	0.12	0.1	3.2	<0.02	<0.02	<5	0.2	0.03	3.8	0.10	<0.1
ROCK-WHI	Prep Blank	0.041	4.9	3.3	0.37	69.1	0.075	2	0.90	0.116	0.11	0.1	2.9	<0.02	<0.02	<5	<0.1	<0.02	3.7	0.08	<0.1



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QUALITY CONTROL REPORT

WHI17000083.1

Method Analyte Unit MDL		AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	MA370	MA370
		Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Ag	W
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	gm/t	%
		0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	2	0.01
Pulp Duplicates																	
1532583	Rock	1.03	3.84	132.3	75.7	<0.05	24.5	36.36	34.4	2.82	<1	1.1	26.1	<10	<2	47	0.05
REP 1532583	QC															46	0.05
1532591	Rock	0.78	6.14	52.3	17.6	<0.05	18.1	21.39	29.7	1.47	<1	0.9	1.9	<10	<2	282	<0.01
REP 1532591	QC	0.69	5.78	52.2	17.6	<0.05	16.7	20.78	29.6	1.48	<1	0.7	1.7	<10	<2		
1532600	Rock	0.08	0.16	29.6	0.7	<0.05	4.0	22.44	48.0	0.05	1	0.4	3.5	<10	<2		
REP 1532600	QC	0.10	0.17	29.5	0.8	<0.05	4.1	22.49	47.9	0.06	<1	0.6	3.1	<10	<2		
Core Reject Duplicates																	
1532574	Rock	0.21	2.77	42.1	2.3	<0.05	4.5	27.23	21.7	<0.02	<1	0.3	2.1	<10	<2		
DUP 1532574	QC	0.24	2.65	44.3	2.4	<0.05	4.7	24.61	20.5	<0.02	<1	0.3	2.2	<10	<2		
Reference Materials																	
STD CDN-ME-14	Standard															44	<0.01
STD CDN-ME-9	Standard															4	<0.01
STD DS10	Standard	0.06	1.63	28.4	1.5	<0.05	2.7	7.97	35.3	0.24	45	0.8	22.0	106	201		
STD DS10	Standard	0.06	1.67	27.4	1.5	<0.05	2.5	8.20	34.2	0.22	50	0.5	20.8	103	185		
STD OXC129	Standard	0.30	1.22	15.3	0.6	<0.05	21.4	4.68	21.7	<0.02	<1	1.1	1.8	<10	<2		
STD OXC129	Standard	0.21	1.04	15.4	0.6	<0.05	16.9	4.88	22.5	<0.02	<1	1.1	2.4	<10	<2		
STD DS10 Expected		0.06	1.62	27.7	1.6		2.7	7.77	37	0.23	50	0.63	19.4	110	191		
STD OXC129 Expected		0.24	1.4		0.7		21	4.7	23.7			0.8	2.22				
STD CDN-ME-14 Expected																42.3	
BLK	Blank	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2		
BLK	Blank	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2		
BLK	Blank															<2	<0.01
Prep Wash																	
ROCK-WHI	Prep Blank	0.09	0.20	3.0	0.3	<0.05	2.9	8.07	10.4	<0.02	<1	0.2	4.1	<10	<2		
ROCK-WHI	Prep Blank	0.10	0.20	2.6	0.3	<0.05	2.8	8.04	10.4	<0.02	<1	0.3	4.1	<10	<2		



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Client: **Zinex Mining Corp.**
Box 997
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Submitted By: Janet Miller
Receiving Lab: Canada-Whitehorse
Received: June 20, 2017
Report Date: July 11, 2017
Page: 1 of 3

CERTIFICATE OF ANALYSIS

WHI17000111.1

CLIENT JOB INFORMATION

Project: Adanac
Shipment ID:
P.O. Number
Number of Samples: 54

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Zinex Mining Corp.
Box 997
Whistler British Columbia V0N 1B0
Canada

CC: Barry Hanslit
Caoimhe Peat

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	54	Crush, split and pulverize 250 g rock to 200 mesh			WHI
AQ252_EXT	54	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	30	Completed	VAN
SHP01	54	Per sample shipping charges for branch shipments			VAN
MA370	7	4-Acid Digestion ICP-ES Finish	0.5	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Client: **Zinex Mining Corp.**
Box 997
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Project: Adanac
Report Date: July 11, 2017

Page: 2 of 3 **Part:** 1 of 3

CERTIFICATE OF ANALYSIS

WHI17000111.1

Method Analyte Unit MDL		WGHT	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
1532511	Rock	4.57	47.95	3.35	15.19	37.5	101	1.0	0.5	84	0.68	1.7	13.2	1.0	34.2	2.8	0.23	0.53	0.77	<2	0.12
1532512	Rock	2.56	4.08	2.17	59.13	42.9	1926	2.2	0.4	189	0.80	6.3	7.2	<0.2	14.4	12.0	0.11	0.17	4.80	<2	1.68
1532513	Rock	3.18	2.42	13.18	138.57	17.9	5884	1.1	0.3	89	0.53	2976.3	0.9	11.8	2.4	2.2	0.24	14.20	11.91	<2	0.79
1532514	Rock	3.22	1.92	13.06	10.81	247.9	139	1.7	0.8	241	1.21	3.4	5.0	<0.2	19.2	3.6	1.49	0.28	0.40	3	0.08
1532515	Rock	1.67	0.80	18.76	52.43	10.2	4152	1.2	0.4	6462	1.90	24.8	3.2	1.0	5.2	0.6	0.08	0.62	21.16	<2	0.06
1532516	Rock	3.32	0.37	41.88	14.75	173.6	989	9.1	2.5	266	0.71	43.0	0.3	0.6	2.5	3.9	1.56	0.32	0.60	10	0.01
1532517	Rock	2.95	1.40	65.65	879.41	51.3	13317	1.5	0.3	60	0.91	116.4	0.1	0.3	0.1	0.8	0.99	4.76	22.75	4	0.10
1532518	Rock	1.81	1.42	10.82	114.80	7.1	34088	1.4	0.2	3916	0.79	2.6	1.5	46.0	4.5	<0.5	0.11	2.97	861.20	<2	<0.01
1532519	Rock	1.80	1.06	54.47	60.68	48.4	1800	1.1	0.4	90	1.15	1.8	2.0	1.9	22.4	2.2	0.10	0.62	6.72	<2	0.02
1532520	Rock	1.01	4.94	85.16	6.85	32.8	386	0.9	0.3	37	1.53	0.9	1.4	1.3	16.4	1.2	0.23	0.35	18.87	<2	<0.01
1532521	Rock	1.31	10.70	41.28	3.92	13.2	241	1.1	0.3	37	1.06	1.0	0.5	3.7	7.1	<0.5	0.10	0.73	12.78	<2	0.07
1532522	Rock	1.56	135.15	137.06	326.25	23.1	8329	1.3	0.4	2907	4.12	1.4	3.0	26.6	3.4	1.8	0.30	45.38	1659.62	<2	0.14
1532523	Rock	0.89	4.49	11.59	305.85	2.6	8204	1.5	0.3	823	0.64	390.7	8.7	34.0	3.1	1.4	0.34	205.79	670.49	<2	0.02
1532524	Rock	0.95	1.75	18.60	104.01	363.3	916	2.2	11.2	1314	5.16	1.9	5.7	0.8	20.7	13.9	1.09	0.74	12.58	19	0.36
1532525	Rock	1.21	0.37	1.72	6.46	86.1	70	1.5	1.5	366	1.24	1.8	5.8	<0.2	21.3	12.8	1.34	1.09	3.10	9	0.61
1532526	Rock	1.35	3.69	11.00	10.91	915.7	223	3.5	30.5	3086	7.51	0.5	22.8	<0.2	24.1	19.2	3.74	0.43	1.86	28	0.63
1532801	Rock	1.71	3.52	37.15	20.52	17.4	2678	1.3	0.3	40	0.52	3.3	2.9	<0.2	15.8	0.8	0.04	1.01	4.29	<2	<0.01
1532802	Rock	1.87	5.69	38.43	401.01	145.9	5246	4.6	1.6	523	0.65	41.5	0.8	1.1	0.4	2.2	0.56	8.32	1.40	9	0.03
1532803	Rock	1.74	14.78	116.97	1296.94	209.2	16109	5.5	0.8	112	1.80	900.7	2.9	5.4	3.7	9.0	3.52	12.91	1.60	29	0.02
1532804	Rock	1.44	0.42	11.03	5.47	19.0	129	9.5	1.2	60	0.41	5.7	0.1	3.8	0.4	2.5	0.35	0.23	1.30	3	0.05
1532805	Rock	1.44	7.65	275.32	139.61	26.9	3828	1.4	0.3	154	5.72	2537.8	9.0	83.6	132.1	0.9	8.77	48.13	14.43	<2	<0.01
1532806	Rock	1.61	7.84	15.49	37.26	15.5	772	1.3	0.3	29	0.33	21.5	10.3	1.2	19.1	<0.5	0.06	1.37	0.68	<2	<0.01
1532807	Rock	1.61	1.14	8.66	6.74	19.3	180	1.0	0.4	27	0.34	31.5	12.4	1.8	28.9	0.7	0.23	2.60	0.21	<2	<0.01
1532808	Rock	1.67	3.76	319.42	1.31	2.9	237	1.0	0.3	24	0.37	0.5	0.5	0.6	8.0	<0.5	0.03	0.12	0.68	<2	<0.01
1532809	Rock	0.98	5.86	21.79	8.05	12.1	94	0.8	0.2	32	0.55	45.4	25.5	0.4	36.1	1.8	0.05	0.15	0.33	<2	0.12
1532810	Rock	1.01	2.08	12.31	14.32	8.3	301	1.0	0.2	32	0.49	7.8	2.0	<0.2	11.5	2.2	0.04	0.67	0.99	<2	0.02
1532811	Rock	0.92	7.86	126.78	14.96	8.7	140	1.0	0.2	27	3.18	46.6	2.8	<0.2	20.8	<0.5	0.02	2.84	1.15	<2	<0.01
1532812	Rock	1.03	2.35	150.31	280.84	28.5	499	0.8	0.2	27	3.12	916.1	6.9	6.0	35.6	<0.5	0.17	42.45	2.02	<2	<0.01
1532813	Rock	0.97	10.37	129.26	13.51	10.0	448	1.0	0.2	31	2.72	24.7	1.2	<0.2	32.0	0.6	0.03	4.92	1.10	<2	<0.01
1532814	Rock	0.97	0.71	4.16	10.96	36.7	353	1.2	0.8	152	0.92	11.4	8.5	<0.2	37.0	4.7	0.08	0.56	0.19	<2	0.11



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CERTIFICATE OF ANALYSIS

WHI17000111.1

	Method	Analyte	AQ252																			
			P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge
			%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
			MDL	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02
1532511	Rock	0.003	51.9	5.6	0.02	12.7	0.013	<1	0.44	0.034	0.17	36.0	1.0	0.27	<0.02	<5	<0.1	0.09	3.4	2.38	<0.1	
1532512	Rock	0.003	10.0	7.2	0.02	7.0	0.003	2	1.11	0.634	0.08	0.3	1.1	0.12	<0.02	<5	<0.1	0.05	7.3	0.60	<0.1	
1532513	Rock	0.001	1.2	10.9	<0.01	20.5	0.002	5	0.49	0.005	0.27	0.4	0.5	0.70	0.13	<5	<0.1	0.08	2.9	1.28	<0.1	
1532514	Rock	0.010	53.2	6.4	0.04	37.9	0.031	2	0.54	0.046	0.18	0.4	2.0	0.30	<0.02	<5	<0.1	0.02	4.3	3.41	<0.1	
1532515	Rock	0.002	12.7	7.7	0.02	21.1	<0.001	<1	0.29	0.004	0.18	43.5	7.2	0.30	<0.02	<5	0.2	0.28	2.0	0.64	<0.1	
1532516	Rock	0.015	6.3	16.8	0.31	270.5	0.017	2	0.59	0.006	0.39	>100	2.0	1.73	0.10	<5	0.6	0.07	2.3	6.38	<0.1	
1532517	Rock	0.003	<0.5	11.1	0.03	62.2	0.001	<1	0.30	0.005	0.19	6.3	0.3	0.47	0.03	<5	0.3	0.12	1.2	1.09	<0.1	
1532518	Rock	0.002	14.8	11.3	<0.01	6.2	<0.001	2	0.05	0.003	0.05	53.7	1.8	0.19	0.04	<5	0.7	10.50	0.5	0.29	<0.1	
1532519	Rock	0.002	13.5	5.6	0.03	21.4	0.024	<1	0.42	0.055	0.25	39.9	1.5	0.51	<0.02	<5	<0.1	0.06	4.3	4.31	<0.1	
1532520	Rock	0.011	26.7	4.5	<0.01	60.9	<0.001	<1	0.42	0.015	0.33	32.8	0.6	0.48	0.02	<5	0.4	0.06	2.5	0.48	<0.1	
1532521	Rock	0.003	28.3	7.7	<0.01	22.1	0.001	1	0.27	0.006	0.15	68.8	0.2	0.26	<0.02	<5	0.6	0.16	1.4	0.35	<0.1	
1532522	Rock	<0.001	6.8	8.8	<0.01	5.4	<0.001	1	0.07	0.002	0.01	74.4	4.5	0.08	<0.02	<5	1.6	16.41	0.3	0.27	<0.1	
1532523	Rock	<0.001	3.7	9.6	<0.01	7.2	<0.001	<1	0.06	0.003	0.06	>100	1.4	0.46	<0.02	<5	0.6	38.79	0.5	0.96	<0.1	
1532524	Rock	0.017	34.7	7.2	0.28	226.2	0.075	<1	0.99	0.145	0.63	>100	3.2	2.41	<0.02	<5	0.1	0.26	9.9	31.10	0.3	
1532525	Rock	0.020	24.7	6.9	0.14	55.5	0.070	<1	0.55	0.122	0.24	21.4	2.0	0.34	<0.02	<5	<0.1	0.16	4.2	1.38	0.1	
1532526	Rock	0.020	164.4	8.8	0.62	820.5	0.121	2	2.15	0.075	1.75	17.7	8.4	10.21	<0.02	<5	1.5	0.07	26.8	77.41	0.5	
1532801	Rock	0.001	15.4	7.0	<0.01	12.6	0.001	1	0.24	0.017	0.16	7.1	0.3	0.24	<0.02	<5	0.3	0.07	1.7	0.63	<0.1	
1532802	Rock	0.019	1.7	13.3	0.29	25.3	0.003	1	0.33	0.003	0.23	14.6	1.1	2.03	<0.02	<5	<0.1	0.03	1.6	5.31	<0.1	
1532803	Rock	0.049	8.9	15.5	0.19	253.8	0.013	3	0.70	0.010	0.48	2.6	2.7	1.81	0.25	13	1.3	0.09	4.9	7.69	<0.1	
1532804	Rock	0.018	3.8	10.1	0.05	22.3	0.001	<1	0.13	0.007	0.04	8.7	0.8	0.08	<0.02	<5	<0.1	0.03	0.2	0.91	<0.1	
1532805	Rock	0.002	17.3	6.8	<0.01	60.5	0.001	2	0.33	0.004	0.20	>100	0.6	0.57	0.04	<5	0.8	0.21	10.3	0.96	<0.1	
1532806	Rock	0.002	9.5	9.1	0.01	24.2	<0.001	<1	0.27	0.004	0.21	6.6	0.2	0.65	<0.02	13	<0.1	0.10	1.6	2.21	<0.1	
1532807	Rock	0.002	11.1	7.0	<0.01	23.9	<0.001	<1	0.31	0.006	0.27	4.0	0.3	0.50	<0.02	23	<0.1	0.04	1.5	1.78	<0.1	
1532808	Rock	0.004	35.3	6.1	<0.01	19.4	<0.001	<1	0.34	0.007	0.26	3.4	0.3	0.36	0.43	<5	0.8	0.02	1.5	0.55	<0.1	
1532809	Rock	0.002	46.5	5.7	<0.01	16.5	0.003	<1	0.25	0.047	0.16	1.5	0.8	0.30	0.03	<5	<0.1	<0.02	2.5	0.86	<0.1	
1532810	Rock	0.002	17.4	4.2	0.01	14.0	<0.001	1	0.22	0.029	0.14	3.7	0.4	0.18	0.03	<5	<0.1	0.07	1.2	0.37	<0.1	
1532811	Rock	0.003	17.0	6.2	<0.01	8.5	<0.001	1	0.30	0.004	0.18	1.7	0.6	0.26	<0.02	<5	<0.1	0.03	2.8	0.67	<0.1	
1532812	Rock	0.002	12.2	4.4	<0.01	14.1	<0.001	<1	0.36	0.004	0.20	4.0	0.4	0.29	<0.02	<5	0.4	0.19	3.5	1.11	<0.1	
1532813	Rock	0.002	9.2	4.4	<0.01	15.3	<0.001	3	0.34	0.002	0.17	2.5	0.5	0.37	<0.02	12	0.2	0.03	5.9	13.61	<0.1	
1532814	Rock	0.004	55.2	3.9	0.03	20.6	0.001	3	0.44	0.035	0.12	1.5	1.3	0.13	<0.02	<5	<0.1	<0.02	1.9	1.20	<0.1	



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	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	MA370	MA370	MA370
		Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Zn	Ag	W
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	gm/t	%
		0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.01	2	0.01
1532511	Rock	0.36	2.53	32.2	1.5	<0.05	10.9	39.71	97.2	<0.02	<1	0.6	9.9	<10	<2			
1532512	Rock	0.98	7.94	14.6	5.3	<0.05	19.5	27.20	20.5	0.14	<1	1.4	3.7	<10	<2			
1532513	Rock	0.20	1.70	45.1	14.0	<0.05	3.8	5.12	2.4	0.09	<1	0.7	2.7	<10	<2			
1532514	Rock	0.16	0.67	27.3	10.3	<0.05	3.6	23.71	90.6	0.17	<1	0.8	9.1	<10	<2			
1532515	Rock	0.18	0.06	29.2	23.7	<0.05	3.8	23.65	28.0	0.37	<1	0.4	6.1	<10	<2			
1532516	Rock	0.06	0.18	70.6	5.0	<0.05	1.7	1.97	17.1	0.03	2	1.0	20.1	<10	<2	0.02	<2	0.01
1532517	Rock	<0.02	0.05	38.5	26.9	<0.05	0.1	0.40	0.8	0.11	<1	0.6	10.3	<10	<2			
1532518	Rock	0.06	0.03	8.1	65.6	<0.05	2.0	11.45	30.7	0.43	<1	<0.1	0.9	<10	<2			
1532519	Rock	0.61	2.34	48.2	3.1	<0.05	14.9	7.68	25.4	0.08	2	0.3	4.6	<10	<2			
1532520	Rock	0.19	0.59	36.3	5.8	<0.05	5.9	5.69	50.3	0.44	<1	0.5	7.1	<10	<2			
1532521	Rock	0.12	0.27	21.6	3.9	<0.05	2.1	3.87	55.0	0.07	<1	0.4	3.3	<10	<2			
1532522	Rock	0.05	0.19	1.2	2.3	<0.05	1.7	6.13	14.6	0.15	<1	<0.1	0.2	11	<2			
1532523	Rock	0.05	0.09	6.8	1.0	<0.05	1.9	4.07	7.4	<0.02	<1	<0.1	1.0	<10	<2	<0.01	8	>0.5
1532524	Rock	1.52	1.37	120.8	35.7	0.06	29.1	30.24	66.3	0.68	<1	3.8	23.2	<10	<2	0.04	2	0.02
1532525	Rock	1.40	3.42	22.1	21.2	<0.05	31.6	40.03	46.8	0.07	<1	4.2	6.4	<10	<2			
1532526	Rock	0.61	1.98	402.8	74.5	0.07	13.8	171.17	326.3	0.49	2	25.6	44.6	13	<2			
1532801	Rock	0.11	2.50	21.3	7.8	<0.05	3.0	14.50	27.8	0.11	<1	0.4	2.0	<10	<2			
1532802	Rock	0.04	0.07	82.0	16.6	<0.05	1.3	1.85	2.9	0.22	2	3.8	37.6	<10	<2			
1532803	Rock	0.18	0.09	80.9	55.2	<0.05	7.8	3.20	17.6	0.26	2	2.1	38.4	<10	<2			
1532804	Rock	<0.02	0.04	4.1	0.5	<0.05	0.5	1.93	7.2	0.02	<1	0.2	2.0	<10	<2			
1532805	Rock	0.24	1.67	25.7	9.2	<0.05	10.8	8.53	39.1	0.66	3	0.5	7.6	<10	<2	<0.01	4	0.09
1532806	Rock	0.09	2.77	30.9	1.5	<0.05	2.5	19.88	18.6	<0.02	<1	0.4	2.5	<10	<2			
1532807	Rock	0.07	2.34	43.5	1.0	<0.05	2.4	22.88	25.6	<0.02	<1	0.4	2.1	<10	<2			
1532808	Rock	0.12	0.18	32.8	2.9	<0.05	1.7	2.91	69.0	<0.02	<1	0.4	7.2	<10	<2			
1532809	Rock	1.23	5.92	20.7	1.9	<0.05	31.9	22.25	88.9	0.08	<1	0.9	1.9	<10	<2			
1532810	Rock	0.58	2.00	14.0	1.0	<0.05	15.6	13.17	30.0	<0.02	<1	0.2	2.1	<10	<2			
1532811	Rock	0.22	2.69	22.0	2.4	0.06	7.0	4.84	36.4	<0.02	<1	0.5	5.2	<10	<2			
1532812	Rock	0.24	1.11	24.2	5.3	<0.05	10.2	5.34	29.0	0.06	<1	0.4	5.4	<10	<2			
1532813	Rock	0.16	0.86	31.9	9.2	<0.05	6.5	3.47	20.3	0.06	<1	0.5	6.5	<10	<2			
1532814	Rock	0.07	0.18	12.5	0.3	<0.05	2.2	29.54	118.0	0.05	<1	0.7	2.8	<10	3			



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	Method Analyte Unit MDL	WGHT	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
1532815	Rock	1.25	0.71	3.08	28.76	28.7	130	1.3	0.6	111	0.64	7.9	6.2	0.6	25.8	3.9	0.07	0.40	0.82	<2	0.09
1532819	Rock	2.12	0.35	56.62	0.85	36.7	54	57.3	28.1	154	3.10	1.4	<0.1	<0.2	0.1	16.9	0.02	0.21	0.10	138	0.50
1532820	Rock	1.39	0.77	570.96	137.78	730.5	17262	4.0	1.5	88	6.36	3.4	0.4	5.0	0.3	8.7	19.07	0.40	33.80	4	8.39
1532821	Rock	1.07	1.38	5.68	7.53	4.1	176	1.1	0.3	27	0.34	3.9	1.7	<0.2	15.3	3.8	0.02	0.30	0.24	<2	0.04
1532822	Rock	1.40	5.42	12.61	108.81	12.5	1204	1.0	0.3	33	0.67	684.2	13.3	29.7	7.6	10.6	0.10	9.60	1.33	<2	3.57
1532823	Rock	1.45	4.32	3.55	5.68	12.9	182	1.3	0.5	60	0.33	20.4	5.2	<0.2	15.5	1.9	0.02	0.20	0.40	<2	0.04
1532501	Rock	3.04	1.20	1.84	8.81	16.1	72	1.1	0.3	49	0.54	7.2	21.6	<0.2	44.5	4.4	<0.01	0.46	0.22	<2	0.18
1532502	Rock	3.88	3.99	1.87	14.83	10.5	70	1.2	0.4	52	0.50	152.9	22.6	3.8	35.0	2.4	0.03	1.21	0.29	<2	0.15
1532503	Rock	2.98	2.93	1.89	13.59	10.3	136	1.0	0.3	43	0.50	5.1	21.6	<0.2	34.7	18.3	<0.01	0.54	0.32	<2	1.87
1532504	Rock	1.68	7.71	8.29	6.70	7.1	456	1.4	0.3	50	0.65	1.5	11.4	<0.2	6.4	0.7	0.01	0.25	1.52	<2	0.04
1532505	Rock	3.80	1.28	3.22	5.74	15.1	93	1.2	0.3	33	0.47	1.9	9.3	<0.2	19.8	1.6	0.02	0.19	0.53	<2	0.10
1532507	Rock	1.45	8.83	1.64	6.24	2.1	118	1.4	0.3	32	0.31	11.9	0.5	<0.2	1.7	0.6	0.03	0.26	0.25	<2	<0.01
1532509	Rock	1.04	2.85	33.67	44.07	72.6	282	1.2	0.3	27	0.63	60.6	15.9	0.3	30.9	0.7	0.21	1.35	0.38	<2	<0.01
1532535	Rock	1.62	18.74	113.51	96.26	13.2	22118	16.0	1.8	51	0.67	6.4	0.4	<0.2	0.3	1.5	0.12	1.28	51.10	<2	0.67
1532536	Rock	1.06	4.17	4079.48	3309.51	>10000	>100000	40.3	6.9	855	28.79	2.1	0.3	24.7	<0.1	<0.5	>2000	3.28	176.04	<2	0.20
1532537	Rock	0.91	0.38	22.54	2146.83	152.8	19244	52.0	2.7	81	0.53	28.7	0.2	56.1	0.2	1.1	3.09	8.51	16.54	3	<0.01
1532538	Rock	1.47	0.37	13.53	45.08	65.5	41821	20.4	20.7	798	4.60	112.6	<0.1	3221.6	<0.1	34.9	2.30	0.23	2.54	16	4.42
1532539	Rock	1.32	0.43	1.35	1375.27	23.6	59242	1.8	0.4	33	0.33	<0.1	<0.1	3042.9	<0.1	<0.5	2.30	0.11	80.59	3	<0.01
1532540	Rock	1.77	0.26	56.40	17.59	71.7	3164	49.5	32.8	1295	6.29	130.5	<0.1	154.1	<0.1	69.8	5.63	0.31	1.59	22	5.05
1532603	Rock	1.86	3.22	33.21	84.03	64.5	4462	2.7	0.4	241	1.45	97.2	0.9	3.4	1.6	1.6	0.86	11.04	1.69	18	0.01
1532604	Rock	1.19	0.03	1.26	1.19	26.5	43	1.9	0.2	97	0.09	1.1	0.4	0.7	<0.1	124.9	0.51	0.18	<0.02	4	5.56
1532605	Rock	4.88	0.91	1453.25	13.14	411.7	5805	96.9	12.9	8878	10.20	16.8	1.6	156.3	0.1	26.8	5.70	1.03	156.56	14	19.13
1532606	Rock	2.87	0.90	50.78	4.33	89.9	142	6.5	13.7	484	3.28	0.9	1.4	1.1	4.3	50.8	1.03	0.13	0.28	111	0.73
1532607	Rock	1.25	0.35	60.38	5.04	65.6	1434	66.2	35.4	1272	6.47	44.7	<0.1	231.2	<0.1	64.9	1.10	0.18	0.70	78	5.74



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	Method	Analyte	Unit	MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252			
					P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge
					%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
					0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1
1532815	Rock		<0.001	18.1	5.5	0.03	18.2	<0.001	2	0.35	0.022	0.12	0.7	0.6	0.17	<0.02	<5	<0.1	<0.02	1.8	3.28	<0.1		
1532819	Rock		0.061	0.6	115.3	1.78	1500.6	0.146	<1	2.22	0.154	0.56	0.7	3.4	0.34	0.21	<5	<0.1	<0.02	7.2	2.16	<0.1		
1532820	Rock		0.008	1.9	12.4	0.09	74.1	0.008	10	2.04	0.028	1.08	>100	5.1	1.28	0.20	*	2.0	0.84	8.8	3.41	0.4		
1532821	Rock		0.001	14.7	2.4	0.02	20.5	0.002	<1	0.23	0.040	0.11	1.7	0.4	0.12	<0.02	<5	<0.1	<0.02	1.5	0.73	<0.1		
1532822	Rock		0.001	7.9	2.4	0.02	22.7	0.003	2	0.99	0.008	0.50	11.1	2.7	0.79	<0.02	<5	0.3	0.04	5.5	1.85	0.1		
1532823	Rock		0.002	5.1	2.8	<0.01	7.7	<0.001	2	0.18	0.018	0.09	1.9	0.4	0.15	<0.02	<5	<0.1	<0.02	0.9	0.65	<0.1		
1532501	Rock		<0.001	23.2	2.2	<0.01	14.8	0.003	2	0.47	0.022	0.29	2.4	0.9	0.47	<0.02	<5	<0.1	<0.02	3.1	7.50	<0.1		
1532502	Rock		0.002	15.8	2.6	0.01	24.8	0.001	1	0.55	0.004	0.34	1.0	0.6	0.51	<0.02	<5	0.1	<0.02	2.9	4.45	<0.1		
1532503	Rock		0.002	13.4	2.5	0.02	51.7	0.006	3	1.61	0.009	0.85	2.9	1.2	1.04	<0.02	<5	<0.1	<0.02	8.3	5.56	<0.1		
1532504	Rock		0.002	2.5	3.6	<0.01	5.2	<0.001	<1	0.12	0.006	0.04	1.4	0.5	0.08	<0.02	<5	<0.1	0.03	1.3	0.63	<0.1		
1532505	Rock		0.002	5.0	3.1	<0.01	10.0	<0.001	2	0.26	0.018	0.15	1.5	0.6	0.21	<0.02	<5	<0.1	<0.02	1.7	1.21	<0.1		
1532507	Rock		<0.001	<0.5	3.1	<0.01	7.4	<0.001	<1	0.06	0.002	0.05	0.4	0.1	0.10	<0.02	<5	<0.1	0.08	0.5	0.31	<0.1		
1532509	Rock		0.002	10.8	4.0	<0.01	21.5	<0.001	<1	0.30	0.006	0.26	2.1	0.3	0.93	<0.02	12	<0.1	0.03	1.7	3.33	<0.1		
1532535	Rock		<0.001	0.7	8.2	0.01	4.0	0.002	1	0.07	0.004	0.04	10.3	0.8	0.20	0.29	<5	<0.1	2.43	0.6	0.51	<0.1		
1532536	Rock		0.002	0.7	2.0	0.09	1.7	<0.001	<1	0.11	<0.001	0.03	2.3	0.2	0.66	8.57	130	10.4	1.71	9.1	0.38	0.2		
1532537	Rock		<0.001	<0.5	27.0	0.11	16.8	<0.001	<1	0.09	0.002	<0.01	1.1	0.4	0.02	0.08	<5	4.7	5.36	0.4	0.13	<0.1		
1532538	Rock		0.009	<0.5	5.1	0.50	7.1	0.001	<1	0.39	0.035	0.14	0.1	10.0	0.02	4.38	15	3.7	27.74	1.2	0.12	<0.1		
1532539	Rock		<0.001	<0.5	3.7	<0.01	1.3	<0.001	1	0.01	0.002	<0.01	1.4	<0.1	0.02	0.03	<5	8.1	24.72	0.2	0.03	<0.1		
1532540	Rock		0.022	0.5	11.1	2.64	17.8	0.002	<1	0.41	0.032	0.21	0.2	11.3	0.04	4.45	<5	4.6	2.43	1.2	0.19	<0.1		
1532603	Rock		0.022	5.1	8.9	0.19	157.3	0.010	1	0.51	0.007	0.35	44.4	1.9	1.23	0.05	<5	<0.1	0.10	3.9	4.11	<0.1		
1532604	Rock		0.007	1.0	4.0	0.10	10.4	0.002	<1	0.10	0.004	0.01	1.2	1.9	<0.02	<0.02	<5	<0.1	<0.02	0.4	0.28	<0.1		
1532605	Rock		0.007	2.1	84.4	0.88	21.8	0.031	1	1.65	0.076	0.09	>100	4.9	0.55	0.27	*	0.3	0.86	16.9	2.79	15.9		
1532606	Rock		0.122	15.6	16.4	0.96	1218.9	0.291	2	1.68	0.140	1.10	1.6	4.7	0.71	<0.02	<5	<0.1	0.02	6.1	5.27	0.2		
1532607	Rock		0.041	0.8	65.6	2.11	13.2	0.007	<1	1.31	0.062	0.23	0.2	16.4	0.04	1.59	<5	1.3	1.21	4.3	0.13	<0.1		



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Project: Adanac
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CERTIFICATE OF ANALYSIS

WHI17000111.1

	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	MA370	MA370	MA370
		Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Zn	Ag	W
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	gm/t	%
		0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.01	2	0.01
1532815	Rock	0.12	0.39	15.1	0.4	<0.05	4.4	34.43	61.9	0.03	<1	0.7	1.1	<10	<2			
1532819	Rock	<0.02	0.06	20.5	0.2	<0.05	0.2	5.27	1.4	<0.02	3	0.2	14.8	<10	<2			
1532820	Rock	0.03	0.20	141.6	>100	<0.05	0.7	4.12	3.5	0.88	3	2.3	7.0	<10	<2	0.08	18	>0.5
1532821	Rock	0.72	1.55	11.1	0.4	<0.05	17.5	8.83	17.9	<0.02	<1	0.5	1.8	10	<2			
1532822	Rock	0.70	8.17	83.3	2.8	0.20	11.5	165.98	9.0	0.05	<1	0.8	3.6	<10	<2			
1532823	Rock	0.53	1.91	13.4	0.3	<0.05	11.6	8.95	13.1	<0.02	<1	0.2	0.7	<10	<2			
1532501	Rock	1.16	11.55	67.6	3.3	<0.05	25.0	77.02	49.4	<0.02	<1	1.8	35.9	10	3			
1532502	Rock	1.40	4.99	61.1	1.5	<0.05	31.3	29.68	39.1	<0.02	<1	0.7	2.7	<10	3			
1532503	Rock	2.95	25.41	113.5	4.0	<0.05	52.5	36.41	24.7	<0.02	<1	1.1	3.2	<10	<2			
1532504	Rock	0.24	4.05	9.7	0.7	<0.05	5.5	15.88	6.5	0.02	1	0.3	3.7	<10	<2			
1532505	Rock	1.01	6.41	24.0	0.8	<0.05	20.9	14.98	13.1	<0.02	1	0.4	1.4	<10	<2			
1532507	Rock	0.02	0.50	9.2	0.6	<0.05	0.5	1.11	0.9	<0.02	<1	0.1	1.1	<10	<2			
1532509	Rock	0.12	2.65	41.2	1.6	<0.05	3.1	25.21	24.4	<0.02	<1	0.8	2.1	<10	<2			
1532535	Rock	0.02	0.16	9.4	6.1	<0.05	0.6	6.59	1.4	0.02	<1	0.1	2.0	<10	<2			
1532536	Rock	<0.02	0.03	6.1	89.2	<0.05	0.4	0.81	0.9	316.37	2	1.5	4.0	*	<2	19.68	105	<0.01
1532537	Rock	<0.02	0.04	0.8	0.7	<0.05	0.2	0.31	0.5	0.25	<1	<0.1	1.5	<10	<2			
1532538	Rock	<0.02	<0.02	3.2	0.2	<0.05	0.2	3.87	1.0	0.07	1	0.3	0.4	<10	<2			
1532539	Rock	<0.02	0.03	0.3	0.1	<0.05	<0.1	0.05	<0.1	0.02	<1	<0.1	<0.1	<10	<2			
1532540	Rock	<0.02	<0.02	3.8	0.6	<0.05	0.1	6.64	1.9	0.05	1	0.2	0.9	<10	<2			
1532603	Rock	0.06	0.13	77.0	17.5	<0.05	3.3	1.81	11.5	0.14	1	2.3	30.2	<10	2			
1532604	Rock	<0.02	0.09	0.8	0.3	<0.05	<0.1	3.23	0.5	<0.02	<1	0.3	0.9	<10	<2			
1532605	Rock	0.13	0.41	14.3	>100	<0.05	3.8	2.58	3.5	4.90	6	85.1	3.3	<10	<2	0.04	4	0.17
1532606	Rock	0.05	0.31	63.1	3.4	<0.05	1.2	10.82	30.6	0.05	<1	0.6	47.6	<10	<2			
1532607	Rock	<0.02	<0.02	4.4	0.1	<0.05	0.3	6.82	2.5	0.04	1	0.2	8.9	10	<2			



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QUALITY CONTROL REPORT

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	Method	WGHT	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
Pulp Duplicates																					
1532811	Rock	0.92	7.86	126.78	14.96	8.7	140	1.0	0.2	27	3.18	46.6	2.8	<0.2	20.8	<0.5	0.02	2.84	1.15	<2	<0.01
REP 1532811	QC		7.55	127.71	14.52	7.3	125	1.1	0.2	27	3.10	45.8	2.7	0.7	20.2	<0.5	0.04	2.73	1.11	<2	<0.01
1532606	Rock	2.87	0.90	50.78	4.33	89.9	142	6.5	13.7	484	3.28	0.9	1.4	1.1	4.3	50.8	1.03	0.13	0.28	111	0.73
REP 1532606	QC		0.89	50.65	4.25	87.6	148	6.5	13.9	485	3.25	1.0	1.4	2.2	4.3	49.9	1.01	0.14	0.28	110	0.73
Core Reject Duplicates																					
1532514	Rock	3.22	1.92	13.06	10.81	247.9	139	1.7	0.8	241	1.21	3.4	5.0	<0.2	19.2	3.6	1.49	0.28	0.40	3	0.08
DUP 1532514	QC		1.87	12.38	10.38	253.7	120	1.5	0.8	224	1.21	2.6	4.9	<0.2	19.1	3.6	1.49	0.28	0.40	3	0.08
1532502	Rock	3.88	3.99	1.87	14.83	10.5	70	1.2	0.4	52	0.50	152.9	22.6	3.8	35.0	2.4	0.03	1.21	0.29	<2	0.15
DUP 1532502	QC		3.76	1.78	14.61	9.7	85	1.1	0.4	49	0.51	150.4	21.4	4.4	32.1	2.4	0.02	1.21	0.27	<2	0.15
Reference Materials																					
STD CDN-ME-14	Standard																				
STD CDN-ME-9	Standard																				
STD DS10	Standard		16.25	158.95	153.64	388.4	1926	77.1	13.1	901	2.90	47.8	2.8	100.0	8.2	72.9	2.61	8.80	12.36	46	1.12
STD DS10	Standard		14.58	155.27	153.05	365.4	2046	76.1	13.1	929	2.81	45.6	2.7	88.9	7.4	68.4	2.58	8.93	12.14	44	1.09
STD OXC129	Standard		1.27	27.49	6.22	43.3	15	80.6	20.9	411	3.15	0.5	0.7	200.7	1.8	193.2	<0.01	0.03	0.11	53	0.69
STD OXC129	Standard		1.20	28.25	5.84	40.0	18	77.9	20.4	426	3.05	0.2	0.7	191.8	1.7	184.2	0.02	0.04	<0.02	51	0.65
STD DS10 Expected			15.1	154.61	150.55	370	2020	74.6	12.9	875	2.7188	46.2	2.59	91.9	7.5	67.1	2.62	9	11.65	43	1.0625
STD OXC129 Expected			1.3	28	6.3	42.9	28	79.5	20.3	421	3.065	0.6	0.72	195	1.9		0.03	0.04		51	0.665
STD CDN-ME-14 Expected																					
STD CDN-ME-9 Expected																					
BLK	Blank		<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.2	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01
BLK	Blank		<0.01	<0.01	0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank		0.76	5.57	1.65	33.3	18	1.5	3.9	426	1.71	1.1	0.4	1.5	2.3	26.5	0.02	0.04	0.03	23	0.65
ROCK-WHI	Prep Blank		0.79	5.82	1.87	34.3	21	1.6	3.8	436	1.71	1.1	0.4	1.4	2.3	34.1	0.02	0.04	0.03	23	0.72



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QUALITY CONTROL REPORT

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Method	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
MDL	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1
Pulp Duplicates																				
1532811 Rock	0.003	17.0	6.2	<0.01	8.5	<0.001	1	0.30	0.004	0.18	1.7	0.6	0.26	<0.02	<5	<0.1	0.03	2.8	0.67	<0.1
REP 1532811 QC	0.002	16.5	6.4	<0.01	8.3	<0.001	<1	0.29	0.004	0.18	1.7	0.6	0.25	<0.02	8	0.2	<0.02	2.8	0.65	<0.1
1532606 Rock	0.122	15.6	16.4	0.96	1218.9	0.291	2	1.68	0.140	1.10	1.6	4.7	0.71	<0.02	<5	<0.1	0.02	6.1	5.27	0.2
REP 1532606 QC	0.135	16.1	16.3	0.95	1216.2	0.313	1	1.68	0.140	1.09	1.8	4.7	0.72	<0.02	<5	<0.1	0.03	6.1	5.21	0.1
Core Reject Duplicates																				
1532514 Rock	0.010	53.2	6.4	0.04	37.9	0.031	2	0.54	0.046	0.18	0.4	2.0	0.30	<0.02	<5	<0.1	0.02	4.3	3.41	<0.1
DUP 1532514 QC	0.010	54.7	6.0	0.04	36.5	0.029	<1	0.55	0.050	0.18	0.6	1.7	0.31	<0.02	<5	0.2	0.03	4.3	3.27	<0.1
1532502 Rock	0.002	15.8	2.6	0.01	24.8	0.001	1	0.55	0.004	0.34	1.0	0.6	0.51	<0.02	<5	0.1	<0.02	2.9	4.45	<0.1
DUP 1532502 QC	0.002	16.2	2.5	0.01	25.5	0.001	2	0.56	0.004	0.34	1.0	0.6	0.51	<0.02	<5	<0.1	<0.02	2.9	4.34	<0.1
Reference Materials																				
STD CDN-ME-14 Standard																				
STD CDN-ME-9 Standard																				
STD DS10 Standard	0.080	19.3	57.1	0.80	389.8	0.089	6	1.12	0.074	0.35	3.9	3.1	5.39	0.29	305	2.4	5.09	4.7	2.93	<0.1
STD DS10 Standard	0.082	17.1	55.7	0.80	361.5	0.082	8	1.06	0.071	0.34	3.5	2.9	5.25	0.28	319	1.8	5.06	4.2	2.71	0.1
STD OXC129 Standard	0.105	12.3	51.5	1.56	50.6	0.408	1	1.61	0.602	0.37	0.2	1.2	0.03	<0.02	<5	<0.1	<0.02	5.4	0.17	<0.1
STD OXC129 Standard	0.093	11.7	52.8	1.56	49.4	0.391	<1	1.53	0.606	0.38	0.1	0.9	0.04	<0.02	<5	<0.1	<0.02	5.3	0.15	<0.1
STD DS10 Expected	0.0765	17.5	54.6	0.775	359	0.0817		1.0755	0.067	0.338	3.32	3	5.1	0.29	300	2.3	5.01	4.5	2.63	0.08
STD OXC129 Expected	0.102	13	52	1.545	50	0.4	1	1.58	0.6	0.37	0.08	1.1	0.03					5.6	0.16	
STD CDN-ME-14 Expected																				
STD CDN-ME-9 Expected																				
BLK Blank	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1
BLK Blank	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1
BLK Blank																				
Prep Wash																				
ROCK-WHI Prep Blank	0.041	5.2	4.7	0.41	66.5	0.080	<1	0.99	0.110	0.11	0.2	2.8	<0.02	<0.02	<5	<0.1	<0.02	3.7	0.10	<0.1
ROCK-WHI Prep Blank	0.041	5.6	4.8	0.42	72.3	0.079	<1	1.01	0.110	0.10	0.1	3.0	<0.02	<0.02	<5	<0.1	<0.02	3.9	0.11	<0.1



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QUALITY CONTROL REPORT

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Method	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	MA370	MA370	MA370
Analyte	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Zn	Ag	W
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	gm/t	%
MDL	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.01	2	0.01
Pulp Duplicates																	
1532811	Rock	0.22	2.69	22.0	2.4	0.06	7.0	4.84	36.4	<0.02	<1	0.5	5.2	<10	<2		
REP 1532811	QC	0.21	2.77	22.4	2.2	0.08	6.9	4.72	37.0	<0.02	<1	0.4	5.2	<10	<2		
1532606	Rock	0.05	0.31	63.1	3.4	<0.05	1.2	10.82	30.6	0.05	<1	0.6	47.6	<10	<2		
REP 1532606	QC	0.05	0.33	63.0	3.5	<0.05	1.4	11.17	30.8	0.05	2	0.5	48.2	<10	<2		
Core Reject Duplicates																	
1532514	Rock	0.16	0.67	27.3	10.3	<0.05	3.6	23.71	90.6	0.17	<1	0.8	9.1	<10	<2		
DUP 1532514	QC	0.18	0.65	25.9	10.1	<0.05	3.4	22.41	92.3	0.16	<1	0.7	8.6	<10	<2		
1532502	Rock	1.40	4.99	61.1	1.5	<0.05	31.3	29.68	39.1	<0.02	<1	0.7	2.7	<10	3		
DUP 1532502	QC	1.31	4.74	59.8	1.6	<0.05	30.1	29.60	37.3	<0.02	<1	0.7	2.7	<10	<2		
Reference Materials																	
STD CDN-ME-14	Standard														3.15	42	<0.01
STD CDN-ME-9	Standard														0.01	3	<0.01
STD DS10	Standard	0.07	1.75	30.7	1.7	<0.05	3.1	8.97	39.8	0.26	58	0.6	21.0	112	203		
STD DS10	Standard	0.05	1.57	29.3	1.7	<0.05	2.7	8.09	35.7	0.23	56	0.7	19.5	100	192		
STD OXC129	Standard	0.30	1.25	16.2	0.7	<0.05	22.3	4.96	23.6	<0.02	<1	0.8	2.2	<10	<2		
STD OXC129	Standard	0.20	1.24	15.8	0.7	<0.05	17.3	4.60	23.2	<0.02	<1	0.7	2.0	<10	<2		
STD DS10 Expected		0.06	1.62	27.7	1.6		2.7	7.77	37	0.23	50	0.63	19.4	110	191		
STD OXC129 Expected		0.24	1.4		0.7		21	4.7	23.7			0.8	2.22				
STD CDN-ME-14 Expected															3.1	42.3	
STD CDN-ME-9 Expected															0.012		
BLK	Blank	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2		
BLK	Blank	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2		
BLK	Blank														<0.01	<2	<0.01
Prep Wash																	
ROCK-WHI	Prep Blank	0.14	0.19	2.3	0.3	<0.05	3.3	7.73	10.9	<0.02	<1	0.2	3.9	<10	<2		
ROCK-WHI	Prep Blank	0.15	0.21	2.4	0.3	<0.05	3.2	8.62	11.3	<0.02	1	0.1	4.2	<10	<2		



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PHONE (604) 253-3158

Client: **Zinex Mining Corp.**
Box 997
Whistler British Columbia V0N 1B0 Canada

Submitted By: Janet Miller
Receiving Lab: Canada-Whitehorse
Received: June 28, 2017
Report Date: July 23, 2017
Page: 1 of 4

CERTIFICATE OF ANALYSIS

WHI17000174.1

CLIENT JOB INFORMATION

Project: Adanac
Shipment ID:
P.O. Number
Number of Samples: 81

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Zinex Mining Corp.
Box 997
Whistler British Columbia V0N 1B0
Canada

CC: Barry Hanslit
Caoimhe Peat

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	81	Crush, split and pulverize 250 g rock to 200 mesh			WHI
AQ252_EXT	81	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	30	Completed	VAN
SHP01	81	Per sample shipping charges for branch shipments			VAN
MA370	7	4-Acid Digestion ICP-ES Finish	0.5	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Page: 2 of 4

Part: 1 of 3

CERTIFICATE OF ANALYSIS

WHI17000174.1

	Method	Analyte	Unit	MDL	WGHT	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252			
					Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
					kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
					0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
1532506	Rock				1.92	1.30	21.96	59.18	44.7	3188	1.9	0.6	65	0.58	20.6	9.3	4.0	20.3	4.0	0.01	1.36	3.34	<2	0.01
1532508	Rock				0.83	6.34	6.76	7.67	6.1	252	2.6	0.5	61	0.60	19.4	3.4	1.1	11.5	0.7	0.02	0.57	0.39	<2	<0.01
1532510	Rock				3.04	1.68	14.48	13.95	26.6	292	2.7	0.9	146	0.60	16.7	11.4	<0.2	29.7	1.5	0.34	1.02	0.32	<2	<0.01
1532527	Rock				1.20	6.19	11.34	56.96	102.6	588	1.7	0.5	70	0.74	1.4	1.6	1.6	11.8	7.2	0.09	0.53	0.57	<2	0.02
1532528	Rock				2.04	1.66	18.56	11.91	31.9	55	1.9	1.0	231	1.11	2.2	21.1	0.2	48.4	2.5	0.16	0.21	0.23	<2	0.23
1532529	Rock				1.63	3.10	5.64	98.09	125.2	121	2.2	0.5	78	0.97	1.8	12.9	1.0	39.4	2.7	0.21	0.37	0.19	<2	0.14
1532530	Rock				1.04	2.04	4.40	34.06	82.3	117	2.1	0.5	53	0.59	1.7	9.9	1.0	31.8	1.8	0.09	0.29	0.08	<2	0.02
1532531	Rock				1.54	2.21	41.37	18.36	70.6	63	1.7	1.1	205	1.95	4.0	18.0	0.9	62.3	2.0	0.15	0.23	0.74	<2	0.43
1532532	Rock				1.66	1.86	16.53	76.68	177.3	1810	2.3	0.5	69	0.78	6.6	2.7	0.9	8.0	1.8	1.03	0.95	8.30	<2	0.07
1532533	Rock				1.89	0.78	12.78	57.04	12.2	5767	2.8	0.6	66	0.63	91.4	3.2	18.3	5.8	<0.5	0.05	3.85	1.44	<2	<0.01
1532534	Rock				3.14	1.83	36.19	171.52	80.9	8848	2.6	1.0	59	1.37	684.9	44.6	149.2	7.7	0.6	1.15	24.97	8.77	<2	<0.01
1532541	Rock				1.24	0.73	112.01	172.32	2443.5	10905	19.1	4.6	499	1.23	4.1	0.2	5.0	0.6	6.3	8.95	0.85	24.19	12	0.15
1532542	Rock				2.12	2.00	57.36	150.80	65.7	1163	13.6	5.6	840	1.37	4.6	1.7	0.2	2.2	26.8	0.71	0.76	1.32	41	2.43
1532543	Rock				1.48	1.06	8.79	24.17	293.5	774	44.8	7.6	527	1.55	33.2	<0.1	1.1	<0.1	2.7	3.48	1.35	1.59	17	0.42
1532544	Rock				1.92	0.59	23.30	28.09	52.6	1383	17.4	5.6	351	1.46	2.5	0.2	<0.2	1.4	7.0	0.41	1.26	2.62	37	0.57
1532545	Rock				1.45	1.20	76.64	7.23	22.1	171	2.6	2.2	293	1.55	7.5	15.1	0.8	23.1	3.7	0.08	0.23	1.86	7	0.37
1532546	Rock				1.84	4.52	470.91	5.06	73.3	297	3.2	2.8	92	2.39	6.3	18.3	7.0	19.2	3.2	0.79	0.24	4.58	<2	0.54
1532547	Rock				3.03	0.95	123.90	5.44	4.4	406	1.6	0.6	67	1.14	0.8	2.7	6.7	17.0	2.2	<0.01	0.15	6.55	<2	0.30
1532548	Rock				0.70	23.21	250.50	2.28	5.8	1923	3.3	25.7	69	12.87	180.8	0.5	5.2	1.0	<0.5	0.02	23.68	6.74	<2	<0.01
1532549	Rock				3.77	2.65	613.43	3.30	26.6	405	2.8	8.4	91	3.20	4.2	14.3	1.3	19.8	2.1	0.35	0.19	2.04	3	0.39
1532550	Rock				0.76	1.86	376.29	19.01	23.7	260	10.5	3.3	128	1.22	3.5	19.2	4.6	15.6	3.0	0.18	0.47	1.88	2	0.67
1532601	Rock				3.63	10.18	5.70	13.92	10.6	357	2.4	0.6	68	0.63	1.2	13.1	<0.2	22.5	2.8	<0.01	0.20	0.87	<2	0.15
1532602	Rock				2.45	21.02	21.92	37.07	26.5	326	3.0	0.8	76	0.80	26.5	9.0	4.0	11.2	0.7	0.09	1.20	1.56	<2	<0.01
1532608	Rock				2.07	2.88	51.65	7.69	45.3	554	139.0	13.4	599	2.12	16.4	1.1	3.7	1.9	83.4	0.05	2.80	0.09	76	3.96
1532609	Rock				2.21	9.79	16.81	4.07	6.9	225	3.6	0.6	111	0.79	6.2	1.2	1.3	8.8	1.6	<0.01	1.31	35.17	<2	0.50
1532610	Rock				0.94	15.38	332.07	39.65	11.0	3916	2.7	1.6	67	1.53	15.7	3.2	1.7	11.0	3.3	0.08	2.03	15.53	<2	0.74
1532611	Rock				1.41	3.22	399.27	28.97	488.2	571	3.5	2.9	166	2.27	9.9	18.1	<0.2	20.9	3.7	3.31	1.30	3.41	2	0.94
1532612	Rock				2.55	7.12	4292.19	61.55	185.9	19260	3.2	6.8	95	8.64	21.0	0.9	37.8	0.7	0.5	2.73	6.80	505.47	<2	0.03
1532613	Rock				0.78	2.51	86.21	19.63	68.0	679	2.1	0.5	114	1.05	2.3	11.2	2.3	29.0	1.8	0.28	1.89	7.68	<2	0.09
1532614	Rock				0.74	605.74	40.59	18.06	24.4	715	2.0	0.4	82	0.79	3.3	12.1	1.4	23.1	1.0	0.27	0.48	11.37	<2	0.06



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CERTIFICATE OF ANALYSIS

WHI17000174.1

	Method	Analyte	Unit	MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252			
					P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge
					%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
					0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1
1532506	Rock																							
1532508	Rock																							
1532510	Rock																							
1532527	Rock																							
1532528	Rock																							
1532529	Rock																							
1532530	Rock																							
1532531	Rock																							
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1532533	Rock																							
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1532546	Rock																							
1532547	Rock																							
1532548	Rock																							
1532549	Rock																							
1532550	Rock																							
1532601	Rock																							
1532602	Rock																							
1532608	Rock																							
1532609	Rock																							
1532610	Rock																							
1532611	Rock																							
1532612	Rock																							
1532613	Rock																							
1532614	Rock																							



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Page: 2 of 4

Part: 3 of 3

CERTIFICATE OF ANALYSIS

WHI17000174.1

	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	MA370	MA370	MA370
		Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Cu	Ag	W
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	gm/t	%
		0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.001	2	0.01
1532506	Rock	0.96	2.82	37.6	1.8	<0.05	35.5	23.36	21.7	0.10	<1	0.4	6.8	<10	<2			
1532508	Rock	0.06	2.47	27.1	1.8	<0.05	1.8	6.93	5.8	<0.02	<1	0.1	2.0	<10	<2			
1532510	Rock	0.15	3.08	35.8	1.3	<0.05	5.0	30.07	36.7	0.02	<1	0.4	3.2	<10	<2			
1532527	Rock	0.27	1.57	22.6	0.5	<0.05	9.8	3.23	29.8	<0.02	<1	0.5	2.5	<10	<2			
1532528	Rock	1.45	8.02	55.7	3.0	<0.05	32.5	70.52	75.6	0.02	<1	2.3	9.1	<10	<2			
1532529	Rock	0.37	4.89	41.8	1.4	<0.05	9.6	46.60	54.6	0.02	<1	1.4	4.1	<10	<2			
1532530	Rock	0.21	4.83	24.7	1.7	<0.05	6.1	19.04	30.0	1.09	<1	0.7	2.1	<10	<2			
1532531	Rock	0.63	15.64	129.9	2.2	<0.05	13.3	111.60	85.3	0.05	<1	2.2	108.9	<10	<2			
1532532	Rock	0.19	0.70	20.4	7.9	<0.05	5.0	5.36	9.8	6.78	<1	0.5	2.0	<10	<2			
1532533	Rock	0.04	0.71	20.4	1.9	<0.05	1.5	3.88	10.7	0.05	<1	<0.1	2.2	<10	<2			
1532534	Rock	0.04	0.78	15.5	1.9	<0.05	1.7	28.16	11.3	0.07	<1	0.3	1.5	<10	<2			
1532541	Rock	0.05	0.22	4.3	4.6	<0.05	1.1	2.82	7.3	0.23	<1	0.2	2.9	<10	<2			
1532542	Rock	0.17	1.82	4.6	1.0	<0.05	4.6	9.35	20.6	<0.02	3	0.9	3.3	<10	<2			
1532543	Rock	0.03	0.07	4.6	8.4	<0.05	1.0	1.84	1.4	0.22	<1	0.3	2.9	<10	<2			
1532544	Rock	0.02	0.03	5.7	0.7	<0.05	0.9	3.57	10.6	0.03	<1	0.5	10.9	<10	<2			
1532545	Rock	1.03	7.55	69.6	5.0	<0.05	23.0	17.36	25.3	<0.02	<1	1.5	19.0	<10	<2			
1532546	Rock	1.23	4.70	102.5	16.5	<0.05	29.3	12.43	14.3	0.04	<1	1.5	22.4	<10	<2			
1532547	Rock	1.08	1.45	87.0	7.0	<0.05	30.8	7.46	20.8	0.04	<1	0.9	19.2	<10	<2			
1532548	Rock	0.09	0.36	8.0	1.3	<0.05	1.5	0.82	1.3	<0.02	<1	<0.1	1.5	<10	<2			
1532549	Rock	0.94	2.18	89.9	15.3	<0.05	20.7	8.87	15.6	0.03	<1	0.7	23.5	<10	<2			
1532550	Rock	0.71	17.82	95.9	26.3	<0.05	9.3	22.70	4.6	<0.02	<1	0.9	17.2	<10	<2			
1532601	Rock	1.15	4.29	36.7	1.4	<0.05	23.2	19.92	25.8	<0.02	<1	1.2	2.3	<10	2			
1532602	Rock	0.12	1.85	24.9	2.1	<0.05	2.3	20.85	22.8	<0.02	<1	0.7	3.9	<10	<2			
1532608	Rock	0.18	0.04	3.6	0.3	<0.05	7.9	9.80	10.3	<0.02	4	0.9	33.6	10	<2			
1532609	Rock	0.54	2.51	43.6	16.3	<0.05	12.7	18.25	34.5	0.03	<1	0.2	16.9	<10	3	0.001	<2	0.02
1532610	Rock	0.85	11.29	88.9	13.7	<0.05	16.9	47.62	29.1	0.07	<1	1.5	5.8	<10	<2			
1532611	Rock	1.21	3.12	126.5	39.3	<0.05	27.5	15.16	16.7	0.08	<1	1.6	23.0	<10	<2			
1532612	Rock	0.04	0.33	9.5	28.3	<0.05	0.7	1.25	0.9	1.81	<1	<0.1	1.7	<10	<2			
1532613	Rock	0.75	3.36	51.1	4.7	<0.05	21.7	34.30	38.6	0.04	<1	0.5	13.1	<10	<2			
1532614	Rock	1.35	9.70	38.8	4.1	<0.05	21.0	19.59	20.3	0.03	<1	0.4	6.3	<10	<2			



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Page: 3 of 4 **Part:** 1 of 3

CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	WGHT	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
1532615	Rock	1.68	4.53	37.07	15.12	16.4	475	2.0	0.5	85	0.72	2.4	16.9	0.8	19.6	1.0	0.01	0.74	10.10	<2	0.06
1532616	Rock	0.81	240.87	97.95	17.19	56.6	1859	2.1	0.5	88	1.04	3.1	7.0	6.6	26.9	0.9	0.13	1.75	37.76	<2	0.09
1532617	Rock	2.41	1.45	175.17	360.85	288.5	7066	1.8	1.3	1154	1.57	77.2	9.2	10.4	32.1	2.7	3.42	35.41	28.20	<2	0.49
1532618	Rock	1.70	1.37	8.73	27.52	30.8	331	1.3	0.3	86	0.59	14.9	43.6	0.9	36.7	2.8	0.05	0.83	1.13	<2	0.20
1532619	Rock	2.13	6.19	1557.47	268.05	2053.9	23590	0.8	0.1	142	3.05	9862.0	18.6	1.7	45.3	6.4	13.12	19.76	36.34	<2	0.22
1532620	Rock	1.90	0.30	4.23	5.88	32.4	38	0.7	0.6	156	0.96	7.9	7.1	<0.2	32.3	1.2	<0.01	0.24	0.09	<2	0.09
1532621	Rock	2.69	9.40	41.58	437.34	865.0	25440	0.6	0.5	67	1.42	317.9	4.5	12.3	27.7	0.8	12.45	20.71	1.29	<2	<0.01
1532816	Rock	1.37	1.44	4.32	17.27	61.7	1696	0.8	0.5	109	0.57	43.6	11.1	0.5	48.8	3.6	0.21	0.80	0.17	<2	0.05
1532817	Rock	1.11	3.27	6.42	1574.32	81.1	3924	0.4	<0.1	23	0.94	11.2	4.4	0.4	11.1	6.2	0.26	2.64	0.06	<2	0.03
1532818	Rock	1.33	2.13	7.09	221.09	43.9	3036	0.8	0.2	218	0.95	34.5	5.2	1.7	19.8	1.0	0.13	1.24	2.37	<2	<0.01
1532824	Rock	0.77	0.25	2.84	2.98	102.5	40	145.3	14.8	641	1.23	1.2	0.5	<0.2	0.8	29.3	0.05	0.09	0.08	46	2.55
1532825	Rock	1.05	2.81	323.66	21.20	22.0	299	1.7	2.7	41	1.46	2.5	10.5	1.4	17.0	2.1	0.24	0.15	1.50	<2	0.38
1532826	Rock	1.16	3.49	312.27	99.82	1426.8	3077	1.4	1.9	901	2.59	43.8	6.3	4.3	11.8	2.0	21.07	3.33	9.42	<2	0.39
1532827	Rock	0.88	3.83	22.68	8.31	56.0	106	1.1	1.6	357	1.20	3.7	13.4	2.4	24.3	4.0	0.06	0.20	3.39	9	0.29
1532828	Rock	1.41	0.77	308.93	4.63	73.9	542	39.5	18.7	464	3.91	3.6	0.1	11.2	0.2	30.8	0.22	0.07	7.92	138	1.39
1532829	Rock	1.21	55.38	468.37	16.05	57.6	7334	0.4	1.3	306	1.13	4.5	10.2	2.5	29.8	1.9	0.19	2.34	104.21	<2	0.40
1532830	Rock	1.21	28.06	65.06	12.15	64.7	565	0.9	0.5	111	1.08	3.4	10.0	1.6	26.8	2.6	0.27	0.61	26.82	3	0.28
1532831	Rock	1.04	2.10	32.22	5.62	39.0	445	0.8	0.2	44	0.43	8.5	18.6	0.4	32.4	1.6	0.08	1.86	15.75	<2	0.11
1532832	Rock	1.08	10.94	22.71	6.24	36.4	62	0.8	0.6	201	1.00	3.5	12.8	0.7	31.4	1.4	0.06	0.56	2.08	2	0.14
1532833	Rock	0.76	0.87	182.58	3.04	59.8	448	18.2	12.6	319	3.40	5.8	<0.1	0.6	0.2	20.1	0.10	0.28	0.53	96	1.44
1532834	Rock	1.21	3.97	7.21	10.27	26.7	97	0.8	0.2	39	0.42	29.9	14.1	0.6	44.8	2.8	0.10	4.00	2.36	<2	0.05
1532835	Rock	1.16	1.85	721.95	2544.22	794.0	73894	1.0	19.3	503	6.03	>10000	6.1	228.7	6.4	1.8	13.01	1221.61	1232.49	<2	0.50
1532836	Rock	1.32	15.81	202.98	30.65	629.4	1819	0.8	0.3	97	1.18	1950.6	30.3	<0.2	51.2	8.7	5.75	2.68	7.89	<2	0.23
1532837	Rock	1.39	2.42	72.61	77.33	17.8	1706	1.0	0.3	41	0.73	534.6	8.3	3.0	25.0	1.4	1.27	5.88	5.79	<2	0.02
1532838	Rock	0.79	0.61	4.12	17.95	25.8	129	0.6	0.2	28	0.43	7.5	29.8	1.2	46.1	7.9	0.09	0.45	0.59	<2	0.42
1532839	Rock	1.05	5.21	8.57	15.22	67.3	179	1.1	0.2	49	0.39	33.3	61.2	<0.2	34.8	10.0	0.06	1.18	1.97	<2	0.25
1532840	Rock	0.87	2.39	4.42	23.98	87.4	316	0.8	0.5	162	0.81	7.8	23.6	<0.2	51.9	16.7	0.19	0.80	14.17	<2	0.47
1532841	Rock	0.76	0.58	4.98	9.85	40.6	75	0.7	0.2	27	0.38	3.7	29.6	<0.2	47.3	8.1	<0.01	0.79	0.41	<2	0.26
1532842	Rock	1.45	10.54	18.85	84.53	499.0	6339	0.8	0.8	129	1.76	432.8	47.7	2.2	22.6	14.1	22.60	34.65	3.33	<2	3.80
1532843	Rock	1.20	10.48	32.05	416.18	2877.8	21609	0.7	0.8	79	1.47	189.8	4.5	8.9	19.7	1.0	46.65	13.66	1.55	<2	<0.01



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CERTIFICATE OF ANALYSIS

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	Method	Analyte	AQ252																			
			P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge
			%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
			MDL	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02
1532615	Rock	0.002	8.6	11.7	0.01	6.6	0.006	2	0.42	0.088	0.27	24.0	0.9	0.52	<0.02	<5	<0.1	<0.02	2.6	3.83	<0.1	
1532616	Rock	0.005	37.8	12.4	0.01	9.9	<0.001	3	0.60	0.073	0.36	5.3	0.9	0.69	<0.02	<5	0.1	0.03	4.1	3.27	<0.1	
1532617	Rock	0.001	13.0	11.5	0.02	82.8	0.002	8	0.98	0.012	0.57	5.0	0.4	1.27	0.49	14	0.5	0.47	5.3	2.03	<0.1	
1532618	Rock	<0.001	36.7	11.9	<0.01	9.4	0.001	3	0.73	0.005	0.49	2.2	0.6	1.47	<0.02	<5	0.2	<0.02	4.3	7.93	<0.1	
1532619	Rock	<0.001	34.6	10.8	<0.01	34.3	0.001	2	1.12	0.007	0.53	1.5	0.8	1.27	0.61	<5	0.9	<0.02	5.7	5.09	<0.1	
1532620	Rock	0.004	30.4	8.1	0.05	14.0	0.048	2	0.48	0.052	0.32	1.3	1.7	0.55	<0.02	<5	<0.1	<0.02	5.3	13.13	<0.1	
1532621	Rock	0.001	8.9	6.1	<0.01	57.3	<0.001	2	0.37	0.004	0.42	0.2	0.3	1.42	1.29	<5	<0.1	<0.02	1.7	1.62	<0.1	
1532816	Rock	<0.001	21.2	6.6	0.03	8.6	<0.001	2	0.38	0.025	0.14	0.2	0.4	0.29	<0.02	5	<0.1	<0.02	1.6	2.51	<0.1	
1532817	Rock	0.035	23.2	1.7	0.03	349.2	<0.001	2	0.46	0.002	0.21	0.2	0.6	0.36	0.09	31	<0.1	<0.02	1.3	2.84	<0.1	
1532818	Rock	0.001	9.6	6.3	<0.01	13.8	<0.001	1	0.31	0.004	0.23	0.8	0.2	0.53	<0.02	10	<0.1	0.20	2.0	1.45	<0.1	
1532824	Rock	0.034	1.9	108.6	1.31	5.8	0.097	1	0.79	0.061	0.18	0.3	4.2	1.22	<0.02	<5	<0.1	<0.02	3.5	10.16	<0.1	
1532825	Rock	0.010	5.3	9.8	0.02	35.1	0.004	1	0.75	0.011	0.45	2.8	0.4	0.69	0.98	<5	1.0	0.11	3.1	1.08	<0.1	
1532826	Rock	0.007	3.6	14.9	0.02	22.4	0.002	2	0.64	0.009	0.38	>100	0.7	0.83	2.33	<5	0.6	<0.02	2.5	0.98	<0.1	
1532827	Rock	0.017	14.1	11.9	0.17	56.9	0.061	1	0.64	0.052	0.30	6.4	2.1	0.62	0.06	<5	<0.1	0.16	4.1	8.03	0.1	
1532828	Rock	0.061	1.8	116.5	1.81	40.8	0.224	<1	2.59	0.227	0.88	30.6	12.4	4.72	0.31	<5	0.5	0.28	8.8	11.07	0.3	
1532829	Rock	0.009	12.9	6.2	0.03	26.4	0.004	2	0.45	0.063	0.23	24.6	0.8	0.53	0.06	<5	0.3	0.05	2.3	2.61	<0.1	
1532830	Rock	0.009	14.6	10.2	0.04	22.1	0.010	3	0.48	0.049	0.24	61.5	1.3	0.55	<0.02	<5	<0.1	0.16	3.6	4.25	<0.1	
1532831	Rock	0.005	15.5	7.3	0.03	6.5	0.001	1	0.40	0.041	0.11	2.4	0.7	0.22	<0.02	<5	<0.1	<0.02	2.6	1.18	<0.1	
1532832	Rock	0.008	21.4	8.0	0.06	16.3	0.008	<1	0.50	0.048	0.19	1.4	1.3	0.36	<0.02	5	<0.1	<0.02	4.2	3.31	<0.1	
1532833	Rock	0.050	1.6	37.4	1.01	56.1	0.330	<1	1.51	0.230	0.42	0.4	8.6	1.46	0.38	<5	0.4	<0.02	4.9	3.88	0.2	
1532834	Rock	0.002	50.5	7.9	<0.01	6.2	0.001	<1	0.45	0.003	0.07	2.3	0.6	0.11	<0.02	9	<0.1	0.05	2.7	1.74	<0.1	
1532835	Rock	<0.001	3.6	17.3	0.01	19.5	0.002	<1	0.19	0.005	0.14	>100	1.4	0.84	3.69	*	6.9	28.95	1.7	0.40	0.1	
1532836	Rock	<0.001	41.8	11.1	<0.01	70.9	0.002	1	0.80	0.023	0.52	4.3	1.3	1.39	0.08	<5	0.3	0.03	6.5	10.31	<0.1	
1532837	Rock	<0.001	6.5	9.8	<0.01	14.8	<0.001	<1	0.31	0.003	0.32	8.7	0.2	0.64	<0.02	<5	<0.1	0.06	1.9	4.96	<0.1	
1532838	Rock	<0.001	28.5	6.0	0.02	6.9	0.003	3	0.66	0.041	0.27	4.4	0.9	0.37	<0.02	<5	<0.1	<0.02	3.6	2.54	<0.1	
1532839	Rock	<0.001	22.7	6.3	0.01	100.0	0.001	2	0.85	0.004	0.44	5.2	0.8	1.09	<0.02	32	<0.1	<0.02	5.0	10.74	<0.1	
1532840	Rock	<0.001	39.7	9.3	0.02	24.4	0.002	2	0.87	0.005	0.52	3.3	1.0	1.16	<0.02	<5	0.2	0.04	6.4	7.70	<0.1	
1532841	Rock	<0.001	38.4	8.0	0.02	11.1	0.001	<1	0.57	0.028	0.19	2.5	0.8	0.33	<0.02	6	<0.1	<0.02	3.2	1.98	<0.1	
1532842	Rock	0.003	25.6	10.4	0.02	118.1	0.007	6	2.36	0.018	1.22	1.5	1.6	2.35	<0.02	49	1.4	<0.02	12.6	6.79	0.2	
1532843	Rock	0.002	7.8	4.4	0.01	54.4	<0.001	2	0.45	0.006	0.47	0.5	0.3	1.76	1.40	27	0.6	<0.02	1.9	2.27	<0.1	



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	MA370	MA370	MA370
		Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Cu	Ag	W
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	gm/t	%
		0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.001	2	0.01
1532615	Rock	1.35	10.99	54.0	4.8	0.05	18.8	26.91	18.6	0.07	<1	0.6	7.7	<10	<2			
1532616	Rock	0.56	3.01	78.3	10.4	<0.05	11.9	18.32	77.6	0.30	3	0.9	11.9	<10	<2			
1532617	Rock	2.09	8.35	85.5	13.8	<0.05	51.2	42.75	28.8	0.16	<1	0.8	5.0	<10	<2			
1532618	Rock	1.39	6.42	111.4	15.8	<0.05	33.4	43.44	81.0	0.57	<1	0.9	11.0	<10	<2			
1532619	Rock	1.32	2.12	145.4	11.2	<0.05	30.3	99.84	69.1	49.44	<1	1.3	65.1	<10	<2			
1532620	Rock	1.42	8.15	77.3	2.6	0.05	33.0	46.82	64.0	0.06	<1	0.6	58.1	<10	<2			
1532621	Rock	0.56	0.58	61.1	12.2	<0.05	18.7	7.26	18.5	0.54	<1	0.7	3.2	<10	<2			
1532816	Rock	0.19	0.84	20.6	0.5	<0.05	5.3	40.64	51.3	0.03	<1	0.9	1.8	<10	<2			
1532817	Rock	0.41	0.10	25.0	1.5	<0.05	21.0	12.54	34.1	0.55	<1	1.0	3.7	<10	<2			
1532818	Rock	0.25	0.80	30.8	3.4	<0.05	5.8	11.20	40.1	0.36	<1	0.6	4.0	<10	<2			
1532824	Rock	0.18	0.09	42.9	2.0	<0.05	5.4	5.65	4.3	0.02	<1	0.8	19.5	<10	<2			
1532825	Rock	1.31	2.53	62.7	15.3	<0.05	30.6	7.44	10.8	0.02	<1	0.5	14.4	<10	<2			
1532826	Rock	0.65	0.90	51.1	23.4	<0.05	15.9	6.73	7.4	0.70	1	0.4	11.6	<10	<2	0.028	3	0.30
1532827	Rock	0.87	8.41	65.9	9.0	<0.05	19.1	20.78	28.3	0.04	<1	0.6	34.2	<10	<2			
1532828	Rock	0.12	0.06	197.7	8.0	<0.05	1.9	8.73	4.8	0.07	1	1.5	33.8	<10	<2			
1532829	Rock	1.15	10.62	47.1	8.0	<0.05	26.9	26.15	27.0	1.18	<1	7.1	11.2	<10	2			
1532830	Rock	1.01	8.09	58.6	6.9	<0.05	24.3	22.31	30.0	0.09	<1	1.4	16.5	<10	<2			
1532831	Rock	0.65	7.46	21.7	2.9	<0.05	14.8	23.55	32.2	0.06	<1	0.7	5.8	<10	<2			
1532832	Rock	0.99	6.01	42.7	5.5	<0.05	23.3	27.05	41.9	0.02	<1	0.9	17.6	<10	<2			
1532833	Rock	0.33	0.04	50.9	26.2	<0.05	6.4	11.22	4.4	0.49	<1	0.1	20.2	<10	<2			
1532834	Rock	0.32	1.01	10.4	0.6	<0.05	9.7	60.82	75.6	<0.02	<1	0.7	7.6	<10	<2			
1532835	Rock	0.36	7.51	22.6	79.1	0.06	6.8	7.48	8.2	1.07	20	0.1	2.7	<10	<2	0.070	74	0.38
1532836	Rock	2.82	2.14	173.9	15.7	<0.05	57.5	150.37	95.1	8.16	<1	0.8	156.6	<10	<2			
1532837	Rock	0.63	2.36	57.6	3.8	<0.05	15.0	25.60	10.9	0.42	<1	1.3	3.0	<10	2			
1532838	Rock	5.61	20.35	55.6	3.3	<0.05	95.0	74.40	55.7	0.03	<1	0.9	3.4	<10	3			
1532839	Rock	2.36	7.03	95.0	1.9	<0.05	41.9	65.21	46.7	0.14	<1	1.7	3.3	<10	<2			
1532840	Rock	2.57	8.06	135.8	2.5	<0.05	49.6	125.90	97.3	0.04	<1	1.8	33.7	<10	<2			
1532841	Rock	1.96	19.14	37.0	1.0	<0.05	35.8	78.99	81.3	<0.02	1	2.8	7.2	<10	<2			
1532842	Rock	1.89	6.57	151.2	45.7	<0.05	45.9	37.07	42.2	3.65	<1	2.3	9.0	<10	<2			
1532843	Rock	0.69	0.46	72.4	16.3	<0.05	25.2	7.98	16.2	2.28	<1	0.6	4.1	<10	<2			



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	WGHT	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
1532844	Rock	1.67	3.71	440.01	3169.32	2272.6	>100000	0.5	0.8	66	2.57	>10000	26.3	171.8	17.9	15.7	76.64	248.98	13.93	<2	0.47
1532901	Rock	1.54	17.64	299.76	25.78	15.3	1642	1.8	2.0	37	1.16	25.7	14.5	1.1	25.5	3.5	0.65	1.02	4.37	<2	0.72
1532902	Rock	1.10	3.34	189.57	1397.88	857.9	15542	1.1	1.3	39	1.44	9144.2	4.4	534.2	4.5	13.4	21.67	449.85	38.27	2	0.82
1532903	Rock	2.40	7.43	149.97	410.73	61.4	12799	0.7	1.3	67	1.76	>10000	5.2	693.2	10.4	22.0	3.84	343.59	47.99	4	1.60
1532904	Rock	2.92	2.02	685.47	3307.35	133.4	90663	1.1	12.7	866	3.06	>10000	7.7	603.6	11.9	1.5	3.28	960.74	1050.69	<2	0.21
1532905	Rock	1.99	35.63	171.42	248.90	294.0	8580	1.2	1.8	>10000	4.33	3634.9	7.4	88.5	9.7	3.8	6.98	141.87	9.30	7	0.08
1532906	Rock	1.87	5.16	7.80	60.87	95.0	346	0.6	0.4	110	0.86	34.7	21.2	0.7	47.1	2.0	0.25	3.24	3.29	<2	0.22
1532907	Rock	1.14	0.82	4.39	7.18	53.2	88	1.0	0.4	111	0.47	12.1	14.7	1.3	35.5	1.7	0.32	0.72	0.26	<2	0.10
1532908	Rock	1.52	1.14	3.27	19.01	69.8	215	0.8	0.2	34	0.31	8.3	8.1	<0.2	32.6	1.7	0.06	0.67	0.64	<2	0.11
1532909	Rock	1.20	48.52	5.95	36.61	60.3	291	0.6	0.2	42	0.24	3.7	6.4	0.9	8.8	1.0	0.24	0.29	0.99	<2	0.11
1532910	Rock	1.54	2.00	5.02	14.75	31.2	155	0.8	0.2	33	0.60	7.9	1.5	1.0	23.0	1.6	0.07	0.79	0.54	<2	0.06
1532911	Rock	2.59	1.55	5.65	33.09	36.5	513	1.2	0.3	63	0.33	3.3	10.0	0.4	41.5	2.2	0.17	0.53	0.71	<2	0.14
1532912	Rock	1.76	2.38	1.88	11.95	340.7	80	0.4	6.5	>10000	3.15	2.4	0.5	<0.2	4.9	28.5	0.28	0.32	0.08	9	0.65
1532913	Rock	1.45	0.42	7.79	459.48	639.6	27446	0.5	0.4	128	4.70	250.6	4.0	30.4	35.4	0.7	4.72	25.30	8.76	14	0.02
1532914	Rock	2.13	1.14	9.35	148.22	36.9	3201	1.0	0.3	59	1.31	8.2	3.5	1.4	21.2	0.9	0.14	1.58	7.52	<2	<0.01
1532915	Rock	1.92	14.24	5.61	21.16	5.8	207	0.9	0.2	29	0.25	13.8	3.1	0.2	12.6	0.8	0.02	0.42	0.32	<2	0.10
1532916	Rock	1.98	8.51	13.71	17.35	8.4	303	1.1	0.2	25	0.35	61.1	4.3	0.6	3.4	0.6	0.18	1.98	0.25	<2	0.02
1532917	Rock	1.16	2.46	43.76	11.01	6.9	689	1.0	0.2	41	0.45	2516.7	5.7	7.9	2.7	1.7	0.13	7.80	0.58	<2	<0.01
1532918	Rock	6.00	56.12	401.64	925.38	381.9	6789	1.4	2.5	35	3.54	248.3	47.6	21.6	6.2	1.3	1.97	11.02	30.00	26	<0.01
1532919	Rock	2.36	2.20	6.07	6.70	616.6	161	0.5	3.4	2957	7.16	542.6	38.6	2.3	73.6	21.4	5.74	2.63	0.31	2	6.86
1532920	Rock	3.65	1.09	>10000	67.49	700.4	51843	119.2	29.5	842	27.29	52.0	1.2	114.5	0.2	8.6	2.22	0.58	82.22	17	0.84



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
		0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1
1532844	Rock	0.001	9.9	11.7	0.01	31.7	0.002	2	0.88	0.006	0.50	0.9	0.4	1.79	0.78	65	2.6	0.07	4.8	6.64	<0.1
1532901	Rock	0.002	24.3	10.1	<0.01	47.1	0.005	<1	0.87	0.015	0.62	4.6	0.4	0.90	0.97	<5	0.7	0.16	4.0	0.87	<0.1
1532902	Rock	0.002	9.9	30.4	0.04	32.8	0.005	6	0.68	0.008	0.37	13.0	0.9	1.21	0.75	145	0.3	8.35	7.1	5.56	0.1
1532903	Rock	0.002	13.2	12.0	0.08	70.6	0.010	13	1.55	0.013	0.82	>100	1.6	2.15	0.74	58	0.6	15.87	13.0	9.48	0.2
1532904	Rock	<0.001	3.7	22.4	<0.01	40.7	<0.001	<1	0.29	0.005	0.19	>100	1.1	0.95	1.85	*	4.0	20.97	1.8	0.45	<0.1
1532905	Rock	0.002	5.3	14.2	0.03	24.2	<0.001	1	0.34	0.003	0.16	10.6	0.4	2.26	1.41	77	<0.1	0.33	3.4	3.93	<0.1
1532906	Rock	0.002	72.7	13.3	0.03	6.9	0.023	<1	0.51	0.045	0.19	8.1	2.0	0.26	<0.02	<5	<0.1	0.05	4.7	3.40	0.1
1532907	Rock	<0.001	17.8	10.7	<0.01	8.0	0.001	<1	0.31	0.055	0.11	1.2	0.6	0.19	<0.02	<5	<0.1	<0.02	1.9	1.22	<0.1
1532908	Rock	0.001	35.7	9.3	0.01	7.0	<0.001	<1	0.32	0.040	0.11	1.2	0.7	0.17	<0.02	<5	<0.1	<0.02	2.1	0.75	<0.1
1532909	Rock	<0.001	6.6	4.4	<0.01	3.3	<0.001	<1	0.28	0.092	0.20	3.6	0.2	0.22	<0.02	<5	<0.1	0.03	1.6	4.11	<0.1
1532910	Rock	<0.001	21.1	8.8	0.02	16.1	0.001	<1	0.27	0.032	0.16	1.3	0.4	0.29	0.04	<5	<0.1	<0.02	2.1	1.13	<0.1
1532911	Rock	0.002	24.3	19.5	0.02	9.0	0.001	2	0.19	0.039	0.06	1.1	0.4	0.12	<0.02	<5	0.1	<0.02	1.5	1.35	<0.1
1532912	Rock	0.082	24.5	2.1	0.29	62.8	0.001	<1	0.55	0.029	0.25	0.2	1.6	0.30	0.12	<5	<0.1	<0.02	1.3	7.14	<0.1
1532913	Rock	0.001	3.0	24.7	<0.01	20.9	0.002	<1	0.42	0.004	0.24	3.8	0.4	0.73	0.16	46	29.2	0.92	2.9	3.08	<0.1
1532914	Rock	<0.001	3.2	10.0	<0.01	15.6	<0.001	<1	0.33	0.005	0.27	0.9	0.3	0.81	0.03	9	0.7	0.04	2.7	2.98	<0.1
1532915	Rock	<0.001	2.4	18.6	<0.01	9.5	0.001	<1	0.23	0.006	0.15	1.2	0.2	0.25	<0.02	<5	<0.1	<0.02	1.3	0.52	<0.1
1532916	Rock	<0.001	5.9	34.1	<0.01	10.5	<0.001	<1	0.13	0.002	0.09	0.5	0.1	0.17	<0.02	12	<0.1	<0.02	1.0	2.03	<0.1
1532917	Rock	<0.001	6.6	26.1	<0.01	33.1	<0.001	<1	0.13	0.003	0.12	0.4	0.1	3.22	0.04	<5	0.2	0.07	1.0	4.05	<0.1
1532918	Rock	0.018	62.5	22.7	<0.01	34.4	<0.001	<1	0.24	0.004	0.17	15.8	0.2	0.79	0.03	72	1.6	0.85	1.3	0.91	<0.1
1532919	Rock	<0.001	80.0	3.6	0.03	91.1	0.013	39	3.82	0.019	1.92	2.0	2.7	4.94	0.03	<5	<0.1	<0.02	22.3	7.06	0.4
1532920	Rock	0.014	1.0	79.7	0.53	150.6	0.024	13	0.51	0.008	0.14	1.5	1.1	0.92	0.08	9	1.6	0.22	7.3	15.83	0.5



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	MA370	MA370	MA370
		Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Cu	Ag	W
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	gm/t	%
		0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.001	2	0.01
1532844	Rock	1.16	1.83	93.2	65.0	<0.05	32.3	6.00	22.4	1.84	<1	0.5	5.1	<10	<2	0.042	185	<0.01
1532901	Rock	0.71	12.10	80.3	7.4	<0.05	17.3	52.93	49.4	0.03	<1	1.2	3.6	<10	<2			
1532902	Rock	0.22	1.24	65.3	15.0	<0.05	4.8	14.91	20.0	0.44	<1	0.8	6.9	<10	<2			
1532903	Rock	0.71	3.25	146.3	29.0	<0.05	14.3	21.22	25.2	0.31	1	1.2	13.6	<10	<2	0.015	15	0.02
1532904	Rock	0.70	3.75	25.2	52.0	<0.05	14.4	6.80	8.1	1.18	10	0.3	2.3	<10	3	0.067	85	0.36
1532905	Rock	0.45	1.08	28.9	5.3	<0.05	11.3	14.20	11.4	0.09	<1	0.1	2.2	<10	<2			
1532906	Rock	0.73	4.91	32.7	1.2	<0.05	20.5	62.36	136.9	0.05	<1	0.9	9.2	<10	<2			
1532907	Rock	0.34	1.81	17.1	1.2	<0.05	7.9	24.69	34.5	0.05	<1	0.8	1.6	<10	<2			
1532908	Rock	0.65	1.72	14.7	0.9	<0.05	15.4	26.84	67.5	0.02	1	0.6	1.4	<10	<2			
1532909	Rock	0.05	3.05	21.1	0.6	<0.05	0.9	32.18	13.4	<0.02	1	1.0	2.1	<10	<2			
1532910	Rock	0.43	1.02	19.8	1.0	<0.05	11.8	11.33	40.1	0.03	<1	0.9	2.0	<10	<2			
1532911	Rock	0.34	3.31	8.6	2.9	<0.05	6.5	27.34	52.7	0.09	<1	1.0	2.2	<10	<2			
1532912	Rock	0.08	<0.02	22.1	0.3	<0.05	4.9	84.52	44.8	<0.02	<1	3.3	2.3	<10	<2			
1532913	Rock	0.45	3.75	33.4	26.6	0.08	12.4	10.08	6.8	2.52	<1	0.7	2.2	19	<2			
1532914	Rock	0.26	1.41	46.0	3.8	0.06	7.2	10.60	7.2	0.38	1	0.9	4.4	<10	<2			
1532915	Rock	0.32	3.76	22.6	1.7	<0.05	7.0	4.60	5.1	0.10	<1	0.1	2.0	<10	<2			
1532916	Rock	0.04	0.49	15.0	2.5	<0.05	1.0	3.80	11.6	0.08	<1	0.1	1.4	<10	<2			
1532917	Rock	0.03	0.22	41.5	1.1	<0.05	1.2	25.33	5.1	<0.02	<1	<0.1	1.2	<10	<2			
1532918	Rock	<0.02	0.63	18.1	7.4	<0.05	0.3	31.26	123.3	0.46	<1	1.1	1.3	<10	<2			
1532919	Rock	3.13	14.34	275.5	>100	<0.05	69.5	43.55	164.4	0.83	<1	2.0	21.3	<10	<2			
1532920	Rock	0.06	0.10	28.1	>100	<0.05	2.3	8.01	1.9	10.53	<1	8.5	3.8	<10	<2	1.489	52	<0.01



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QUALITY CONTROL REPORT

WHI17000174.1

Method		WGHT	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
Pulp Duplicates																					
1532608	Rock	2.07	2.88	51.65	7.69	45.3	554	139.0	13.4	599	2.12	16.4	1.1	3.7	1.9	83.4	0.05	2.80	0.09	76	3.96
REP 1532608	QC		2.96	49.93	7.46	43.7	523	135.3	12.6	594	2.08	15.6	1.1	3.5	1.9	81.1	0.07	2.69	0.08	75	3.89
1532838	Rock	0.79	0.61	4.12	17.95	25.8	129	0.6	0.2	28	0.43	7.5	29.8	1.2	46.1	7.9	0.09	0.45	0.59	<2	0.42
REP 1532838	QC		0.66	3.82	18.84	25.3	153	0.6	0.2	27	0.43	7.1	30.9	<0.2	47.0	8.3	0.10	0.45	0.58	<2	0.42
1532904	Rock	2.92	2.02	685.47	3307.35	133.4	90663	1.1	12.7	866	3.06	>10000	7.7	603.6	11.9	1.5	3.28	960.74	1050.69	<2	0.21
REP 1532904	QC																				
1532919	Rock	2.36	2.20	6.07	6.70	616.6	161	0.5	3.4	2957	7.16	542.6	38.6	2.3	73.6	21.4	5.74	2.63	0.31	2	6.86
REP 1532919	QC		2.16	6.22	6.52	624.5	157	0.6	4.7	2952	7.26	544.8	40.2	2.7	72.1	21.6	5.75	2.62	0.29	2	6.96
Core Reject Duplicates																					
1532527	Rock	1.20	6.19	11.34	56.96	102.6	588	1.7	0.5	70	0.74	1.4	1.6	1.6	11.8	7.2	0.09	0.53	0.57	<2	0.02
DUP 1532527	QC		6.07	11.32	55.18	100.7	600	1.8	0.4	71	0.77	1.2	1.7	1.7	11.6	7.1	0.09	0.52	0.58	<2	0.02
1532816	Rock	1.37	1.44	4.32	17.27	61.7	1696	0.8	0.5	109	0.57	43.6	11.1	0.5	48.8	3.6	0.21	0.80	0.17	<2	0.05
DUP 1532816	QC		1.52	3.56	18.52	63.1	1828	0.9	0.5	118	0.59	45.8	11.6	<0.2	50.5	3.8	0.21	0.86	0.16	<2	0.05
1532911	Rock	2.59	1.55	5.65	33.09	36.5	513	1.2	0.3	63	0.33	3.3	10.0	0.4	41.5	2.2	0.17	0.53	0.71	<2	0.14
DUP 1532911	QC		1.47	4.60	32.42	36.7	544	1.1	0.2	56	0.32	2.2	10.5	0.3	45.0	2.1	0.20	0.44	0.65	<2	0.14
Reference Materials																					
STD CDN-ME-14	Standard																				
STD CDN-ME-9	Standard																				
STD DS10	Standard		14.69	154.97	150.75	350.3	1880	76.4	13.6	929	2.78	45.1	2.7	79.4	7.9	68.9	2.55	9.24	11.93	45	1.11
STD DS10	Standard		14.06	157.95	149.04	369.4	1892	74.7	12.7	877	2.81	44.1	2.7	78.6	7.4	68.7	2.57	8.35	12.08	46	1.10
STD DS10	Standard		15.15	158.94	152.44	364.1	1938	79.3	12.8	904	2.81	46.2	2.7	83.2	7.7	73.3	2.63	8.96	12.82	45	1.12
STD DS10	Standard		15.00	157.93	151.05	359.9	1862	78.3	13.0	891	2.85	43.4	2.8	78.9	8.2	72.8	2.52	8.47	12.75	47	1.11
STD DS10	Standard		14.44	157.82	156.12	364.5	1796	76.6	13.2	879	2.80	45.2	3.0	83.6	8.1	69.5	2.55	9.49	12.70	42	1.05
STD OXC129	Standard		1.18	26.72	6.06	37.4	13	79.3	20.7	411	3.02	0.6	0.7	198.8	1.7	188.5	<0.01	0.02	<0.02	52	0.75
STD OXC129	Standard		1.30	27.89	6.21	40.5	10	82.5	21.1	428	3.03	0.4	0.7	201.6	1.8	188.5	<0.01	0.04	<0.02	52	0.68
STD OXC129	Standard		1.31	27.29	6.15	38.5	11	80.1	20.3	419	3.00	0.7	0.7	204.8	1.6	192.1	<0.01	0.04	<0.02	53	0.70
STD OXC129	Standard		1.27	27.81	6.28	39.2	13	82.9	21.0	429	3.06	0.8	0.7	200.5	1.9	204.9	<0.01	0.03	<0.02	56	0.75
STD OXC129	Standard		1.26	28.10	6.18	41.1	10	81.3	20.9	410	3.00	0.4	0.7	186.5	1.9	181.3	0.04	0.05	0.02	49	0.61



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		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
		0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1
Pulp Duplicates																					
1532608	Rock	0.083	5.3	54.5	1.83	8.6	0.005	2	1.43	0.023	0.03	0.1	5.0	0.12	<0.02	<5	<0.1	<0.02	5.9	1.98	<0.1
REP 1532608	QC	0.083	5.1	53.3	1.80	7.6	0.005	1	1.42	0.021	0.03	0.1	5.0	0.11	<0.02	<5	<0.1	0.02	5.6	1.97	0.1
1532838	Rock	<0.001	28.5	6.0	0.02	6.9	0.003	3	0.66	0.041	0.27	4.4	0.9	0.37	<0.02	<5	<0.1	<0.02	3.6	2.54	<0.1
REP 1532838	QC	<0.001	29.3	5.8	0.02	7.6	0.003	5	0.66	0.040	0.27	4.7	1.0	0.39	<0.02	<5	<0.1	<0.02	3.6	2.59	<0.1
1532904	Rock	<0.001	3.7	22.4	<0.01	40.7	<0.001	<1	0.29	0.005	0.19	>100	1.1	0.95	1.85	*	4.0	20.97	1.8	0.45	<0.1
REP 1532904	QC																				
1532919	Rock	<0.001	80.0	3.6	0.03	91.1	0.013	39	3.82	0.019	1.92	2.0	2.7	4.94	0.03	<5	<0.1	<0.02	22.3	7.06	0.4
REP 1532919	QC	<0.001	77.8	3.5	0.03	90.9	0.013	37	3.88	0.020	1.96	2.0	2.6	4.93	<0.02	6	<0.1	<0.02	22.5	7.15	0.4
Core Reject Duplicates																					
1532527	Rock	0.015	16.3	9.2	0.05	159.3	<0.001	<1	0.55	0.054	0.25	0.5	0.6	0.31	0.03	<5	0.2	<0.02	1.9	1.07	<0.1
DUP 1532527	QC	0.015	16.0	9.2	0.05	153.6	<0.001	<1	0.55	0.055	0.25	0.5	0.6	0.31	0.03	<5	0.3	<0.02	1.8	1.05	<0.1
1532816	Rock	<0.001	21.2	6.6	0.03	8.6	<0.001	2	0.38	0.025	0.14	0.2	0.4	0.29	<0.02	5	<0.1	<0.02	1.6	2.51	<0.1
DUP 1532816	QC	0.001	22.3	7.2	0.03	9.9	<0.001	3	0.40	0.027	0.15	0.2	0.4	0.31	<0.02	<5	<0.1	<0.02	2.0	2.71	<0.1
1532911	Rock	0.002	24.3	19.5	0.02	9.0	0.001	2	0.19	0.039	0.06	1.1	0.4	0.12	<0.02	<5	0.1	<0.02	1.5	1.35	<0.1
DUP 1532911	QC	0.003	26.5	19.6	0.02	9.1	0.001	1	0.19	0.037	0.06	1.1	0.4	0.12	<0.02	<5	<0.1	<0.02	1.6	1.36	<0.1
Reference Materials																					
STD CDN-ME-14	Standard																				
STD CDN-ME-9	Standard																				
STD DS10	Standard	0.081	19.9	57.1	0.79	369.9	0.085	4	1.13	0.071	0.35	3.4	3.3	5.13	0.29	298	2.6	4.92	4.7	2.78	<0.1
STD DS10	Standard	0.074	17.8	56.1	0.79	347.2	0.086	7	1.09	0.071	0.35	3.2	2.9	5.21	0.29	276	2.0	4.74	4.2	2.56	<0.1
STD DS10	Standard	0.078	18.9	57.1	0.80	375.3	0.088	9	1.11	0.071	0.35	3.2	2.8	5.33	0.30	323	2.4	5.16	4.9	2.73	<0.1
STD DS10	Standard	0.079	20.4	56.1	0.80	386.2	0.091	7	1.14	0.074	0.35	3.2	3.2	5.12	0.29	272	2.3	5.01	4.6	2.81	<0.1
STD DS10	Standard	0.074	17.9	57.6	0.79	349.4	0.085	7	1.05	0.069	0.33	3.4	2.9	5.06	0.27	284	2.3	4.96	4.3	2.64	<0.1
STD OXC129	Standard	0.095	12.2	52.9	1.58	51.0	0.375	<1	1.61	0.593	0.36	<0.1	1.0	0.03	<0.02	<5	<0.1	<0.02	5.6	0.15	<0.1
STD OXC129	Standard	0.093	12.5	54.3	1.57	53.4	0.414	1	1.55	0.581	0.36	<0.1	0.8	0.04	<0.02	<5	<0.1	<0.02	5.5	0.15	0.1
STD OXC129	Standard	0.093	12.1	52.9	1.58	51.2	0.409	<1	1.58	0.591	0.37	0.2	0.7	0.04	<0.02	<5	<0.1	<0.02	5.6	0.15	<0.1
STD OXC129	Standard	0.098	12.6	55.3	1.57	50.3	0.434	<1	1.63	0.609	0.36	<0.1	1.0	0.04	<0.02	<5	<0.1	<0.02	5.7	0.16	<0.1
STD OXC129	Standard	0.097	12.7	54.2	1.51	47.9	0.415	<1	1.49	0.576	0.35	<0.1	1.4	0.03	<0.02	6	<0.1	<0.02	5.2	0.15	<0.1



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Project: Adanac
Report Date: July 23, 2017

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QUALITY CONTROL REPORT

WHI17000174.1

Method Analyte Unit MDL		AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	MA370	MA370	MA370
		Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Cu	Ag	W
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	gm/t	%
		0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.001	2	0.01
Pulp Duplicates																		
1532608	Rock	0.18	0.04	3.6	0.3	<0.05	7.9	9.80	10.3	<0.02	4	0.9	33.6	10	<2			
REP 1532608	QC	0.17	0.05	3.6	0.4	<0.05	8.1	9.73	10.6	<0.02	2	0.9	31.9	12	<2			
1532838	Rock	5.61	20.35	55.6	3.3	<0.05	95.0	74.40	55.7	0.03	<1	0.9	3.4	<10	3			
REP 1532838	QC	5.90	20.96	57.8	3.5	<0.05	97.6	75.83	58.9	0.03	<1	1.0	4.2	<10	<2			
1532904	Rock	0.70	3.75	25.2	52.0	<0.05	14.4	6.80	8.1	1.18	10	0.3	2.3	<10	3	0.067	85	0.36
REP 1532904	QC															0.066	87	0.36
1532919	Rock	3.13	14.34	275.5	>100	<0.05	69.5	43.55	164.4	0.83	<1	2.0	21.3	<10	<2			
REP 1532919	QC	3.23	14.37	272.6	>100	<0.05	68.0	42.49	164.2	0.83	<1	2.6	21.7	<10	<2			
Core Reject Duplicates																		
1532527	Rock	0.27	1.57	22.6	0.5	<0.05	9.8	3.23	29.8	<0.02	<1	0.5	2.5	<10	<2			
DUP 1532527	QC	0.31	1.48	22.6	0.5	<0.05	9.9	3.25	28.8	0.02	<1	0.2	2.3	<10	<2			
1532816	Rock	0.19	0.84	20.6	0.5	<0.05	5.3	40.64	51.3	0.03	<1	0.9	1.8	<10	<2			
DUP 1532816	QC	0.19	0.86	22.7	0.6	<0.05	5.7	42.67	55.2	0.02	<1	1.1	1.9	<10	<2			
1532911	Rock	0.34	3.31	8.6	2.9	<0.05	6.5	27.34	52.7	0.09	<1	1.0	2.2	<10	<2			
DUP 1532911	QC	0.33	3.71	8.5	3.1	<0.05	7.1	29.82	56.2	0.08	<1	1.4	1.9	<10	<2			
Reference Materials																		
STD CDN-ME-14	Standard															1.229	43	<0.01
STD CDN-ME-9	Standard															0.643	3	<0.01
STD DS10	Standard	0.05	1.73	29.0	1.8	<0.05	2.9	8.59	39.8	0.27	51	0.7	20.2	100	189			
STD DS10	Standard	0.06	1.56	28.1	1.7	<0.05	2.6	7.93	35.6	0.22	50	0.6	20.0	106	187			
STD DS10	Standard	0.06	1.63	28.6	1.7	<0.05	2.8	8.73	37.9	0.25	47	0.7	19.9	106	197			
STD DS10	Standard	0.07	1.71	28.5	1.6	<0.05	3.1	8.66	40.3	0.22	47	0.4	19.8	110	187			
STD DS10	Standard	0.04	1.65	28.2	1.6	<0.05	2.6	8.00	35.5	0.23	45	0.5	18.7	131	192			
STD OXC129	Standard	0.25	1.37	15.4	0.7	<0.05	19.7	4.70	22.3	<0.02	<1	0.7	2.2	<10	<2			
STD OXC129	Standard	0.21	1.18	15.3	0.7	<0.05	17.2	4.68	23.0	<0.02	<1	0.7	2.1	<10	<2			
STD OXC129	Standard	0.20	1.26	15.3	0.8	<0.05	17.4	4.75	22.4	<0.02	<1	1.0	2.5	<10	<2			
STD OXC129	Standard	0.29	0.99	15.5	0.8	<0.05	19.5	4.98	23.7	<0.02	<1	0.5	2.4	<10	<2			
STD OXC129	Standard	0.31	1.40	14.8	0.6	<0.05	20.4	4.58	22.6	<0.02	<1	1.0	2.2	<10	<2			



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Project: Adanac
Report Date: July 23, 2017

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QUALITY CONTROL REPORT

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		WGHT	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
STD CDN-ME-14 Expected																					
STD CDN-ME-9 Expected																					
STD DS10 Expected		15.1	154.61	150.55	370	2020	74.6	12.9	875	2.7188	46.2	2.59	91.9	7.5	67.1	2.62	9	11.65	43	1.0625	
STD OXC129 Expected		1.3	28	6.3	42.9	28	79.5	20.3	421	3.065	0.6	0.72	195	1.9		0.03	0.04		51	0.665	
BLK	Blank	<0.01	0.23	0.15	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.2	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	
BLK	Blank																				
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	
Prep Wash																					
ROCK-WHI	Prep Blank	0.72	4.64	1.29	36.1	12	1.6	4.0	586	1.88	1.0	0.4	<0.2	2.4	24.1	0.03	0.11	0.07	20	0.56	
ROCK-WHI	Prep Blank	0.96	4.71	1.42	32.9	9	1.7	3.9	522	1.85	1.8	0.5	<0.2	2.4	24.9	0.02	0.08	0.04	21	0.54	



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Project: Adanac
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QUALITY CONTROL REPORT

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		AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
		0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1
STD CDN-ME-14 Expected																					
STD CDN-ME-9 Expected																					
STD DS10 Expected		0.0765	17.5	54.6	0.775	359	0.0817		1.0755	0.067	0.338	3.32	3	5.1	0.29	300	2.3	5.01	4.5	2.63	0.08
STD OXC129 Expected		0.102	13	52	1.545	50	0.4	1	1.58	0.6	0.37	0.08	1.1	0.03					5.6	0.16	
BLK	Blank	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1
BLK	Blank	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1
BLK	Blank	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1
BLK	Blank	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1
BLK	Blank																				
BLK	Blank	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1
Prep Wash																					
ROCK-WHI	Prep Blank	0.039	6.1	4.1	0.51	64.0	0.090	<1	0.99	0.112	0.12	0.1	3.4	<0.02	0.07	<5	<0.1	<0.02	3.8	0.12	<0.1
ROCK-WHI	Prep Blank	0.038	6.5	4.1	0.47	64.3	0.084	3	0.94	0.115	0.11	<0.1	3.1	<0.02	0.05	7	<0.1	<0.02	3.8	0.12	<0.1



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QUALITY CONTROL REPORT

WHI17000174.1

		AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	MA370	MA370	MA370
		Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Cu	Ag	W
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	gm/t	%
		0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.001	2	0.01
STD CDN-ME-14 Expected																1.221	42.3	
STD CDN-ME-9 Expected																0.654		
STD DS10 Expected		0.06	1.62	27.7	1.6		2.7	7.77	37	0.23	50	0.63	19.4	110	191			
STD OXC129 Expected		0.24	1.4		0.7		21	4.7	23.7			0.8	2.22					
BLK	Blank	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2			
BLK	Blank	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2			
BLK	Blank	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2			
BLK	Blank	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2			
BLK	Blank															<0.001	<2	<0.01
BLK	Blank	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2			
Prep Wash																		
ROCK-WHI	Prep Blank	0.14	0.17	2.8	0.6	<0.05	3.7	8.72	12.2	<0.02	<1	0.2	1.9	<10	<2			
ROCK-WHI	Prep Blank	0.13	0.16	2.9	0.5	<0.05	3.7	8.56	12.6	<0.02	<1	0.2	1.9	<10	<2			



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Submitted By: Janet Miller
Receiving Lab: Canada-Whitehorse
Received: July 04, 2017
Report Date: July 27, 2017
Page: 1 of 5

CERTIFICATE OF ANALYSIS

WHI17000228.1

CLIENT JOB INFORMATION

Project: Adanac
Shipment ID:
P.O. Number
Number of Samples: 93

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Zinex Mining Corp.
Box 997
Whistler British Columbia V0N 1B0
Canada

CC: Barry Hanslit
Caoimhe Peat

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	93	Crush, split and pulverize 250 g rock to 200 mesh			WHI
AQ252_EXT	93	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	30	Completed	VAN
SHP01	93	Per sample shipping charges for branch shipments			VAN
MA370	13	4-Acid Digestion ICP-ES Finish	0.5	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Bureau Veritas Commodities Canada Ltd.

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Client: Zinex Mining Corp.
Box 997
Whistler British Columbia V0N 1B0 Canada

Project: Adanac
Report Date: July 27, 2017

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CERTIFICATE OF ANALYSIS

WHI17000228.1

Method Analyte Unit MDL		WGHT	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
1532101	Rock	0.45	0.38	603.08	13.85	47.6	2045	22.2	21.1	281	4.76	9.8	0.3	6.0	2.8	58.8	0.39	0.38	7.65	24	1.23
1532102	Rock	0.49	0.34	38.86	3.53	49.4	168	1831.5	87.9	1133	4.13	47.2	<0.1	0.6	<0.1	1.5	0.19	0.36	0.43	8	0.08
1532103	Rock	0.86	2.77	33.40	7.84	30.1	43	3.7	0.6	69	0.77	1.5	5.9	0.5	27.4	3.4	0.15	0.38	0.22	<2	0.18
1532104	Rock	0.67	18.80	140.51	6.83	59.7	304	28.6	10.8	334	3.22	2.7	1.2	3.6	5.9	138.0	0.37	0.15	0.62	43	1.09
1532105	Rock	0.48	1.86	60.93	2.52	18.3	81	20.9	7.5	133	1.01	3.4	<0.1	1.7	0.1	43.6	0.12	0.14	0.19	31	1.76
1532106	Rock	0.53	88.21	24.08	14.86	98.2	322	36.0	8.7	602	2.53	4.4	0.3	33.4	0.2	36.5	0.58	0.23	0.73	135	1.33
1532107	Rock	0.45	0.74	51.68	31.82	41.9	730	1.0	0.3	39	1.24	10.0	4.1	1.5	18.5	2.1	0.01	0.44	3.18	2	0.24
1532108	Rock	0.62	225.53	34.22	5.82	30.4	167	10.3	4.4	152	0.84	2.4	<0.1	1.6	0.1	32.4	0.48	0.20	0.43	47	1.48
1532109	Rock	0.41	18.35	40.61	19.05	61.0	770	18.4	4.9	236	1.01	4.6	<0.1	484.2	<0.1	8.6	0.66	0.72	23.45	29	0.15
1532110	Rock	0.40	16.17	53.31	5.48	40.6	234	27.4	8.9	333	1.75	2.8	<0.1	6.3	0.1	48.4	0.26	0.17	0.75	71	1.97
1532111	Rock	0.88	2.77	11.93	16.96	63.1	288	11.9	3.1	202	0.85	2.5	<0.1	71.8	<0.1	20.0	0.46	0.46	2.42	33	0.14
1532112	Rock	0.31	0.91	49.09	3.39	7926.9	370	2.5	16.3	>10000	9.03	2.1	0.3	5.9	0.1	5.2	122.97	0.25	23.17	<2	9.77
1532113	Rock	1.00	3.52	10.64	14.68	13.7	174	1.4	0.3	34	0.36	278.5	0.8	1.8	1.8	2.0	0.48	2.51	3.23	<2	0.03
1532114	Rock	0.65	9.77	60.14	424.85	39.1	9060	1.4	0.3	332	0.90	142.1	2.4	4.9	26.3	1.6	0.53	0.71	4.78	<2	0.10
1532115	Rock	0.46	4.55	95.24	21.68	64.9	462	5.5	0.6	161	1.88	563.4	7.1	0.9	48.5	4.5	1.15	4.22	1.98	<2	0.03
1532116	Rock	0.33	2.63	18.07	9.35	14.2	137	1.1	0.2	37	0.59	16.5	1.9	1.6	19.0	3.5	0.11	2.49	2.31	<2	0.03
1532117	Rock	0.51	0.20	1.62	1.43	11.3	24	2.7	0.1	18	0.03	2.4	1.6	<0.2	0.2	350.9	0.25	0.10	0.03	2	37.64
1532118	Rock	0.68	0.40	1.77	1.30	3.5	15	1.7	0.3	29	0.28	1.3	<0.1	<0.2	<0.1	1.2	0.03	0.16	0.04	<2	0.06
1532119	Rock	0.59	0.25	7.50	3.81	35.4	28	7.6	7.8	288	1.84	2.8	0.5	<0.2	6.9	34.4	0.06	0.12	0.06	41	0.97
1532120	Rock	0.45	0.32	22.56	8.75	62.7	40	31.6	16.6	674	3.96	5.1	0.3	4.5	2.1	101.5	0.11	0.29	0.09	81	2.65
1532121	Rock	0.34	0.62	1.76	1.05	10.7	54	6.3	0.3	17	0.05	2.2	3.6	<0.2	0.2	257.9	0.12	0.10	<0.02	15	36.89
1532122	Rock	1.03	0.03	1.16	0.46	7.3	5	1.1	0.2	12	0.02	1.6	1.2	<0.2	<0.1	277.0	0.58	0.13	<0.02	<2	39.48
1532123	Rock	0.54	0.14	139.51	1.03	126.2	271	25.6	9.4	77	2.08	10.9	0.4	1.5	0.1	18.8	5.60	2.63	0.03	37	25.62
1532124	Rock	0.43	0.21	21.80	3.30	29.2	27	11.5	3.4	202	1.16	1.1	0.2	<0.2	2.2	3.9	0.02	0.05	0.10	6	0.12
1994001	Drill Core	3.53	9.49	90.37	2.81	96.1	158	46.1	10.7	258	2.78	2.7	1.0	<0.2	2.2	41.3	0.91	0.13	0.34	117	0.28
1994002	Drill Core	3.05	1.67	94.70	2.00	72.4	105	26.9	13.1	377	3.05	1.1	0.4	0.8	1.2	26.5	0.10	0.07	0.14	111	0.85
1994003	Drill Core	3.36	2.75	82.24	2.64	45.0	97	21.7	10.5	2107	2.23	2.0	0.5	<0.2	0.8	251.4	0.27	0.22	0.13	70	12.08
1994004	Drill Core	2.35	0.73	56.25	2.03	35.7	69	15.8	5.9	223	1.26	0.8	0.4	<0.2	1.9	49.8	0.18	0.10	0.05	51	1.27
1994005	Drill Core	2.40	0.44	43.08	1.46	61.3	47	21.3	5.8	232	1.86	0.4	0.3	<0.2	2.8	10.5	0.03	0.04	0.06	45	0.20
1994006	Drill Core	2.75	4.36	85.82	4.08	46.6	185	28.3	6.9	637	1.69	0.5	0.8	0.3	2.3	63.5	0.18	0.17	0.18	56	3.07



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CERTIFICATE OF ANALYSIS

WHI17000228.1

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					P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge	
					%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
					0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.1
1532101	Rock																								
1532102	Rock																								
1532103	Rock																								
1532104	Rock																								
1532105	Rock																								
1532106	Rock																								
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1532122	Rock																								
1532123	Rock																								
1532124	Rock																								
1994001	Drill Core																								
1994002	Drill Core																								
1994003	Drill Core																								
1994004	Drill Core																								
1994005	Drill Core																								
1994006	Drill Core																								



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CERTIFICATE OF ANALYSIS

WHI17000228.1

	Method	Analyte	Unit	MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	MA370	MA370	MA370	MA370		
					Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Mo	Pb	Ag	W
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	%	gm/t	%
					0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.001	0.02	2	0.01
1532101	Rock																					
1532102	Rock																					
1532103	Rock																					
1532104	Rock																					
1532105	Rock																					
1532106	Rock																					
1532107	Rock																					
1532108	Rock												*									
1532109	Rock																					
1532110	Rock																					
1532111	Rock																					
1532112	Rock												*			<0.001	<0.02	<2	0.09			
1532113	Rock																					
1532114	Rock																					
1532115	Rock																					
1532116	Rock																					
1532117	Rock																					
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1532119	Rock																					
1532120	Rock																					
1532121	Rock																					
1532122	Rock																					
1532123	Rock																					
1532124	Rock																					
1994001	Drill Core																					
1994002	Drill Core																					
1994003	Drill Core																					
1994004	Drill Core																					
1994005	Drill Core																					
1994006	Drill Core																					



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	Method	Analyte	Unit	MDL	WGHT	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252			
					Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
					kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
					0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
1994007	Drill Core	2.77	16.64	95.86	3.60	98.3	205	64.4	12.9	221	2.92	<0.1	2.1	0.6	3.3	15.3	0.73	0.15	0.33	132	0.23			
1994008	Drill Core	2.39	2.73	71.49	4.40	152.0	250	70.2	20.1	570	2.95	<0.1	1.1	0.6	4.1	24.9	0.44	0.45	0.36	133	0.43			
1994009	Drill Core	2.37	4.46	79.06	2.84	79.2	123	26.3	8.8	281	2.28	<0.1	0.8	<0.2	2.9	9.5	0.09	0.12	0.18	32	0.48			
1994010	Drill Core	4.07	2.62	55.11	3.92	45.9	118	31.1	16.4	320	2.62	2.5	0.4	<0.2	1.5	203.9	0.17	0.74	0.16	77	1.84			
1994011	Drill Core	2.71	5.88	82.60	6.75	71.5	158	31.0	10.6	251	1.62	4.3	1.2	0.7	3.6	17.4	0.43	1.63	0.24	62	0.36			
1994012	Drill Core	3.24	0.67	81.92	4.49	42.6	120	20.4	7.3	198	1.42	1.8	0.5	<0.2	3.2	16.0	0.16	0.62	0.14	45	0.30			
1994013	Drill Core	3.90	2.58	64.47	2.59	62.4	92	23.4	5.6	151	1.04	1.0	0.7	0.4	2.9	19.6	0.96	0.22	0.11	56	0.34			
1994014	Drill Core	3.66	0.60	12.03	1.51	12.4	21	7.3	1.8	79	0.41	0.5	0.8	0.4	3.1	53.2	0.12	0.19	<0.02	16	0.37			
1994015	Drill Core	3.38	0.24	9.35	4.86	22.6	47	5.7	2.0	100	0.49	0.6	0.5	0.5	1.9	55.7	0.49	0.21	<0.02	34	0.52			
1994016	Drill Core	4.69	0.58	21.62	41.42	65.9	198	23.8	5.8	443	0.87	1.6	1.2	<0.2	1.2	534.9	2.51	0.29	0.11	49	15.42			
1532622	Rock	1.22	23.01	84.03	2445.36	653.8	32807	1.5	0.4	112	1.03	4912.2	29.6	45.0	4.7	4.1	75.14	40.35	5.36	<2	0.08			
1532623	Rock	1.60	0.16	2.84	2.73	26.6	94	1857.0	88.0	722	4.53	34.6	<0.1	39.8	<0.1	2.3	0.10	0.43	0.41	9	0.07			
1532624	Rock	1.77	154.65	27.60	52.86	17.3	1542	3.1	0.3	41	0.67	25.6	3.1	2.7	17.9	1.2	0.42	12.65	45.55	<2	0.12			
1532625	Rock	1.69	1504.41	15.95	71.08	21.4	2178	3.8	0.4	36	0.43	32.9	3.0	3.6	15.5	1.5	2.38	8.08	40.47	<2	0.22			
1532626	Rock	0.66	25.13	32.23	177.72	24.8	4776	1.2	0.3	43	0.65	54.9	4.4	2.8	17.4	1.5	0.32	45.79	40.44	<2	0.28			
1532627	Rock	2.02	40.49	12.54	38.06	10.7	351	1.4	0.4	53	0.52	48.7	4.9	1.7	21.9	<0.5	0.06	8.99	7.33	<2	0.02			
1532628	Rock	3.57	944.81	854.14	5687.58	87.7	>100000	1.3	3.7	171	4.21	>10000	21.2	1613.5	21.7	1.7	7.09	322.86	370.30	<2	0.04			
1532629	Rock	1.63	>2000	42.72	1614.40	16.5	20530	1.2	0.2	47	0.70	1361.0	4.8	19.0	20.5	<0.5	3.26	15.33	74.29	<2	<0.01			
1532630	Rock	1.30	15.30	66.40	83.24	67.2	663	1.1	0.9	63	0.91	59.7	11.6	1.5	24.6	1.3	0.15	2.97	3.68	2	0.03			
1532631	Rock	1.47	5.88	23.15	15.59	62.6	77	1.4	1.6	193	1.21	6.3	7.8	0.3	29.5	2.9	0.24	1.11	0.70	5	0.14			
1532632	Rock	1.65	3.21	497.81	5689.54	69.3	67921	1.5	0.3	49	0.75	3531.2	2.0	1.3	1.6	3.6	2.86	26.97	1.59	2	0.05			
1532633	Rock	2.09	10.01	33.10	9.67	13.9	356	0.8	0.5	100	0.85	14.2	4.0	1.1	26.4	1.4	<0.01	1.06	13.54	<2	0.40			
1532634	Rock	1.70	0.63	2.30	30.74	33.3	210	1.0	0.3	154	0.83	15.5	16.0	<0.2	49.7	2.3	0.16	0.50	0.22	<2	0.03			
1532845	Rock	1.74	12.61	400.42	1161.05	237.9	33651	1.0	0.4	43	1.04	309.6	18.5	38.0	23.9	0.6	1.68	9.03	8.18	<2	<0.01			
1532846	Rock	1.49	260.05	48.19	1991.57	1377.5	29106	1.4	2.2	3371	2.98	860.0	22.2	8.8	32.5	9.5	15.10	13.24	25.72	5	0.10			
1532847	Rock	1.10	4.68	6.64	180.60	57.5	852	0.9	0.2	52	0.77	94.3	7.2	1.9	34.2	0.8	0.20	0.74	0.11	<2	0.01			
1532848	Rock	1.45	23.09	40.14	2378.51	107.1	16330	1.6	0.3	68	0.84	1701.2	11.4	38.1	11.0	1.5	1.03	17.24	1.91	<2	<0.01			
1532849	Rock	1.51	3.95	10.15	288.45	157.5	8445	1.1	0.3	900	0.63	420.3	6.4	40.2	6.7	2.7	1.71	10.24	0.14	<2	<0.01			
1532850	Rock	1.32	13.70	29.20	22.58	22.2	717	1.2	0.3	61	0.48	8.5	7.8	<0.2	24.3	1.6	0.17	2.97	28.91	<2	0.14			
1532851	Rock	1.27	36.94	48.49	25.88	33.2	661	0.8	0.4	40	0.73	8.5	8.8	0.7	34.7	1.1	0.20	1.12	11.72	<2	0.05			



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					P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge
					%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
					0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1
1994007	Drill Core	0.066	8.8	78.1	0.82	85.9	0.149	<1	1.29	0.048	0.85	0.8	10.8	0.57	0.82	<5	3.2	0.22	7.5	17.29	0.1			
1994008	Drill Core	0.025	11.3	64.9	0.85	154.5	0.151	1	1.22	0.075	0.72	0.2	10.4	0.48	0.81	<5	2.6	0.35	6.3	8.07	0.1			
1994009	Drill Core	0.024	4.5	24.3	0.80	210.2	0.113	<1	1.28	0.025	0.83	<0.1	3.6	0.42	0.66	<5	1.4	0.11	4.4	3.88	<0.1			
1994010	Drill Core	0.095	5.3	116.9	1.33	179.8	0.182	2	2.59	0.263	0.72	0.2	7.0	0.55	0.25	<5	0.4	0.06	7.0	17.04	<0.1			
1994011	Drill Core	0.023	9.1	52.7	0.44	369.7	0.128	1	0.60	0.065	0.42	0.3	3.8	0.37	0.16	15	0.5	0.07	3.6	5.50	<0.1			
1994012	Drill Core	0.027	10.3	47.6	0.46	380.7	0.124	1	0.50	0.061	0.43	0.2	3.0	0.30	0.06	<5	<0.1	0.05	3.0	4.34	<0.1			
1994013	Drill Core	0.017	5.8	52.8	0.26	130.3	0.091	<1	0.42	0.058	0.26	0.2	3.1	0.19	0.14	<5	0.3	0.06	2.3	2.74	<0.1			
1994014	Drill Core	0.010	10.1	29.1	0.10	237.6	0.087	<1	0.12	0.061	0.04	0.2	1.0	0.05	<0.02	<5	<0.1	<0.02	0.7	0.65	<0.1			
1994015	Drill Core	0.012	6.3	28.3	0.21	110.1	0.120	<1	0.14	0.073	<0.01	0.1	1.7	<0.02	0.02	<5	<0.1	0.02	0.8	0.06	<0.1			
1994016	Drill Core	0.188	7.7	37.4	0.64	278.4	0.082	<1	0.33	0.083	0.12	0.2	2.6	0.10	<0.02	<5	<0.1	0.04	1.3	1.78	<0.1			
1532622	Rock	<0.001	14.7	36.3	<0.01	25.1	<0.001	2	0.07	0.002	0.05	1.5	0.1	0.32	0.07	35	0.2	0.08	0.8	0.84	<0.1			
1532623	Rock	<0.001	<0.5	278.0	18.39	2.8	0.002	22	0.19	0.003	0.02	0.7	7.6	0.08	<0.02	<5	<0.1	0.07	0.5	1.46	0.2			
1532624	Rock	0.002	26.3	11.6	0.05	11.8	0.002	3	0.33	0.012	0.21	40.1	0.5	0.31	0.02	5	0.2	1.20	2.6	0.61	<0.1			
1532625	Rock	0.002	25.5	14.7	0.05	12.9	0.003	3	0.30	0.024	0.17	23.8	0.6	0.37	0.09	8	0.5	1.55	2.1	0.95	<0.1			
1532626	Rock	0.002	21.3	10.2	0.03	13.6	0.005	4	0.38	0.025	0.20	23.3	0.7	0.34	0.05	<5	<0.1	0.50	3.4	1.23	0.1			
1532627	Rock	0.002	18.9	15.8	0.02	9.3	0.007	2	0.29	0.019	0.18	85.6	0.5	0.44	<0.02	<5	<0.1	0.24	3.3	2.49	<0.1			
1532628	Rock	<0.001	9.7	14.3	<0.01	26.7	<0.001	2	0.14	0.003	0.13	>100	0.5	0.89	0.99	*	3.5	4.91	1.5	0.66	<0.1			
1532629	Rock	<0.001	9.5	12.7	<0.01	12.2	0.001	2	0.21	0.003	0.23	98.2	0.4	0.56	0.20	15	0.7	0.89	1.5	1.13	<0.1			
1532630	Rock	0.007	34.6	8.4	0.04	15.9	0.013	2	0.52	0.025	0.20	1.1	1.1	0.39	<0.02	<5	<0.1	0.16	3.3	3.16	<0.1			
1532631	Rock	0.013	39.4	9.5	0.12	35.1	0.044	<1	0.74	0.037	0.28	1.5	2.2	0.64	<0.02	<5	0.1	<0.02	5.9	6.04	0.1			
1532632	Rock	0.003	13.0	4.8	0.02	80.5	0.002	<1	0.19	0.003	0.13	6.0	0.7	0.45	0.09	5	0.2	<0.02	1.5	0.70	<0.1			
1532633	Rock	0.002	38.9	2.1	<0.01	31.1	0.008	<1	0.67	0.009	0.43	6.8	0.7	1.24	<0.02	<5	0.2	0.39	5.3	3.35	0.2			
1532634	Rock	<0.001	13.7	2.7	0.11	12.3	0.011	<1	0.51	0.047	0.16	0.7	0.9	0.34	<0.02	<5	0.2	<0.02	3.8	5.74	<0.1			
1532845	Rock	<0.001	25.2	11.1	<0.01	6.2	<0.001	2	0.18	0.001	0.17	1.4	0.2	0.43	<0.02	8	0.2	0.05	1.3	1.09	<0.1			
1532846	Rock	0.003	38.7	5.1	0.04	26.6	0.005	3	0.32	0.007	0.18	2.3	0.5	1.03	<0.02	32	1.4	4.29	3.3	3.91	0.2			
1532847	Rock	<0.001	19.4	2.1	0.03	8.0	<0.001	2	0.27	0.017	0.13	1.3	0.3	0.34	0.09	<5	<0.1	<0.02	2.1	1.12	<0.1			
1532848	Rock	<0.001	31.5	3.4	<0.01	11.5	<0.001	3	0.22	0.002	0.18	0.8	0.3	0.73	0.22	26	0.8	0.05	2.4	2.31	<0.1			
1532849	Rock	0.002	4.5	3.5	<0.01	10.8	<0.001	1	0.16	<0.001	0.15	2.8	0.2	0.61	<0.02	5	<0.1	<0.02	1.4	2.55	<0.1			
1532850	Rock	0.003	38.9	2.6	0.04	7.9	0.003	1	0.32	0.025	0.12	12.8	0.5	0.18	<0.02	<5	0.2	0.96	2.0	0.79	<0.1			
1532851	Rock	0.002	27.9	1.8	0.03	5.0	0.002	<1	0.28	0.028	0.10	94.5	0.5	0.17	<0.02	12	0.3	0.45	2.0	1.06	<0.1			



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CERTIFICATE OF ANALYSIS

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	Method	Analyte	Unit	MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	MA370	MA370	MA370	MA370			
					Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Mo	Pb	Ag	W
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	%	gm/t	%
					0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.001	0.02	2	0.01
1994007	Drill Core	0.23	0.10	58.4	1.3	<0.05	9.3	6.30	17.5	0.07	32	0.4	38.8	<10	<2							
1994008	Drill Core	0.16	0.08	43.5	1.3	<0.05	6.2	9.31	18.7	0.07	8	0.1	20.8	<10	<2							
1994009	Drill Core	0.08	0.04	41.9	0.6	<0.05	3.1	3.61	10.2	0.02	5	0.4	27.4	<10	<2							
1994010	Drill Core	0.11	0.04	50.0	0.9	<0.05	3.1	6.44	10.9	0.03	5	0.5	40.4	<10	<2							
1994011	Drill Core	0.13	0.14	35.7	2.5	<0.05	4.5	7.39	17.2	0.03	9	0.4	23.0	<10	<2							
1994012	Drill Core	0.09	0.14	31.9	1.4	<0.05	3.1	7.91	19.9	0.03	1	0.6	16.7	<10	<2							
1994013	Drill Core	0.08	0.16	20.5	0.7	<0.05	2.8	5.05	11.2	0.03	4	0.2	10.0	<10	<2							
1994014	Drill Core	0.15	0.27	4.3	0.6	<0.05	6.1	7.46	18.3	<0.02	<1	0.3	2.3	<10	<2							
1994015	Drill Core	0.17	0.26	0.5	1.6	<0.05	6.1	6.30	12.4	<0.02	<1	0.2	0.8	<10	<2							
1994016	Drill Core	0.17	0.22	10.7	4.8	<0.05	7.2	10.50	10.9	<0.02	2	0.5	4.2	<10	<2							
1532622	Rock	0.02	0.89	11.8	7.5	<0.05	0.5	31.22	14.9	0.22	<1	0.4	0.5	*	<2							
1532623	Rock	<0.02	<0.02	6.4	0.9	<0.05	<0.1	0.27	0.2	0.03	<1	0.4	3.3	<10	2							
1532624	Rock	0.50	4.85	29.6	2.0	<0.05	12.3	20.08	51.2	0.09	<1	0.3	6.5	<10	<2							
1532625	Rock	0.76	5.29	28.7	1.9	<0.05	18.7	40.76	48.1	<0.02	2	0.3	5.0	*	<2							
1532626	Rock	0.87	8.25	31.4	2.3	<0.05	21.7	29.85	38.9	0.13	<1	0.5	4.7	<10	<2							
1532627	Rock	0.55	4.97	43.9	2.4	<0.05	14.2	16.93	40.5	<0.02	<1	0.4	19.8	<10	<2							
1532628	Rock	0.20	3.58	20.8	9.1	<0.05	6.4	5.40	16.5	4.62	5	<0.1	2.0	*	<2	0.091	0.55	106	0.17			
1532629	Rock	0.34	4.00	43.3	9.3	<0.05	8.7	5.36	17.7	0.26	7	0.3	2.9	*	<2	0.234	0.16	21	0.02			
1532630	Rock	0.44	1.17	42.2	1.7	<0.05	12.3	31.49	70.6	0.03	<1	0.4	9.1	<10	<2							
1532631	Rock	0.32	2.15	60.2	2.5	<0.05	7.1	36.65	71.4	0.02	<1	0.6	28.4	<10	<2							
1532632	Rock	<0.02	0.08	25.0	64.3	<0.05	0.3	1.65	23.4	0.37	<1	0.3	6.1	<10	<2							
1532633	Rock	0.98	6.14	95.3	10.5	<0.05	26.0	40.06	69.9	0.07	<1	0.5	18.5	<10	<2							
1532634	Rock	0.07	2.06	43.8	1.9	<0.05	2.2	35.63	62.2	0.02	<1	2.3	16.1	<10	<2							
1532845	Rock	0.04	1.91	35.2	5.6	<0.05	1.0	13.74	53.6	0.15	<1	1.5	0.7	<10	<2							
1532846	Rock	0.11	1.48	34.9	32.3	<0.05	3.7	37.16	78.4	0.54	<1	5.2	1.8	<10	<2							
1532847	Rock	0.20	1.96	22.1	0.8	<0.05	6.0	30.47	30.9	<0.02	<1	0.7	0.9	<10	<2							
1532848	Rock	0.18	0.75	30.2	8.6	<0.05	6.0	5.02	39.2	0.17	<1	0.4	1.1	<10	<2							
1532849	Rock	0.03	0.42	33.0	2.2	<0.05	0.9	5.16	19.8	<0.02	<1	0.3	0.8	<10	<2							
1532850	Rock	0.41	5.15	17.5	1.1	<0.05	8.9	56.68	69.6	<0.02	<1	0.5	3.7	<10	<2							
1532851	Rock	0.46	3.22	16.4	1.0	<0.05	11.4	54.21	55.1	<0.02	<1	0.5	3.2	<10	<2							



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CERTIFICATE OF ANALYSIS

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	Method	Analyte	Unit	MDL	WGHT	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252			
					Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
					kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
					0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
1532852	Rock				1.73	11.40	36.72	7.32	27.4	87	0.9	0.5	55	1.02	4.9	3.4	0.7	20.5	2.0	0.02	0.53	3.11	2	0.31
1532853	Rock				1.47	14.47	215.51	9527.33	94.5	33623	0.9	0.2	52	2.19	>10000	20.2	469.9	23.7	10.4	2.77	159.69	27.60	<2	<0.01
1532854	Rock				1.28	3.43	37.04	21.35	23.8	210	0.9	0.5	65	0.84	21.0	7.8	3.6	31.8	2.2	0.05	1.49	1.33	<2	0.08
1532855	Rock				0.92	38.09	42.01	52.29	82.5	250	1.2	0.4	41	0.68	44.1	6.6	1.1	24.8	1.4	0.13	1.73	0.71	<2	0.09
1532856	Rock				1.44	10.86	14.38	307.92	20.8	1527	1.0	0.2	29	0.64	347.2	4.2	4.8	16.0	2.5	0.28	2.20	1.69	<2	<0.01
1532857	Rock				1.68	29.27	29.22	20.48	58.9	64	1.0	0.4	53	0.40	8.6	10.8	<0.2	37.0	1.5	0.12	1.01	1.49	<2	0.14
1532858	Rock				2.01	51.13	23.88	27.04	17.0	186	0.9	0.2	33	0.36	7.2	8.9	<0.2	33.5	0.9	0.07	1.52	7.53	<2	0.09
1532859	Rock				2.23	1.74	70.20	4854.25	82.8	18443	2.4	0.5	90	1.54	4492.6	1.9	3.6	1.4	9.0	2.16	18.12	1.02	6	<0.01
1532860	Rock				1.78	4.54	123.05	>10000	276.3	17268	6.0	1.1	91	4.31	>10000	4.2	10.2	1.5	34.6	13.21	64.47	0.91	6	0.03
1532861	Rock				1.39	37.61	355.08	6471.04	56.5	68306	1.3	0.2	136	3.13	9831.9	80.1	340.8	22.8	6.5	18.08	1440.43	58.61	<2	0.04
1532862	Rock				1.95	4.56	71.15	42.02	6.8	1747	0.8	0.2	53	0.86	44.9	4.6	2.3	46.2	1.6	0.08	1.46	3.12	<2	0.06
1532863	Rock				1.98	12.25	1150.51	>10000	106.6	>100000	2.0	0.5	65	2.03	>10000	10.4	103.1	8.5	1.3	2.83	94.38	1.14	<2	0.02
1532864	Rock				1.73	1.49	244.54	1737.05	5372.9	10021	2.7	5.3	2189	3.06	45.1	13.4	<0.2	15.2	37.2	130.04	3.13	5.83	5	3.33
1532865	Rock				2.71	1.22	6.21	1864.07	192.8	13974	1.1	0.3	50	0.50	10.0	5.4	<0.2	25.2	3.0	0.55	2.79	25.58	<2	0.25
1532921	Rock				1.90	3.35	5.06	3.66	26.1	47	16.9	3.3	224	0.83	14.9	0.5	1.2	0.2	213.2	0.86	1.04	0.05	10	34.29
1532923	Rock				2.29	37.91	4285.00	94.82	19.8	8970	1.3	6.8	46	6.68	>10000	25.9	1593.4	18.6	0.7	0.81	315.56	13.68	<2	0.06
1532924	Rock				2.30	1316.37	130.31	17.94	42.0	336	1.4	1.0	207	1.21	302.2	10.3	6.6	22.5	2.3	1.50	1.90	31.04	7	0.26
1532925	Rock				4.35	71.25	111.26	1503.51	7.0	68225	1.3	0.3	324	0.59	3650.8	4.2	255.9	5.4	0.6	1.45	322.31	>2000	<2	0.03
1532926	Rock				2.11	13.57	520.02	679.05	53.2	20945	1.9	0.7	181	0.81	4237.2	6.2	148.4	2.5	<0.5	1.89	105.64	322.33	<2	<0.01
1532927	Rock				2.54	11.25	19.86	91.94	12.9	1575	1.2	0.2	542	0.49	77.9	4.6	0.6	4.7	0.7	0.28	4.63	13.23	<2	0.02
1532928	Rock				2.55	>2000	59.81	1861.99	37.0	15183	1.2	0.3	59	0.59	627.1	28.0	46.2	8.1	0.9	7.09	6.80	12.52	<2	0.01
1532929	Rock				1.87	8.97	12.48	7.06	8.2	148	1.3	0.3	44	0.34	7.1	1.1	2.5	2.1	<0.5	0.03	0.80	15.37	<2	0.03
1532930	Rock				3.10	237.58	93.33	250.13	513.2	2070	3.7	0.6	274	15.27	2243.9	27.0	2.2	72.3	5.2	3.01	16.80	5.54	3	0.05
1532931	Rock				3.64	9.35	137.83	24.50	11.7	783	0.9	1.6	996	1.76	146.9	3.5	91.6	14.5	2.4	0.07	7.96	44.06	<2	0.79
1532932	Rock				5.00	95.31	22.92	200.30	49.1	2326	1.1	0.4	92	0.87	92.3	7.6	3.8	20.0	3.7	0.34	6.04	4.21	<2	0.45
1532933	Rock				1.40	22.34	1812.03	>10000	802.7	>100000	3.9	1.8	303	13.71	>10000	98.2	317.7	98.1	62.4	77.44	829.68	8.03	4	0.08
1532934	Rock				1.16	5.15	170.30	>10000	159.9	17116	1.4	0.5	87	2.04	6954.4	10.0	5.1	25.0	15.1	5.86	54.95	2.69	<2	0.04
1532935	Rock				1.38	1.15	41.75	60.42	67.3	202	1.1	0.5	67	1.11	36.3	5.4	1.1	28.9	2.0	0.32	0.50	5.92	<2	0.05
1532936	Rock				1.33	11.86	17.69	85.11	194.3	520	28.2	5.4	652	2.83	51.8	11.3	8.3	25.6	4.7	1.10	0.65	20.88	12	0.19
1532937	Rock				3.33	6.14	2.28	44.69	151.7	301	11.6	2.8	274	2.59	8.6	4.9	<0.2	20.2	6.3	1.74	0.38	0.75	4	0.20



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					P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge
					%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
					0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1
1532852	Rock																							
1532853	Rock																							
1532854	Rock																							
1532855	Rock																							
1532856	Rock																							
1532857	Rock																							
1532858	Rock																							
1532859	Rock																							
1532860	Rock																							
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Whistler British Columbia V0N 1B0 Canada

Project: Adanac
Report Date: July 27, 2017

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CERTIFICATE OF ANALYSIS

WHI17000228.1

	Method	Analyte	Unit	MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	MA370	MA370	MA370	MA370		
					Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Mo	Pb	Ag	W
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	%	gm/t	%
					0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.001	0.02	2	0.01
1532852	Rock																					
1532853	Rock																					
1532854	Rock																					
1532855	Rock																					
1532856	Rock																					
1532857	Rock																					
1532858	Rock																					
1532859	Rock																					
1532860	Rock																					
1532861	Rock																					
1532862	Rock																					
1532863	Rock																					
1532864	Rock																					
1532865	Rock																					
1532921	Rock																					
1532923	Rock																					
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1532934	Rock																					
1532935	Rock																					
1532936	Rock																					
1532937	Rock																					



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CERTIFICATE OF ANALYSIS

WHI17000228.1

	Method Analyte Unit MDL	WGHT	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
1532938	Rock	1.77	0.94	18.08	13.29	73.5	131	6.9	22.8	1101	5.28	18.2	1.0	<0.2	1.2	325.7	0.26	0.42	0.12	146	4.03
1532939	Rock	1.87	5.06	4.72	861.01	565.4	1380	42.2	5.5	615	1.19	21.2	0.9	<0.2	0.8	2.8	3.77	1.30	0.32	14	0.11
1994050	Drill Core	1.07	5.55	168.56	31.78	180.6	492	284.2	29.9	3873	4.14	18.9	3.0	0.5	4.7	34.1	5.75	0.88	0.60	97	1.19



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CERTIFICATE OF ANALYSIS

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	Method	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
	MDL	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1
1532938	Rock	0.158	15.7	32.0	2.26	495.4	0.063	2	3.81	0.362	0.20	<0.1	19.5	0.25	0.02	<5	<0.1	<0.02	9.2	8.86	0.1
1532939	Rock	0.013	4.6	40.4	0.69	26.9	0.015	<1	0.55	0.007	0.46	0.2	3.5	2.84	<0.02	<5	<0.1	<0.02	3.7	9.94	<0.1
1994050	Drill Core	0.285	41.4	103.0	2.17	301.7	0.082	2	2.08	0.046	0.23	2.1	7.6	0.54	<0.02	11	1.4	0.11	7.4	3.32	0.2



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CERTIFICATE OF ANALYSIS

WHI17000228.1

	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	MA370	MA370	MA370	MA370
		Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Mo	Pb	Ag	W
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	%	gm/t	%
		0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.001	0.02	2	0.01
1532938	Rock	0.08	0.03	18.8	1.2	<0.05	3.0	25.41	30.3	0.06	<1	0.6	73.2	<10	<2				
1532939	Rock	0.04	0.17	129.9	1.9	<0.05	1.5	4.77	7.5	<0.02	<1	0.7	66.1	<10	<2				
1994050	Drill Core	0.17	0.07	16.1	0.9	<0.05	8.4	60.06	21.5	0.05	1	1.3	17.5	<10	5				



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QUALITY CONTROL REPORT

WHI17000228.1

Method	Analyte	Unit	MDL	WGHT	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252		
				Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
				kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
				0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
Pulp Duplicates																							
1994003	Drill Core	3.36	2.75	82.24	2.64	45.0	97	21.7	10.5	2107	2.23	2.0	0.5	<0.2	0.8	251.4	0.27	0.22	0.13	70	12.08		
REP 1994003	QC		2.80	80.21	2.61	44.2	96	19.7	10.5	2090	2.24	2.1	0.5	<0.2	0.7	251.7	0.29	0.22	0.14	69	12.05		
1532628	Rock	3.57	944.81	854.14	5687.58	87.7	>100000	1.3	3.7	171	4.21	>10000	21.2	1613.5	21.7	1.7	7.09	322.86	370.30	<2	0.04		
REP 1532628	QC																						
1532849	Rock	1.51	3.95	10.15	288.45	157.5	8445	1.1	0.3	900	0.63	420.3	6.4	40.2	6.7	2.7	1.71	10.24	0.14	<2	<0.01		
REP 1532849	QC		4.11	9.89	285.67	170.6	8399	1.2	0.3	943	0.63	424.0	6.6	42.0	7.0	2.8	1.86	10.74	0.14	<2	<0.01		
1532933	Rock	1.40	22.34	1812.03	>10000	802.7	>100000	3.9	1.8	303	13.71	>10000	98.2	317.7	98.1	62.4	77.44	829.68	8.03	4	0.08		
REP 1532933	QC																						
1532936	Rock	1.33	11.86	17.69	85.11	194.3	520	28.2	5.4	652	2.83	51.8	11.3	8.3	25.6	4.7	1.10	0.65	20.88	12	0.19		
REP 1532936	QC		12.12	17.18	80.89	185.0	519	27.2	5.2	642	2.84	51.5	11.3	9.1	25.4	4.6	1.05	0.61	20.64	13	0.19		
1994050	Drill Core	1.07	5.55	168.56	31.78	180.6	492	284.2	29.9	3873	4.14	18.9	3.0	0.5	4.7	34.1	5.75	0.88	0.60	97	1.19		
REP 1994050	QC		5.68	167.15	31.41	180.0	507	285.8	29.2	3826	4.13	19.5	3.0	1.0	4.9	34.5	5.53	0.88	0.59	95	1.18		
Core Reject Duplicates																							
1994008	Drill Core	2.39	2.73	71.49	4.40	152.0	250	70.2	20.1	570	2.95	<0.1	1.1	0.6	4.1	24.9	0.44	0.45	0.36	133	0.43		
DUP 1994008	QC		2.69	76.13	4.49	163.7	261	73.9	20.1	535	2.95	<0.1	1.1	0.6	4.3	23.6	0.43	0.49	0.38	132	0.42		
1532857	Rock	1.68	29.27	29.22	20.48	58.9	64	1.0	0.4	53	0.40	8.6	10.8	<0.2	37.0	1.5	0.12	1.01	1.49	<2	0.14		
DUP 1532857	QC		30.54	29.62	21.09	65.5	69	1.3	0.4	54	0.45	6.4	11.4	<0.2	36.7	1.6	0.15	0.96	1.54	<2	0.13		
Reference Materials																							
STD CDN-ME-14	Standard																						
STD CDN-ME-9	Standard																						
STD CDN-ME-14	Standard																						
STD CDN-ME-9	Standard																						
STD DS10	Standard		15.22	157.85	156.71	372.8	1795	79.3	13.3	884	2.77	44.4	2.9	74.6	8.4	70.5	2.44	8.97	13.07	43	1.09		
STD DS10	Standard		15.46	156.59	148.23	355.7	1844	77.1	13.6	907	2.84	47.1	2.6	84.4	7.4	68.1	2.72	7.91	11.94	44	1.10		
STD DS10	Standard		15.31	153.56	148.35	347.4	1846	72.6	12.3	870	2.78	44.7	2.7	72.2	7.5	67.3	2.50	8.13	12.34	43	1.08		
STD DS10	Standard		15.75	159.28	151.43	352.7	1866	81.7	14.4	873	2.77	44.0	2.7	75.7	7.4	67.9	2.76	8.28	12.58	44	1.10		
STD OXC129	Standard		1.32	27.46	6.20	42.3	14	84.9	21.6	454	3.02	0.5	0.7	187.2	1.9	184.9	0.06	0.04	<0.02	50	0.63		
STD OXC129	Standard		1.24	27.64	5.93	40.3	12	79.5	20.6	418	3.06	0.8	0.6	184.5	1.5	184.5	<0.01	0.04	<0.02	50	0.68		



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QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
		0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1
Pulp Duplicates																					
1994003	Drill Core	0.077	4.2	27.8	1.06	94.4	0.088	<1	1.79	0.247	0.16	0.3	6.8	0.13	0.18	<5	0.7	0.04	4.2	1.90	<0.1
REP 1994003	QC	0.081	4.4	27.6	1.06	95.9	0.085	<1	1.79	0.246	0.17	0.3	7.1	0.12	0.18	<5	0.5	0.05	4.2	1.92	<0.1
1532628	Rock	<0.001	9.7	14.3	<0.01	26.7	<0.001	2	0.14	0.003	0.13	>100	0.5	0.89	0.99	*	3.5	4.91	1.5	0.66	<0.1
REP 1532628	QC																				
1532849	Rock	0.002	4.5	3.5	<0.01	10.8	<0.001	1	0.16	<0.001	0.15	2.8	0.2	0.61	<0.02	5	<0.1	<0.02	1.4	2.55	<0.1
REP 1532849	QC	0.001	4.7	3.6	<0.01	11.2	<0.001	<1	0.15	0.001	0.14	2.8	0.3	0.63	<0.02	9	<0.1	<0.02	1.5	2.59	<0.1
1532933	Rock	0.015	229.6	6.0	<0.01	308.0	0.002	2	0.62	0.005	0.15	>100	3.6	0.77	0.74	<5	8.7	0.26	6.0	1.15	0.3
REP 1532933	QC																				
1532936	Rock	0.010	53.8	26.9	0.32	89.2	0.064	1	1.56	0.024	0.94	82.2	2.4	5.45	<0.02	<5	<0.1	0.41	9.4	9.69	0.2
REP 1532936	QC	0.010	54.3	27.1	0.32	90.0	0.065	2	1.57	0.025	0.95	81.9	2.4	5.13	<0.02	<5	0.4	0.40	9.8	9.49	0.1
1994050	Drill Core	0.285	41.4	103.0	2.17	301.7	0.082	2	2.08	0.046	0.23	2.1	7.6	0.54	<0.02	11	1.4	0.11	7.4	3.32	0.2
REP 1994050	QC	0.283	42.0	102.5	2.18	304.9	0.090	1	2.03	0.047	0.23	2.1	8.3	0.54	<0.02	18	1.3	0.14	7.5	3.28	0.2
Core Reject Duplicates																					
1994008	Drill Core	0.025	11.3	64.9	0.85	154.5	0.151	1	1.22	0.075	0.72	0.2	10.4	0.48	0.81	<5	2.6	0.35	6.3	8.07	0.1
DUP 1994008	QC	0.025	11.1	62.3	0.85	150.7	0.151	<1	1.21	0.068	0.72	0.2	10.4	0.47	0.83	<5	2.8	0.32	6.7	8.05	0.1
1532857	Rock	0.005	31.1	2.5	0.03	9.9	0.004	<1	0.36	0.024	0.13	>100	0.8	0.23	<0.02	<5	0.3	0.07	2.0	1.13	<0.1
DUP 1532857	QC	0.006	32.7	3.0	0.04	11.8	0.005	3	0.41	0.028	0.15	>100	0.9	0.26	<0.02	<5	<0.1	0.03	2.2	1.31	<0.1
Reference Materials																					
STD CDN-ME-14	Standard																				
STD CDN-ME-9	Standard																				
STD CDN-ME-14	Standard																				
STD CDN-ME-9	Standard																				
STD DS10	Standard	0.071	18.3	58.1	0.79	351.5	0.085	7	1.06	0.068	0.34	3.3	2.7	5.06	0.28	302	1.6	4.99	4.3	2.63	<0.1
STD DS10	Standard	0.069	17.9	56.5	0.80	346.4	0.086	8	1.10	0.074	0.35	3.4	3.1	5.16	0.28	274	2.0	4.91	4.4	2.67	<0.1
STD DS10	Standard	0.073	17.5	55.9	0.79	343.2	0.082	7	1.08	0.071	0.34	3.2	3.1	5.40	0.27	297	1.9	4.74	4.2	2.64	<0.1
STD DS10	Standard	0.073	19.9	59.6	0.79	356.8	0.092	7	1.10	0.073	0.34	3.3	2.9	5.24	0.28	312	2.0	4.92	4.5	2.74	<0.1
STD OXC129	Standard	0.099	12.7	54.3	1.56	48.1	0.419	2	1.50	0.593	0.37	<0.1	1.0	0.03	<0.02	<5	<0.1	<0.02	5.1	0.15	<0.1
STD OXC129	Standard	0.095	11.3	53.5	1.55	49.1	0.408	<1	1.54	0.586	0.36	0.2	0.8	0.04	<0.02	<5	<0.1	<0.02	5.3	0.15	<0.1



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QUALITY CONTROL REPORT

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Method Analyte Unit MDL		AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	MA370	MA370	MA370	MA370
		Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Mo	Pb	Ag	W
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	%	gm/t	%
		0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.001	0.02	2	0.01
Pulp Duplicates																			
1994003	Drill Core	0.13	0.03	10.3	0.8	<0.05	3.4	8.85	7.2	0.03	5	0.4	12.0	<10	2				
REP 1994003	QC	0.12	0.02	10.2	0.8	<0.05	3.4	9.00	7.2	0.04	2	0.4	11.5	<10	<2				
1532628	Rock	0.20	3.58	20.8	9.1	<0.05	6.4	5.40	16.5	4.62	5	<0.1	2.0	*	<2	0.091	0.55	106	0.17
REP 1532628	QC															0.100	0.56	106	0.17
1532849	Rock	0.03	0.42	33.0	2.2	<0.05	0.9	5.16	19.8	<0.02	<1	0.3	0.8	<10	<2				
REP 1532849	QC	0.03	0.48	33.7	2.2	<0.05	0.9	5.23	20.3	0.02	<1	0.3	0.8	<10	<2				
1532933	Rock	0.05	0.98	28.1	>100	<0.05	8.9	64.30	373.5	5.54	3	5.7	1.5	<10	<2	0.004	>10	1116	0.07
REP 1532933	QC															0.002	>10	1106	0.07
1532936	Rock	0.51	2.08	245.6	14.0	<0.05	12.0	74.70	114.8	0.06	1	0.9	117.8	13	<2				
REP 1532936	QC	0.52	2.12	246.7	13.9	<0.05	12.2	74.20	112.5	0.05	<1	1.3	116.8	13	<2				
1994050	Drill Core	0.17	0.07	16.1	0.9	<0.05	8.4	60.06	21.5	0.05	1	1.3	17.5	<10	5				
REP 1994050	QC	0.12	0.09	15.8	1.0	<0.05	8.9	60.57	22.1	0.02	<1	1.1	15.5	<10	5				
Core Reject Duplicates																			
1994008	Drill Core	0.16	0.08	43.5	1.3	<0.05	6.2	9.31	18.7	0.07	8	0.1	20.8	<10	<2				
DUP 1994008	QC	0.16	0.10	45.3	1.3	<0.05	6.1	9.50	18.4	0.08	8	0.6	21.2	<10	<2				
1532857	Rock	0.92	7.37	21.1	1.2	<0.05	21.8	59.19	62.1	<0.02	2	0.3	4.1	14	<2	0.003	<0.02	<2	0.04
DUP 1532857	QC	0.98	6.65	23.2	1.3	<0.05	22.2	63.37	71.8	<0.02	3	0.6	4.3	12	<2	0.003	<0.02	<2	0.03
Reference Materials																			
STD CDN-ME-14	Standard															0.001	0.50	43	<0.01
STD CDN-ME-9	Standard															<0.001	<0.02	4	<0.01
STD CDN-ME-14	Standard															0.001	0.50	43	<0.01
STD CDN-ME-9	Standard															<0.001	<0.02	5	<0.01
STD DS10	Standard	0.08	1.56	27.9	1.5	<0.05	2.5	7.92	36.0	0.24	49	0.6	21.4	112	185				
STD DS10	Standard	0.07	1.56	28.9	1.6	<0.05	2.8	8.12	36.5	0.23	51	0.5	19.3	106	185				
STD DS10	Standard	0.07	1.58	28.5	1.6	<0.05	2.6	8.00	35.6	0.24	56	0.5	21.3	109	179				
STD DS10	Standard	0.07	1.59	30.4	1.7	<0.05	2.8	8.49	37.6	0.22	49	0.7	18.9	95	191				
STD OXC129	Standard	0.27	1.32	14.6	0.7	<0.05	19.2	4.52	22.6	<0.02	<1	0.5	2.4	<10	<2				
STD OXC129	Standard	0.20	1.19	14.8	0.7	<0.05	15.8	4.51	21.1	<0.02	<1	0.5	2.2	<10	2				



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Project: Adanac
Report Date: July 27, 2017

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QUALITY CONTROL REPORT

WHI17000228.1

		WGHT	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
STD OXC129	Standard		1.35	27.09	5.71	38.3	9	80.7	21.3	418	3.05	0.7	0.6	193.1	1.8	182.3	0.01	0.03	0.05	51	0.66
STD OXC129	Standard		1.28	27.20	5.76	40.3	11	84.8	20.8	390	2.98	0.8	0.7	184.5	1.7	179.1	0.01	0.02	<0.02	50	0.67
STD DS10 Expected			15.1	154.61	150.55	370	2020	74.6	12.9	875	2.7188	46.2	2.59	91.9	7.5	67.1	2.62	9	11.65	43	1.0625
STD OXC129 Expected			1.3	28	6.3	42.9	28	79.5	20.3	421	3.065	0.6	0.72	195	1.9		0.03	0.04		51	0.665
STD CDN-ME-14 Expected																					
BLK	Blank		<0.01	<0.01	<0.01	<0.1	4	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	0.02	<2	<0.01
BLK	Blank		<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01
BLK	Blank		<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.3	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01
BLK	Blank		0.06	<0.01	0.03	<0.1	2	<0.1	<0.1	<1	<0.01	0.2	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank		0.77	6.19	3.03	33.8	28	1.3	3.6	473	1.68	2.6	0.4	1.2	2.2	20.9	0.04	0.21	0.09	22	0.54
ROCK-WHI	Prep Blank		0.83	4.87	2.12	32.9	21	1.2	3.6	475	1.61	2.6	0.4	0.6	2.1	18.7	0.03	0.14	0.07	20	0.53



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QUALITY CONTROL REPORT

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		AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
		0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1
STD OXC129	Standard	0.099	12.0	57.2	1.55	50.3	0.436	<1	1.55	0.584	0.36	<0.1	0.8	0.04	<0.02	<5	<0.1	<0.02	5.5	0.16	<0.1
STD OXC129	Standard	0.096	12.0	53.5	1.52	48.9	0.411	<1	1.54	0.585	0.36	<0.1	0.8	0.03	<0.02	<5	<0.1	<0.02	5.3	0.15	<0.1
STD DS10 Expected		0.0765	17.5	54.6	0.775	359	0.0817		1.0755	0.067	0.338	3.32	3	5.1	0.29	300	2.3	5.01	4.5	2.63	0.08
STD OXC129 Expected		0.102	13	52	1.545	50	0.4	1	1.58	0.6	0.37	0.08	1.1	0.03					5.6	0.16	
STD CDN-ME-14 Expected																					
BLK	Blank	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	6	<0.1	<0.02	<0.1	<0.02	<0.1
BLK	Blank	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1
BLK	Blank	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1
BLK	Blank	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank	0.041	5.7	6.1	0.44	58.1	0.079	1	0.82	0.081	0.08	0.1	2.7	<0.02	<0.02	8	<0.1	<0.02	3.5	0.24	<0.1
ROCK-WHI	Prep Blank	0.038	5.3	6.6	0.44	51.5	0.071	1	0.83	0.079	0.08	0.1	2.4	<0.02	0.03	7	<0.1	<0.02	3.2	0.20	<0.1



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QUALITY CONTROL REPORT

WHI17000228.1

		AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	MA370	MA370	MA370	MA370
		Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Mo	Pb	Ag	W
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	%	gm/t	%
		0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.001	0.02	2	0.01
STD OXC129	Standard	0.23	1.29	15.3	0.8	<0.05	20.8	4.56	21.9	<0.02	<1	1.0	2.2	<10	<2				
STD OXC129	Standard	0.19	1.15	14.7	0.7	<0.05	15.3	4.28	21.7	<0.02	<1	0.9	2.3	<10	<2				
STD DS10 Expected		0.06	1.62	27.7	1.6		2.7	7.77	37	0.23	50	0.63	19.4	110	191				
STD OXC129 Expected		0.24	1.4		0.7		21	4.7	23.7			0.8	2.22						
STD CDN-ME-14 Expected																	0.495	42.3	
BLK	Blank	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2				
BLK	Blank	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2				
BLK	Blank	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2				
BLK	Blank	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	1	<0.1	<0.1	<10	<2				
BLK	Blank															<0.001	<0.02	<2	<0.01
BLK	Blank															<0.001	<0.02	<2	<0.01
Prep Wash																			
ROCK-WHI	Prep Blank	0.13	0.16	2.2	0.4	<0.05	3.4	7.79	11.1	<0.02	<1	0.2	2.0	<10	<2				
ROCK-WHI	Prep Blank	0.14	0.17	2.1	0.3	<0.05	3.5	7.61	10.6	<0.02	<1	0.3	1.7	<10	<2				



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Submitted By: Janet Miller
Receiving Lab: Canada-Whitehorse
Received: July 11, 2017
Report Date: August 04, 2017
Page: 1 of 4

CERTIFICATE OF ANALYSIS

WHI17000281.1

CLIENT JOB INFORMATION

Project: Adanac
Shipment ID:
P.O. Number
Number of Samples: 74

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

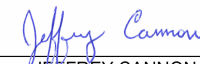
Invoice To: Zinex Mining Corp.
Box 997
Whistler British Columbia V0N 1B0
Canada

CC: Barry Hanslit
Caoimhe Peat

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	74	Crush, split and pulverize 250 g rock to 200 mesh			WHI
AQ252_EXT	74	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	30	Completed	VAN
SHP01	74	Per sample shipping charges for branch shipments			VAN
MA370	21	4-Acid Digestion ICP-ES Finish	0.5	Completed	VAN

ADDITIONAL COMMENTS


JEFFREY CANNON
Geochemistry Department Supervisor

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: Adanac
Report Date: August 04, 2017

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CERTIFICATE OF ANALYSIS

WHI17000281.1

	Method	Analyte	Unit	MDL	WGHT	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252			
					Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
					kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
					0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
1532940	Rock	1.53	31.82	17.29	24.76	11.6	870	1.2	0.3	51	0.47	15.4	3.1	484.9	10.1	0.5	0.08	4.76	444.16	<2	<0.01			
1532941	Rock	2.17	79.52	168.69	96.14	13.3	2739	1.4	3.0	46	1.12	6593.2	1.4	42.8	3.4	9.6	0.32	24.34	4.70	<2	0.04			
1532942	Rock	4.00	3.13	20.09	7.30	4.8	497	0.9	0.3	50	1.11	18.3	1.3	140.9	9.9	<0.5	0.04	1.43	147.81	<2	<0.01			
1532943	Rock	2.03	2.48	134.12	5.70	337.5	202	0.5	0.2	60	0.84	15.7	2.0	1.2	27.7	1.3	6.06	0.64	13.48	<2	0.53			
1532944	Rock	2.23	2.38	129.74	120.41	47.6	2436	1.2	0.4	45	3.56	1227.6	7.2	40.2	33.5	<0.5	0.90	24.10	17.59	<2	<0.01			
1532945	Rock	2.83	0.30	5.03	5.74	254.3	61	0.6	2.6	504	2.43	5.4	4.8	<0.2	29.2	10.8	1.05	0.12	0.58	3	0.29			
1532946	Rock	1.67	2.28	5.76	9.44	85.1	192	1.1	0.4	238	0.59	33.8	17.5	0.5	34.3	3.7	0.84	2.76	0.37	<2	0.43			
1532947	Rock	1.55	1.12	25.21	102.18	32.4	363	0.5	<0.1	46	0.41	15.1	16.7	<0.2	41.2	1.6	0.08	1.40	0.48	<2	0.18			
1532948	Rock	2.70	4.24	177.39	5976.72	6165.7	>100000	2.6	3.7	>10000	13.81	1212.5	4.1	68.4	7.4	32.3	150.62	262.62	0.52	4	2.17			
1532949	Rock	2.28	1.43	53.18	323.91	213.0	5666	0.8	0.3	962	0.72	8.3	3.4	1.4	8.5	1.7	3.22	5.20	12.26	<2	0.09			
1532950	Rock	2.64	7.77	378.23	>10000	9712.6	>100000	0.8	3.3	6041	2.61	3412.0	18.0	102.2	17.5	8.8	127.01	275.98	118.23	<2	1.13			
1532951	Rock	2.68	2.83	178.29	481.41	418.0	12301	0.4	0.9	4274	1.90	464.4	9.2	8.3	25.9	4.2	4.49	8.70	10.76	<2	1.19			
1532952	Rock	2.19	2.45	345.55	>10000	9304.2	>100000	0.8	3.3	>10000	6.78	3270.5	14.0	45.7	16.8	1.2	119.05	134.01	45.47	<2	0.21			
1532953	Rock	1.47	1.34	5.36	24.79	79.5	399	0.6	0.4	136	0.71	20.5	12.3	<0.2	38.6	2.2	0.37	0.83	0.21	<2	0.09			
1532954	Rock	1.38	0.26	26.59	39.61	78.4	818	4.5	3.3	247	0.83	4.1	2.0	1.9	14.4	46.5	0.64	0.49	0.44	14	0.80			
1532955	Rock	2.58	3.80	4.75	6.95	74.1	96	8.7	8.9	499	2.77	1.6	0.7	<0.2	2.4	76.7	0.11	0.12	0.22	69	1.63			
1532956	Rock	1.58	3.75	4.79	8.50	892.7	849	37.9	28.1	2088	7.47	132.3	4.9	1.8	1.6	25.1	5.86	5.55	0.17	87	3.31			
1532957	Rock	1.87	0.42	20.90	39.88	9.9	16249	0.8	0.3	239	0.35	22.9	2.0	6.2	1.2	<0.5	0.43	173.95	827.40	<2	0.01			
1532958	Rock	4.90	13.77	5.72	33.66	14.3	1420	4.9	0.6	189	0.54	1598.6	2.7	14.7	3.4	1.8	0.20	7.70	4.47	<2	0.02			
1532959	Rock	1.98	7.67	7.95	28.29	46.4	850	10.2	1.1	920	0.98	1017.3	6.0	12.9	5.9	2.5	0.37	4.73	0.42	<2	0.04			
1532960	Rock	2.20	6.66	6.80	20.07	35.8	1392	7.1	0.8	245	0.70	1345.2	5.9	21.7	7.3	3.1	0.62	6.61	0.61	<2	0.03			
1532961	Rock	3.29	5.88	7.55	59.76	23.6	624	4.3	0.7	114	0.60	800.1	5.5	11.8	4.0	2.0	0.28	3.87	0.48	<2	0.02			
1532962	Rock	6.06	3.41	6.22	24.53	34.1	276	4.1	1.0	83	0.77	429.8	7.2	4.3	10.5	3.1	0.13	1.51	0.45	<2	0.04			
1532635	Rock	4.34	4.73	1426.31	6.16	41.2	994	1.6	9.1	114	11.77	8.4	2.8	30.1	3.7	0.9	0.61	0.29	15.36	<2	0.15			
1532636	Rock	3.48	68.29	18.44	5.49	47.5	369	0.6	0.6	232	1.23	6.6	4.3	8.6	22.2	0.8	0.07	1.51	138.71	<2	0.03			
1532637	Rock	4.27	2.40	35.71	7.90	45.1	110	0.5	0.6	398	2.01	11.8	3.2	0.3	16.6	0.5	0.03	2.50	19.78	<2	<0.01			
1532638	Rock	3.88	10.82	71.78	7.76	8.2	2389	0.4	<0.1	86	1.33	23.9	1.8	1.7	22.5	<0.5	0.03	2.96	11.59	<2	<0.01			
1532639	Rock	2.44	2.23	59.98	134.80	33.3	6661	0.7	0.2	38	1.10	198.1	1.7	0.7	9.0	0.9	0.49	2.76	5.69	<2	<0.01			
1532640	Rock	3.21	0.62	45.19	209.28	50.3	1667	0.9	0.6	62	1.66	16.4	2.6	2.5	16.0	2.2	0.10	2.06	2.07	<2	<0.01			
1532641	Rock	1.77	2.37	84.10	64.23	153.2	335	1.0	1.1	198	1.44	6.1	6.7	2.2	17.8	3.5	0.99	1.14	1.47	4	0.11			



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					P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge
					%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
					0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1
1532940	Rock	0.002	14.3	1.6	<0.01	4.9	0.001	2	0.08	0.006	0.08	>100	0.3	0.16	<0.02	<5	<0.1	31.67	0.6	0.39	<0.1			
1532941	Rock	0.003	37.3	1.6	0.03	54.2	0.002	1	0.29	0.005	0.23	2.4	0.9	0.44	0.32	<5	<0.1	0.98	2.2	1.77	<0.1			
1532942	Rock	<0.001	9.6	1.5	<0.01	12.0	<0.001	<1	0.24	0.007	0.18	>100	0.4	0.32	0.03	<5	0.4	12.85	1.4	0.64	<0.1			
1532943	Rock	<0.001	20.4	1.1	<0.01	49.7	0.003	<1	1.05	0.019	0.65	3.3	0.6	1.07	0.38	<5	0.2	0.05	5.3	0.99	<0.1			
1532944	Rock	0.002	13.4	2.2	<0.01	8.5	0.001	1	0.30	0.004	0.18	36.0	0.4	0.34	<0.02	<5	0.7	1.04	2.7	1.07	<0.1			
1532945	Rock	0.008	47.6	1.2	0.03	44.5	0.043	<1	0.37	0.100	0.15	1.6	1.5	0.36	<0.02	<5	<0.1	<0.02	3.9	4.53	0.1			
1532946	Rock	0.001	33.7	1.5	0.02	21.0	0.001	8	1.02	0.004	0.28	0.8	0.6	0.55	<0.02	<5	<0.1	<0.02	6.0	4.14	<0.1			
1532947	Rock	0.001	262.4	0.7	0.02	36.0	<0.001	4	1.00	0.004	0.22	0.9	0.8	0.48	<0.02	8	<0.1	<0.02	6.0	2.44	0.2			
1532948	Rock	0.015	9.7	3.1	0.29	57.9	0.004	17	1.82	0.006	0.84	1.4	2.1	2.81	0.38	21	0.4	0.03	8.7	7.20	0.3			
1532949	Rock	0.002	20.4	1.3	<0.01	42.7	<0.001	5	0.50	0.007	0.40	>100	0.5	0.90	0.39	<5	<0.1	0.06	2.5	1.26	<0.1			
1532950	Rock	0.001	7.5	1.1	0.04	51.6	0.004	16	1.33	0.008	0.61	2.8	0.8	2.27	2.47	200	1.5	0.26	10.4	4.99	0.2			
1532951	Rock	0.001	15.8	1.0	0.03	64.2	0.004	10	1.43	0.014	0.88	3.1	0.7	2.25	1.03	25	<0.1	0.06	7.3	2.72	0.2			
1532952	Rock	<0.001	10.3	1.0	0.05	25.1	0.001	7	0.53	0.004	0.30	2.5	0.5	1.09	1.93	49	0.5	0.17	4.6	2.51	<0.1			
1532953	Rock	0.003	35.8	1.1	0.02	17.7	0.019	1	0.53	0.070	0.27	0.7	1.1	0.47	<0.02	<5	<0.1	<0.02	3.9	3.91	<0.1			
1532954	Rock	0.048	4.9	2.2	0.16	145.2	0.020	2	0.49	0.100	0.20	0.5	1.3	0.33	<0.02	<5	<0.1	<0.02	2.3	2.97	<0.1			
1532955	Rock	0.058	5.7	14.6	1.16	228.2	0.107	1	2.54	0.204	1.05	1.1	6.7	2.70	<0.02	<5	<0.1	<0.02	9.3	14.70	<0.1			
1532956	Rock	0.188	17.9	21.4	0.44	27.9	0.010	7	6.05	0.003	0.13	2.2	16.1	0.80	<0.02	88	<0.1	<0.02	23.3	2.82	0.2			
1532957	Rock	0.001	5.0	1.4	<0.01	2.6	<0.001	<1	0.05	0.002	0.04	>100	0.3	0.08	<0.02	<5	<0.1	1.29	0.4	0.20	<0.1			
1532958	Rock	0.003	13.0	2.2	0.01	27.2	<0.001	<1	0.16	0.003	0.13	6.0	0.3	0.43	0.09	<5	<0.1	0.04	0.8	0.60	<0.1			
1532959	Rock	0.005	26.9	2.2	0.03	31.7	<0.001	<1	0.26	0.005	0.11	0.3	0.5	0.34	0.06	5	<0.1	<0.02	1.4	1.05	<0.1			
1532960	Rock	0.003	21.5	2.9	0.02	40.1	<0.001	<1	0.20	0.017	0.12	0.8	0.4	0.43	0.07	<5	<0.1	0.08	1.0	0.67	<0.1			
1532961	Rock	0.004	13.9	2.8	0.02	24.0	<0.001	<1	0.15	0.013	0.08	0.3	0.5	0.22	0.04	<5	<0.1	0.04	0.7	0.47	<0.1			
1532962	Rock	0.009	37.6	1.9	0.03	28.4	<0.001	<1	0.28	0.020	0.13	0.4	0.6	0.44	0.04	<5	<0.1	<0.02	1.5	0.91	<0.1			
1532635	Rock	0.002	1.2	1.6	<0.01	11.6	0.002	<1	0.31	0.005	0.18	23.2	0.3	0.28	9.05	<5	3.4	3.01	1.2	0.40	<0.1			
1532636	Rock	0.003	35.7	1.1	0.02	41.8	0.013	<1	0.80	0.019	0.51	>100	1.1	2.78	0.03	<5	<0.1	1.21	5.2	4.45	0.1			
1532637	Rock	0.003	27.3	1.4	0.01	43.1	0.018	<1	1.00	0.011	0.70	3.7	0.8	4.00	0.02	<5	<0.1	0.04	7.9	4.20	0.1			
1532638	Rock	0.002	18.1	0.8	<0.01	28.6	<0.001	<1	0.47	0.008	0.39	>100	0.6	0.68	<0.02	<5	1.2	0.32	3.7	0.91	<0.1			
1532639	Rock	0.001	9.0	1.2	<0.01	28.2	<0.001	1	0.38	0.004	0.40	3.3	0.2	1.57	0.44	120	<0.1	<0.02	2.5	0.78	<0.1			
1532640	Rock	0.007	9.0	1.8	0.02	47.4	0.001	3	0.40	0.044	0.29	0.5	0.5	0.94	0.58	7	<0.1	<0.02	2.5	1.75	<0.1			
1532641	Rock	0.020	35.3	1.1	0.06	45.1	0.030	1	0.64	0.038	0.29	1.1	1.5	0.45	<0.02	<5	<0.1	<0.02	4.0	1.53	<0.1			



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	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	MA370	MA370	MA370	MA370	MA370
		Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Cu	Pb	Zn	Ag	W
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	%	%	gm/t	%
		0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.001	0.02	0.01	2	0.01
1532940	Rock	0.26	1.79	9.8	1.6	<0.05	6.0	2.19	30.0	0.02	4	0.2	3.1	<10	<2	0.002	<0.02	<0.01	2	0.06
1532941	Rock	0.17	0.20	44.8	7.9	<0.05	5.8	16.26	37.1	0.03	<1	0.4	20.9	<10	<2					
1532942	Rock	0.07	0.15	24.5	2.4	<0.05	2.2	2.60	19.7	0.03	2	0.3	10.0	<10	<2	0.002	<0.02	<0.01	<2	0.06
1532943	Rock	0.81	4.94	80.5	17.7	<0.05	18.9	30.92	41.2	1.02	<1	0.8	24.1	<10	<2					
1532944	Rock	0.14	0.73	21.8	6.9	<0.05	5.7	9.21	33.0	0.06	<1	0.7	3.5	<10	<2					
1532945	Rock	0.33	2.60	18.9	39.2	<0.05	7.7	47.12	102.9	0.24	<1	4.1	5.7	<10	<2					
1532946	Rock	1.15	1.08	44.8	2.0	<0.05	33.6	46.92	56.6	<0.02	<1	1.5	8.5	<10	<2					
1532947	Rock	1.26	1.49	28.1	3.2	<0.05	33.8	95.14	513.3	0.05	<1	1.1	9.9	19	<2					
1532948	Rock	0.44	0.51	116.9	12.3	<0.05	11.5	20.15	16.9	0.50	<1	1.2	6.0	<10	2	0.017	0.54	0.68	280	<0.01
1532949	Rock	0.59	0.17	52.0	15.3	<0.05	16.6	7.24	40.5	0.06	1	0.4	3.0	<10	<2	0.005	0.03	0.02	6	0.14
1532950	Rock	1.27	4.39	102.7	60.3	<0.05	28.2	18.19	14.9	0.90	<1	1.4	5.3	<10	3	0.036	5.37	1.04	570	<0.01
1532951	Rock	2.57	6.11	124.2	27.7	<0.05	58.2	21.64	32.0	0.21	<1	1.2	5.3	<10	<2					
1532952	Rock	0.59	1.31	54.4	32.1	<0.05	14.1	12.42	20.2	0.63	<1	1.1	2.5	<10	<2	0.032	1.27	1.00	198	<0.01
1532953	Rock	0.80	2.66	52.0	1.6	<0.05	18.4	36.06	67.7	<0.02	<1	1.5	20.6	<10	<2					
1532954	Rock	0.20	0.51	21.1	8.3	<0.05	4.6	10.06	10.8	0.07	<1	0.7	9.0	<10	<2					
1532955	Rock	0.06	0.05	120.1	12.1	<0.05	1.1	4.51	11.3	0.04	<1	1.5	35.9	<10	<2					
1532956	Rock	0.05	1.23	23.7	12.8	<0.05	1.7	78.79	41.2	0.23	<1	13.1	102.1	<10	<2					
1532957	Rock	<0.02	0.06	5.1	11.3	<0.05	1.5	1.10	11.1	0.10	1	<0.1	1.0	<10	<2	0.002	<0.02	<0.01	15	0.27
1532958	Rock	<0.02	0.04	16.8	0.7	<0.05	0.8	3.37	23.4	<0.02	<1	0.3	1.3	<10	<2					
1532959	Rock	0.02	0.03	14.4	0.5	<0.05	1.8	7.87	46.8	<0.02	<1	1.1	4.1	<10	<2					
1532960	Rock	0.05	0.05	14.8	0.5	<0.05	1.8	4.88	41.6	<0.02	<1	0.8	2.3	<10	<2					
1532961	Rock	0.03	0.04	8.3	0.4	<0.05	1.3	5.03	25.7	<0.02	<1	0.4	2.0	<10	<2					
1532962	Rock	0.06	0.05	16.7	0.4	<0.05	1.8	6.06	69.4	0.02	<1	0.4	2.8	<10	<2					
1532635	Rock	0.24	0.76	25.4	6.0	<0.05	4.9	1.93	2.3	<0.02	<1	0.7	6.0	<10	<2					
1532636	Rock	0.21	1.66	119.0	9.5	<0.05	5.6	11.47	69.2	0.09	2	0.5	51.1	<10	<2	0.002	<0.02	<0.01	<2	0.06
1532637	Rock	0.34	1.04	163.6	12.7	<0.05	10.7	10.60	51.9	0.07	<1	0.5	46.8	<10	<2					
1532638	Rock	0.17	0.81	50.3	7.4	<0.05	5.9	4.99	36.3	0.07	<1	0.4	18.2	<10	<2	0.007	<0.02	<0.01	<2	0.06
1532639	Rock	0.56	0.58	49.4	18.7	<0.05	19.5	3.33	19.2	0.13	<1	0.4	3.6	<10	<2					
1532640	Rock	0.37	0.47	42.4	6.8	<0.05	12.3	6.44	17.4	0.12	<1	0.8	4.6	<10	<2					
1532641	Rock	0.47	1.21	33.0	5.1	<0.05	16.5	13.82	67.5	0.12	<1	0.8	9.9	<10	<2					



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	Method	Analyte	Unit	MDL	WGHT	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252			
					Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
					kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
					0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
1532642	Rock				1.56	1.43	17.83	7.19	19.5	538	0.9	0.4	78	0.90	17.2	6.3	3.7	21.1	2.1	0.05	1.74	0.94	<2	0.03
1532125	Rock				0.75	59.30	202.34	184.94	701.4	893	0.9	2.4	107	1.52	2.6	3.2	0.9	16.8	0.7	15.90	0.22	3.79	3	0.56
1532126	Rock				1.04	4.96	356.89	6.19	37.2	188	1.4	4.1	35	2.05	2.2	29.0	14.8	57.6	2.4	1.11	1.19	5.04	<2	0.39
1532127	Rock				0.74	0.79	34.78	3.57	27.4	184	89.7	2.8	750	0.69	74.6	<0.1	3.3	0.2	6.9	0.26	20.50	1.13	4	1.08
1532128	Rock				1.30	3.75	271.39	30.92	816.1	1601	39.2	24.5	3084	7.08	7.0	0.5	1.8	1.4	18.5	12.26	5.41	9.43	128	0.85
1532129	Rock				0.45	3.35	1490.01	>10000	9511.7	>100000	44.5	32.1	>10000	12.94	6.5	2.1	1.7	0.9	10.2	165.03	4.68	354.15	26	8.23
1532130	Rock				1.04	2.09	31.64	12.67	94.8	226	27.5	27.5	885	4.04	5.2	1.1	0.7	0.7	180.8	0.58	1.25	0.39	81	2.58
1532131	Rock				0.94	1.36	9.55	42.47	85.9	288	1.4	0.6	127	1.01	19.2	7.7	1.6	27.4	1.1	0.28	0.46	0.86	<2	0.03
1532132	Rock				1.15	2.16	3.57	15.49	33.1	606	0.8	0.2	28	0.74	94.3	10.1	0.5	51.9	0.7	0.06	2.73	3.83	<2	<0.01
1532133	Rock				1.06	0.38	6.22	3.52	11.9	88	1.2	0.3	35	0.30	3.7	3.7	0.3	29.9	1.2	0.03	0.29	0.11	<2	<0.01
1532134	Rock				2.71	0.52	3.92	25.23	36.1	82	1.3	0.3	301	0.27	8.4	2.4	1.2	15.8	1.2	0.55	0.27	0.15	<2	<0.01
1532135	Rock				1.09	0.25	18.27	21.56	76.5	326	1.4	1.1	142	0.56	8.2	12.2	5.4	59.5	10.9	0.36	0.40	0.45	5	0.08
1532136	Rock				0.89	0.18	28.65	7.50	77.3	225	29.4	11.4	314	2.39	3.0	2.4	1.2	10.3	77.1	0.58	0.10	0.26	64	1.33
1532137	Rock				0.99	0.30	18.70	14.81	68.4	313	4.6	2.2	137	0.60	3.3	2.9	0.9	29.0	17.7	0.38	0.12	0.28	7	0.16
1532138	Rock				1.96	0.11	21.27	11.31	111.5	586	37.6	16.3	690	3.59	6.1	0.6	9.1	4.9	152.8	0.39	0.18	2.91	132	4.60
1532139	Rock				0.95	0.74	67.49	29.28	202.6	2378	7.6	16.3	1024	3.88	30.0	2.5	1.6	9.2	15.2	1.30	2.45	0.61	63	0.82
1532140	Rock				1.60	0.63	4.60	15.14	38.2	69	21.1	1.8	182	1.08	14.1	4.3	0.6	16.9	3.9	0.25	0.22	0.16	3	0.06
J953487	Rock				0.61	9.48	207.25	18.06	23.5	614	0.9	1.3	45	1.04	20.0	8.0	0.4	30.5	1.9	0.17	13.59	3.61	<2	0.39
J953488	Rock				0.87	46.78	345.74	7.52	701.9	309	1.5	2.5	55	1.83	4.3	4.3	1.2	12.7	0.6	17.69	0.21	1.26	2	0.09
J953489	Rock				1.01	9.16	74.23	16.62	18.7	192	0.8	0.9	29	0.68	5.5	20.9	1.6	55.5	2.0	0.22	2.67	0.35	<2	0.27
J953490	Rock				0.46	6.05	469.59	14.11	271.4	410	1.8	7.2	568	4.26	8.3	15.1	13.8	36.4	6.7	2.75	1.29	33.35	12	0.29
J953491	Rock				0.84	48.54	200.47	7.54	45.5	208	0.8	0.3	131	1.66	3.5	3.5	1.2	22.6	0.6	0.29	0.15	1.78	3	0.03
J953492	Rock				0.74	7.79	378.90	27.63	49.4	719	2.4	6.9	98	3.33	15.8	28.9	1.8	63.5	41.4	1.71	3.66	2.27	4	4.88
J953493	Rock				0.67	0.82	176.31	712.22	846.6	3622	85.5	30.3	5331	5.85	2.5	0.7	1.2	2.2	98.0	4.27	0.18	7.54	188	4.92
J953494	Rock				0.57	5.36	51.63	2.88	559.3	189	15.9	2.8	4942	1.67	1.8	0.6	0.9	0.3	2.5	7.98	0.14	2.81	3	2.02
J953495	Rock				0.56	1.07	1077.08	114.19	978.5	3417	137.6	66.3	1815	10.42	1.3	2.9	6.6	2.1	96.5	19.65	0.10	18.44	122	7.76
J953496	Rock				0.32	3.83	33.43	2.58	16.8	456	1.1	0.3	1309	1.50	1.0	2.7	8.2	15.9	0.5	0.08	1.39	184.74	<2	0.05
J953497	Rock				1.63	32.44	221.21	3.78	22.2	300	0.9	1.3	92	1.68	2.2	3.7	2.3	13.0	0.5	0.14	0.18	1.23	<2	0.16
J953498	Rock				1.37	33.66	148.63	10.03	23.2	211	0.7	0.9	92	1.14	3.1	4.0	1.1	14.8	2.2	0.10	0.11	1.28	5	0.24
J953499	Rock				1.24	80.16	176.69	3.48	21.0	264	0.8	1.2	77	1.41	1.2	3.3	1.1	13.0	<0.5	0.19	0.15	1.12	2	0.12



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CERTIFICATE OF ANALYSIS

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	Method	Analyte	Unit	MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252			
					P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge
					%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
					0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1
1532642	Rock																							
1532125	Rock																							
1532126	Rock																							
1532127	Rock																							
1532128	Rock																							
1532129	Rock																							
1532130	Rock																							
1532131	Rock																							
1532132	Rock																							
1532133	Rock																							
1532134	Rock																							
1532135	Rock																							
1532136	Rock																							
1532137	Rock																							
1532138	Rock																							
1532139	Rock																							
1532140	Rock																							
J953487	Rock																							
J953488	Rock																							
J953489	Rock																							
J953490	Rock																							
J953491	Rock																							
J953492	Rock																							
J953493	Rock																							
J953494	Rock																							
J953495	Rock																							
J953496	Rock																							
J953497	Rock																							
J953498	Rock																							
J953499	Rock																							



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CERTIFICATE OF ANALYSIS

WHI17000281.1

	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	MA370	MA370	MA370	MA370	MA370
		Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Cu	Pb	Zn	Ag	W
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	%	%	gm/t	%
		0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.001	0.02	0.01	2	0.01
1532642	Rock	0.24	0.75	18.4	1.1	<0.05	8.1	16.49	46.5	<0.02	<1	1.0	3.4	<10	<2					
1532125	Rock	0.36	1.31	66.3	33.2	<0.05	8.7	19.49	53.7	0.47	<1	0.7	76.5	<10	<2					
1532126	Rock	1.23	14.88	59.1	2.9	<0.05	30.7	95.06	34.4	<0.02	<1	1.0	11.3	<10	<2					
1532127	Rock	<0.02	0.40	72.0	6.2	<0.05	0.4	2.34	1.5	0.03	2	1.4	31.6	<10	<2	0.003	<0.02	<0.01	<2	0.10
1532128	Rock	0.03	0.13	515.1	48.3	<0.05	0.7	15.61	26.1	0.61	<1	7.0	198.1	<10	<2					
1532129	Rock	0.37	3.22	5.3	>100	<0.05	14.5	10.22	9.3	10.40	4	41.7	3.4	<10	<2	0.153	1.12	1.10	135	0.05
1532130	Rock	0.09	0.14	74.4	0.9	<0.05	1.9	20.74	31.0	0.02	<1	1.3	33.1	<10	<2					
1532131	Rock	1.02	3.98	78.7	4.9	<0.05	23.0	12.49	51.0	0.04	<1	0.6	44.0	<10	<2					
1532132	Rock	0.67	1.83	12.9	0.8	<0.05	18.4	31.95	18.3	<0.02	<1	0.5	4.9	<10	<2					
1532133	Rock	0.12	2.02	24.6	0.9	<0.05	4.5	11.96	21.1	<0.02	<1	0.5	4.1	<10	<2					
1532134	Rock	0.09	0.67	20.6	0.9	<0.05	3.2	14.74	32.5	<0.02	<1	0.6	3.4	<10	<2					
1532135	Rock	0.33	4.87	24.7	1.4	<0.05	6.6	66.12	44.3	0.05	<1	3.7	6.6	<10	<2					
1532136	Rock	0.26	0.29	83.8	5.6	<0.05	9.5	18.25	33.1	0.09	<1	0.7	35.3	<10	<2					
1532137	Rock	0.47	1.74	15.5	4.2	<0.05	10.5	25.98	79.8	<0.02	<1	0.3	7.2	<10	<2					
1532138	Rock	0.07	0.09	76.4	8.9	<0.05	1.8	7.84	58.6	0.18	<1	2.2	56.8	<10	<2					
1532139	Rock	0.03	<0.02	50.2	3.6	<0.05	0.9	12.70	47.3	0.09	<1	1.3	26.0	<10	3					
1532140	Rock	0.09	0.04	12.8	0.5	<0.05	2.8	12.80	101.1	0.04	<1	1.0	7.1	<10	<2					
J953487	Rock	1.08	6.82	63.2	6.2	<0.05	28.1	26.84	30.0	0.02	2	0.8	5.1	<10	<2	0.020	<0.02	<0.01	<2	0.02
J953488	Rock	0.15	0.81	57.0	14.5	<0.05	3.6	7.45	54.0	0.81	<1	0.6	62.7	<10	<2					
J953489	Rock	1.41	16.68	45.4	2.5	<0.05	34.7	87.68	65.0	<0.02	<1	1.7	8.0	<10	<2					
J953490	Rock	1.19	1.74	83.5	52.7	<0.05	28.3	51.76	70.7	0.71	<1	3.4	22.2	<10	3					
J953491	Rock	0.23	1.58	57.7	16.8	<0.05	5.9	8.20	61.3	0.16	<1	0.5	46.7	<10	<2					
J953492	Rock	1.77	28.84	265.0	31.7	<0.05	39.8	112.43	124.0	0.09	2	3.5	68.7	<10	<2	0.038	<0.02	<0.01	<2	0.07
J953493	Rock	0.14	5.09	774.7	>100	<0.05	2.5	17.37	30.1	0.18	1	609.5	82.2	<10	<2	0.017	0.07	0.09	5	0.04
J953494	Rock	<0.02	0.02	1.7	31.4	<0.05	0.2	2.67	2.7	0.38	7	17.8	0.9	<10	<2					
J953495	Rock	0.77	10.05	644.7	80.2	<0.05	29.6	23.25	42.8	0.90	5	34.7	94.7	<10	4	0.111	<0.02	0.11	4	0.09
J953496	Rock	0.25	0.04	52.7	8.2	<0.05	5.6	7.65	38.8	0.12	<1	0.4	21.0	<10	<2					
J953497	Rock	0.19	1.75	58.6	13.7	<0.05	4.7	9.67	45.1	0.04	<1	0.7	47.4	<10	<2					
J953498	Rock	0.26	3.28	60.2	7.9	<0.05	5.8	14.46	60.1	0.03	<1	0.6	44.3	<10	<2					
J953499	Rock	0.15	1.31	55.0	14.0	<0.05	3.9	6.77	45.1	0.07	<1	0.5	48.0	<10	<2					



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CERTIFICATE OF ANALYSIS

WHI17000281.1

	Method Analyte Unit MDL	WGHT	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
J953500	Rock	0.80	189.90	261.96	13.78	14.7	175	0.9	2.9	57	1.43	3.0	13.5	0.8	20.9	2.9	0.35	0.15	0.84	3	0.50
J953501	Rock	1.13	163.96	127.86	11.03	26.1	105	0.8	1.6	232	1.31	3.4	12.0	1.7	22.2	3.0	0.31	0.19	0.54	5	0.39
J953502	Rock	0.84	119.01	303.56	3.48	27.9	210	1.3	6.4	135	2.09	2.3	7.7	1.2	24.4	<0.5	0.45	0.12	0.29	2	0.02
J953503	Rock	0.78	2.12	203.45	17.40	29.9	410	0.9	1.9	141	1.33	1.5	17.6	5.9	28.6	4.2	0.20	0.70	12.84	3	0.57
J953504	Rock	1.28	70.09	477.38	108.63	1422.8	8802	12.1	2.0	184	11.39	6.8	2.5	3.1	3.9	1.2	11.16	6.23	108.89	72	0.02
J953505	Rock	0.93	0.36	53.76	4.56	7269.6	719	2.7	16.6	>10000	11.08	1.1	0.2	22.3	0.4	6.4	63.37	0.16	130.21	3	9.73
J953506	Rock	2.40	0.70	>10000	85.07	3109.3	76354	31.1	11.4	>10000	10.40	<0.1	2.4	5.7	0.8	27.2	63.96	0.37	18.70	37	12.58
J953507	Rock	0.71	1.48	88.54	3.53	141.0	345	76.8	13.2	787	3.42	1.9	0.7	3.3	2.4	32.4	0.80	0.85	31.32	95	2.03
J953508	Rock	1.40	0.42	222.60	515.53	910.7	7227	98.8	13.2	2670	7.23	5.8	1.1	2.1	4.7	115.1	13.08	0.74	21.70	47	3.48
J953509	Rock	1.05	1.02	25.00	4.23	27.4	91	0.7	0.3	92	0.57	4.2	4.3	0.8	18.1	2.2	0.20	0.16	1.25	<2	0.04
J953510	Rock	3.09	0.31	7310.82	4534.53	>10000	96734	15.8	49.4	>10000	18.07	<0.1	0.4	31.1	<0.1	7.8	850.10	0.67	201.40	3	5.71
J953511	Rock	1.17	0.39	484.42	6.93	>10000	4382	2.3	35.1	>10000	12.85	<0.1	2.0	18.3	0.1	5.4	859.89	0.28	151.98	3	9.72
J953512	Rock	2.19	1.14	20.00	7.95	195.0	155	64.3	11.7	823	3.27	0.9	0.8	1.5	2.8	28.7	1.13	0.09	2.73	92	1.22
J953513	Rock	1.06	1.48	4.23	8.69	54.3	15	0.6	0.3	81	0.25	1.5	11.6	0.5	21.6	0.8	0.73	0.15	0.45	<2	0.03



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CERTIFICATE OF ANALYSIS

WHI17000281.1

	Method	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
	MDL	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1
J953500	Rock	0.010	11.3	1.5	0.04	35.7	0.008	2	0.76	0.111	0.47	6.3	0.7	0.55	0.72	<5	0.7	0.14	3.6	1.45	<0.1
J953501	Rock	0.011	11.4	1.8	0.07	34.0	0.025	2	0.58	0.089	0.34	1.7	1.1	0.56	0.24	<5	0.2	0.08	3.9	4.35	0.1
J953502	Rock	0.002	13.3	1.5	0.02	27.6	0.024	<1	0.55	0.032	0.28	7.3	1.0	0.64	0.72	<5	0.4	0.14	5.5	2.17	<0.1
J953503	Rock	0.013	9.6	1.4	0.04	37.5	0.007	1	0.76	0.102	0.44	3.8	1.0	0.66	0.56	<5	<0.1	0.48	2.9	2.32	<0.1
J953504	Rock	0.049	2.1	91.0	0.28	33.3	0.013	5	1.04	0.007	0.65	>100	3.9	2.79	0.03	<5	0.4	0.32	8.3	3.28	<0.1
J953505	Rock	0.003	1.9	5.3	0.16	12.8	0.008	<1	0.30	0.017	<0.01	82.6	1.2	0.07	<0.02	8	0.7	1.10	4.6	0.40	3.1
J953506	Rock	0.114	10.5	72.1	2.71	3.9	0.145	<1	1.45	0.037	0.03	>100	7.1	0.68	1.72	*	2.5	0.09	9.1	1.22	9.6
J953507	Rock	0.053	9.6	85.5	1.59	127.4	0.190	<1	3.08	0.206	1.72	>100	9.4	10.41	0.06	<5	<0.1	0.13	8.9	12.21	0.4
J953508	Rock	0.190	24.7	41.9	0.88	65.6	0.247	<1	3.49	0.165	0.16	17.0	5.3	1.13	0.80	<5	0.1	0.10	7.1	2.63	0.3
J953509	Rock	0.004	29.3	1.0	0.03	15.2	0.014	2	0.48	0.060	0.19	1.6	1.2	0.39	<0.02	<5	<0.1	0.03	4.0	2.55	<0.1
J953510	Rock	<0.001	0.6	7.6	0.19	2.5	0.001	1	0.22	0.007	0.04	>100	1.2	1.36	8.05	<5	8.0	0.54	3.7	1.41	4.5
J953511	Rock	<0.001	<0.5	10.7	0.12	3.5	0.001	<1	0.15	0.017	<0.01	>100	1.1	0.13	4.32	<5	9.2	0.53	4.7	1.00	6.1
J953512	Rock	0.039	11.5	78.8	1.54	357.1	0.200	<1	2.54	0.196	1.53	>100	11.3	5.32	0.03	<5	<0.1	0.04	9.5	11.99	0.2
J953513	Rock	0.002	15.1	0.9	0.02	9.2	0.004	<1	0.23	0.054	0.12	37.6	1.1	0.07	<0.02	<5	<0.1	<0.02	1.3	0.34	<0.1



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CERTIFICATE OF ANALYSIS

WHI17000281.1

	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	MA370	MA370	MA370	MA370	MA370
		Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Cu	Pb	Zn	Ag	W
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	%	%	gm/t	%
		0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.001	0.02	0.01	2	0.01
J953500	Rock	1.37	7.51	65.2	2.9	<0.05	30.0	18.97	23.3	<0.02	14	1.1	14.6	<10	<2					
J953501	Rock	1.27	8.86	69.5	5.3	<0.05	28.2	22.09	22.0	<0.02	7	0.5	25.8	<10	<2					
J953502	Rock	0.17	1.27	65.5	22.0	<0.05	4.6	5.98	26.2	0.02	<1	0.4	70.8	<10	<2					
J953503	Rock	1.40	9.57	67.8	6.3	<0.05	36.7	22.19	19.7	0.02	<1	0.7	13.1	<10	<2					
J953504	Rock	0.49	0.82	134.6	65.6	<0.05	18.3	6.22	4.7	32.29	7	5.7	55.6	<10	<2	0.047	<0.02	0.15	8	0.18
J953505	Rock	0.05	0.12	2.3	>100	<0.05	1.5	6.26	1.0	11.29	<1	17.6	1.3	<10	<2					
J953506	Rock	0.47	4.49	6.7	>100	<0.05	15.0	16.40	10.6	3.01	98	50.6	4.2	<10	<2	1.134	<0.02	0.35	80	0.14
J953507	Rock	0.11	1.59	409.6	26.9	<0.05	2.7	14.64	19.1	0.21	3	8.7	57.0	<10	<2	0.009	<0.02	0.01	<2	0.03
J953508	Rock	0.68	1.63	12.5	>100	0.06	27.5	8.48	38.5	7.21	<1	6.8	30.4	<10	<2					
J953509	Rock	0.74	1.16	33.5	4.2	<0.05	16.7	31.53	35.4	0.05	<1	0.7	6.0	<10	<2					
J953510	Rock	<0.02	0.10	10.7	>100	<0.05	0.3	1.64	0.6	26.82	3	74.6	2.3	<10	<2	0.740	0.47	6.46	99	0.03
J953511	Rock	<0.02	0.08	1.7	>100	<0.05	0.3	1.62	0.5	24.78	<1	43.3	0.7	*	<2	0.049	<0.02	6.38	5	0.01
J953512	Rock	0.11	1.19	285.9	10.0	<0.05	3.6	14.49	21.7	0.09	4	2.1	60.4	<10	<2	0.003	<0.02	0.02	<2	0.04
J953513	Rock	0.25	4.88	10.1	0.6	<0.05	4.2	36.85	26.9	0.02	<1	1.2	4.1	<10	<2					



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QUALITY CONTROL REPORT

WHI17000281.1

	Method Analyte Unit MDL	WGHT	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
Pulp Duplicates																					
1532941	Rock	2.17	79.52	168.69	96.14	13.3	2739	1.4	3.0	46	1.12	6593.2	1.4	42.8	3.4	9.6	0.32	24.34	4.70	<2	0.04
REP 1532941	QC		77.72	170.33	98.28	13.5	2719	1.2	3.0	43	1.11	6617.2	1.4	43.3	3.5	9.6	0.27	23.75	4.78	<2	0.04
1532642	Rock	1.56	1.43	17.83	7.19	19.5	538	0.9	0.4	78	0.90	17.2	6.3	3.7	21.1	2.1	0.05	1.74	0.94	<2	0.03
REP 1532642	QC		1.47	18.35	7.06	19.6	539	0.9	0.4	76	0.92	17.0	6.3	1.8	21.1	2.1	0.03	1.73	0.94	<2	0.03
REP J953500	QC		181.67	247.26	15.38	19.8	207	1.0	2.6	65	1.36	3.2	16.7	3.2	24.8	3.7	0.46	0.17	0.87	3	0.52
Core Reject Duplicates																					
1532638	Rock	3.88	10.82	71.78	7.76	8.2	2389	0.4	<0.1	86	1.33	23.9	1.8	1.7	22.5	<0.5	0.03	2.96	11.59	<2	<0.01
DUP 1532638	QC		10.50	70.90	7.61	9.5	2218	0.7	0.1	81	1.29	22.0	1.7	1.7	21.0	<0.5	0.03	2.95	10.26	<2	<0.01
J953500	Rock	0.80	189.90	261.96	13.78	14.7	175	0.9	2.9	57	1.43	3.0	13.5	0.8	20.9	2.9	0.35	0.15	0.84	3	0.50
DUP J953500	QC		185.05	245.07	14.67	19.2	203	1.0	2.8	63	1.36	2.9	15.4	5.1	22.2	3.4	0.43	0.16	0.87	3	0.52
Reference Materials																					
STD CDN-ME-14	Standard																				
STD CDN-ME-9	Standard																				
STD CDN-ME-14	Standard																				
STD CDN-ME-9	Standard																				
STD DS10	Standard		16.36	159.53	147.27	368.6	1950	79.8	13.3	919	2.91	47.1	2.8	76.1	8.0	74.7	2.81	8.98	12.13	46	1.15
STD DS10	Standard		13.78	160.47	152.26	382.7	2010	72.1	13.4	897	2.84	48.7	2.9	72.5	8.1	74.7	2.78	9.21	12.81	44	1.09
STD DS10	Standard		15.22	162.20	150.23	372.8	1901	80.7	13.4	894	2.92	44.7	2.6	93.7	7.4	67.7	2.53	7.97	11.68	46	1.09
STD OXC129	Standard		1.33	28.38	6.09	41.1	11	85.5	21.6	422	3.08	0.6	0.7	186.8	1.7	201.2	0.01	0.03	<0.02	52	0.76
STD OXC129	Standard		1.25	27.26	6.33	41.9	19	83.0	21.4	442	3.11	0.4	0.7	191.0	1.9	186.9	0.01	0.03	<0.02	52	0.66
STD OXC129	Standard		1.34	29.88	6.98	43.9	29	89.1	22.7	463	3.24	0.5	0.7	207.6	1.7	193.0	0.02	0.05	0.06	54	0.69
STD DS10 Expected			15.1	154.61	150.55	370	2020	74.6	12.9	875	2.7188	46.2	2.59	91.9	7.5	67.1	2.62	9	11.65	43	1.0625
STD OXC129 Expected			1.3	28	6.3	42.9	28	79.5	20.3	421	3.065	0.6	0.72	195	1.9		0.03	0.04		51	0.665
STD CDN-ME-14 Expected																					
STD CDN-ME-9 Expected																					
BLK	Blank		<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01
BLK	Blank		<0.01	0.03	<0.01	<0.1	3	<0.1	<0.1	<1	<0.01	0.2	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01
BLK	Blank		<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	0.06	<2	<0.01



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Box 997
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Project: Adanac
Report Date: August 04, 2017

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QUALITY CONTROL REPORT

WHI17000281.1

Method Analyte Unit MDL		AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
		0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1
Pulp Duplicates																					
1532941	Rock	0.003	37.3	1.6	0.03	54.2	0.002	1	0.29	0.005	0.23	2.4	0.9	0.44	0.32	<5	<0.1	0.98	2.2	1.77	<0.1
REP 1532941	QC	0.003	38.8	1.7	0.03	55.3	0.002	1	0.29	0.005	0.23	2.1	0.9	0.46	0.33	<5	<0.1	1.00	2.1	1.80	<0.1
1532642	Rock	0.005	30.6	1.4	0.04	28.5	0.001	2	0.52	0.065	0.24	0.2	0.6	0.31	<0.02	<5	<0.1	<0.02	2.5	1.32	<0.1
REP 1532642	QC	0.005	29.8	1.3	0.04	28.5	0.001	2	0.52	0.065	0.24	0.2	0.6	0.30	<0.02	<5	<0.1	<0.02	2.6	1.29	<0.1
REP J953500	QC	0.011	10.3	1.7	0.04	36.0	0.008	2	0.68	0.108	0.42	4.0	0.8	0.57	0.67	<5	0.5	0.14	3.7	1.53	<0.1
Core Reject Duplicates																					
1532638	Rock	0.002	18.1	0.8	<0.01	28.6	<0.001	<1	0.47	0.008	0.39	>100	0.6	0.68	<0.02	<5	1.2	0.32	3.7	0.91	<0.1
DUP 1532638	QC	0.002	16.6	0.9	<0.01	27.3	<0.001	1	0.48	0.009	0.38	>100	0.6	0.66	<0.02	<5	1.1	0.26	3.7	0.86	<0.1
J953500	Rock	0.010	11.3	1.5	0.04	35.7	0.008	2	0.76	0.111	0.47	6.3	0.7	0.55	0.72	<5	0.7	0.14	3.6	1.45	<0.1
DUP J953500	QC	0.011	9.5	1.7	0.04	33.7	0.007	2	0.67	0.108	0.41	3.9	0.6	0.53	0.67	<5	0.6	0.13	3.6	1.45	<0.1
Reference Materials																					
STD CDN-ME-14	Standard																				
STD CDN-ME-9	Standard																				
STD CDN-ME-14	Standard																				
STD CDN-ME-9	Standard																				
STD DS10	Standard	0.077	19.8	60.0	0.81	379.0	0.098	8	1.18	0.077	0.37	3.2	3.4	5.09	0.28	285	2.1	4.98	4.8	2.93	<0.1
STD DS10	Standard	0.079	18.5	55.4	0.81	339.4	0.087	8	1.06	0.069	0.34	3.7	2.9	5.42	0.29	308	2.0	5.15	4.3	2.91	<0.1
STD DS10	Standard	0.072	17.6	60.2	0.79	351.1	0.089	8	1.09	0.075	0.35	3.0	3.0	5.09	0.28	274	2.2	5.06	4.5	2.70	<0.1
STD OXC129	Standard	0.095	12.0	56.6	1.53	51.9	0.414	<1	1.65	0.618	0.37	0.2	0.9	0.04	<0.02	<5	<0.1	<0.02	5.6	0.16	<0.1
STD OXC129	Standard	0.094	12.7	56.0	1.58	48.9	0.412	<1	1.54	0.597	0.37	0.2	1.1	0.03	<0.02	<5	<0.1	<0.02	4.9	0.16	<0.1
STD OXC129	Standard	0.100	12.4	59.2	1.61	52.9	0.444	2	1.63	0.607	0.37	0.1	0.8	0.04	<0.02	5	<0.1	<0.02	5.9	0.16	<0.1
STD DS10 Expected		0.0765	17.5	54.6	0.775	359	0.0817		1.0755	0.067	0.338	3.32	3	5.1	0.29	300	2.3	5.01	4.5	2.63	0.08
STD OXC129 Expected		0.102	13	52	1.545	50	0.4	1	1.58	0.6	0.37	0.08	1.1	0.03					5.6	0.16	
STD CDN-ME-14 Expected																					
STD CDN-ME-9 Expected																					
BLK	Blank	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1
BLK	Blank	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	0.2	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1
BLK	Blank	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	6	<0.1	<0.02	<0.1	<0.02	<0.1



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QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	MA370	MA370	MA370	MA370	MA370
		Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Cu	Pb	Zn	Ag	W
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	%	%	gm/t	%
		0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	0.1	10	2	0.001	0.02	0.01	2
Pulp Duplicates																				
1532941	Rock	0.17	0.20	44.8	7.9	<0.05	5.8	16.26	37.1	0.03	<1	0.4	20.9	<10	<2					
REP 1532941	QC	0.15	0.19	46.1	8.3	<0.05	5.7	16.23	38.3	0.03	<1	0.3	20.9	<10	<2					
1532642	Rock	0.24	0.75	18.4	1.1	<0.05	8.1	16.49	46.5	<0.02	<1	1.0	3.4	<10	<2					
REP 1532642	QC	0.23	0.79	18.3	1.1	<0.05	7.9	15.80	46.2	<0.02	<1	0.9	3.5	<10	<2					
REP J953500	QC	1.51	7.71	66.3	3.1	<0.05	32.0	18.72	21.3	<0.02	15	1.0	16.0	31	2					
Core Reject Duplicates																				
1532638	Rock	0.17	0.81	50.3	7.4	<0.05	5.9	4.99	36.3	0.07	<1	0.4	18.2	<10	<2	0.007	<0.02	<0.01	<2	0.06
DUP 1532638	QC	0.16	0.80	49.1	7.2	<0.05	5.7	4.86	33.9	0.07	2	0.5	16.6	<10	<2	0.007	<0.02	<0.01	2	0.06
J953500	Rock	1.37	7.51	65.2	2.9	<0.05	30.0	18.97	23.3	<0.02	14	1.1	14.6	<10	<2					
DUP J953500	QC	1.41	7.68	60.5	2.7	<0.05	29.9	19.51	19.7	<0.02	18	0.8	14.6	24	<2					
Reference Materials																				
STD CDN-ME-14	Standard															1.274	0.52	3.26	43	<0.01
STD CDN-ME-9	Standard															0.677	<0.02	<0.01	2	<0.01
STD CDN-ME-14	Standard															1.305	0.52	3.24	47	<0.01
STD CDN-ME-9	Standard															0.661	<0.02	0.01	3	<0.01
STD DS10	Standard	0.07	1.82	30.5	1.8	<0.05	3.0	9.08	40.5	0.24	52	0.5	19.5	112	192					
STD DS10	Standard	0.06	1.61	29.8	1.8	<0.05	2.6	7.76	34.9	0.27	55	0.7	19.9	111	189					
STD DS10	Standard	0.07	1.68	28.3	1.5	<0.05	2.6	7.95	35.7	0.24	47	0.8	20.0	112	182					
STD OXC129	Standard	0.24	1.10	16.2	0.7	<0.05	18.9	4.98	22.3	<0.02	<1	1.0	2.2	<10	<2					
STD OXC129	Standard	0.27	1.40	15.1	0.7	<0.05	21.4	4.83	21.6	<0.02	<1	0.9	2.0	<10	<2					
STD OXC129	Standard	0.17	1.16	16.1	0.7	<0.05	13.6	4.69	23.2	<0.02	<1	0.9	2.5	<10	<2					
STD DS10 Expected		0.06	1.62	27.7	1.6		2.7	7.77	37	0.23	50	0.63	19.4	110	191					
STD OXC129 Expected		0.24	1.4		0.7		21	4.7	23.7			0.8	2.22							
STD CDN-ME-14 Expected																1.221	0.495	3.1	42.3	
STD CDN-ME-9 Expected																0.654		0.012		
BLK	Blank	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2					
BLK	Blank	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2					
BLK	Blank	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2					



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Box 997
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Project: Adanac
Report Date: August 04, 2017

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QUALITY CONTROL REPORT

WHI17000281.1

		WGHT	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank		1.65	8.40	1.46	43.2	13	1.3	4.1	578	1.86	1.1	0.5	0.4	2.3	24.8	0.05	0.07	0.06	23	0.57
ROCK-WHI	Prep Blank		0.88	7.18	1.14	35.4	8	1.2	4.3	557	1.86	1.0	0.4	<0.2	2.3	24.6	0.03	0.05	0.05	25	0.63



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		AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
		0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank	0.042	6.9	2.3	0.48	73.1	0.093	2	0.96	0.116	0.12	0.1	3.1	<0.02	0.04	<5	<0.1	<0.02	4.0	0.14	<0.1
ROCK-WHI	Prep Blank	0.043	5.7	2.1	0.47	58.9	0.083	3	0.93	0.099	0.10	0.1	2.9	<0.02	0.03	<5	<0.1	<0.02	3.8	0.14	<0.1

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		AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	MA370	MA370	MA370	MA370	MA370
		Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Cu	Pb	Zn	Ag	W
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	%	%	gm/t	%
		0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.001	0.02	0.01	2	0.01
BLK	Blank															<0.001	<0.02	<0.01	<2	<0.01
BLK	Blank															<0.001	<0.02	<0.01	<2	<0.01
Prep Wash																				
ROCK-WHI	Prep Blank	0.12	0.13	3.1	0.5	<0.05	3.6	8.87	13.6	<0.02	1	0.4	1.8	<10	<2					
ROCK-WHI	Prep Blank	0.50	0.15	2.6	0.4	<0.05	3.1	8.63	12.0	<0.02	<1	0.2	3.9	<10	<2					



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Submitted By: Janet Miller
Receiving Lab: Canada-Whitehorse
Received: July 20, 2017
Report Date: August 04, 2017
Page: 1 of 3

CERTIFICATE OF ANALYSIS

WHI17000316.1

CLIENT JOB INFORMATION

Project: Adanac
Shipment ID:
P.O. Number
Number of Samples: 36

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

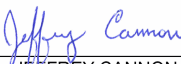
Invoice To: Zinex Mining Corp.
Box 997
Whistler British Columbia V0N 1B0
Canada

CC: Barry Hanslit
Caoimhe Peat

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	36	Crush, split and pulverize 250 g rock to 200 mesh			WHI
AQ252_EXT	36	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	30	Completed	VAN
SHP01	36	Per sample shipping charges for branch shipments			VAN
MA370	1	4-Acid Digestion ICP-ES Finish	0.5	Completed	VAN

ADDITIONAL COMMENTS


JEFFREY CANNON
Geochemistry Department Supervisor

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL		WGHT	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
1994017	Drill Core	3.93	0.66	16.65	0.66	6.4	92	9.0	2.5	68	0.56	2.5	0.3	<0.2	0.6	8.8	0.11	0.09	0.06	7	0.26
1994018	Drill Core	3.87	2.38	69.14	17.24	138.5	282	42.4	20.4	629	2.73	2.2	0.8	0.3	1.2	210.4	6.85	0.19	0.15	90	3.16
1994019	Drill Core	3.66	0.52	87.71	2.39	56.3	219	21.8	11.7	834	2.65	1.4	0.4	0.9	1.3	23.4	0.05	0.31	0.09	85	0.72
1994020	Drill Core	5.62	0.13	31.72	59.28	56.4	159	7.5	3.7	151	0.73	1.7	0.8	0.7	1.7	64.0	1.83	0.11	0.29	31	0.60
1994021	Drill Core	5.89	2.47	97.55	4.11	124.5	104	119.2	26.0	682	3.34	0.7	6.8	0.2	1.9	162.8	0.36	0.09	0.17	214	1.92
1994022	Drill Core	4.69	26.37	38.06	1.38	109.3	84	61.3	12.2	673	1.56	4.8	3.9	<0.2	2.5	109.4	1.85	0.20	0.14	156	2.03
1994023	Drill Core	5.55	4.88	37.97	3.77	43.0	96	31.7	6.6	517	1.15	1.6	1.5	0.4	1.8	67.2	0.37	0.33	0.21	42	2.37
1994024	Drill Core	4.58	0.22	42.23	4.16	320.6	115	42.7	9.8	1092	1.95	1.3	5.5	7.1	3.2	121.7	15.50	0.10	2.05	107	3.99
1994025	Drill Core	2.82	1.33	78.63	4.04	147.9	103	25.2	10.8	889	2.71	0.5	1.0	0.4	2.2	95.5	1.92	0.11	0.11	115	4.26
1994026	Drill Core	4.26	0.63	21.88	34.07	137.7	113	66.5	14.0	1272	2.04	0.8	5.5	1.2	4.6	174.0	2.88	0.70	0.13	113	5.91
1994027	Drill Core	5.81	9.36	132.11	3.63	67.3	216	122.5	30.3	870	3.82	<0.1	1.2	<0.2	0.9	109.7	0.18	0.40	0.27	103	3.19
1994028	Drill Core	6.12	3.27	51.23	3.23	68.6	133	36.4	25.1	1493	3.85	0.4	1.0	<0.2	0.8	202.7	0.18	0.12	0.11	129	5.18
1994029	Drill Core	3.30	3.14	32.83	2.44	30.2	201	30.5	6.5	915	1.30	2.8	1.0	0.5	1.7	83.8	0.17	0.21	0.05	26	3.83
1994030	Drill Core	3.60	8.14	44.70	6.94	31.6	267	15.4	4.3	629	0.81	1.7	3.8	0.3	1.2	46.5	0.38	0.17	0.10	58	1.54
1994031	Drill Core	4.95	1.36	36.02	2.72	82.4	112	34.8	27.8	798	4.20	0.4	0.2	<0.2	0.7	188.5	0.33	0.07	0.11	126	2.07
1994032	Drill Core	7.23	1.37	12.91	9.94	61.4	81	28.4	6.4	478	1.14	1.3	1.7	0.9	2.1	271.7	0.58	0.22	0.11	52	6.61
1994033	Drill Core	7.33	0.16	17.03	66.60	389.8	564	51.3	11.8	1172	1.68	0.9	2.4	2.2	2.5	329.3	14.32	0.28	1.49	89	5.91
1994034	Drill Core	4.77	0.62	10.29	30.62	417.2	259	45.6	12.4	1489	2.24	1.3	1.3	<0.2	0.8	221.0	10.89	0.48	0.77	68	5.15
1994035	Drill Core	5.30	0.12	26.36	200.81	310.3	1190	29.3	12.9	873	1.74	0.9	4.0	<0.2	1.3	243.5	10.71	0.46	3.16	133	2.46
1994036	Drill Core	5.21	1.38	38.45	17.14	281.5	274	33.2	7.1	655	1.63	0.6	10.8	<0.2	3.3	118.7	4.03	0.13	0.05	137	1.48
1994037	Drill Core	5.34	9.64	36.20	13.99	275.7	141	62.1	11.9	361	1.84	1.7	12.8	0.5	3.8	61.5	3.42	0.23	0.12	270	1.32
1994038	Drill Core	3.87	8.76	43.72	5.87	221.1	153	36.4	8.0	285	1.78	1.3	3.7	<0.2	3.3	32.1	3.48	0.47	0.24	109	0.97
1994039	Drill Core	5.87	0.62	18.85	1.46	44.7	47	24.1	4.5	281	1.23	0.6	2.0	<0.2	1.9	32.7	0.52	0.10	0.08	58	1.03
1994040	Drill Core	3.80	1.32	22.00	2.55	67.1	78	24.3	7.4	449	1.28	1.1	2.0	<0.2	1.0	74.9	1.28	0.49	0.14	36	2.50
1532643	Rock	1.60	3.68	88.20	23.28	330.6	946	24.8	1.9	324	1.36	26.9	1.1	4.4	3.0	25.5	1.08	0.92	0.47	85	0.10
1532644	Rock	1.36	9.07	64.89	7496.49	78.1	>100000	4.4	2.1	92	5.79	5016.6	1.4	2414.2	2.1	20.0	1.12	275.26	17.18	8	<0.01
1532645	Rock	2.93	0.76	24.88	9.86	1206.9	278	1.2	0.7	268	1.79	3.0	8.7	1.5	35.7	2.2	14.52	0.25	1.46	<2	0.12
1532646	Rock	2.68	0.49	20.84	10.59	124.8	153	1.0	0.5	143	1.21	2.5	15.6	1.2	22.4	1.7	5.18	0.47	1.76	<2	0.15
1532647	Rock	2.21	3.64	10.31	8.45	148.6	191	1.0	0.7	174	1.93	1.3	26.9	0.9	74.0	2.3	1.07	1.37	0.42	<2	0.49
1532648	Rock	2.13	2.07	39.97	87.47	117.9	918	1.7	0.4	93	1.79	18.3	8.9	2.3	27.8	1.1	1.22	1.82	2.58	<2	0.01



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	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
		0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1
1994017	Drill Core	0.013	2.4	6.1	0.07	21.3	0.016	<1	0.05	0.013	0.01	0.2	0.7	<0.02	0.04	<5	<0.1	<0.02	0.4	0.10	<0.1
1994018	Drill Core	0.108	6.8	161.7	1.81	1518.1	0.231	<1	2.22	0.200	1.09	0.3	7.5	0.70	0.15	6	0.4	0.03	6.7	16.07	0.1
1994019	Drill Core	0.035	5.6	29.7	0.91	159.0	0.166	<1	1.04	0.093	0.76	0.2	6.7	0.49	0.48	7	1.8	0.07	5.4	10.75	0.1
1994020	Drill Core	0.017	7.7	12.0	0.24	165.5	0.165	<1	0.19	0.094	0.02	0.1	2.1	0.03	0.10	<5	0.4	0.04	0.9	0.38	<0.1
1994021	Drill Core	0.154	8.2	279.6	1.90	561.5	0.172	<1	1.80	0.122	1.64	0.1	11.0	1.10	0.11	6	1.1	0.02	6.5	20.55	<0.1
1994022	Drill Core	0.142	11.1	72.7	0.75	289.6	0.088	<1	1.02	0.077	0.39	0.3	5.8	0.36	0.08	<5	0.5	0.07	3.9	6.62	<0.1
1994023	Drill Core	0.093	8.0	32.8	0.53	125.7	0.046	<1	0.48	0.038	0.07	0.3	4.6	0.10	0.11	9	0.4	0.03	2.1	0.93	<0.1
1994024	Drill Core	0.101	8.6	33.1	0.57	47.6	0.060	<1	0.57	0.057	0.02	0.2	7.1	0.04	0.26	6	0.7	0.10	3.4	0.33	<0.1
1994025	Drill Core	0.062	9.3	48.0	0.97	354.5	0.180	<1	1.12	0.074	0.50	0.3	10.3	0.28	0.10	8	1.0	0.02	5.4	3.83	0.1
1994026	Drill Core	0.042	14.2	44.6	0.32	53.8	0.078	<1	0.50	0.084	0.03	0.2	9.6	0.24	0.59	<5	2.3	<0.02	2.2	0.39	<0.1
1994027	Drill Core	0.070	3.4	246.1	1.73	209.2	0.118	<1	1.96	0.113	0.94	0.2	12.4	0.73	0.96	6	3.2	0.09	6.1	8.78	<0.1
1994028	Drill Core	0.149	5.3	224.2	2.66	300.3	0.163	1	2.80	0.147	0.82	0.1	14.6	0.61	0.29	8	1.0	0.03	7.2	13.81	<0.1
1994029	Drill Core	0.057	7.7	15.9	0.48	31.9	0.008	1	0.59	0.007	0.06	0.1	4.8	0.07	0.05	<5	0.3	0.03	1.8	0.72	<0.1
1994030	Drill Core	0.093	5.0	11.2	0.52	29.1	0.026	<1	0.20	0.018	0.01	0.2	1.5	0.02	0.03	7	0.3	0.04	1.0	0.21	<0.1
1994031	Drill Core	0.156	5.8	183.1	2.63	874.9	0.258	<1	3.23	0.326	1.78	0.2	9.0	1.14	0.23	<5	0.4	0.02	8.6	36.39	0.1
1994032	Drill Core	0.109	9.8	31.3	0.51	125.3	0.102	<1	0.27	0.055	0.07	0.2	3.9	0.17	0.17	<5	0.4	0.02	1.1	2.34	<0.1
1994033	Drill Core	0.154	10.6	64.3	0.73	1141.1	0.122	<1	0.53	0.107	0.24	0.2	5.8	0.33	0.10	7	0.9	0.09	2.3	6.19	0.1
1994034	Drill Core	0.059	3.7	72.2	0.89	791.5	0.031	1	0.69	0.023	0.40	<0.1	6.8	0.48	0.27	8	1.2	0.09	2.6	10.19	<0.1
1994035	Drill Core	0.269	9.4	90.5	1.25	600.4	0.125	<1	0.55	0.120	0.18	0.2	6.8	0.30	0.11	6	2.0	0.14	2.6	5.17	<0.1
1994036	Drill Core	0.240	12.7	25.0	0.61	424.0	0.025	<1	0.49	0.047	0.03	<0.1	4.3	0.07	0.10	8	0.5	<0.02	2.3	0.82	<0.1
1994037	Drill Core	0.236	13.1	30.3	0.70	233.3	0.044	<1	0.67	0.051	0.25	0.2	4.7	0.29	0.22	5	0.8	0.02	3.0	4.66	<0.1
1994038	Drill Core	0.047	6.6	22.5	0.50	61.5	0.002	1	0.59	0.030	0.06	0.1	4.2	0.08	0.44	<5	1.6	0.04	2.6	0.88	<0.1
1994039	Drill Core	0.038	5.4	15.4	0.40	21.8	0.002	<1	0.44	0.030	0.04	<0.1	3.0	0.06	0.09	9	0.2	<0.02	1.4	0.85	<0.1
1994040	Drill Core	0.026	2.5	8.2	0.46	58.7	<0.001	2	0.43	0.003	0.05	<0.1	2.9	0.07	0.54	8	1.1	0.05	1.2	0.84	<0.1
1532643	Rock	0.031	7.6	30.3	1.05	561.4	0.087	1	1.85	0.033	0.67	0.3	5.9	1.46	0.10	<5	1.3	0.05	5.5	8.02	0.1
1532644	Rock	0.034	5.2	8.7	0.03	67.3	0.006	1	0.27	0.004	0.27	1.4	0.9	0.76	1.22	21	12.3	0.13	1.2	1.09	<0.1
1532645	Rock	0.003	61.0	4.7	0.04	11.7	0.016	<1	0.53	0.066	0.10	1.0	3.2	0.27	0.18	7	0.9	<0.02	5.5	3.30	0.1
1532646	Rock	0.002	29.7	4.6	0.01	11.7	0.004	<1	0.42	0.054	0.05	0.5	1.2	0.29	0.06	<5	0.2	<0.02	5.0	1.67	<0.1
1532647	Rock	<0.001	83.3	3.6	0.03	15.1	0.057	2	0.87	0.068	0.37	1.7	3.3	0.84	0.03	<5	1.6	<0.02	10.9	4.70	0.3
1532648	Rock	0.003	11.0	5.6	0.01	24.4	0.002	1	0.38	0.009	0.24	1.1	0.7	0.38	<0.02	7	<0.1	0.04	3.7	2.01	<0.1



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Method Analyte Unit MDL		AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	MA370
		Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Ag
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	gm/t
		0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	2
1994017	Drill Core	0.03	0.09	0.7	0.4	<0.05	0.9	2.60	7.0	<0.02	<1	<0.1	0.5	<10	<2	
1994018	Drill Core	0.18	0.13	66.9	5.7	<0.05	5.9	9.35	12.9	0.03	2	0.4	44.5	<10	<2	
1994019	Drill Core	0.03	0.11	46.4	1.9	<0.05	0.9	6.34	10.7	0.03	<1	0.1	27.5	<10	<2	
1994020	Drill Core	0.21	0.28	1.7	6.4	<0.05	6.7	9.12	13.6	<0.02	<1	0.2	1.8	<10	<2	
1994021	Drill Core	0.16	0.10	102.6	1.0	<0.05	6.8	10.97	12.4	0.02	6	0.4	43.4	12	4	
1994022	Drill Core	0.14	0.17	34.0	0.6	<0.05	6.5	9.92	18.5	0.02	35	0.2	16.6	<10	<2	
1994023	Drill Core	0.10	0.08	5.9	1.8	<0.05	4.1	8.68	14.3	0.03	4	0.3	8.8	<10	<2	
1994024	Drill Core	0.24	0.09	1.2	27.1	<0.05	8.7	11.31	15.5	0.25	<1	0.3	10.3	<10	<2	
1994025	Drill Core	0.11	0.08	26.9	1.1	<0.05	4.0	13.40	17.0	0.04	2	0.5	22.8	<10	2	
1994026	Drill Core	0.30	0.11	2.1	11.2	<0.05	13.2	13.64	25.5	0.05	<1	0.7	4.4	<10	<2	
1994027	Drill Core	0.08	0.04	59.9	1.0	<0.05	3.3	8.56	6.5	0.03	7	0.5	30.3	<10	3	
1994028	Drill Core	0.13	0.03	50.0	1.4	<0.05	3.3	9.55	11.0	0.03	6	0.7	40.3	<10	<2	
1994029	Drill Core	0.09	<0.02	4.1	0.5	<0.05	4.0	6.25	15.6	<0.02	2	0.4	8.7	<10	<2	
1994030	Drill Core	0.09	0.06	0.8	0.9	<0.05	3.6	7.49	7.4	<0.02	13	0.3	2.5	<10	<2	
1994031	Drill Core	0.13	0.09	101.7	1.0	<0.05	3.9	9.58	12.3	<0.02	2	0.3	22.2	<10	<2	
1994032	Drill Core	0.20	0.29	7.5	2.4	<0.05	7.3	10.54	16.9	<0.02	3	0.6	2.9	11	<2	
1994033	Drill Core	0.21	0.22	21.2	16.6	<0.05	7.6	11.49	20.8	0.12	<1	1.1	3.8	<10	<2	
1994034	Drill Core	0.10	0.03	36.9	5.2	<0.05	3.8	6.16	7.0	0.06	<1	0.7	7.1	<10	<2	
1994035	Drill Core	0.11	0.13	18.2	25.6	<0.05	5.1	10.88	14.1	0.08	<1	1.1	5.7	<10	4	
1994036	Drill Core	0.09	0.06	2.1	1.1	<0.05	4.0	13.61	21.7	0.05	1	0.5	6.5	<10	<2	
1994037	Drill Core	0.10	0.06	22.5	0.6	<0.05	5.7	12.13	22.7	0.03	16	0.6	10.3	<10	3	
1994038	Drill Core	0.10	<0.02	4.1	0.6	<0.05	5.6	4.67	11.2	0.04	11	0.3	9.0	<10	<2	
1994039	Drill Core	0.06	<0.02	2.7	0.9	<0.05	3.0	4.02	10.0	<0.02	9	0.2	5.2	<10	<2	
1994040	Drill Core	0.04	<0.02	3.0	0.4	<0.05	2.3	4.26	5.4	0.03	2	<0.1	5.5	<10	<2	
1532643	Rock	0.07	0.15	69.2	0.9	<0.05	2.4	5.87	14.2	0.03	2	0.5	28.6	<10	<2	
1532644	Rock	0.12	0.20	37.7	42.9	<0.05	5.1	1.49	9.2	0.20	2	0.6	7.0	<10	2	374
1532645	Rock	0.45	4.88	20.6	4.9	<0.05	10.7	62.81	111.8	2.76	<1	3.0	13.3	<10	<2	
1532646	Rock	0.38	3.41	11.5	4.6	<0.05	9.6	35.47	56.0	0.64	<1	1.4	7.3	<10	<2	
1532647	Rock	1.50	22.59	67.1	3.0	0.06	34.5	280.19	165.6	0.14	2	3.1	26.6	15	<2	
1532648	Rock	0.22	2.00	29.2	8.2	<0.05	6.3	42.52	21.2	0.53	<1	1.2	3.3	13	<2	



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CERTIFICATE OF ANALYSIS

WHI17000316.1

	Method Analyte Unit MDL	WGHT	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
1532141	Rock	1.95	0.47	16.05	12.85	7.3	4634	1.0	0.4	73	0.72	29.5	0.3	0.9	1.0	9.9	0.20	1.58	0.47	8	0.55
1532142	Rock	1.05	0.38	39.94	4.20	46.2	262	8.6	3.1	192	1.98	8.6	0.3	1.0	3.4	19.8	0.40	0.94	0.16	18	0.03
1532143	Rock	1.22	0.47	2.57	8.51	138.1	427	1.8	0.7	277	0.32	1.1	1.4	<0.2	1.1	102.6	1.49	0.08	0.37	2	2.49
1532144	Rock	1.26	0.16	30.92	1.65	32.6	59	11.2	3.8	233	1.39	1.2	0.1	0.3	1.3	4.3	0.04	0.11	0.09	22	0.05
1532145	Rock	0.85	0.19	29.74	2.34	35.2	82	2011.5	98.0	855	5.02	227.2	<0.1	482.3	<0.1	1.5	0.13	1.48	1.84	7	0.01
1532146	Rock	1.80	0.01	1.92	0.28	5.0	25	126.1	5.7	22	0.26	21.6	<0.1	9.3	<0.1	<0.5	0.03	0.36	0.19	2	<0.01



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Project: Adanac
Report Date: August 04, 2017

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CERTIFICATE OF ANALYSIS

WHI17000316.1

	Method	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
	MDL	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1
1532141	Rock	0.009	3.2	6.8	0.07	285.6	0.007	3	0.61	0.006	0.34	0.7	1.6	0.69	<0.02	<5	<0.1	<0.02	3.0	1.70	0.1
1532142	Rock	0.016	10.4	17.7	0.59	303.5	0.025	1	0.88	0.011	0.27	0.2	2.9	0.41	0.05	<5	0.5	0.04	4.1	3.74	<0.1
1532143	Rock	0.053	7.7	3.3	0.42	14.1	0.023	3	0.49	0.021	0.01	0.9	0.7	0.05	<0.02	<5	<0.1	<0.02	1.1	5.99	<0.1
1532144	Rock	0.009	2.4	16.4	0.69	144.0	0.052	<1	0.91	0.010	0.26	0.3	4.6	0.21	<0.02	<5	<0.1	0.03	3.5	2.07	0.1
1532145	Rock	0.003	<0.5	287.7	15.37	5.0	0.002	6	0.16	0.001	<0.01	0.2	6.6	0.06	0.06	5	2.0	0.29	0.7	0.69	0.3
1532146	Rock	<0.001	<0.5	60.9	0.86	1.2	<0.001	<1	0.04	0.002	<0.01	<0.1	1.6	<0.02	<0.02	<5	<0.1	0.10	0.1	0.20	<0.1



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Project: Adanac
Report Date: August 04, 2017

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Part: 3 of 3

CERTIFICATE OF ANALYSIS

WHI17000316.1

	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	MA370
		Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Ag
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	gm/t
		0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	2
1532141	Rock	0.04	0.13	54.6	22.2	<0.05	1.3	1.95	5.9	<0.02	<1	1.6	14.3	<10	<2	
1532142	Rock	<0.02	0.07	24.2	0.5	<0.05	0.5	1.66	18.6	<0.02	<1	0.5	13.1	<10	<2	
1532143	Rock	0.03	0.11	2.9	2.5	<0.05	1.3	7.17	7.5	0.10	<1	0.2	3.1	<10	<2	
1532144	Rock	<0.02	0.15	16.7	0.4	<0.05	0.2	3.16	5.0	0.02	<1	0.2	16.8	<10	<2	
1532145	Rock	<0.02	<0.02	1.5	0.3	<0.05	<0.1	0.25	0.2	0.03	<1	0.1	2.7	<10	2	
1532146	Rock	<0.02	<0.02	0.2	<0.1	<0.05	<0.1	0.06	0.1	<0.02	<1	<0.1	0.1	<10	<2	



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Project: Adanac
Report Date: August 04, 2017

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Part: 1 of 3

QUALITY CONTROL REPORT

WHI17000316.1

	Method	WGHT	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
Pulp Duplicates																					
REP 1994026	QC		0.71	22.55	35.23	134.8	112	63.3	14.4	1256	2.05	0.6	6.0	0.7	4.8	171.9	2.92	0.71	0.15	112	5.88
1532142	Rock	1.05	0.38	39.94	4.20	46.2	262	8.6	3.1	192	1.98	8.6	0.3	1.0	3.4	19.8	0.40	0.94	0.16	18	0.03
REP 1532142	QC		0.40	40.77	3.99	45.7	255	8.5	3.1	191	2.00	8.5	0.3	0.3	3.2	19.0	0.42	0.86	0.15	18	0.03
Core Reject Duplicates																					
1994026	Drill Core	4.26	0.63	21.88	34.07	137.7	113	66.5	14.0	1272	2.04	0.8	5.5	1.2	4.6	174.0	2.88	0.70	0.13	113	5.91
DUP 1994026	QC		0.65	21.17	35.27	134.0	108	63.3	14.4	1268	2.04	0.6	5.6	0.7	4.4	166.1	2.74	0.67	0.13	114	5.87
Reference Materials																					
STD CDN-ME-14	Standard																				
STD CDN-ME-9	Standard																				
STD DS10	Standard		15.32	159.58	146.29	353.4	1909	74.6	13.4	909	2.84	46.3	2.9	98.4	8.2	76.2	2.58	9.41	12.42	45	1.12
STD DS10	Standard		15.34	160.64	150.30	360.3	1815	78.1	13.3	901	2.82	43.7	3.1	93.3	8.7	75.1	2.51	9.41	13.36	44	1.11
STD OXC129	Standard		1.36	31.25	6.82	43.2	24	86.7	21.2	426	3.06	0.7	0.8	210.4	2.0	204.5	0.03	0.04	<0.02	50	0.72
STD OXC129	Standard		1.26	29.81	6.56	43.9	14	84.6	22.1	441	3.08	0.3	0.8	204.6	2.0	199.6	0.04	0.04	<0.02	51	0.73
STD DS10 Expected			15.1	154.61	150.55	370	2020	74.6	12.9	875	2.7188	46.2	2.59	91.9	7.5	67.1	2.62	9	11.65	43	1.0625
STD OXC129 Expected			1.3	28	6.3	42.9	28	79.5	20.3	421	3.065	0.6	0.72	195	1.9		0.03	0.04		51	0.665
STD CDN-ME-14 Expected																					
BLK	Blank		<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01
BLK	Blank		<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank		0.67	6.94	1.18	35.3	10	1.2	3.9	569	1.93	3.0	0.4	0.5	2.4	25.1	0.02	0.09	0.08	23	0.61
ROCK-WHI	Prep Blank		0.63	3.31	1.38	34.4	13	1.3	3.8	585	1.90	3.9	0.5	0.5	2.5	28.1	0.01	0.06	0.06	21	0.60



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QUALITY CONTROL REPORT

WHI17000316.1

	Method	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
	MDL	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1
Pulp Duplicates																					
REP 1994026	QC	0.041	15.0	47.6	0.33	59.7	0.085	<1	0.51	0.087	0.03	0.2	9.8	0.25	0.56	<5	1.9	0.02	2.3	0.44	<0.1
1532142	Rock	0.016	10.4	17.7	0.59	303.5	0.025	1	0.88	0.011	0.27	0.2	2.9	0.41	0.05	<5	0.5	0.04	4.1	3.74	<0.1
REP 1532142	QC	0.015	10.4	17.2	0.60	295.9	0.025	1	0.90	0.012	0.27	0.2	2.6	0.39	0.05	<5	0.4	0.03	3.9	3.56	<0.1
Core Reject Duplicates																					
1994026	Drill Core	0.042	14.2	44.6	0.32	53.8	0.078	<1	0.50	0.084	0.03	0.2	9.6	0.24	0.59	<5	2.3	<0.02	2.2	0.39	<0.1
DUP 1994026	QC	0.037	13.6	45.0	0.33	61.5	0.079	<1	0.53	0.083	0.03	0.2	9.3	0.24	0.56	8	2.0	<0.02	2.2	0.44	<0.1
Reference Materials																					
STD CDN-ME-14	Standard																				
STD CDN-ME-9	Standard																				
STD DS10	Standard	0.070	21.3	57.7	0.79	355.5	0.096	7	1.15	0.075	0.35	3.1	3.4	4.74	0.27	261	2.2	4.99	4.4	2.68	0.1
STD DS10	Standard	0.076	22.7	58.0	0.80	358.5	0.100	7	1.14	0.075	0.35	3.1	3.2	5.17	0.27	294	2.4	4.90	4.5	2.74	<0.1
STD OXC129	Standard	0.093	14.2	57.3	1.53	54.0	0.415	<1	1.59	0.608	0.37	<0.1	1.2	0.04	<0.02	<5	<0.1	<0.02	5.9	0.16	<0.1
STD OXC129	Standard	0.100	14.2	54.7	1.58	53.7	0.403	1	1.63	0.621	0.37	<0.1	1.2	0.04	<0.02	10	<0.1	<0.02	5.9	0.17	<0.1
STD DS10 Expected		0.0765	17.5	54.6	0.775	359	0.0817		1.0755	0.067	0.338	3.32	3	5.1	0.29	300	2.3	5.01	4.5	2.63	0.08
STD OXC129 Expected		0.102	13	52	1.545	50	0.4	1	1.58	0.6	0.37	0.08	1.1	0.03					5.6	0.16	
STD CDN-ME-14 Expected																					
BLK	Blank	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1
BLK	Blank	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	6	<0.1	<0.02	<0.1	<0.02	<0.1
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank	0.039	6.4	3.7	0.50	66.3	0.082	<1	0.94	0.091	0.08	0.1	3.1	<0.02	0.03	<5	<0.1	<0.02	3.7	0.14	<0.1
ROCK-WHI	Prep Blank	0.038	7.9	4.5	0.46	65.1	0.094	1	0.93	0.104	0.09	<0.1	3.7	<0.02	<0.02	8	<0.1	<0.02	4.1	0.13	0.1



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Page: 1 of 1

Part: 3 of 3

QUALITY CONTROL REPORT

WHI17000316.1

Method	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	MA370
Analyte	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Ag
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	gm/t
MDL	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	2
Pulp Duplicates															
REP 1994026	QC	0.39	0.13	2.4	11.3	<0.05	13.6	14.31	27.0	0.08	2	0.7	4.3	<10	<2
1532142	Rock	<0.02	0.07	24.2	0.5	<0.05	0.5	1.66	18.6	<0.02	<1	0.5	13.1	<10	<2
REP 1532142	QC	<0.02	0.07	23.4	0.5	<0.05	0.5	1.62	18.4	<0.02	<1	0.5	12.3	<10	<2
Core Reject Duplicates															
1994026	Drill Core	0.30	0.11	2.1	11.2	<0.05	13.2	13.64	25.5	0.05	<1	0.7	4.4	<10	<2
DUP 1994026	QC	0.34	0.14	2.3	11.0	<0.05	13.4	13.87	25.2	0.06	1	0.8	4.1	<10	<2
Reference Materials															
STD CDN-ME-14	Standard														46
STD CDN-ME-9	Standard														4
STD DS10	Standard	0.06	1.76	29.6	1.8	<0.05	3.0	9.24	39.0	0.25	44	0.6	17.8	106	181
STD DS10	Standard	0.07	1.68	29.2	1.8	<0.05	2.9	9.08	40.7	0.25	48	0.4	18.6	95	187
STD OXC129	Standard	0.27	1.59	16.7	0.8	<0.05	20.6	5.18	24.0	<0.02	<1	0.9	2.3	<10	<2
STD OXC129	Standard	0.30	1.16	15.8	0.8	<0.05	19.1	5.02	24.1	<0.02	<1	0.6	2.2	<10	<2
STD DS10 Expected		0.06	1.62	27.7	1.6		2.7	7.77	37	0.23	50	0.63	19.4	110	191
STD OXC129 Expected		0.24	1.4		0.7		21	4.7	23.7			0.8	2.22		
STD CDN-ME-14 Expected															42.3
BLK	Blank	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank														<2
Prep Wash															
ROCK-WHI	Prep Blank	0.13	0.17	2.1	0.4	<0.05	3.3	8.67	11.8	<0.02	<1	0.2	1.5	<10	<2
ROCK-WHI	Prep Blank	0.14	0.20	2.5	0.4	<0.05	4.0	9.41	13.7	<0.02	<1	0.2	1.6	<10	<2



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Submitted By: Janet Miller
Receiving Lab: Canada-Whitehorse
Received: August 03, 2017
Report Date: September 05, 2017
Page: 1 of 2

CERTIFICATE OF ANALYSIS

WHI17000469.1

CLIENT JOB INFORMATION

Project: Adanac
Shipment ID:
P.O. Number
Number of Samples: 17

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Zinex Mining Corp.
Box 997
Whistler British Columbia V0N 1B0
Canada

CC: Barry Hanslit
Caoimhe Peat

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	17	Crush, split and pulverize 250 g rock to 200 mesh			WHI
AQ202	17	1:1:1 Aqua Regia digestion ICP-MS analysis	30	Completed	VAN
SHP01	17	Per sample shipping charges for branch shipments			VAN
MA370	3	4-Acid Digestion ICP-ES Finish	0.5	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: Adanac
Report Date: September 05, 2017

Page: 2 of 2 **Part:** 1 of 3

CERTIFICATE OF ANALYSIS

WHI17000469.1

	Method Analyte Unit MDL	WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1532051	Rock	1.66	1.4	12.2	7.4	7	0.3	1.6	0.4	40	0.33	3.5	<0.5	0.3	1	<0.1	0.6	0.4	<2	0.04	0.018
1532052	Rock	1.97	0.5	74.7	20.0	131	0.4	25.2	10.3	1189	3.14	2.6	<0.5	1.8	3	2.1	0.2	0.9	52	0.16	0.050
1532053	Rock	0.84	1.0	19.8	312.8	14	59.1	1.6	0.3	4992	0.75	43.0	2.8	2.0	<1	0.3	13.2	79.2	<2	<0.01	<0.001
1532054	Rock	0.98	11.0	99.6	11.6	110	0.6	86.2	13.5	399	3.57	6.8	1.5	3.0	24	1.4	1.0	0.6	134	0.58	0.084
1532055	Rock	3.26	0.5	12.8	2.3	65	0.2	1358.8	44.4	711	2.95	63.8	1.5	<0.1	102	0.5	23.7	1.0	16	4.23	0.004
1532056	Rock	1.47	3.3	62.9	16.8	75	0.5	4.5	7.7	496	2.64	6.7	0.7	7.7	43	0.4	0.4	0.8	49	0.80	0.090
1532057	Rock	0.97	2.6	38.1	5.8	69	0.2	15.2	8.5	339	2.33	3.2	5.6	6.6	59	0.3	0.3	1.3	51	0.78	0.102
1532058	Rock	1.35	4.7	91.2	91.1	25	2.8	1.0	0.8	66	1.44	24.2	4.6	17.6	2	<0.1	2.3	26.7	<2	0.20	0.009
1532059	Rock	0.73	7.1	95.6	>10000	5347	>100	1.3	5.4	77	6.60	2308.3	281.7	28.0	20	71.3	186.4	>2000	<2	<0.01	<0.001
1532060	Rock	1.04	44.6	70.2	29.2	56	1.0	0.9	0.3	58	1.42	8.0	<0.5	39.1	1	0.5	0.6	3.7	<2	0.01	<0.001
1532061	Rock	1.05	1.4	279.7	129.1	15	9.4	1.5	1.2	35	1.53	31.6	1.9	20.4	2	<0.1	2.5	53.8	<2	0.44	<0.001
1532062	Rock	1.30	0.4	562.8	6.2	71	0.8	157.2	65.8	321	6.25	4.3	3.5	0.2	414	0.5	<0.1	0.5	303	2.68	0.140
1532063	Rock	0.50	2.6	197.0	18.7	268	1.2	6.0	1.7	64	0.32	3.0	2.1	1.9	209	6.7	0.3	2.0	4	1.70	0.046
1532064	Rock	0.88	64.2	474.0	578.7	1074	1.2	1.9	1.2	637	35.88	3839.9	19.4	19.8	6	12.0	17.3	6.7	92	0.01	0.211
1532065	Rock	1.31	22.7	136.3	163.2	86	4.0	1.0	0.3	64	8.90	877.1	4.6	31.0	1	0.7	14.9	11.8	4	<0.01	0.026
1532066	Rock	1.11	1.4	81.8	466.1	350	0.5	1.1	0.4	58	2.13	4.7	<0.5	19.8	3	0.5	1.0	0.4	2	<0.01	0.022
1532649	Rock	1.49	1.8	3865.6	7630.5	>10000	>100	24.1	21.2	>10000	15.49	1.9	36.3	0.2	6	344.1	0.2	458.0	5	6.68	0.029



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Project: Adanac
Report Date: September 05, 2017

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CERTIFICATE OF ANALYSIS

WHI17000469.1

	Method Analyte Unit MDL	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	MA370	MA370	MA370
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Pb	Zn	Ag
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	gm/t
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.02	0.01	2
1532051	Rock	2	3	0.02	20	0.001	<1	0.06	0.001	0.04	0.2	<0.01	0.4	<0.1	<0.05	<1	<0.5	<0.2			
1532052	Rock	5	21	0.95	115	0.149	4	1.53	0.024	1.18	13.3	<0.01	7.0	4.2	0.51	5	0.8	<0.2			
1532053	Rock	1	3	<0.01	8	<0.001	2	0.02	0.005	0.04	49.4	0.07	0.9	0.3	0.07	<1	<0.5	0.2			
1532054	Rock	9	126	1.22	228	0.127	<1	1.79	0.073	0.39	10.0	0.01	8.8	0.4	0.06	8	2.9	<0.2			
1532055	Rock	<1	229	6.91	51	<0.001	<1	0.18	0.001	0.02	24.7	0.01	5.5	0.4	<0.05	<1	<0.5	<0.2			
1532056	Rock	23	9	0.63	217	0.158	3	1.56	0.140	0.52	1.1	<0.01	3.9	1.2	0.13	6	<0.5	<0.2			
1532057	Rock	22	10	0.59	341	0.179	4	1.60	0.168	0.73	4.4	<0.01	2.9	0.7	<0.05	6	<0.5	<0.2			
1532058	Rock	25	2	0.02	47	0.002	2	0.56	0.021	0.28	15.8	0.02	0.5	0.6	0.34	3	<0.5	1.5			
1532059	Rock	8	2	<0.01	38	<0.001	3	0.25	0.003	0.18	3.8	0.14	0.3	1.2	1.64	5	6.8	17.1	4.54	0.50	>1500
1532060	Rock	33	2	<0.01	19	0.001	<1	0.45	0.019	0.20	1.2	<0.01	0.3	0.3	0.10	2	<0.5	<0.2			
1532061	Rock	7	2	0.02	47	0.003	2	0.52	0.007	0.32	6.2	<0.01	0.3	0.5	1.05	4	<0.5	1.6			
1532062	Rock	3	334	3.49	149	0.261	<1	7.23	0.303	2.77	<0.1	<0.01	26.0	8.9	0.84	17	1.1	<0.2			
1532063	Rock	7	5	0.08	38	0.041	2	2.00	0.088	0.02	3.3	<0.01	0.6	0.1	0.08	5	<0.5	<0.2			
1532064	Rock	7	35	0.01	23	0.012	<1	0.49	0.001	0.07	1.3	0.07	1.3	0.4	0.10	18	<0.5	<0.2			
1532065	Rock	15	5	0.01	16	<0.001	4	0.39	0.002	0.23	>100	0.04	0.5	0.6	<0.05	9	<0.5	<0.2	<0.02	0.01	4
1532066	Rock	13	2	0.03	38	<0.001	2	0.56	0.003	0.22	0.7	<0.01	1.1	0.6	<0.05	2	<0.5	<0.2			
1532649	Rock	3	4	0.78	7	0.007	<1	1.22	0.014	0.09	>100	*	3.9	1.6	6.58	8	4.9	1.7	0.71	2.41	115



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Project: Adanac
Report Date: September 05, 2017

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CERTIFICATE OF ANALYSIS

WHI17000469.1

	Method	MA370
	Analyte	W
	Unit	%
	MDL	0.01
1532051	Rock	
1532052	Rock	
1532053	Rock	
1532054	Rock	
1532055	Rock	
1532056	Rock	
1532057	Rock	
1532058	Rock	
1532059	Rock	<0.01
1532060	Rock	
1532061	Rock	
1532062	Rock	
1532063	Rock	
1532064	Rock	
1532065	Rock	0.03
1532066	Rock	
1532649	Rock	0.23

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QUALITY CONTROL REPORT

WHI17000469.1

	Method Analyte Unit MDL	WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
1532056	Rock	1.47	3.3	62.9	16.8	75	0.5	4.5	7.7	496	2.64	6.7	0.7	7.7	43	0.4	0.4	0.8	49	0.80	0.090
REP 1532056	QC		3.3	63.8	17.0	78	0.5	5.1	7.5	500	2.67	6.5	0.6	7.6	44	0.5	0.4	0.8	48	0.81	0.091
1532058	Rock	1.35	4.7	91.2	91.1	25	2.8	1.0	0.8	66	1.44	24.2	4.6	17.6	2	<0.1	2.3	26.7	<2	0.20	0.009
REP 1532058	QC		4.8	90.3	88.6	23	2.7	0.9	0.9	64	1.40	23.1	3.5	16.7	2	<0.1	2.4	25.9	<2	0.20	0.010
Reference Materials																					
STD CDN-ME-14	Standard																				
STD CDN-ME-9	Standard																				
STD DS11	Standard		13.6	146.3	146.1	351	1.7	79.1	13.4	1034	3.14	44.0	79.5	8.2	72	2.6	8.7	12.8	50	1.05	0.069
STD DS11	Standard		14.2	149.9	133.9	349	1.7	79.4	13.8	1036	3.28	43.6	70.7	7.9	77	2.5	9.1	12.4	50	1.09	0.072
STD OXC129	Standard		1.3	27.0	6.4	40	<0.1	79.6	20.7	433	3.22	0.7	201.7	1.9	222	<0.1	<0.1	<0.1	52	0.78	0.109
STD OXC129 Expected			1.3	28	6.3	42.9		79.5	20.3	421	3.065	0.6	195	1.9					51	0.665	0.102
STD DS11 Expected			14.6	156	138	345	1.71	81.9	14.2	1055	3.2082	42.8	79	7.65	67.3	2.37	8.74	12.2	50	1.063	0.0701
STD CDN-ME-14 Expected																					
STD CDN-ME-9 Expected																					
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank		0.6	3.5	2.9	33	<0.1	1.1	3.3	493	1.71	1.1	1.1	2.0	19	<0.1	<0.1	<0.1	22	0.50	0.037
ROCK-WHI	Prep Blank		0.6	4.4	1.5	34	<0.1	0.9	3.7	509	1.76	1.2	<0.5	2.3	20	<0.1	<0.1	<0.1	22	0.53	0.041



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QUALITY CONTROL REPORT

WHI17000469.1

	Method Analyte Unit MDL	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	MA370	MA370	MA370	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Pb	Zn	Ag
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	gm/t
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.1	0.05	1	0.5	0.2	0.02	0.01
Pulp Duplicates																					
1532056	Rock	23	9	0.63	217	0.158	3	1.56	0.140	0.52	1.1	<0.01	3.9	1.2	0.13	6	<0.5	<0.2			
REP 1532056	QC	23	10	0.63	219	0.157	3	1.55	0.140	0.52	1.3	<0.01	4.1	1.2	0.13	6	<0.5	<0.2			
1532058	Rock	25	2	0.02	47	0.002	2	0.56	0.021	0.28	15.8	0.02	0.5	0.6	0.34	3	<0.5	1.5			
REP 1532058	QC	24	2	0.02	47	0.002	1	0.53	0.020	0.28	15.9	<0.01	0.6	0.6	0.33	3	<0.5	1.4			
Reference Materials																					
STD CDN-ME-14	Standard																		0.47	3.00	43
STD CDN-ME-9	Standard																		<0.02	0.01	<2
STD DS11	Standard	19	58	0.86	379	0.089	4	1.16	0.073	0.40	3.2	0.28	3.2	5.1	0.29	5	1.6	5.0			
STD DS11	Standard	21	61	0.86	397	0.101	5	1.24	0.082	0.42	3.2	0.26	3.2	4.8	0.27	5	1.9	4.7			
STD OXC129	Standard	13	54	1.59	52	0.421	<1	1.74	0.629	0.39	0.1	<0.01	1.2	<0.1	<0.05	6	<0.5	<0.2			
STD OXC129 Expected		13	52	1.545	50	0.4	1	1.58	0.6	0.37			1.1			5.6					
STD DS11 Expected		18.6	61.5	0.85	385	0.0976		1.1795	0.0762	0.4	2.9	0.3	3.4	4.9	0.2835	5.1	1.9	4.56			
STD CDN-ME-14 Expected																			0.495	3.1	42.3
STD CDN-ME-9 Expected																				0.012	
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2			
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2			
BLK	Blank																		<0.02	<0.01	<2
Prep Wash																					
ROCK-WHI	Prep Blank	5	2	0.43	55	0.064	3	0.77	0.065	0.07	<0.1	<0.01	2.4	<0.1	<0.05	3	<0.5	<0.2			
ROCK-WHI	Prep Blank	5	2	0.47	46	0.066	2	0.86	0.074	0.08	<0.1	<0.01	2.5	<0.1	<0.05	3	<0.5	<0.2			

Bureau Veritas Commodities Canada Ltd.

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Project: Adanac
Report Date: September 05, 2017

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QUALITY CONTROL REPORT

WHI17000469.1

Method		MA370
Analyte		W
Unit		%
MDL		0.01
Pulp Duplicates		
1532056	Rock	
REP 1532056	QC	
1532058	Rock	
REP 1532058	QC	
Reference Materials		
STD CDN-ME-14	Standard	<0.01
STD CDN-ME-9	Standard	<0.01
STD DS11	Standard	
STD DS11	Standard	
STD OXC129	Standard	
STD OXC129 Expected		
STD DS11 Expected		
STD CDN-ME-14 Expected		
STD CDN-ME-9 Expected		
BLK	Blank	
BLK	Blank	
BLK	Blank	<0.01
Prep Wash		
ROCK-WHI	Prep Blank	
ROCK-WHI	Prep Blank	



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Client: **Zinex Mining Corp.**
Box 997
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Submitted By: Janet Miller
Receiving Lab: Canada-Whitehorse
Received: August 28, 2017
Report Date: September 21, 2017
Page: 1 of 3

CERTIFICATE OF ANALYSIS

WHI17000713.1

CLIENT JOB INFORMATION

Project: Adanac
Shipment ID:
P.O. Number
Number of Samples: 34

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Zinex Mining Corp.
Box 997
Whistler British Columbia V0N 1B0
Canada

CC: Barry Hanslit
Caoimhe Peat

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	34	Crush, split and pulverize 250 g rock to 200 mesh			WHI
AQ202	34	1:1:1 Aqua Regia digestion ICP-MS analysis	30	Completed	VAN
SHP01	34	Per sample shipping charges for branch shipments			VAN
MA370	8	4-Acid Digestion ICP-ES Finish	0.5	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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CERTIFICATE OF ANALYSIS

WHI17000713.1

	Method	Analyte	Unit	MDL	WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202			
					Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01
1532077	Rock																							
1532078	Rock																							
1532079	Rock																							
1532080	Rock																							
1532081	Rock																							
1532082	Rock																							
1532083	Rock																							
1532084	Rock																							
1532085	Rock																							
1532086	Rock																							
1532087	Rock																							
1532088	Rock																							
1532089	Rock																							
1532090	Rock																							
1532091	Rock																							
1532092	Rock																							
1532093	Rock																							
1532094	Rock																							
1532095	Rock																							
1532096	Rock																							
1532097	Rock																							
1532098	Rock																							
1532099	Rock																							
1532100	Rock																							
1532147	Rock																							
1532148	Rock																							
1532149	Rock																							
1532150	Rock																							
1532151	Rock																							
1532152	Rock																							



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CERTIFICATE OF ANALYSIS

WHI17000713.1

	Method	Analyte	Unit	MDL	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	MA370	MA370			
					La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Zn	W
					ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%
					1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.01	0.01
1532077	Rock	12	7	<0.01	14	<0.001	1	0.27	0.003	0.18	9.1	<0.01	0.5	0.3	<0.05	2	0.6	0.3					
1532078	Rock	25	17	<0.01	6	<0.001	<1	0.14	0.004	0.07	>100	*	0.5	0.2	<0.05	<1	<0.5	1.7	<0.01	0.11			
1532079	Rock	25	9	<0.01	9	<0.001	1	0.18	0.003	0.10	>100	<0.01	1.0	0.3	<0.05	1	0.6	4.7	<0.01	0.36			
1532080	Rock	341	11	<0.01	22	<0.001	18	0.92	0.002	0.39	8.1	<0.01	0.8	2.5	<0.05	4	3.1	<0.2					
1532081	Rock	29	5	<0.01	11	0.008	2	0.34	0.040	0.25	10.1	<0.01	0.8	0.4	<0.05	3	<0.5	0.4					
1532082	Rock	8	18	<0.01	3	<0.001	<1	0.05	0.001	0.04	59.8	<0.01	7.1	<0.1	<0.05	<1	<0.5	0.7					
1532083	Rock	21	15	0.06	25	0.039	2	0.76	0.029	0.18	59.0	<0.01	1.9	0.5	0.07	5	0.6	<0.2					
1532084	Rock	17	15	<0.01	15	0.001	3	0.57	0.007	0.33	>100	*	0.6	0.8	0.11	3	0.7	0.6	0.01	0.11			
1532085	Rock	30	13	<0.01	13	0.002	2	0.73	0.013	0.44	17.6	<0.01	0.5	0.8	<0.05	3	<0.5	<0.2					
1532086	Rock	17	4	<0.01	39	<0.001	<1	0.53	0.006	0.37	>100	<0.01	0.8	0.6	0.06	3	<0.5	<0.2	<0.01	0.03			
1532087	Rock	16	13	<0.01	41	<0.001	1	0.42	0.016	0.47	5.9	<0.01	0.6	0.9	0.33	3	<0.5	<0.2					
1532088	Rock	6	6	0.16	38	0.012	<1	2.48	0.273	0.85	>100	*	7.9	6.3	>10	12	14.2	0.4	0.12	0.26			
1532089	Rock	3	4	0.25	32	0.003	11	2.77	0.145	0.64	>100	*	7.0	4.1	9.42	11	8.5	0.6	9.25	0.32			
1532090	Rock	31	10	<0.01	10	0.020	1	0.56	0.089	0.34	4.9	<0.01	2.2	0.5	0.08	5	<0.5	<0.2					
1532091	Rock	8	11	0.01	12	0.001	<1	0.41	0.055	0.21	2.2	<0.01	1.4	0.3	<0.05	5	<0.5	<0.2					
1532092	Rock	2	15	<0.01	2	<0.001	<1	0.08	0.019	0.05	0.9	<0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2					
1532093	Rock	26	4	<0.01	30	<0.001	<1	0.48	0.005	0.33	5.9	0.01	1.0	0.6	0.11	6	0.8	<0.2					
1532094	Rock	<1	40	0.11	9	0.024	<1	0.54	0.008	0.12	3.7	0.03	3.5	0.5	0.10	7	1.7	0.4					
1532095	Rock	2	168	2.74	19	0.207	<1	3.80	0.024	0.19	0.7	0.02	18.9	0.9	0.08	13	1.2	<0.2					
1532096	Rock	1	20	0.40	9	0.230	<1	1.46	0.221	0.11	0.6	<0.01	5.2	0.7	0.38	5	1.4	<0.2					
1532097	Rock	<1	27	0.15	2	0.001	<1	0.23	0.001	0.02	0.8	<0.01	1.2	<0.1	<0.05	1	<0.5	<0.2					
1532098	Rock	<1	8	0.26	12	0.113	<1	4.54	0.269	0.14	10.8	<0.01	2.7	0.2	3.31	11	13.0	0.5					
1532099	Rock	2	40	1.51	86	0.337	<1	2.24	0.345	0.73	0.3	<0.01	8.5	1.9	1.81	7	0.6	<0.2					
1532100	Rock	42	8	0.03	20	0.003	1	0.58	0.039	0.16	0.7	<0.01	1.2	0.2	<0.05	3	<0.5	0.6					
1532147	Rock	39	6	0.04	23	0.008	<1	0.42	0.043	0.18	>100	<0.01	1.4	0.3	<0.05	3	<0.5	<0.2	<0.01	0.02			
1532148	Rock	25	8	0.02	26	0.009	<1	0.48	0.056	0.20	2.4	<0.01	1.8	0.3	<0.05	4	<0.5	0.5					
1532149	Rock	32	4	<0.01	20	0.001	1	0.30	0.049	0.21	0.9	<0.01	0.9	0.3	<0.05	2	<0.5	<0.2					
1532150	Rock	19	11	<0.01	22	<0.001	<1	0.47	0.009	0.34	4.1	<0.01	0.8	0.4	<0.05	3	1.0	0.3					
1532151	Rock	6	9	<0.01	2	<0.001	<1	0.05	0.003	0.05	>100	*	0.4	0.1	<0.05	<1	<0.5	62.6	<0.01	0.18			
1532152	Rock	66	5	<0.01	51	0.002	1	0.47	0.007	0.22	4.2	0.03	0.6	0.5	0.06	6	2.3	1.1					



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Client: **Zinex Mining Corp.**
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Whistler British Columbia V0N 1B0 Canada

Project: Adanac
Report Date: September 21, 2017

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Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI17000713.1

	Method Analyte Unit MDL	WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1532153	Rock	2.05	4.4	228.4	32.7	267	1.0	4.5	9.8	540	4.91	7.0	3.1	6.5	43	2.3	1.1	15.6	85	0.66	0.095
1532154	Rock	3.14	4.5	262.0	15.3	131	0.5	7.0	16.5	598	6.13	2.3	4.0	3.0	79	0.7	0.8	9.3	120	1.22	0.121
1532155	Rock	1.81	<0.1	12.0	0.8	27	<0.1	1864.1	97.5	800	4.80	8.4	11.6	<0.1	3	<0.1	0.4	0.3	30	0.28	0.001
1532644	Rock	0.71	0.6	31.0	11.1	659	0.2	2.4	0.7	219	1.73	3.4	0.9	33.9	2	16.4	0.3	3.1	<2	0.11	0.001



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Project: Adanac
Report Date: September 21, 2017

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CERTIFICATE OF ANALYSIS

WHI17000713.1

Method Analyte Unit MDL		AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	MA370	MA370
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Zn	W
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.01	0.01
1532153	Rock	17	25	1.16	98	0.186	2	1.94	0.110	0.25	5.0	<0.01	7.8	1.1	1.18	10	<0.5	0.3		
1532154	Rock	11	34	1.59	151	0.233	5	3.23	0.286	0.44	7.4	<0.01	11.6	1.9	1.84	13	0.5	<0.2		
1532155	Rock	<1	866	18.08	6	0.006	9	0.54	0.001	<0.01	0.3	<0.01	9.6	<0.1	0.15	<1	<0.5	<0.2		
1532644	Rock	57	6	0.05	12	0.011	1	0.67	0.136	0.22	1.4	<0.01	3.2	0.2	0.18	5	<0.5	<0.2		



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QUALITY CONTROL REPORT

WHI17000713.1

	Method Analyte Unit MDL	WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
1532078	Rock	2.14	37.8	19.9	7.9	15	0.4	0.8	0.4	222	0.86	5.2	31.3	19.0	<1	0.3	1.4	84.8	<2	<0.01	0.003
REP 1532078	QC		36.5	19.6	8.4	16	0.4	1.0	0.5	220	0.86	5.9	25.8	20.9	<1	0.2	1.5	87.3	<2	<0.01	0.003
1532147	Rock	1.46	57.4	36.9	5.3	12	<0.1	0.8	1.2	109	1.00	6.0	0.7	19.8	2	0.1	1.7	0.6	2	0.15	0.007
REP 1532147	QC																				
1532152	Rock	1.88	1.9	549.4	44.5	49	2.9	0.8	0.3	66	18.10	7720.4	232.8	99.0	2	3.6	93.1	129.8	<2	<0.01	0.006
REP 1532152	QC		2.1	559.2	45.6	53	2.8	1.0	0.2	60	18.22	7907.6	248.1	105.1	2	3.6	97.6	137.9	<2	<0.01	0.005
Core Reject Duplicates																					
1532644	Rock	0.71	0.6	31.0	11.1	659	0.2	2.4	0.7	219	1.73	3.4	0.9	33.9	2	16.4	0.3	3.1	<2	0.11	0.001
DUP 1532644	QC		0.6	28.8	10.0	613	0.2	2.0	0.7	226	1.72	2.6	1.8	30.7	2	15.6	0.2	2.4	<2	0.10	0.002
Reference Materials																					
STD CDN-ME-14	Standard																				
STD CDN-ME-9	Standard																				
STD DS11	Standard		14.3	147.5	134.6	340	1.7	79.6	14.4	1005	3.12	42.8	90.8	7.9	65	2.4	8.8	11.8	51	1.04	0.067
STD DS11	Standard		15.4	153.5	135.1	347	1.7	81.6	13.6	1081	3.16	48.6	80.3	7.6	62	2.4	8.0	11.8	50	1.06	0.069
STD OXC129	Standard		1.2	25.7	5.9	39	<0.1	76.6	19.8	396	2.99	0.8	186.6	1.7	168	<0.1	<0.1	<0.1	53	0.62	0.093
STD OXC129	Standard		1.4	29.9	5.9	39	<0.1	88.8	22.1	421	3.08	0.7	198.5	1.8	174	<0.1	<0.1	<0.1	53	0.70	0.106
STD OXC129 Expected			1.3	28	6.3	42.9		79.5	20.3	421	3.065	0.6	195	1.9					51	0.665	0.102
STD DS11 Expected			14.6	156	138	345	1.71	81.9	14.2	1055	3.2082	42.8	79	7.65	67.3	2.37	8.74	12.2	50	1.063	0.0701
STD CDN-ME-14 Expected																					
STD CDN-ME-9 Expected																					
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank		0.7	2.5	1.2	31	<0.1	0.9	3.9	542	1.92	0.9	<0.5	2.5	25	<0.1	<0.1	<0.1	23	0.56	0.036
ROCK-WHI	Prep Blank		0.7	3.7	1.0	35	<0.1	0.8	4.1	543	1.98	0.7	<0.5	2.2	23	<0.1	<0.1	<0.1	25	0.57	0.041



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Box 997
Whistler British Columbia V0N 1B0 Canada

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Report Date: September 21, 2017

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QUALITY CONTROL REPORT

WHI17000713.1

	Method Analyte Unit MDL	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	MA370	MA370		
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Zn	W		
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%		
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.01	0.01		
Pulp Duplicates																						
1532078	Rock	25	17	<0.01	6	<0.001	<1	0.14	0.004	0.07	>100	*	0.5	0.2	<0.05	<1	<0.5	1.7	<0.01	0.11		
REP 1532078	QC	26	18	<0.01	7	<0.001	<1	0.14	0.005	0.07	>100	*	0.5	0.2	<0.05	<1	<0.5	2.1				
1532147	Rock	39	6	0.04	23	0.008	<1	0.42	0.043	0.18	>100	<0.01	1.4	0.3	<0.05	3	<0.5	<0.2	<0.01	0.02		
REP 1532147	QC																			<0.01	0.02	
1532152	Rock	66	5	<0.01	51	0.002	1	0.47	0.007	0.22	4.2	0.03	0.6	0.5	0.06	6	2.3	1.1				
REP 1532152	QC	61	5	<0.01	49	0.002	<1	0.49	0.006	0.23	4.8	0.03	0.7	0.4	0.06	7	2.5	1.2				
Core Reject Duplicates																						
1532644	Rock	57	6	0.05	12	0.011	1	0.67	0.136	0.22	1.4	<0.01	3.2	0.2	0.18	5	<0.5	<0.2				
DUP 1532644	QC	55	5	0.05	8	0.009	1	0.64	0.128	0.20	1.3	<0.01	2.8	0.2	0.18	5	0.6	<0.2				
Reference Materials																						
STD CDN-ME-14	Standard																			3.21	<0.01	
STD CDN-ME-9	Standard																			0.01	<0.01	
STD DS11	Standard	18	58	0.83	365	0.093	6	1.19	0.074	0.41	3.1	0.28	3.4	4.7	0.28	5	1.8	4.5				
STD DS11	Standard	20	66	0.84	412	0.100	8	1.16	0.074	0.40	3.1	0.28	3.3	5.0	0.28	5	2.7	4.7				
STD OXC129	Standard	12	51	1.54	49	0.394	2	1.55	0.570	0.38	<0.1	<0.01	1.1	<0.1	<0.05	5	<0.5	<0.2				
STD OXC129	Standard	13	56	1.57	52	0.461	2	1.54	0.591	0.37	<0.1	<0.01	0.9	<0.1	<0.05	5	<0.5	<0.2				
STD OXC129 Expected		13	52	1.545	50	0.4	1	1.58	0.6	0.37				1.1				5.6				
STD DS11 Expected		18.6	61.5	0.85	385	0.0976			1.1795	0.0762	0.4	2.9	0.3	3.4	4.9	0.2835	5.1	1.9	4.56			
STD CDN-ME-14 Expected																				3.1		
STD CDN-ME-9 Expected																				0.012		
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2				
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2				
BLK	Blank																			<0.01	<0.01	
Prep Wash																						
ROCK-WHI	Prep Blank	6	5	0.44	70	0.083	1	0.99	0.141	0.13	0.2	<0.01	3.5	<0.1	<0.05	4	<0.5	<0.2				
ROCK-WHI	Prep Blank	6	8	0.50	59	0.077	1	1.05	0.129	0.13	0.2	<0.01	4.1	<0.1	<0.05	4	<0.5	<0.2				



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Client: **Zinex Mining Corp.**
Box 997
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Submitted By: Janet Miller
Receiving Lab: Canada-Whitehorse
Received: June 26, 2018
Report Date: August 10, 2018
Page: 1 of 3

CERTIFICATE OF ANALYSIS

WHI18000174.1

CLIENT JOB INFORMATION

Project: Adanac
Shipment ID:
P.O. Number
Number of Samples: 38

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Zinex Mining Corp.
Box 997
Whistler British Columbia V0N 1B0
Canada

CC: Barry Hanslit

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP90-250	38	Crush (>90%), split and pulverize 250g rock to 200 mesh			WHI
AQ202	38	1:1:1 Aqua Regia digestion ICP-MS analysis	30	Completed	VAN
SHP01	38	Per sample shipping charges for branch shipments			VAN
MA370	5	4-Acid Digestion ICP-ES Finish	0.5	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: Adanac
Report Date: August 10, 2018

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Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI18000174.1

	Method	Analyte	Unit	MDL	WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202			
					Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	1	0.01
1478001	Rock																							
1478002	Rock																							
1478003	Rock																							
1478004	Rock																							
1478005	Rock																							
1478006	Rock																							
1478007	Rock																							
1478008	Rock																							
1478009	Rock																							
1478010	Rock																							
1478011	Rock																							
1478012	Rock																							
1478013	Rock																							
1478014	Rock																							
1478015	Rock																							
1478016	Rock																							
1478017	Rock																							
1478018	Rock																							
199451	Rock																							
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199460	Rock																							
199461	Rock																							
199462	Rock																							



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Project: Adanac
Report Date: August 10, 2018

Page: 2 of 3 **Part:** 2 of 2

CERTIFICATE OF ANALYSIS

WHI18000174.1

	Method Analyte Unit MDL	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	MA370
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te	W
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.01
1478001	Rock	20	2	0.04	29	0.024	2	0.46	0.048	0.28	21.0	<0.01	1.6	0.6	<0.05	6	<0.5	<0.2	
1478002	Rock	19	2	0.04	45	0.026	1	0.50	0.038	0.28	6.5	<0.01	1.3	0.7	0.30	5	<0.5	<0.2	
1478003	Rock	9	1	0.01	113	0.003	5	0.90	0.045	0.67	>100	<0.01	0.5	1.0	0.50	6	1.7	0.6	0.02
1478004	Rock	23	2	0.01	8	0.005	2	0.28	0.032	0.14	66.6	<0.01	0.5	0.2	<0.05	2	<0.5	<0.2	
1478005	Rock	49	2	<0.01	10	<0.001	9	0.34	0.003	0.26	1.7	<0.01	0.4	0.9	0.21	2	<0.5	<0.2	
1478006	Rock	23	2	0.01	11	0.008	2	0.32	0.044	0.22	>100	<0.01	0.7	0.2	<0.05	2	<0.5	<0.2	0.02
1478007	Rock	67	2	<0.01	12	<0.001	8	0.31	0.003	0.23	5.6	0.22	0.4	1.0	0.17	2	<0.5	<0.2	
1478008	Rock	34	2	0.01	10	0.001	2	0.40	0.004	0.12	7.0	<0.01	0.5	0.3	<0.05	2	<0.5	<0.2	
1478009	Rock	41	2	<0.01	8	<0.001	8	0.35	0.003	0.24	3.6	0.33	0.4	0.8	0.32	2	0.9	<0.2	
1478010	Rock	25	2	0.01	11	0.005	4	0.29	0.020	0.16	>100	<0.01	0.4	0.2	<0.05	1	<0.5	<0.2	0.01
1478011	Rock	49	2	0.02	16	0.002	15	0.55	0.004	0.29	4.3	0.41	0.6	1.9	0.73	4	1.4	0.3	
1478012	Rock	30	2	0.03	29	0.012	1	0.33	0.040	0.19	7.5	<0.01	1.1	0.3	<0.05	3	<0.5	<0.2	
1478013	Rock	6	2	<0.01	9	<0.001	1	0.21	0.050	0.11	1.8	<0.01	0.6	0.1	<0.05	2	<0.5	<0.2	
1478014	Rock	3	10	0.19	74	0.027	<1	0.29	0.017	0.08	0.3	<0.01	1.8	0.2	<0.05	2	<0.5	<0.2	
1478015	Rock	<1	2	<0.01	3	<0.001	<1	<0.01	0.006	<0.01	0.7	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
1478016	Rock	<1	7	0.03	4	<0.001	<1	0.09	0.004	0.06	0.5	<0.01	0.3	0.2	<0.05	<1	<0.5	<0.2	
1478017	Rock	<1	3	0.03	12	<0.001	2	0.09	0.002	0.06	0.5	<0.01	0.6	0.1	<0.05	<1	<0.5	<0.2	
1478018	Rock	4	3	0.02	21	0.003	2	0.49	0.008	0.29	>100	<0.01	0.7	0.9	3.08	2	0.7	<0.2	0.42
199451	Rock	32	2	0.04	55	0.027	<1	0.47	0.042	0.25	16.2	<0.01	1.4	0.5	0.34	6	0.9	0.2	
199452	Rock	28	2	0.03	46	0.019	<1	0.50	0.047	0.22	18.3	<0.01	1.3	0.4	0.20	6	0.5	<0.2	
199453	Rock	24	2	0.05	85	0.019	<1	0.49	0.037	0.29	41.6	<0.01	1.4	0.5	0.07	6	<0.5	<0.2	
199454	Rock	32	2	0.03	139	0.017	1	0.55	0.053	0.21	10.1	<0.01	1.3	0.4	0.33	4	<0.5	<0.2	
199455	Rock	9	2	0.03	51	0.002	2	0.38	0.025	0.23	3.8	<0.01	0.4	0.5	0.42	2	<0.5	0.4	
199456	Rock	10	2	<0.01	158	0.001	3	0.34	0.008	0.27	9.2	0.02	0.4	0.7	0.16	2	0.7	0.6	
199457	Rock	20	2	0.07	94	0.016	3	1.38	0.208	0.77	93.6	<0.01	1.5	2.8	0.41	9	<0.5	<0.2	
199458	Rock	35	2	0.01	32	0.012	2	0.40	0.057	0.25	5.1	<0.01	0.8	0.5	0.10	4	<0.5	0.3	
199459	Rock	29	<1	0.09	110	0.020	6	3.42	1.230	1.22	>100	<0.01	3.5	4.4	1.19	18	<0.5	0.6	0.07
199460	Rock	29	2	0.05	59	0.028	<1	0.53	0.045	0.33	12.8	<0.01	2.2	0.8	0.55	6	<0.5	0.2	
199461	Rock	2	15	0.61	34	0.148	<1	0.78	0.135	0.16	3.1	<0.01	7.1	0.6	<0.05	4	<0.5	<0.2	
199462	Rock	25	2	0.03	43	0.013	4	0.50	0.041	0.27	20.4	0.02	0.9	0.5	0.43	5	1.0	<0.2	



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Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI18000174.1

	Method Analyte Unit MDL	WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	1	0.01	0.001
199463	Rock	0.44	1.1	12.1	5.9	46	<0.1	1.8	2.2	212	1.34	3.0	0.6	21.3	16	0.5	0.4	0.4	11	0.18	0.021	
199464	Rock	0.66	16.4	380.6	5.0	5	0.2	0.6	1.2	45	1.95	6.6	1.7	42.9	2	0.1	1.2	1.4	<1	0.29	<0.001	
199465	Rock	0.59	17.0	387.8	6.1	12	0.5	0.8	4.0	35	1.67	30.1	2.8	32.4	2	0.3	4.5	5.1	<1	0.14	0.002	
199466	Rock	0.85	14.9	117.1	7.5	21	0.2	0.6	1.9	121	1.89	2.8	0.8	32.9	1	0.1	0.3	0.2	3	0.06	0.001	
199467	Rock	0.74	5.4	126.5	11.3	102	0.2	0.6	1.7	43	1.18	21.5	1.9	30.9	2	1.3	6.3	2.5	1	0.18	0.001	
199468	Rock	0.44	9.2	403.1	8.7	13	0.3	0.9	5.7	40	1.82	11.9	2.1	52.0	3	0.6	1.3	1.0	<1	0.25	<0.001	
199469	Rock	0.44	3.2	148.7	47.4	14	0.7	0.4	1.7	47	1.47	25.7	1.5	40.3	2	<0.1	12.0	1.5	<1	0.19	0.001	
199470	Rock	0.82	1.2	30.9	162.1	378	1.0	1.3	1.5	1952	1.14	5.8	1.7	33.9	9	4.3	2.7	0.9	<1	0.41	0.015	



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Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI18000174.1

	Method Analyte Unit MDL	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	MA370
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te	W
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.01
199463	Rock	26	4	0.22	141	0.040	2	0.88	0.081	0.32	1.7	<0.01	2.3	0.6	<0.05	5	<0.5	<0.2	
199464	Rock	9	2	<0.01	41	0.004	3	0.78	0.020	0.46	16.9	0.01	0.5	0.7	0.79	4	1.1	0.4	
199465	Rock	18	1	0.01	77	0.003	2	0.63	0.010	0.33	23.7	<0.01	0.4	0.7	0.59	4	1.2	1.9	
199466	Rock	28	2	0.05	47	0.018	3	0.63	0.101	0.24	3.0	<0.01	1.7	0.3	0.18	5	0.7	<0.2	
199467	Rock	23	1	0.01	26	0.002	3	0.42	0.073	0.20	1.4	<0.01	0.5	0.3	0.33	2	<0.5	<0.2	
199468	Rock	11	1	<0.01	59	0.003	3	0.60	0.030	0.39	7.6	<0.01	0.4	0.6	0.88	4	0.8	0.3	
199469	Rock	10	2	0.01	69	0.003	5	0.59	0.008	0.40	5.3	0.03	0.5	1.2	0.47	5	0.7	0.3	
199470	Rock	32	2	0.05	133	0.002	11	1.13	0.005	0.36	6.4	0.01	1.2	0.9	0.19	5	<0.5	<0.2	



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QUALITY CONTROL REPORT

WHI18000174.1

	Method Analyte Unit MDL	WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	1	0.01	0.001
Pulp Duplicates																						
199461	Rock	0.56	0.9	39.2	1.3	35	<0.1	10.2	11.9	260	1.82	0.9	3.5	0.3	8	0.2	<0.1	3.4	67	0.91	0.051	
REP 199461	QC		0.9	37.2	1.2	33	<0.1	10.1	10.8	245	1.76	1.0	3.2	0.3	8	0.2	<0.1	3.2	65	0.88	0.047	
199470	Rock	0.82	1.2	30.9	162.1	378	1.0	1.3	1.5	1952	1.14	5.8	1.7	33.9	9	4.3	2.7	0.9	<1	0.41	0.015	
REP 199470	QC		1.3	32.5	166.8	391	1.0	1.1	1.6	1947	1.14	6.3	1.4	34.2	9	3.9	2.7	1.0	<1	0.40	0.015	
Core Reject Duplicates																						
1478009	Rock	1.78	48.0	52.7	4708.9	1465	16.9	0.4	0.2	59	0.92	3770.6	179.6	32.0	5	21.2	126.7	6.6	<1	0.03	0.001	
DUP 1478009	QC		46.6	55.5	5185.7	1686	19.0	0.4	0.2	71	0.99	4029.2	196.6	31.5	4	22.7	143.2	6.2	<1	0.04	0.001	
Reference Materials																						
STD CDN-ME-14	Standard																					
STD CDN-ME-9	Standard																					
STD DS11	Standard		14.6	154.6	137.6	363	1.8	82.7	14.1	1056	3.26	47.1	62.9	7.8	71	2.3	8.0	11.7	50	1.11	0.066	
STD DS11	Standard		14.6	162.0	142.0	358	1.7	80.0	15.6	942	3.25	45.8	70.7	8.9	70	2.7	7.7	14.1	50	1.08	0.079	
STD OXC129	Standard		1.3	26.5	5.8	41	<0.1	77.7	19.6	387	3.09	0.8	184.6	1.7	189	<0.1	<0.1	<0.1	53	0.74	0.098	
STD OXC129	Standard		1.3	30.6	6.4	43	<0.1	83.3	23.5	392	3.06	0.6	188.2	2.0	199	<0.1	<0.1	<0.1	52	0.67	0.097	
STD OXC129 Expected			1.3	28	6.2	42.9		79.5	20.3	421	3.065	0.6	195	1.9					51	0.684	0.102	
STD DS11 Expected			14.6	149	138	345	1.71	77.7	14.2	1055	3.1	42.8	79	7.65	67.3	2.37	8.74	12.2	50	1.063	0.0701	
BLK	Blank		<0.1	0.4	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.001	
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.001	
BLK	Blank																					
Prep Wash																						
ROCK-WHI	Prep Blank		0.9	3.0	2.0	39	<0.1	0.7	3.7	558	1.80	1.9	1.3	2.3	19	<0.1	<0.1	<0.1	19	0.66	0.044	
ROCK-WHI	Prep Blank		0.9	3.3	1.3	37	<0.1	0.8	3.8	571	1.77	1.8	0.7	2.3	21	<0.1	<0.1	<0.1	20	0.65	0.045	



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QUALITY CONTROL REPORT

WHI18000174.1

Method	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	MA370
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te	W
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.01
Pulp Duplicates																		
199461	Rock	2	15	0.61	34	0.148	<1	0.78	0.135	0.16	3.1	<0.01	7.1	0.6	<0.05	4	<0.5	<0.2
REP 199461	QC	2	14	0.59	32	0.142	<1	0.75	0.131	0.16	2.9	<0.01	6.5	0.6	<0.05	4	<0.5	<0.2
199470	Rock	32	2	0.05	133	0.002	11	1.13	0.005	0.36	6.4	0.01	1.2	0.9	0.19	5	<0.5	<0.2
REP 199470	QC	32	2	0.05	127	0.002	8	1.09	0.005	0.35	6.3	0.02	1.2	0.9	0.19	5	<0.5	<0.2
Core Reject Duplicates																		
1478009	Rock	41	2	<0.01	8	<0.001	8	0.35	0.003	0.24	3.6	0.33	0.4	0.8	0.32	2	0.9	<0.2
DUP 1478009	QC	38	2	<0.01	8	<0.001	8	0.38	0.003	0.25	3.5	0.33	0.4	0.8	0.35	2	0.9	<0.2
Reference Materials																		
STD CDN-ME-14	Standard																	<0.01
STD CDN-ME-9	Standard																	<0.01
STD DS11	Standard	19	58	0.89	355	0.102	9	1.23	0.082	0.42	3.3	0.28	3.6	4.8	0.28	5	2.0	4.8
STD DS11	Standard	21	66	0.86	364	0.098	7	1.17	0.075	0.39	3.0	0.26	3.4	4.9	0.29	5	2.0	4.5
STD OXC129	Standard	12	52	1.59	50	0.403	2	1.65	0.626	0.39	<0.1	<0.01	0.9	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	13	56	1.54	48	0.406	<1	1.54	0.580	0.35	<0.1	<0.01	1.2	0.1	<0.05	6	<0.5	<0.2
STD OXC129 Expected		12.5	52	1.545	50	0.4	1	1.58	0.59	0.3655			1.1			5.5		
STD DS11 Expected		18.6	61.5	0.85	385	0.0976		1.1795	0.0762	0.4	2.9	0.26	3.4	4.9	0.2835	5.1	2.2	4.56
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank																	<0.01
Prep Wash																		
ROCK-WHI	Prep Blank	6	2	0.47	47	0.060	3	0.85	0.076	0.08	1.9	<0.01	2.8	<0.1	<0.05	3	<0.5	<0.2
ROCK-WHI	Prep Blank	6	2	0.48	56	0.070	2	0.88	0.080	0.10	0.1	<0.01	2.7	<0.1	<0.05	3	<0.5	<0.2



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Received: July 03, 2018
Report Date: August 15, 2018
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CERTIFICATE OF ANALYSIS

WHI18000229.1

CLIENT JOB INFORMATION

Project: Adanac
Shipment ID:
P.O. Number
Number of Samples: 25

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

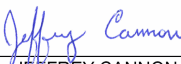
Invoice To: Zinex Mining Corp.
Box 997
Whistler British Columbia V0N 1B0
Canada

CC: Barry Hanslit

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP90-250	25	Crush (>90%), split and pulverize 250g rock to 200 mesh			WHI
SLBHP	25	Sort, label and box pulps			WHI
AQ202	25	1:1:1 Aqua Regia digestion ICP-MS analysis	30	Completed	VAN
SHP01	25	Per sample shipping charges for branch shipments			VAN
MA370	6	4-Acid Digestion ICP-ES Finish	0.5	Completed	VAN

ADDITIONAL COMMENTS


JEFFREY CANNON
Geochemistry Department Supervisor

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Part: 1 of 3

CERTIFICATE OF ANALYSIS

WHI18000229.1

	Method	Analyte	Unit	MDL	WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202			
					Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	1	0.01
1478023	Rock			0.81	17.6	579.2	>10000	>10000	>100	2.7	3.2	843	5.24	>10000	1875.9	0.1	7	1379.2	649.3	106.1	5	0.13	0.002	
1478024	Rock			1.49	1.8	418.2	>10000	>10000	>100	2.6	3.2	1551	6.14	>10000	2410.7	<0.1	7	1574.1	364.6	232.5	2	0.66	0.001	
1478025	Rock			1.06	2.2	97.6	8186.5	>10000	20.4	11.7	14.2	375	6.06	104.8	3.3	10.1	12	110.1	10.3	1.4	26	0.22	0.095	
1478026	Rock			1.23	7.1	500.1	3382.2	3931	12.3	11.6	13.0	351	4.79	244.9	1.7	11.6	12	68.6	13.1	3.4	22	0.22	0.106	
1478027	Rock			1.41	1.7	293.8	584.1	869	21.6	9.7	10.9	86	6.54	68.9	4.2	9.2	10	13.9	17.2	32.8	13	0.30	0.036	
1478028	Rock			1.01	2.1	1081.2	117.4	299	13.2	3.0	4.1	53	2.35	>10000	7.3	9.1	5	6.8	35.0	11.6	2	0.02	0.009	
1478029	Rock			1.30	1.1	128.4	207.3	128	12.4	7.6	6.7	28	7.79	1994.8	21.1	4.2	5	1.9	28.2	26.6	4	<0.01	0.004	
1478030	Rock			1.88	2.8	81.7	338.1	44	16.4	2.8	4.4	62	2.10	6385.8	14.5	4.5	10	0.5	22.3	48.1	9	0.03	0.050	
1478031	Rock			1.74	1.9	796.5	1887.5	5461	62.6	10.1	9.8	1645	6.14	5374.7	13.2	7.2	15	72.8	42.5	53.1	53	1.58	0.135	
1478032	Rock			1.39	14.0	300.2	179.2	3881	5.0	24.8	25.1	960	6.79	43.8	1.7	10.2	12	47.9	3.6	10.1	174	1.12	0.250	
1478033	Rock			0.81	45.4	141.8	407.0	940	11.3	4.2	4.9	501	3.23	73.3	3.0	13.5	10	11.2	3.5	54.4	17	0.11	0.076	
1478034	Rock			1.11	7.2	304.2	42.3	52	3.5	1.6	1.0	185	1.13	938.2	1.8	13.1	10	0.8	2.1	1.4	7	0.03	0.010	
1478035	Rock			0.96	108.1	309.9	138.0	128	6.7	6.3	107.6	1527	4.22	3752.3	575.1	18.2	13	1.3	11.9	269.2	38	0.11	0.059	
1478036	Rock			0.83	3.4	633.8	23.7	357	7.1	8.3	2.1	853	5.64	140.9	3.1	7.8	7	2.0	2.9	37.4	85	0.18	0.097	
1478037	Rock			1.36	7.4	>10000	1749.4	733	>100	0.4	2.2	815	15.25	>10000	3278.6	27.5	2	21.6	1332.3	11.0	3	<0.01	<0.001	
1478038	Rock			1.23	0.7	33.7	35.4	3712	1.3	18.8	15.8	1906	4.60	160.5	3.7	7.8	45	13.8	1.2	3.1	77	0.76	0.106	
1478039	Rock			0.63	4.1	757.3	1402.7	228	38.1	0.8	3.4	89	2.72	4647.1	24.0	16.1	40	10.6	7.7	16.5	2	0.08	0.003	
1478040	Rock			1.85	2.3	>10000	>10000	551	>100	0.9	13.9	578	15.69	>10000	893.4	44.3	6	20.5	406.0	382.3	9	<0.01	0.006	
1478041	Rock			0.80	4.3	68.1	101.9	512	1.0	1.1	6.1	3916	1.42	199.0	2.4	14.9	10	3.1	1.1	1.3	<1	0.03	0.002	
1478042	Rock			1.75	1.2	77.1	81.9	5636	3.1	28.7	16.2	1873	4.91	406.9	1.5	7.6	153	42.4	1.1	7.5	91	1.09	0.081	
1999471	Rock			0.47	0.3	3918.7	600.9	3172	65.3	63.5	53.1	140	17.21	14.0	25.3	<0.1	3	50.5	1.2	120.4	47	3.77	0.005	
1999472	Rock			0.97	0.3	67.6	3.1	32	<0.1	30.2	15.5	163	1.90	24.8	<0.5	<0.1	25	0.1	0.1	0.3	63	1.27	0.049	
1999473	Rock			0.40	0.5	178.0	648.7	25	62.1	1.3	0.4	85	1.90	64.8	12.9	<0.1	1	0.2	1.0	120.3	42	0.02	0.008	
1999474	Rock			0.67	1.5	189.2	176.6	221	28.6	6.6	1.6	108	2.27	319.9	<0.5	<0.1	<1	0.6	2.4	51.3	4	0.04	0.004	
1999475	Rock			0.74	0.5	72.4	2.8	32	0.2	26.7	21.5	217	2.12	5.0	<0.5	0.1	5	0.2	0.1	0.4	71	0.85	0.062	



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Report Date: August 15, 2018

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CERTIFICATE OF ANALYSIS

WHI18000229.1

	Method Analyte Unit MDL	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	MA370	MA370	MA370
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te	Cu	Pb	Zn
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	%
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.001	0.02	0.01
1478023	Rock	<1	5	0.02	3	<0.001	<1	0.21	<0.001	0.04	0.2	0.09	0.8	0.9	8.04	3	2.4	<0.2	0.057	>10	11.51
1478024	Rock	<1	4	0.21	2	<0.001	<1	0.03	<0.001	<0.01	0.4	0.12	0.3	0.7	7.12	2	4.4	<0.2	0.043	4.03	13.90
1478025	Rock	13	14	0.68	30	0.009	2	1.42	0.006	0.78	0.3	0.01	2.3	4.3	5.88	5	<0.5	<0.2	0.010	0.79	1.05
1478026	Rock	17	10	0.30	61	0.003	4	1.49	0.006	0.70	0.3	<0.01	2.3	3.4	3.21	5	<0.5	<0.2			
1478027	Rock	8	8	0.10	28	0.002	4	0.83	0.006	0.54	1.6	<0.01	1.8	2.1	7.61	3	2.3	<0.2			
1478028	Rock	15	8	0.02	7	<0.001	2	0.15	0.002	0.10	43.6	<0.01	0.3	0.5	1.32	<1	<0.5	<0.2			
1478029	Rock	11	7	<0.01	5	0.001	2	0.06	0.001	0.03	2.2	<0.01	0.3	0.1	8.15	<1	<0.5	<0.2			
1478030	Rock	10	8	0.07	49	0.002	2	0.64	0.005	0.45	0.9	<0.01	1.3	1.7	0.84	3	<0.5	<0.2			
1478031	Rock	11	21	0.46	21	0.016	10	2.64	0.017	1.61	3.4	<0.01	5.8	5.6	4.94	9	0.6	0.3			
1478032	Rock	27	83	2.68	60	0.294	6	2.86	0.027	2.80	1.6	<0.01	12.5	11.8	3.25	12	<0.5	<0.2			
1478033	Rock	22	9	0.24	90	0.010	3	1.24	0.010	0.61	4.0	<0.01	2.0	2.0	1.86	5	<0.5	<0.2			
1478034	Rock	8	14	0.12	172	0.003	1	0.45	0.004	0.21	0.2	<0.01	1.5	0.4	<0.05	2	<0.5	<0.2			
1478035	Rock	10	16	0.54	169	0.015	3	1.46	0.009	0.44	0.8	<0.01	3.5	1.6	0.20	8	0.7	0.7			
1478036	Rock	19	24	1.25	122	0.006	4	2.88	0.004	0.23	0.1	<0.01	8.0	0.5	<0.05	14	<0.5	<0.2			
1478037	Rock	3	<1	0.01	21	<0.001	5	0.79	<0.001	0.14	0.1	<0.01	4.0	1.0	1.61	2	22.5	10.1	2.347	0.15	0.07
1478038	Rock	15	34	1.53	143	0.087	5	2.74	0.019	0.13	0.4	<0.01	5.4	0.2	<0.05	8	<0.5	<0.2			
1478039	Rock	11	2	0.03	74	<0.001	3	0.61	0.006	0.22	0.2	<0.01	1.1	0.7	0.18	2	1.2	0.2			
1478040	Rock	2	<1	0.01	75	0.005	9	0.72	0.002	0.20	1.1	0.04	2.9	0.8	1.60	9	17.2	0.6	4.774	1.14	0.06
1478041	Rock	10	2	0.01	94	<0.001	3	0.35	0.003	0.20	0.2	<0.01	0.7	0.3	<0.05	<1	<0.5	<0.2			
1478042	Rock	14	61	1.54	252	0.087	3	3.62	0.055	0.12	1.2	<0.01	8.7	0.1	0.10	11	<0.5	<0.2			
1999471	Rock	2	29	0.45	57	0.024	4	1.52	0.016	0.97	>100	<0.01	8.1	2.2	9.62	8	6.1	5.3	0.419	0.07	0.36
1999472	Rock	<1	51	0.69	17	0.091	<1	1.91	0.255	0.37	0.2	<0.01	6.1	0.7	0.19	4	<0.5	<0.2			
1999473	Rock	<1	19	0.27	37	0.010	2	0.90	0.009	0.72	52.8	<0.01	5.7	2.6	0.31	4	1.5	2.4			
1999474	Rock	<1	10	0.02	4	0.002	1	0.07	0.002	0.01	1.9	<0.01	0.4	<0.1	<0.05	<1	<0.5	2.2			
1999475	Rock	1	17	0.54	3	0.076	<1	0.61	0.150	0.05	0.1	<0.01	6.6	<0.1	0.37	3	<0.5	<0.2			



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Report Date: August 15, 2018

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CERTIFICATE OF ANALYSIS

WHI18000229.1

	Method Analyte Unit MDL	MA370	MA370
		Ag	W
		ppm	%
		2	0.01
1478023	Rock	682	<0.01
1478024	Rock	431	<0.01
1478025	Rock	21	<0.01
1478026	Rock		
1478027	Rock		
1478028	Rock		
1478029	Rock		
1478030	Rock		
1478031	Rock		
1478032	Rock		
1478033	Rock		
1478034	Rock		
1478035	Rock		
1478036	Rock		
1478037	Rock	192	<0.01
1478038	Rock		
1478039	Rock		
1478040	Rock	191	<0.01
1478041	Rock		
1478042	Rock		
1999471	Rock	66	0.12
1999472	Rock		
1999473	Rock		
1999474	Rock		
1999475	Rock		



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QUALITY CONTROL REPORT

WHI18000229.1

	Method	WGHT	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	1	0.01	0.001
Pulp Duplicates																					
1478029	Rock	1.30	1.1	128.4	207.3	128	12.4	7.6	6.7	28	7.79	1994.8	21.1	4.2	5	1.9	28.2	26.6	4	<0.01	0.004
REP 1478029	QC		1.2	125.0	213.6	123	12.2	7.9	6.4	28	7.80	1995.8	21.0	4.2	5	2.1	28.2	27.1	4	<0.01	0.005
1478032	Rock	1.39	14.0	300.2	179.2	3881	5.0	24.8	25.1	960	6.79	43.8	1.7	10.2	12	47.9	3.6	10.1	174	1.12	0.250
REP 1478032	QC		12.8	292.5	174.6	3840	4.9	22.9	23.5	983	6.72	42.8	1.4	10.1	12	46.1	3.3	9.5	174	1.10	0.238
Core Reject Duplicates																					
1478035	Rock	0.96	108.1	309.9	138.0	128	6.7	6.3	107.6	1527	4.22	3752.3	575.1	18.2	13	1.3	11.9	269.2	38	0.11	0.059
DUP 1478035	QC		110.0	308.5	139.0	126	6.9	6.9	110.3	1564	4.28	3818.9	638.5	18.2	13	1.2	12.4	268.4	38	0.11	0.059
Reference Materials																					
STD CDN-ME-14	Standard																				
STD CDN-ME-9	Standard																				
STD CDN-ME-14	Standard																				
STD CDN-ME-9	Standard																				
STD DS11	Standard		14.8	149.1	147.4	347	1.8	80.7	13.4	1054	3.20	43.6	104.1	8.2	67	2.3	6.4	12.1	50	1.06	0.068
STD DS11	Standard		15.0	156.0	139.0	334	1.7	83.6	14.4	1059	3.19	42.7	80.6	7.7	69	2.4	8.4	11.5	51	1.07	0.071
STD OXC129	Standard		1.3	35.8	8.3	42	<0.1	78.6	19.1	383	3.12	37.9	192.4	1.9	183	<0.1	0.1	<0.1	53	0.65	0.096
STD OXC129	Standard		1.3	28.2	6.6	39	<0.1	82.3	21.2	425	3.07	0.7	182.6	1.8	192	<0.1	<0.1	<0.1	54	0.70	0.098
STD OXC129 Expected			1.3	28	6.2	42.9		79.5	20.3	421	3.065	0.6	195	1.9					51	0.684	0.102
STD DS11 Expected			14.6	149	138	345	1.71	77.7	14.2	1055	3.1	42.8	79	7.65	67.3	2.37	8.74	12.2	50	1.063	0.0701
STD CDN-ME-14 Expected																					
STD CDN-ME-9 Expected																					
BLK	Blank																				
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.001
BLK	Blank																				
Prep Wash																					
ROCK-WHI	Prep Blank		1.3	3.4	3.5	36	<0.1	1.0	3.6	513	1.80	1.7	1.9	2.3	34	<0.1	0.1	<0.1	21	0.67	0.042
ROCK-WHI	Prep Blank		1.4	5.0	1.4	35	<0.1	1.2	3.5	507	1.82	1.8	<0.5	2.3	29	<0.1	<0.1	<0.1	21	0.64	0.039



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QUALITY CONTROL REPORT

WHI18000229.1

	Method Analyte Unit MDL	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	AQ202	MA370	MA370	MA370
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Cu	Pb	Zn
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	%
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.001	0.02	0.01
Pulp Duplicates																					
1478029	Rock	11	7	<0.01	5	0.001	2	0.06	0.001	0.03	2.2	<0.01	0.3	0.1	8.15	<1	<0.5	<0.2			
REP 1478029	QC	11	6	<0.01	4	0.001	<1	0.06	<0.001	0.03	2.0	<0.01	0.2	0.2	8.21	<1	<0.5	<0.2			
1478032	Rock	27	83	2.68	60	0.294	6	2.86	0.027	2.80	1.6	<0.01	12.5	11.8	3.25	12	<0.5	<0.2			
REP 1478032	QC	26	81	2.65	54	0.299	4	2.82	0.027	2.77	1.6	<0.01	12.2	11.6	3.21	11	<0.5	<0.2			
Core Reject Duplicates																					
1478035	Rock	10	16	0.54	169	0.015	3	1.46	0.009	0.44	0.8	<0.01	3.5	1.6	0.20	8	0.7	0.7			
DUP 1478035	QC	10	17	0.55	172	0.015	3	1.49	0.009	0.44	0.9	<0.01	3.4	1.7	0.20	8	1.0	0.6			
Reference Materials																					
STD CDN-ME-14	Standard																		1.281	0.51	3.24
STD CDN-ME-9	Standard																		0.685	<0.02	0.01
STD CDN-ME-14	Standard																		1.292	0.52	3.30
STD CDN-ME-9	Standard																		0.684	<0.02	0.01
STD DS11	Standard	18	61	0.84	370	0.095	7	1.14	0.073	0.40	3.0	0.26	3.1	5.2	0.28	5	2.4	5.1			
STD DS11	Standard	19	61	0.84	377	0.094	7	1.17	0.076	0.41	2.8	0.25	3.2	4.8	0.29	5	2.1	4.9			
STD OXC129	Standard	12	52	1.54	49	0.400	<1	1.54	0.595	0.38	<0.1	<0.01	0.9	<0.1	<0.05	6	<0.5	<0.2			
STD OXC129	Standard	13	54	1.51	48	0.410	<1	1.58	0.601	0.37	<0.1	<0.01	1.0	<0.1	<0.05	5	<0.5	<0.2			
STD OXC129 Expected		12.5	52	1.545	50	0.4	1	1.58	0.59	0.3655			1.1			5.5					
STD DS11 Expected		18.6	61.5	0.85	385	0.0976		1.1795	0.0762	0.4	2.9	0.26	3.4	4.9	0.2835	5.1	2.2	4.56			
STD CDN-ME-14 Expected																			1.221	0.495	3.17
STD CDN-ME-9 Expected																			0.654		0.012
BLK	Blank																		<0.001	<0.02	<0.01
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2			
BLK	Blank																		<0.001	<0.02	<0.01
Prep Wash																					
ROCK-WHI	Prep Blank	6	4	0.49	77	0.079	2	1.01	0.099	0.10	0.1	<0.01	2.5	<0.1	<0.05	4	<0.5	<0.2			
ROCK-WHI	Prep Blank	6	4	0.52	73	0.077	1	1.09	0.141	0.14	<0.1	<0.01	2.7	<0.1	0.06	4	<0.5	<0.2			



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Box 997
Whistler British Columbia V0N 1B0 Canada

Project: Adanac
Report Date: August 15, 2018

Page: 1 of 1

Part: 3 of 3

QUALITY CONTROL REPORT

WHI18000229.1

	Method Analyte Unit MDL	MA370	MA370
		Ag	W
		ppm	%
		2	0.01
Pulp Duplicates			
1478029	Rock		
REP 1478029	QC		
1478032	Rock		
REP 1478032	QC		
Core Reject Duplicates			
1478035	Rock		
DUP 1478035	QC		
Reference Materials			
STD CDN-ME-14	Standard	44	<0.01
STD CDN-ME-9	Standard	<2	<0.01
STD CDN-ME-14	Standard	45	<0.01
STD CDN-ME-9	Standard	4	<0.01
STD DS11	Standard		
STD DS11	Standard		
STD OXC129	Standard		
STD OXC129	Standard		
STD OXC129 Expected			
STD DS11 Expected			
STD CDN-ME-14 Expected		43.5	
STD CDN-ME-9 Expected			
BLK	Blank	<2	<0.01
BLK	Blank		
BLK	Blank	<2	<0.01
Prep Wash			
ROCK-WHI	Prep Blank		
ROCK-WHI	Prep Blank		



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Submitted By: Janet Miller
Receiving Lab: Canada-Whitehorse
Received: July 06, 2018
Report Date: August 15, 2018
Page: 1 of 2

CERTIFICATE OF ANALYSIS

WHI18000272.1

CLIENT JOB INFORMATION

Project: Adanac
Shipment ID:
P.O. Number
Number of Samples: 24

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Zinex Mining Corp.
Box 997
Whistler British Columbia V0N 1B0
Canada

CC: Barry Hanslit

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP90-250	24	Crush (>90%), split and pulverize 250g rock to 200 mesh			WHI
AQ252_EXT	24	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	30	Completed	VAN
SHP01	24	Per sample shipping charges for branch shipments			VAN
MA370	9	4-Acid Digestion ICP-ES Finish	0.5	Completed	VAN

ADDITIONAL COMMENTS


JEFFREY CANNON
Geochemistry Department Supervisor

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: Adanac
Report Date: August 15, 2018

Page: 2 of 2 **Part:** 1 of 3

CERTIFICATE OF ANALYSIS

WHI18000272.1

	Method	Analyte	Unit	MDL	WGHT	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252			
					Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
					kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
					0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01
14780043	Rock				1.18	1.73	129.71	583.80	244.5	7242	0.5	1.5	50	2.05	75.5	1.3	6.5	11.0	0.8	2.57	7.14	8.91	1	0.09
14780044	Rock				0.63	2.61	301.72	454.48	649.6	18214	0.4	0.5	46	1.63	>10000	2.4	732.6	4.6	5.8	8.08	103.21	3.23	1	<0.01
14780045	Rock				0.59	1.71	246.80	>10000	>10000	>100000	0.5	1.0	7036	1.52	190.4	13.2	12.3	33.9	3.7	147.29	46.50	12.10	<1	0.50
14780046	Rock				1.15	1.55	184.30	743.48	623.9	7532	0.6	2.5	282	4.18	358.2	7.4	39.5	25.9	2.0	7.94	18.72	9.22	2	0.56
14780047	Rock				1.46	0.41	5.57	36.46	166.3	507	6.1	9.0	455	2.48	4.0	0.6	7.3	3.2	82.4	0.90	0.25	8.90	55	1.07
14780048	Rock				1.09	0.52	7.17	10.01	29.1	55	0.6	0.9	104	0.95	6.5	39.6	<0.2	90.1	5.0	0.41	0.79	0.24	1	0.43
14780049	Rock				1.84	9.21	69.72	90.24	27.0	13632	0.7	0.1	50	1.58	64.2	3.0	11.0	14.2	<0.5	0.18	86.78	990.34	1	<0.01
14780050	Rock				1.60	28.80	138.60	297.43	50.9	>100000	0.4	0.1	86	1.95	117.3	6.5	61.6	25.9	<0.5	0.68	441.74	>2000	2	<0.01
14780051	Rock				2.03	2.13	360.62	4303.65	3081.6	30234	0.5	0.5	846	0.78	474.6	12.8	22.8	23.7	9.2	53.35	81.49	16.06	<1	0.59
14780052	Rock				1.35	7.88	128.78	5358.95	254.9	>100000	0.6	0.6	133	2.24	1405.2	1.6	40.4	3.8	52.4	6.19	152.75	672.85	56	6.66
14780053	Rock				1.35	2.59	251.98	479.71	3180.7	8811	22.6	8.4	1213	12.79	836.4	15.7	3.3	8.5	28.7	16.30	6.40	13.40	144	0.86
14780054	Rock				0.49	0.54	16.08	24.72	933.5	983	9.3	12.0	6035	3.44	8.8	2.3	7.2	6.2	64.4	12.91	1.57	8.40	100	0.74
14780056	Rock				0.84	1.37	46.37	8175.87	3554.7	52326	5.8	7.9	>10000	8.01	6791.9	2.4	43.8	6.1	2.2	78.24	128.18	3.43	5	0.13
14780057	Rock				1.62	8.13	99.16	>10000	>10000	>100000	3.1	19.1	>10000	27.13	1110.1	5.0	4.5	0.5	151.7	326.62	105.86	2.61	5	0.14
14780058	Rock				0.42	0.66	6.49	55.07	112.5	482	0.8	1.0	767	0.70	10.4	7.4	0.4	34.3	29.9	2.61	0.90	0.68	1	0.67
14780059	Rock				2.77	1.61	7.30	70.53	54.9	1084	0.3	0.2	346	0.68	51.5	6.7	<0.2	20.3	1.4	1.08	2.32	4.04	<1	0.02
14780060	Rock				0.69	2.82	62.84	185.93	143.5	7006	0.5	0.2	62	1.69	51.4	2.3	2.3	16.6	1.5	1.30	8.60	12.19	1	<0.01
14780061	Rock				1.01	6.55	50.18	248.40	76.0	9078	0.5	0.2	88	1.81	105.0	4.4	2.6	24.1	1.9	0.38	9.55	30.28	2	<0.01
14780062	Rock				1.16	1.20	11.52	24.37	50.3	227	1.7	0.1	74	0.47	21.7	4.7	0.9	27.5	1.6	0.16	0.45	0.27	<1	0.02
14780063	Rock				0.81	3.91	23.89	1335.52	656.7	13010	0.7	0.9	64	1.63	6.1	0.6	<0.2	7.3	1.0	7.59	3.93	18.75	<1	0.02
14780064	Rock				1.66	15.82	2151.74	>10000	5795.4	>100000	0.7	0.5	101	1.80	7345.9	7.7	768.0	6.9	3.9	61.00	264.79	14.07	<1	0.36
14780065	Rock				1.77	17.57	2496.89	>10000	8348.3	>100000	0.7	1.5	110	2.69	>10000	7.9	843.4	5.0	6.6	86.69	481.16	119.56	<1	0.29
14780066	Rock				1.53	6.35	174.51	>10000	>10000	>100000	2.2	10.1	575	5.33	>10000	2.4	94.0	4.7	10.6	229.87	55.99	2.90	3	0.09
14780067	Rock				0.79	0.81	16.28	131.95	152.9	1841	1.2	0.8	149	1.17	53.4	6.0	2.6	30.0	7.2	0.78	2.15	0.77	3	0.12



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Project: Adanac
Report Date: August 15, 2018

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Part: 2 of 3

CERTIFICATE OF ANALYSIS

WHI18000272.1

	Method	Analyte	Unit	MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252			
					P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge
					%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
					0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1
14780043	Rock	0.001	11.2	2.8	<0.01	35.2	<0.001	3	0.48	0.005	0.36	2.8	0.4	1.61	2.04	84	<0.1	0.03	2.8	0.96	<0.1			
14780044	Rock	<0.001	5.9	5.1	<0.01	19.9	<0.001	1	0.17	0.004	0.14	0.4	0.2	0.47	0.82	17	<0.1	0.11	2.2	0.46	<0.1			
14780045	Rock	0.001	15.7	4.2	0.03	45.0	0.001	9	0.89	0.005	0.49	1.6	0.4	1.37	1.20	70	<0.1	0.05	5.9	3.23	0.1			
14780046	Rock	<0.001	8.8	2.4	0.02	39.7	0.002	9	0.92	0.005	0.55	1.6	0.5	1.69	4.30	12	<0.1	0.05	4.5	2.67	0.1			
14780047	Rock	0.054	5.2	16.5	0.94	151.5	0.070	2	2.29	0.246	0.98	0.4	4.1	2.16	<0.02	8	<0.1	0.29	10.2	13.54	0.1			
14780048	Rock	0.001	25.0	2.8	0.02	46.5	0.010	1	0.59	0.086	0.36	2.7	1.2	0.37	<0.02	<5	<0.1	<0.02	4.2	3.59	0.1			
14780049	Rock	0.003	25.6	2.8	<0.01	21.3	0.001	2	0.33	0.004	0.23	>100	0.4	0.48	<0.02	<5	1.2	2.18	2.1	0.43	<0.1			
14780050	Rock	0.011	80.8	4.6	<0.01	18.2	<0.001	2	0.28	0.003	0.20	>100	0.3	0.42	<0.02	<5	2.8	9.52	2.2	0.45	<0.1			
14780051	Rock	0.002	20.6	3.4	0.03	148.5	0.002	8	0.99	0.005	0.54	12.9	0.7	1.61	0.41	40	0.1	0.07	5.4	2.60	<0.1			
14780052	Rock	0.047	12.8	39.8	0.32	220.2	0.021	20	3.17	0.011	1.76	9.0	8.7	5.94	0.16	76	0.5	1.09	13.2	23.11	0.8			
14780053	Rock	0.183	26.8	35.0	0.38	78.8	0.003	2	4.15	0.002	0.13	0.7	20.1	1.16	<0.02	127	0.6	0.04	21.2	7.88	0.1			
14780054	Rock	0.144	18.0	18.7	1.01	515.6	0.134	3	1.64	0.085	0.58	0.5	8.2	1.48	<0.02	16	<0.1	<0.02	6.3	8.18	0.2			
14780056	Rock	0.013	7.0	1.9	0.15	41.6	0.001	14	0.50	<0.001	0.32	1.0	1.1	1.79	0.86	36	<0.1	<0.02	2.9	2.67	<0.1			
14780057	Rock	0.004	7.5	<0.5	0.10	15.7	<0.001	19	0.10	<0.001	0.10	0.8	3.4	0.82	0.62	32	<0.1	<0.02	4.0	1.58	0.2			
14780058	Rock	0.001	14.4	3.3	0.08	53.0	<0.001	<1	0.38	0.032	0.13	0.9	0.4	0.27	<0.02	6	<0.1	0.02	1.6	1.28	<0.1			
14780059	Rock	0.001	4.4	4.7	<0.01	10.3	<0.001	2	0.20	0.018	0.14	1.3	0.2	0.27	<0.02	<5	<0.1	0.03	1.6	0.80	<0.1			
14780060	Rock	0.007	21.0	2.5	<0.01	116.6	<0.001	4	0.32	0.003	0.34	0.6	0.3	1.38	0.79	25	0.2	<0.02	2.4	0.73	<0.1			
14780061	Rock	0.019	14.3	3.7	0.02	81.5	<0.001	7	0.37	0.003	0.32	1.7	0.6	0.95	0.14	9	<0.1	0.29	3.2	2.31	<0.1			
14780062	Rock	<0.001	42.0	3.2	0.01	17.5	<0.001	<1	0.51	0.046	0.17	0.2	0.7	0.24	<0.02	<5	<0.1	<0.02	2.7	1.16	<0.1			
14780063	Rock	0.016	8.5	2.2	0.01	76.4	<0.001	1	0.44	0.004	0.36	0.5	0.3	1.35	1.36	30	<0.1	<0.02	2.5	0.85	<0.1			
14780064	Rock	<0.001	13.6	4.1	0.01	24.2	0.001	5	0.56	0.004	0.36	3.3	0.3	0.95	0.82	166	0.6	0.06	6.0	1.70	0.1			
14780065	Rock	<0.001	5.0	5.8	<0.01	8.7	0.001	<1	0.24	0.002	0.12	26.0	0.2	0.70	1.93	146	1.2	0.19	4.6	1.04	0.2			
14780066	Rock	0.029	4.8	3.8	0.04	36.4	<0.001	2	0.43	0.002	0.21	0.5	0.4	0.91	4.79	31	0.7	0.18	4.4	0.91	0.2			
14780067	Rock	0.007	35.5	4.3	0.08	24.9	0.003	<1	0.67	0.077	0.19	0.8	1.6	0.25	<0.02	8	<0.1	<0.02	4.5	2.02	<0.1			



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Page: 2 of 2

Part: 3 of 3

CERTIFICATE OF ANALYSIS

WHI18000272.1

Method Analyte Unit MDL		AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	MA370	MA370	MA370	MA370
		Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Pb	Zn	Ag	W
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	%	ppm	%
		0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.02	0.01	2	0.01
14780043	Rock	1.43	1.85	54.5	14.0	<0.05	33.9	4.99	22.8	0.07	<1	0.5	2.4	<10	<2				
14780044	Rock	0.09	0.28	19.1	8.2	<0.05	2.9	1.37	11.3	0.28	<1	0.3	1.6	<10	<2				
14780045	Rock	1.74	3.65	88.0	42.2	<0.05	40.1	18.50	31.7	1.33	1	0.6	3.0	<10	<2	1.24	1.15	154	<0.01
14780046	Rock	2.08	4.91	99.5	29.2	<0.05	48.1	10.17	17.4	0.27	<1	0.6	2.7	<10	<2				
14780047	Rock	0.05	0.06	142.5	8.7	<0.05	0.8	3.65	9.2	0.12	<1	1.2	44.8	<10	<2				
14780048	Rock	3.20	37.49	35.4	1.5	0.07	68.4	152.44	91.4	0.02	<1	1.6	7.8	18	5				
14780049	Rock	0.50	1.24	30.4	53.7	<0.05	11.6	4.24	51.0	0.90	1	0.3	2.0	<10	<2	<0.02	<0.01	14	0.01
14780050	Rock	1.15	0.69	28.3	39.8	<0.05	24.6	9.48	172.4	0.77	2	0.6	1.7	<10	<2	0.03	<0.01	166	0.08
14780051	Rock	2.06	2.62	93.7	33.6	<0.05	54.2	13.65	42.0	0.48	<1	0.6	4.9	<10	<2				
14780052	Rock	0.25	0.71	329.1	69.7	<0.05	8.2	23.15	23.1	1.39	<1	4.0	41.8	<10	<2	0.52	0.03	446	<0.01
14780053	Rock	0.03	0.12	33.4	65.3	<0.05	1.3	40.82	75.8	0.32	<1	7.5	82.2	<10	2				
14780054	Rock	0.07	0.07	65.0	8.3	<0.05	2.0	9.02	31.1	0.11	<1	1.3	21.9	16	<2				
14780056	Rock	0.04	0.04	59.5	14.9	<0.05	1.2	6.00	11.7	1.44	1	<0.1	8.4	<10	7				
14780057	Rock	<0.02	<0.02	9.5	6.8	<0.05	0.3	19.33	14.9	1.39	1	<0.1	0.7	<10	6	1.43	1.53	134	<0.01
14780058	Rock	0.25	2.29	16.2	1.3	<0.05	6.3	45.34	33.1	0.02	<1	5.9	6.2	<10	<2				
14780059	Rock	0.53	4.98	16.4	1.9	<0.05	11.5	16.29	7.9	0.08	<1	0.4	1.6	<10	<2				
14780060	Rock	0.48	0.22	47.2	13.0	<0.05	18.8	5.75	42.7	0.59	1	0.8	3.2	<10	3				
14780061	Rock	0.16	0.13	46.6	4.1	<0.05	7.0	7.88	23.7	0.37	<1	<0.1	4.8	<10	<2				
14780062	Rock	0.36	0.48	17.4	0.4	<0.05	9.6	30.77	65.8	0.03	<1	0.4	1.5	<10	<2	<0.02	<0.01	<2	<0.01
14780063	Rock	0.22	0.05	52.9	14.8	<0.05	6.7	2.84	18.1	1.21	<1	0.7	5.9	<10	<2				
14780064	Rock	1.29	3.49	49.3	>100	<0.05	30.9	6.05	26.4	3.70	<1	0.4	1.8	*	<2	1.03	0.55	181	<0.01
14780065	Rock	0.35	1.34	17.6	>100	<0.05	10.9	3.23	8.4	3.06	<1	<0.1	1.6	*	<2	3.48	0.88	437	<0.01
14780066	Rock	0.03	0.02	16.7	79.1	<0.05	0.6	1.25	8.7	10.38	<1	0.5	2.2	*	<2	1.68	2.31	104	<0.01
14780067	Rock	0.91	1.09	21.5	2.9	<0.05	23.7	20.73	83.8	0.07	<1	0.9	9.0	<10	4				



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Project: Adanac
Report Date: August 15, 2018

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QUALITY CONTROL REPORT

WHI18000272.1

Method	Analyte	Unit	MDL	WGHT	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252		
				Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
				kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
				0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01
Pulp Duplicates																							
14780059	Rock	2.77	1.61	7.30	70.53	54.9	1084	0.3	0.2	346	0.68	51.5	6.7	<0.2	20.3	1.4	1.08	2.32	4.04	<1	0.02		
REP 14780059	QC		1.57	7.59	69.60	54.5	1004	0.3	0.2	341	0.68	52.3	6.6	0.8	20.2	1.4	0.98	2.33	4.00	<1	0.02		
14780062	Rock	1.16	1.20	11.52	24.37	50.3	227	1.7	0.1	74	0.47	21.7	4.7	0.9	27.5	1.6	0.16	0.45	0.27	<1	0.02		
REP 14780062	QC		1.09	11.08	22.07	50.6	233	1.4	0.2	72	0.48	20.3	4.2	<0.2	27.6	1.5	0.16	0.42	0.26	<1	0.02		
Core Reject Duplicates																							
14780064	Rock	1.66	15.82	2151.74	>10000	5795.4	>100000	0.7	0.5	101	1.80	7345.9	7.7	768.0	6.9	3.9	61.00	264.79	14.07	<1	0.36		
DUP 14780064	QC		15.37	2263.19	>10000	5522.5	>100000	0.5	0.4	91	1.81	7710.0	6.8	746.4	7.8	3.6	61.27	262.78	13.82	<1	0.37		
Reference Materials																							
STD CDN-ME-14	Standard																						
STD CDN-ME-9	Standard																						
STD CDN-ME-14	Standard																						
STD CDN-ME-9	Standard																						
STD DS11	Standard		13.75	154.57	137.61	342.4	1810	78.8	13.6	1061	3.18	45.5	2.4	86.0	7.4	64.5	2.58	8.06	11.58	49	1.06		
STD DS11	Standard		12.38	144.10	139.82	336.0	1717	76.8	13.1	1049	3.20	43.6	2.6	75.3	7.5	62.1	2.42	8.13	11.71	48	1.04		
STD DS11	Standard		13.46	146.94	134.62	354.3	1768	77.0	12.9	1017	3.14	42.2	2.2	77.9	6.4	54.9	2.31	6.72	10.80	48	1.05		
STD OXC129	Standard		1.21	26.21	6.41	43.1	15	74.4	19.0	407	3.10	0.8	0.6	188.8	1.6	189.3	0.02	0.04	0.06	54	0.68		
STD OXC129	Standard		1.22	26.31	6.56	40.3	4	75.4	18.9	392	3.14	0.5	0.7	200.8	2.0	181.1	0.02	0.04	0.04	53	0.58		
STD OXC129	Standard		1.36	32.19	5.90	34.0	20	79.3	20.7	407	3.01	0.4	0.7	197.5	1.7	203.3	0.02	0.03	<0.02	50	0.67		
STD CDN-ME-14 Expected																							
STD CDN-ME-9 Expected																							
STD OXC129 Expected					1.3	28	6.2	42.9	13	79.5	20.3	421	3.065	0.6	0.69	195	1.9		0.03	0.04		51	0.684
STD DS11 Expected					14.6	149	138	345	1710	77.7	14.2	1055	3.1	42.8	2.59	79	7.65	67.3	2.37	8.74	12.2	50	1.063
BLK	Blank		<0.01	<0.01	<0.01	0.2	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<1	<0.01		
BLK	Blank																						
BLK	Blank																						
BLK	Blank		<0.01	0.31	1.44	0.8	33	<0.1	<0.1	<1	<0.01	1.4	<0.1	<0.2	<0.1	<0.5	<0.01	0.06	<0.02	<1	<0.01		
Prep Wash																							
ROCK-WHI	Prep Blank		2.00	8.85	2.56	42.1	159	5.5	4.5	620	1.84	7.9	0.5	4.8	2.5	27.6	0.08	0.90	4.95	21	0.66		



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Project: Adanac
Report Date: August 15, 2018

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QUALITY CONTROL REPORT

WHI18000272.1

Method Analyte Unit MDL		AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge	
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	
		0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	
Pulp Duplicates																						
14780059	Rock	0.001	4.4	4.7	<0.01	10.3	<0.001	2	0.20	0.018	0.14	1.3	0.2	0.27	<0.02	<5	<0.1	0.03	1.6	0.80	<0.1	
REP 14780059	QC	<0.001	4.3	4.2	<0.01	11.0	<0.001	<1	0.20	0.019	0.14	1.2	0.4	0.28	<0.02	<5	<0.1	<0.02	1.5	0.80	<0.1	
14780062	Rock	<0.001	42.0	3.2	0.01	17.5	<0.001	<1	0.51	0.046	0.17	0.2	0.7	0.24	<0.02	<5	<0.1	<0.02	2.7	1.16	<0.1	
REP 14780062	QC	0.001	35.8	3.0	0.01	17.3	<0.001	<1	0.52	0.046	0.17	0.2	0.6	0.23	<0.02	<5	<0.1	<0.02	2.6	1.10	<0.1	
Core Reject Duplicates																						
14780064	Rock	<0.001	13.6	4.1	0.01	24.2	0.001	5	0.56	0.004	0.36	3.3	0.3	0.95	0.82	166	0.6	0.06	6.0	1.70	0.1	
DUP 14780064	QC	0.001	13.5	3.4	0.01	23.2	0.001	4	0.57	0.003	0.37	3.9	0.3	0.83	0.87	154	0.4	0.05	5.7	1.59	0.1	
Reference Materials																						
STD CDN-ME-14	Standard																					
STD CDN-ME-9	Standard																					
STD CDN-ME-14	Standard																					
STD CDN-ME-9	Standard																					
STD DS11	Standard	0.071	17.9	62.7	0.86	381.1	0.090	8	1.17	0.074	0.41	3.1	3.1	4.87	0.28	276	2.3	4.68	5.3	2.96	<0.1	
STD DS11	Standard	0.075	15.6	54.7	0.84	329.0	0.079	9	1.09	0.070	0.38	3.2	3.2	4.81	0.28	264	2.4	4.99	4.9	2.86	<0.1	
STD DS11	Standard	0.071	15.8	58.8	0.84	344.3	0.081	7	1.13	0.072	0.40	3.1	3.0	5.03	0.27	255	2.1	4.95	5.3	2.82	<0.1	
STD OXC129	Standard	0.110	11.8	52.3	1.50	50.1	0.362	2	1.58	0.602	0.38	<0.1	1.1	0.05	<0.02	<5	<0.1	<0.02	5.1	0.16	<0.1	
STD OXC129	Standard	0.109	12.2	46.9	1.55	51.0	0.375	<1	1.53	0.592	0.38	<0.1	0.8	0.04	<0.02	<5	<0.1	<0.02	5.3	0.17	<0.1	
STD OXC129	Standard	0.105	10.4	55.3	1.52	53.6	0.396	<1	1.56	0.596	0.38	<0.1	1.0	0.04	<0.02	<5	<0.1	0.02	6.0	0.17	<0.1	
STD CDN-ME-14 Expected																						
STD CDN-ME-9 Expected																						
STD OXC129 Expected		0.102	12.5	52	1.545	50	0.4	1	1.58	0.59	0.3655	0.08	1.1	0.03					5.5	0.16		
STD DS11 Expected		0.0701	18.6	61.5	0.85	385	0.0976	1.1795		0.0762	0.4	2.9	3.4	4.9	0.2835	260	2.2	4.56	5.1	2.88	0.08	
BLK	Blank	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	
BLK	Blank																					
BLK	Blank																					
BLK	Blank	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	
Prep Wash																						
ROCK-WHI	Prep Blank	0.051	6.6	4.7	0.52	69.2	0.077	2	1.12	0.135	0.13	0.6	3.9	0.26	0.04	55	<0.1	<0.02	4.8	0.21	<0.1	



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QUALITY CONTROL REPORT

WHI18000272.1

	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	MA370	MA370	MA370	MA370
		Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Pb	Zn	Ag	W
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	%	ppm	%
		0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.02	0.01	2	0.01
Pulp Duplicates																			
14780059	Rock	0.53	4.98	16.4	1.9	<0.05	11.5	16.29	7.9	0.08	<1	0.4	1.6	<10	<2				
REP 14780059	QC	0.54	5.28	16.5	1.8	<0.05	11.7	16.25	8.0	0.09	1	0.4	1.8	12	<2				
14780062	Rock	0.36	0.48	17.4	0.4	<0.05	9.6	30.77	65.8	0.03	<1	0.4	1.5	<10	<2	<0.02	<0.01	<2	<0.01
REP 14780062	QC	0.29	0.42	17.3	0.3	<0.05	9.5	31.61	74.8	<0.02	<1	0.9	1.4	<10	<2	<0.02	<0.01	<2	<0.01
Core Reject Duplicates																			
14780064	Rock	1.29	3.49	49.3	>100	<0.05	30.9	6.05	26.4	3.70	<1	0.4	1.8	*	<2	1.03	0.55	181	<0.01
DUP 14780064	QC	1.19	3.38	48.2	>100	<0.05	29.6	5.89	24.5	3.11	<1	0.3	2.2	<10	<2	1.09	0.60	188	<0.01
Reference Materials																			
STD CDN-ME-14	Standard															0.51	3.21	44	<0.01
STD CDN-ME-9	Standard															<0.02	0.01	<2	<0.01
STD CDN-ME-14	Standard															0.52	3.30	45	<0.01
STD CDN-ME-9	Standard															<0.02	0.01	4	<0.01
STD DS11	Standard	0.06	1.48	33.6	1.9	<0.05	3.0	8.03	37.1	0.25	50	1.2	23.0	98	173				
STD DS11	Standard	0.07	1.41	33.5	1.6	<0.05	3.1	7.26	33.5	0.24	50	0.8	23.5	100	184				
STD DS11	Standard	0.07	1.55	33.1	1.8	<0.05	3.4	7.37	34.7	0.19	45	0.7	24.3	93	165				
STD OXC129	Standard	0.20	1.54	15.8	0.7	<0.05	16.6	4.72	22.2	<0.02	<1	0.9	2.1	<10	<2				
STD OXC129	Standard	0.31	1.35	16.2	0.8	<0.05	23.6	4.56	22.6	<0.02	<1	0.6	2.1	<10	<2				
STD OXC129	Standard	0.27	1.58	16.4	0.7	<0.05	21.2	4.77	22.6	<0.02	<1	0.8	2.0	12	<2				
STD CDN-ME-14 Expected																0.495	3.17	43.5	
STD CDN-ME-9 Expected																	0.012		
STD OXC129 Expected		0.24	1.4		0.7		21	4.7	23.7			0.8	2.22						
STD DS11 Expected		0.06	1.53	33.6	1.8		3.1	7.82	37	0.24	50	0.67	23.3	100	172				
BLK	Blank	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2				
BLK	Blank															<0.02	<0.01	<2	<0.01
BLK	Blank															<0.02	<0.01	<2	<0.01
BLK	Blank	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2				
Prep Wash																			
ROCK-WHI	Prep Blank	0.12	0.29	3.1	0.5	<0.05	4.1	8.95	13.7	<0.02	<1	0.3	1.5	<10	4				



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Project: Adanac
Report Date: August 15, 2018

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QUALITY CONTROL REPORT

WHI18000272.1

		WGHT	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01
ROCK-WHI	Prep Blank		1.52	7.89	6.02	42.8	356	1.0	4.1	626	1.93	2.4	0.5	<0.2	2.8	29.1	0.02	0.21	0.87	23	0.64



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QUALITY CONTROL REPORT

WHI18000272.1

		AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
		0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1
ROCK-WHI	Prep Blank	0.051	7.2	5.0	0.50	82.5	0.081	4	1.21	0.210	0.18	<0.1	4.1	0.07	<0.02	25	<0.1	<0.02	5.1	0.20	<0.1



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QUALITY CONTROL REPORT

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		AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	MA370	MA370	MA370	MA370
		Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Pb	Zn	Ag	W
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	%	ppm	%
		0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.02	0.01	2	0.01
ROCK-WHI	Prep Blank	0.16	0.23	3.3	0.5	<0.05	4.1	10.37	14.9	<0.02	<1	<0.1	1.6	<10	<2				



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Submitted By: Janet Miller
Receiving Lab: Canada-Whitehorse
Received: July 10, 2018
Report Date: August 10, 2018
Page: 1 of 2

CERTIFICATE OF ANALYSIS

WHI18000297.1

CLIENT JOB INFORMATION

Project: Adanac
Shipment ID:
P.O. Number
Number of Samples: 20

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Zinex Mining Corp.
Box 997
Whistler British Columbia V0N 1B0
Canada

CC: Barry Hanslit

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP90-250	20	Crush (>90%), split and pulverize 250g rock to 200 mesh			WHI
AQ252_EXT	20	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	30	Completed	VAN
SHP01	20	Per sample shipping charges for branch shipments			VAN
MA370	2	4-Acid Digestion ICP-ES Finish	0.5	Completed	VAN

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: Adanac
Report Date: August 10, 2018

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CERTIFICATE OF ANALYSIS

WHI18000297.1

	Method Analyte Unit MDL	WGHT	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01
1478068	Rock	1.18	1.40	43.07	1884.84	9724.4	25080	0.9	3.2	7218	2.07	563.9	17.6	20.2	19.8	29.3	124.64	32.80	4.53	<1	6.85
1478069	Rock	1.23	2.28	2.06	15.86	18.1	28	0.5	0.2	43	0.35	1.0	9.1	0.4	30.3	1.2	0.07	0.16	0.03	<1	0.02
1478070	Rock	1.54	1.01	4.12	14.59	22.9	337	0.7	0.1	56	0.39	2.6	3.3	<0.2	14.0	<0.5	0.18	1.17	0.54	<1	0.01
1478071	Rock	0.58	1.23	5.53	165.83	226.3	321	1.1	0.8	487	0.78	1.2	2.5	<0.2	15.7	9.9	1.57	0.80	0.12	2	0.49
1478073	Rock	0.86	43.65	3.94	87.42	212.2	555	0.7	0.3	144	0.50	5.1	1.2	0.8	6.6	0.8	1.50	0.66	0.78	<1	0.07
1478074	Rock	0.91	1.88	27.09	931.19	4132.2	4689	1.2	2.3	1719	2.43	1021.9	6.2	18.3	8.1	1.8	46.22	14.72	0.47	<1	0.11
1478075	Rock	0.87	39.81	7.86	598.19	85.3	2149	0.5	0.2	52	0.76	50.1	1.6	0.9	5.6	1.3	0.27	3.04	0.56	1	<0.01
1478076	Rock	1.10	3.05	89.74	882.55	5021.4	7852	0.7	1.8	151	7.85	348.3	0.8	24.1	12.6	2.9	54.07	39.25	9.79	2	0.73
1478077	Rock	1.48	6.40	2767.81	2952.06	5358.0	>100000	1.1	8.3	293	12.85	>10000	1.7	456.3	2.4	14.7	68.40	791.79	214.32	2	1.12
1478078	Rock	3.13	2.59	343.96	811.87	895.1	18513	1.5	4.6	3551	14.30	8030.5	4.4	81.8	1.9	19.4	9.87	75.00	10.01	1	3.31
1478079	Rock	1.22	2.04	43.49	953.66	937.9	7846	0.7	1.9	102	4.23	192.6	0.8	8.9	14.3	1.3	10.32	9.60	5.59	2	0.13
1478080	Rock	1.99	369.30	311.47	146.17	74.1	20275	0.6	0.2	93	3.40	1074.7	5.4	1.6	90.6	1.2	3.38	13.06	120.02	2	0.01
1478081	Rock	1.21	28.46	149.94	935.81	1721.4	41786	1.0	0.8	264	4.48	>10000	3.8	4958.9	1.2	87.4	67.97	332.94	15.37	3	0.02
1478082	Rock	2.21	30.02	451.24	>10000	1489.3	>100000	17.6	9.2	1488	8.42	9196.1	3.5	298.9	9.6	42.7	11.92	191.41	41.90	72	0.40
1478083	Rock	3.21	0.29	26.12	35.15	113.4	367	15.1	5.7	380	1.79	74.5	<0.1	17.2	<0.1	11.0	0.69	1.32	0.28	63	0.67
1478084	Rock	1.26	0.78	5.91	154.19	17.2	1223	0.9	0.7	70	0.53	62.1	<0.1	4.1	0.1	1.2	0.19	1.66	0.53	2	0.04
1478085	Rock	2.63	0.91	18.79	4.83	12.5	69	13.4	4.7	227	0.76	18.2	0.2	1.7	0.5	6.2	0.14	0.39	0.23	19	0.22
1478086	Rock	3.65	0.88	1.16	8.12	11.9	96	3.3	1.5	169	0.70	9.1	<0.1	<0.2	<0.1	2.1	0.21	0.48	0.08	9	0.75
1478087	Rock	2.02	0.10	9.92	1.05	60.2	25	1866.0	84.8	797	4.50	8.1	<0.1	4.0	<0.1	1.9	0.12	0.20	<0.02	41	0.03
1478088	Rock	2.19	0.22	25.93	3.90	7.5	44	9.1	3.2	998	0.71	2.5	<0.1	2.1	<0.1	126.1	0.33	0.11	0.08	7	10.03



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
		0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1
1478068	Rock	0.002	24.5	2.8	0.05	52.3	0.007	23	2.57	0.024	1.53	1.6	4.7	2.77	1.03	37	0.4	0.03	14.1	5.60	0.4
1478069	Rock	0.001	32.2	2.7	0.01	27.0	<0.001	1	0.49	0.015	0.33	0.5	0.4	0.35	<0.02	<5	<0.1	<0.02	2.7	1.33	<0.1
1478070	Rock	<0.001	14.9	5.7	<0.01	17.4	<0.001	<1	0.29	0.003	0.17	0.3	0.3	0.30	<0.02	<5	<0.1	<0.02	1.5	0.71	<0.1
1478071	Rock	0.012	20.9	2.3	0.11	58.0	0.001	<1	0.52	0.029	0.24	0.2	0.8	0.71	<0.02	<5	<0.1	<0.02	2.2	1.61	<0.1
1478073	Rock	0.006	11.2	1.8	0.02	17.7	<0.001	<1	0.21	0.003	0.14	0.2	0.4	0.19	0.04	<5	<0.1	<0.02	1.1	0.75	<0.1
1478074	Rock	0.005	8.7	2.1	0.03	31.1	0.001	<1	0.48	0.004	0.29	0.3	0.5	0.58	2.13	24	<0.1	<0.02	3.2	1.51	<0.1
1478075	Rock	0.002	0.9	2.2	<0.01	25.0	<0.001	<1	0.25	0.004	0.19	2.2	0.3	0.27	0.03	<5	<0.1	0.02	1.5	1.27	<0.1
1478076	Rock	0.008	6.3	1.9	0.05	36.9	0.004	5	1.26	0.006	0.72	0.3	0.8	2.45	8.03	36	0.2	<0.02	5.4	2.16	<0.1
1478077	Rock	0.002	2.7	2.1	0.04	33.1	0.004	3	0.79	0.004	0.41	>100	1.0	1.99	>10	<5	2.4	0.16	7.3	2.65	0.5
1478078	Rock	0.002	5.1	1.8	0.07	23.7	0.003	4	0.79	0.003	0.33	1.0	3.3	2.01	>10	11	0.6	<0.02	9.9	1.94	0.3
1478079	Rock	0.013	12.8	1.4	0.03	53.3	0.002	<1	0.93	0.006	0.61	0.9	0.6	1.83	4.26	11	<0.1	<0.02	3.6	1.65	<0.1
1478080	Rock	0.011	6.8	2.5	<0.01	37.4	0.002	<1	0.96	0.010	0.60	2.2	1.5	0.59	<0.02	<5	0.8	0.53	4.2	0.69	<0.1
1478081	Rock	0.004	6.2	3.6	<0.01	163.7	0.002	<1	0.08	0.003	0.09	2.0	0.8	4.37	0.97	229	0.1	0.07	1.2	3.30	<0.1
1478082	Rock	0.169	17.5	111.7	0.93	79.8	0.039	<1	2.43	0.007	0.45	6.1	7.2	2.42	0.76	40	0.3	0.12	11.7	9.45	0.2
1478083	Rock	0.003	<0.5	4.6	0.54	7.8	0.017	7	1.08	0.111	0.04	0.1	5.5	0.08	<0.02	<5	<0.1	<0.02	2.7	1.06	<0.1
1478084	Rock	0.002	<0.5	3.4	0.01	2.2	0.002	<1	0.05	0.009	<0.01	0.1	0.2	0.04	<0.02	<5	<0.1	<0.02	0.3	0.18	0.1
1478085	Rock	0.006	1.5	4.9	0.09	4.9	0.018	<1	0.36	0.021	0.03	<0.1	1.9	0.03	<0.02	<5	<0.1	0.06	1.8	0.68	<0.1
1478086	Rock	0.003	<0.5	4.6	0.04	4.5	0.001	2	0.26	0.005	0.10	0.2	1.4	0.26	<0.02	<5	0.2	<0.02	1.3	0.79	<0.1
1478087	Rock	0.002	<0.5	1153.7	17.47	3.1	0.004	99	0.63	0.002	<0.01	<0.1	10.4	<0.02	0.03	<5	0.2	0.03	1.5	1.67	0.1
1478088	Rock	0.002	<0.5	3.3	0.30	3.1	0.001	<1	0.24	0.006	<0.01	<0.1	5.6	<0.02	0.03	<5	0.2	0.04	1.0	0.05	<0.1



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CERTIFICATE OF ANALYSIS

WHI18000297.1

	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	MA370	MA370	MA370
		Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Pb	Ag	W
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	ppm	%
		0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.02	2	0.01
1478068	Rock	1.95	4.98	174.7	57.6	<0.05	48.1	33.14	49.9	0.59	<1	2.3	7.1	<10	<2			
1478069	Rock	0.18	2.30	38.5	1.9	<0.05	7.6	18.58	63.9	<0.02	<1	0.6	2.4	<10	<2			
1478070	Rock	0.20	1.17	23.9	1.6	<0.05	6.9	9.29	26.1	<0.02	<1	0.5	1.9	<10	<2			
1478071	Rock	0.22	0.10	35.8	9.6	<0.05	6.7	15.22	38.2	0.21	<1	0.9	8.4	<10	<2			
1478073	Rock	0.09	0.12	16.3	2.4	<0.05	2.5	3.41	19.6	0.16	<1	0.3	4.2	<10	4			
1478074	Rock	0.07	0.20	39.5	11.7	<0.05	2.4	13.32	15.2	0.62	<1	0.4	6.4	<10	<2			
1478075	Rock	0.12	1.54	22.0	4.1	<0.05	3.5	3.80	1.9	0.24	<1	0.2	2.9	<10	<2			
1478076	Rock	0.77	0.46	114.7	47.2	<0.05	21.9	4.01	11.2	3.15	<1	0.7	9.9	<10	<2			
1478077	Rock	0.16	0.38	69.1	>100	<0.05	4.1	4.37	5.0	9.54	<1	0.3	7.9	<10	3	0.31	117	0.03
1478078	Rock	0.13	0.29	62.1	28.6	<0.05	3.0	17.48	9.7	0.48	<1	0.7	5.4	<10	<2			
1478079	Rock	0.56	0.15	86.7	41.7	<0.05	23.6	4.99	23.1	0.84	<1	0.7	9.3	<10	<2			
1478080	Rock	0.21	1.60	46.0	36.2	<0.05	8.4	5.67	14.6	2.95	<1	0.9	7.2	<10	<2			
1478081	Rock	<0.02	0.07	18.0	25.1	<0.05	0.4	2.11	4.3	3.11	<1	0.6	1.0	<10	<2			
1478082	Rock	0.20	0.14	70.1	80.2	<0.05	8.6	5.38	30.6	2.84	<1	2.1	27.4	<10	<2	2.00	144	<0.01
1478083	Rock	<0.02	<0.02	2.8	1.2	<0.05	0.2	0.73	0.3	0.06	<1	<0.1	13.0	<10	<2			
1478084	Rock	<0.02	0.03	0.9	0.8	<0.05	0.1	0.17	0.3	0.03	<1	<0.1	0.4	<10	<2			
1478085	Rock	<0.02	0.11	1.8	0.4	<0.05	0.4	1.29	6.5	<0.02	1	<0.1	2.9	<10	<2			
1478086	Rock	<0.02	0.03	14.7	3.5	<0.05	<0.1	2.00	0.4	<0.02	<1	0.2	5.3	<10	<2			
1478087	Rock	<0.02	<0.02	1.1	<0.1	<0.05	<0.1	0.40	<0.1	<0.02	<1	<0.1	4.9	<10	4			
1478088	Rock	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	9.19	0.9	0.02	<1	<0.1	3.4	<10	<2			



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QUALITY CONTROL REPORT

WHI18000297.1

	Method	WGHT	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	1	0.01
Pulp Duplicates																					
1478081	Rock	1.21	28.46	149.94	935.81	1721.4	41786	1.0	0.8	264	4.48	>10000	3.8	4958.9	1.2	87.4	67.97	332.94	15.37	3	0.02
REP 1478081	QC		27.19	152.25	957.52	1728.8	41540	1.2	0.7	260	4.48	>10000	3.9	4900.2	1.2	84.4	66.91	334.02	15.17	3	0.02
1478088	Rock	2.19	0.22	25.93	3.90	7.5	44	9.1	3.2	998	0.71	2.5	<0.1	2.1	<0.1	126.1	0.33	0.11	0.08	7	10.03
REP 1478088	QC		0.24	27.39	4.02	7.9	52	9.8	3.1	1010	0.72	2.1	<0.1	1.8	<0.1	125.7	0.31	0.13	0.08	7	10.21
Reference Materials																					
STD CDN-ME-14	Standard																				
STD CDN-ME-9	Standard																				
STD DS11	Standard		13.77	151.93	142.55	340.1	1736	79.8	14.4	1047	3.23	42.9	2.8	117.2	8.1	66.9	2.36	8.68	11.91	49	1.07
STD DS11	Standard		12.52	149.32	135.29	356.2	1743	76.9	13.9	1043	3.10	44.6	2.6	67.7	7.0	63.1	2.49	6.88	11.99	47	1.07
STD OXC129	Standard		1.36	27.74	6.85	40.7	21	78.1	21.1	430	3.00	3.4	0.7	206.3	1.9	182.7	0.03	0.09	0.03	50	0.64
STD OXC129	Standard		1.21	26.15	6.00	40.6	9	75.9	19.7	397	3.01	0.8	0.7	184.2	1.7	179.3	0.02	0.03	0.02	52	0.65
STD CDN-ME-14 Expected																					
STD OXC129 Expected			1.3	28	6.2	42.9	13	79.5	20.3	421	3.065	0.6	0.69	195	1.9		0.03	0.04		51	0.684
STD DS11 Expected			14.6	149	138	345	1710	77.7	14.2	1055	3.1	42.8	2.59	79	7.65	67.3	2.37	8.74	12.2	50	1.063
BLK	Blank		<0.01	<0.01	0.04	0.3	4	<0.1	<0.1	<1	<0.01	0.2	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<1	<0.01
BLK	Blank																				
BLK	Blank		<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.2	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<1	<0.01
Prep Wash																					
ROCK-WHI	Prep Blank		1.31	3.27	1.78	37.2	14	1.4	4.5	540	1.81	1.4	0.4	<0.2	2.1	27.5	0.02	0.06	0.02	24	0.71
ROCK-WHI	Prep Blank		1.07	3.71	0.93	37.7	13	0.8	3.6	548	1.72	0.7	0.4	1.5	2.0	23.7	<0.01	0.03	<0.02	20	0.63

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QUALITY CONTROL REPORT

WHI18000297.1

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		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	
		0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	
Pulp Duplicates																						
1478081	Rock	0.004	6.2	3.6	<0.01	163.7	0.002	<1	0.08	0.003	0.09	2.0	0.8	4.37	0.97	229	0.1	0.07	1.2	3.30	<0.1	
REP 1478081	QC	0.004	6.3	3.7	<0.01	155.5	0.002	<1	0.08	0.003	0.09	2.1	0.8	4.31	0.98	217	<0.1	0.07	1.3	3.35	<0.1	
1478088	Rock	0.002	<0.5	3.3	0.30	3.1	0.001	<1	0.24	0.006	<0.01	<0.1	5.6	<0.02	0.03	<5	0.2	0.04	1.0	0.05	<0.1	
REP 1478088	QC	0.002	<0.5	3.3	0.30	3.2	0.001	<1	0.24	0.006	<0.01	<0.1	5.9	<0.02	0.03	<5	<0.1	0.05	1.0	0.05	<0.1	
Reference Materials																						
STD CDN-ME-14	Standard																					
STD CDN-ME-9	Standard																					
STD DS11	Standard	0.074	18.5	59.5	0.85	382.4	0.094	2	1.17	0.078	0.40	3.4	3.3	5.14	0.28	266	2.8	4.77	5.1	2.99	<0.1	
STD DS11	Standard	0.072	17.4	56.7	0.87	335.9	0.085	6	1.12	0.072	0.41	3.1	3.3	5.07	0.28	258	2.4	4.81	4.9	2.83	<0.1	
STD OXC129	Standard	0.091	12.2	52.3	1.50	48.8	0.356	<1	1.53	0.591	0.38	<0.1	1.1	0.03	<0.02	7	<0.1	<0.02	5.9	0.16	<0.1	
STD OXC129	Standard	0.097	11.7	47.1	1.52	46.9	0.361	<1	1.58	0.613	0.41	<0.1	0.7	0.03	<0.02	<5	0.2	<0.02	5.6	0.16	<0.1	
STD CDN-ME-14 Expected																						
STD OXC129 Expected		0.102	12.5	52	1.545	50	0.4	1	1.58	0.59	0.3655	0.08	1.1	0.03						5.5	0.16	
STD DS11 Expected		0.0701	18.6	61.5	0.85	385	0.0976	1.1795		0.0762	0.4	2.9	3.4	4.9	0.2835	260	2.2	4.56	5.1	2.88	0.08	
BLK	Blank	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	9	<0.1	<0.02	<0.1	<0.02	<0.1	
BLK	Blank																					
BLK	Blank	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	0.1	<0.02	<0.1	<0.02	<0.1	
Prep Wash																						
ROCK-WHI	Prep Blank	0.040	5.4	3.2	0.55	55.0	0.074	<1	1.02	0.074	0.07	<0.1	3.0	<0.02	0.02	6	<0.1	<0.02	4.1	0.19	<0.1	
ROCK-WHI	Prep Blank	0.043	4.9	2.1	0.50	53.9	0.066	<1	0.92	0.077	0.08	<0.1	2.9	<0.02	0.03	21	<0.1	<0.02	3.8	0.16	<0.1	



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Client: **Zinex Mining Corp.**
Box 997
Whistler British Columbia V0N 1B0 Canada

Project: Adanac
Report Date: August 10, 2018

Bureau Veritas Commodities Canada Ltd.

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Page: 1 of 1

Part: 3 of 3

QUALITY CONTROL REPORT

WHI18000297.1

	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	MA370	MA370	MA370	
		Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Pb	Ag	W	
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	%	ppm	%	
		0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.02	2	0.01	
Pulp Duplicates																			
1478081	Rock	<0.02	0.07	18.0	25.1	<0.05	0.4	2.11	4.3	3.11	<1	0.6	1.0	<10	<2				
REP 1478081	QC	<0.02	0.07	17.8	23.9	<0.05	0.3	2.03	4.4	3.16	<1	0.3	1.2	<10	<2				
1478088	Rock	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	9.19	0.9	0.02	<1	<0.1	3.4	<10	<2				
REP 1478088	QC	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	9.42	0.9	<0.02	<1	0.1	3.3	<10	<2				
Reference Materials																			
STD CDN-ME-14	Standard															0.50	44	<0.01	
STD CDN-ME-9	Standard															<0.02	6	<0.01	
STD DS11	Standard	0.09	1.76	34.8	1.8	<0.05	3.0	8.12	38.1	0.24	52	0.4	23.1	120	180				
STD DS11	Standard	0.07	1.50	34.4	2.0	<0.05	3.3	7.29	35.4	0.25	49	0.6	23.5	84	177				
STD OXC129	Standard	0.27	1.50	16.1	0.6	<0.05	18.4	4.51	22.5	<0.02	<1	0.9	2.6	<10	<2				
STD OXC129	Standard	0.16	1.04	14.7	0.6	<0.05	13.4	4.10	21.6	<0.02	<1	1.0	1.9	21	<2				
STD CDN-ME-14 Expected																0.495	43.5		
STD OXC129 Expected		0.24	1.4		0.7		21	4.7	23.7			0.8	2.22						
STD DS11 Expected		0.06	1.53	33.6	1.8		3.1	7.82	37	0.24	50	0.67	23.3	100	172				
BLK	Blank	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2				
BLK	Blank															<0.02	<2	<0.01	
BLK	Blank	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2				
Prep Wash																			
ROCK-WHI	Prep Blank	0.09	0.23	1.8	0.3	<0.05	2.9	8.07	11.0	<0.02	<1	0.4	1.7	<10	<2				
ROCK-WHI	Prep Blank	0.10	0.28	1.8	0.2	<0.05	2.6	7.85	10.7	<0.02	<1	<0.1	1.5	<10	<2				

Appendix 5

GDS Soil Samples., 2 Certificates of Analyses., Zinex Mining Corp.

Certificate of Analysis WHI 17000273.1

Certificate of Analysis WHI 17000282.2



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Client: **Zinex Mining Corp.**
Box 997
Whistler British Columbia V0N 1B0 Canada

Submitted By: Janet Miller
Receiving Lab: Canada-Whitehorse
Received: June 28, 2017
Report Date: July 29, 2017
Page: 1 of 8

CERTIFICATE OF ANALYSIS

WHI17000173.2

CLIENT JOB INFORMATION

Project: Adanac
Shipment ID:
P.O. Number
Number of Samples: 202

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	202	Dry at 60C			WHI
SS80	202	Dry at 60C sieve 100g to -80 mesh			WHI
SVRJT	202	Save all or part of Soil Reject			WHI
AQ252_EXT	194	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	30	Completed	VAN
SHP01	202	Per sample shipping charges for branch shipments			VAN
AQ251_EXT	4	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
AQ250_EXT	3	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	0.5	Completed	VAN

ADDITIONAL COMMENTS

Version 2: AQ251-Ext & AQ250-Ext included for the IS samples.

Invoice To: Zinex Mining Corp.
Box 997
Whistler British Columbia V0N 1B0
Canada

CC: Barry Hanslit
Caoimhe Peat



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Box 997
Whistler British Columbia V0N 1B0 Canada

Project: Adanac
Report Date: July 29, 2017

Page: 2 of 8 **Part:** 1 of 8

CERTIFICATE OF ANALYSIS

WHI17000173.2

	Method	Analyte	Unit	MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%
					0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1532301	Soil	68.00	25.61	83.68	87.6	582	6.1	3.8	995	1.46	125.1	9.5	8.3	15.9	10.1	1.07	5.43	7.97	21	0.13	0.044			
1532302	Soil	59.44	132.80	154.97	397.6	1713	14.9	17.7	7074	2.90	240.6	288.6	6.8	4.7	29.5	9.10	9.82	13.23	33	0.55	0.132			
1532303	Soil	30.59	93.71	124.04	171.2	933	33.7	13.0	535	3.53	282.1	11.2	9.1	20.0	13.3	0.86	12.71	12.28	62	0.17	0.050			
1532304	Soil	24.37	88.20	103.47	172.6	1282	28.8	9.3	378	3.42	197.0	12.2	8.5	17.2	13.8	1.20	11.03	12.86	61	0.16	0.046			
1532305	Soil	12.53	222.58	431.77	441.8	5868	22.3	17.0	1706	3.81	498.3	53.1	25.7	49.3	39.8	2.98	28.62	14.82	56	0.46	0.097			
1532306	Soil	6.84	245.52	46.91	98.6	353	32.1	25.9	619	3.64	113.9	3.7	12.0	4.2	17.8	0.58	9.95	14.49	75	0.26	0.062			
1532307	Soil	4.96	143.78	38.13	82.2	260	32.6	16.5	398	3.06	92.0	1.5	5.8	2.5	14.9	0.39	6.33	12.20	66	0.22	0.059			
1532308	Soil	5.33	144.28	58.34	119.6	438	23.0	16.0	578	4.21	312.4	1.0	9.2	2.5	18.5	1.04	16.68	17.58	96	0.22	0.038			
1532309	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.			
1532310	Soil	2.80	42.78	26.58	75.0	265	19.8	7.3	291	1.98	23.2	1.2	14.1	0.2	18.9	0.75	1.29	15.20	41	0.23	0.098			
1532311	Soil	2.16	71.99	29.13	95.1	362	32.5	11.5	432	2.12	42.9	1.3	1.8	1.0	12.9	0.65	1.86	6.20	51	0.22	0.093			
1532312	Soil	2.11	100.59	50.59	142.8	1001	29.4	11.7	580	2.44	105.8	2.3	10.7	2.1	32.8	1.77	3.52	6.26	54	0.26	0.104			
1532313	Soil	1.92	79.11	32.38	126.4	376	32.1	12.5	645	2.65	28.7	2.0	5.4	3.2	27.1	1.40	3.21	4.53	57	0.29	0.120			
1532314	Soil	1.47	72.41	28.05	88.4	268	20.9	10.3	444	2.61	53.8	2.6	5.5	3.5	38.5	0.57	2.39	4.33	55	0.42	0.112			
1532315	Soil	2.08	95.81	38.59	109.9	365	18.6	10.2	439	2.85	84.3	3.0	13.8	1.8	38.1	0.68	3.58	6.38	58	0.34	0.123			
1532316	Soil	6.48	48.18	43.40	76.4	607	29.0	11.0	986	2.49	129.6	4.7	3.2	0.2	29.3	0.93	1.87	4.52	50	0.28	0.187			
1532317	Soil	4.22	82.44	56.51	106.1	1083	18.9	12.0	557	3.06	123.3	2.6	8.3	4.2	31.8	0.72	6.05	7.65	55	0.26	0.090			
1532318	Soil	8.91	147.98	100.53	220.5	1464	17.9	15.4	1291	4.18	131.4	4.7	10.0	3.4	25.8	1.43	6.23	19.27	66	0.29	0.160			
1532319	Soil	13.03	288.40	114.20	245.9	1407	16.8	24.5	2292	5.95	335.4	9.4	23.5	11.0	47.4	1.11	12.45	28.37	98	0.40	0.109			
1532320	Soil	7.26	242.14	421.82	406.8	1863	8.8	13.0	787	5.75	1174.1	18.1	33.5	23.9	36.5	2.10	33.12	17.00	48	0.78	0.148			
1532321	Soil	20.12	82.26	111.92	135.9	606	20.3	10.2	807	3.24	167.4	11.5	8.3	21.9	11.9	0.46	10.37	14.06	54	0.11	0.039			
1532322	Soil	18.44	61.52	221.76	115.5	846	6.8	3.6	465	1.59	180.4	19.5	4.1	32.4	5.4	0.22	10.46	11.01	19	0.11	0.038			
1532323	Soil	31.14	38.44	54.17	119.7	381	9.3	5.0	297	2.05	88.8	9.9	7.9	6.2	17.8	0.41	4.22	6.68	40	0.23	0.080			
1532324	Soil	1.99	63.19	61.82	206.3	345	9.5	4.3	366	2.28	69.1	11.5	5.7	11.6	12.6	1.73	4.33	5.84	25	0.12	0.040			
1532325	Soil	2.51	61.95	65.77	216.8	471	10.9	5.1	444	2.51	70.1	20.4	1.8	5.6	10.7	1.40	3.43	6.66	28	0.08	0.078			
1532326	Soil	1.63	36.02	33.50	80.5	76	15.8	5.3	309	1.87	23.3	8.6	3.4	12.3	10.9	0.55	1.64	3.05	30	0.16	0.049			
1532327	Soil	1.69	48.40	31.72	85.7	147	19.2	6.4	369	1.95	23.3	12.6	7.0	18.2	12.0	0.61	1.86	3.44	32	0.20	0.057			
1532328	Soil	2.10	40.72	32.71	74.8	97	11.3	4.4	493	1.78	22.4	9.2	4.5	5.2	8.8	0.82	2.36	4.22	26	0.09	0.055			
1532329	Soil	4.19	108.65	87.42	157.5	460	17.6	7.5	750	3.09	53.2	29.5	4.5	6.2	12.0	0.86	4.46	11.69	40	0.10	0.085			
1532330	Soil	2.56	30.22	61.43	93.9	194	7.9	4.7	689	1.94	29.6	7.8	1.5	1.6	8.3	1.10	1.97	2.99	33	0.08	0.056			



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Page: 2 of 8

Part: 2 of 8

CERTIFICATE OF ANALYSIS

WHI17000173.2

	Method	Analyte	Unit	MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252			
					La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
					ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
					0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1532301	Soil		22.5	13.9	0.17	119.0	0.046	4	0.78	0.009	0.14	15.0	1.5	0.64	0.03	23	0.5	0.24	5.7	5.91	0.1	0.03		
1532302	Soil		140.6	26.9	0.32	190.1	0.029	3	2.80	0.011	0.14	10.6	1.8	1.85	0.14	80	9.3	0.57	8.8	11.18	0.4	0.24		
1532303	Soil		18.2	47.0	0.73	121.4	0.127	3	2.06	0.012	0.19	15.9	3.7	1.10	0.04	54	0.9	0.63	8.4	8.19	<0.1	0.10		
1532304	Soil		21.3	43.6	0.56	90.9	0.138	2	1.82	0.011	0.12	17.1	2.9	0.72	0.04	25	0.9	0.69	8.7	7.49	0.1	0.08		
1532305	Soil		38.0	33.1	0.68	177.9	0.097	2	2.26	0.017	0.38	31.9	5.1	1.95	0.04	30	2.0	1.11	6.9	14.89	0.2	0.18		
1532306	Soil		7.1	47.9	0.93	122.5	0.136	2	1.82	0.017	0.40	33.0	5.2	2.31	0.03	8	0.4	0.85	5.9	11.73	0.2	0.04		
1532307	Soil		5.3	56.9	0.88	125.5	0.145	2	1.96	0.017	0.30	21.1	3.4	1.91	0.04	27	0.2	0.54	6.3	10.02	0.2	0.05		
1532308	Soil		3.9	52.5	0.95	101.1	0.209	2	1.94	0.019	0.35	21.8	5.0	1.85	0.04	31	<0.1	0.89	7.9	12.30	0.2	0.08		
1532309	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.			
1532310	Soil		5.1	35.0	0.37	96.8	0.067	3	1.76	0.013	0.12	2.8	1.2	0.67	0.07	57	0.1	0.12	6.0	4.45	<0.1	0.02		
1532311	Soil		8.4	45.0	0.60	127.2	0.098	2	1.90	0.019	0.18	3.2	3.4	1.07	0.04	46	0.2	0.07	5.5	5.69	<0.1	0.03		
1532312	Soil		12.8	46.6	0.69	276.4	0.110	2	2.16	0.018	0.30	5.7	3.9	1.44	0.03	47	0.2	0.12	6.1	6.45	0.2	<0.02		
1532313	Soil		14.0	45.8	0.72	263.1	0.135	2	2.51	0.018	0.24	2.4	3.5	1.13	0.04	27	0.5	0.11	6.6	5.34	0.1	0.03		
1532314	Soil		16.2	35.5	0.64	184.8	0.110	1	1.95	0.015	0.24	2.2	3.1	0.90	0.03	16	0.3	0.10	6.3	5.99	0.1	0.03		
1532315	Soil		18.8	39.8	0.68	194.2	0.123	3	2.49	0.018	0.23	3.4	2.6	1.31	0.07	24	0.2	0.09	7.6	8.63	0.1	<0.02		
1532316	Soil		17.5	52.5	0.50	123.6	0.057	4	2.97	0.012	0.12	4.3	1.0	0.64	0.18	70	0.7	0.18	8.7	5.45	0.1	<0.02		
1532317	Soil		16.1	34.8	0.58	180.6	0.098	2	2.60	0.014	0.19	6.0	3.2	1.19	0.03	52	0.3	0.28	7.7	8.19	<0.1	0.03		
1532318	Soil		17.4	30.2	0.70	171.9	0.115	3	2.63	0.013	0.34	41.9	3.5	1.44	0.07	47	0.6	1.15	9.3	12.66	0.1	<0.02		
1532319	Soil		31.3	28.9	1.09	318.1	0.165	1	3.58	0.012	0.62	72.7	7.3	3.55	0.05	<5	0.7	2.00	12.9	24.12	0.2	0.05		
1532320	Soil		44.3	14.0	0.42	151.0	0.045	3	2.36	0.007	0.30	21.9	8.6	1.98	0.08	41	0.8	1.45	10.1	24.18	0.2	0.08		
1532321	Soil		25.7	33.8	0.45	110.7	0.087	1	1.94	0.009	0.15	15.1	2.9	1.29	0.04	33	0.7	0.86	9.0	9.52	0.1	0.06		
1532322	Soil		35.3	12.3	0.17	53.4	0.042	<1	0.89	0.009	0.11	24.0	1.7	0.60	0.02	<5	0.5	0.63	5.0	5.90	0.1	0.04		
1532323	Soil		19.1	20.9	0.38	131.7	0.073	1	1.48	0.013	0.14	11.6	1.9	0.77	0.04	16	0.6	0.29	7.6	6.95	<0.1	0.05		
1532324	Soil		27.0	14.9	0.20	89.3	0.032	1	1.11	0.008	0.10	3.0	1.8	0.71	0.05	19	0.4	0.06	5.7	4.77	<0.1	0.06		
1532325	Soil		37.3	19.8	0.27	96.4	0.021	1	1.76	0.008	0.10	1.8	1.9	0.86	0.06	36	1.3	0.08	8.0	6.25	<0.1	0.05		
1532326	Soil		20.7	20.5	0.29	69.5	0.048	1	1.17	0.007	0.09	1.5	2.1	0.45	0.02	18	0.5	0.14	5.3	3.70	<0.1	0.04		
1532327	Soil		25.4	24.0	0.34	80.6	0.058	1	1.12	0.008	0.09	1.6	2.6	0.37	<0.02	24	0.6	0.14	4.8	3.46	<0.1	0.07		
1532328	Soil		18.4	18.9	0.18	77.1	0.039	2	0.94	0.007	0.09	2.7	1.6	0.40	0.05	20	0.1	0.16	4.7	3.96	<0.1	0.02		
1532329	Soil		53.2	29.1	0.34	110.8	0.033	4	2.14	0.009	0.12	2.8	2.2	0.88	0.09	47	1.5	0.35	9.2	9.47	0.1	0.06		
1532330	Soil		15.8	19.0	0.14	61.0	0.026	2	1.26	0.006	0.06	0.7	0.9	0.49	0.06	37	0.4	0.04	6.2	4.30	<0.1	<0.02		



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		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Mo	Cu	Pb	Zn	Ag	Ni	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.01	0.01	0.01	0.1	2	0.1	0.1
1532301	Soil	4.50	51.2	4.9	<0.05	0.7	25.56	66.9	0.06	1	1.0	11.2	<10	<2							
1532302	Soil	2.77	40.4	4.6	0.13	0.6	506.04	323.7	0.10	1	15.1	29.8	<10	<2							
1532303	Soil	4.34	48.9	6.5	<0.05	3.7	34.19	52.9	0.11	<1	1.8	29.1	<10	<2							
1532304	Soil	4.52	37.7	6.1	<0.05	3.7	50.48	87.1	0.10	<1	2.0	21.5	<10	<2							
1532305	Soil	3.22	79.2	8.1	<0.05	5.3	114.65	95.3	0.14	1	3.2	35.7	<10	<2							
1532306	Soil	0.79	95.7	7.5	<0.05	1.8	10.90	21.8	0.08	<1	1.9	26.2	<10	<2							
1532307	Soil	1.29	93.0	6.1	<0.05	1.8	4.38	13.7	0.07	<1	1.4	26.2	<10	<2							
1532308	Soil	1.60	112.8	10.0	<0.05	2.5	4.14	9.0	0.09	<1	0.6	32.4	<10	<2							
1532309	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	3.86	227.55	51.98	126.9	772	39.4	27.3
1532310	Soil	1.07	51.7	5.9	<0.05	0.5	3.32	10.5	0.06	<1	0.6	11.3	<10	<2							
1532311	Soil	0.80	43.6	7.5	<0.05	0.7	5.84	16.4	0.08	<1	0.8	16.7	<10	<2							
1532312	Soil	1.05	51.4	9.1	<0.05	0.5	7.99	26.9	0.16	<1	0.9	17.4	<10	2							
1532313	Soil	1.86	44.7	6.8	<0.05	1.5	7.57	30.2	0.08	<1	0.8	19.0	<10	<2							
1532314	Soil	1.18	39.5	3.8	<0.05	1.1	7.05	33.4	0.07	<1	0.7	17.4	<10	<2							
1532315	Soil	1.38	43.2	6.8	<0.05	0.6	7.51	37.0	0.09	<1	0.8	25.0	<10	3							
1532316	Soil	1.55	22.5	7.0	<0.05	0.6	7.41	28.1	0.05	<1	1.7	14.6	<10	<2							
1532317	Soil	1.90	59.7	5.2	<0.05	1.1	6.84	35.3	0.08	<1	1.3	25.9	<10	<2							
1532318	Soil	1.81	111.4	7.5	<0.05	0.8	10.91	38.8	0.28	<1	2.6	28.9	<10	<2							
1532319	Soil	1.61	141.2	11.8	<0.05	1.0	21.92	76.1	0.14	<1	3.5	54.9	<10	<2							
1532320	Soil	1.97	78.6	20.6	<0.05	2.6	60.41	98.4	0.30	<1	4.0	27.6	<10	<2							
1532321	Soil	4.48	62.3	6.9	<0.05	2.0	30.66	80.4	0.09	<1	1.7	20.9	<10	<2							
1532322	Soil	5.16	31.5	3.9	<0.05	1.2	66.83	100.2	0.03	<1	1.2	13.5	<10	3							
1532323	Soil	3.60	41.4	6.8	<0.05	1.4	26.50	41.9	0.07	<1	1.8	18.3	<10	<2							
1532324	Soil	2.11	31.7	5.2	<0.05	1.9	29.21	68.1	0.21	<1	1.9	12.2	<10	<2							
1532325	Soil	2.09	35.4	6.9	<0.05	0.8	50.29	84.6	0.22	<1	2.7	17.2	<10	<2							
1532326	Soil	2.56	26.4	2.8	<0.05	1.8	26.33	59.7	0.06	<1	1.2	19.9	<10	<2							
1532327	Soil	2.49	24.6	2.2	<0.05	2.7	36.99	67.1	0.05	<1	1.6	16.8	<10	<2							
1532328	Soil	2.33	41.7	3.4	<0.05	0.9	18.66	58.2	0.05	<1	1.4	10.6	<10	4							
1532329	Soil	3.10	47.4	6.2	<0.05	1.0	88.21	142.5	0.09	<1	2.8	24.7	<10	2							
1532330	Soil	1.85	36.8	3.2	<0.05	0.8	16.70	52.5	0.05	<1	1.3	11.1	<10	<2							



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Method Analyte Unit MDL		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B
		ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm
		1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	0.5	0.5	0.01	0.5	0.001	1
1532301	Soil																			
1532302	Soil																			
1532303	Soil																			
1532304	Soil																			
1532305	Soil																			
1532306	Soil																			
1532307	Soil																			
1532308	Soil																			
1532309	Soil	604	4.94	323.5	0.9	15.5	1.8	38.7	0.63	18.09	20.23	94	0.35	0.045	5.4	71.2	1.34	125.9	0.226	<1
1532310	Soil																			
1532311	Soil																			
1532312	Soil																			
1532313	Soil																			
1532314	Soil																			
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	Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251		
			Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	
			%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
			MDL	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1
1532301	Soil																						
1532302	Soil																						
1532303	Soil																						
1532304	Soil																						
1532305	Soil																						
1532306	Soil																						
1532307	Soil																						
1532308	Soil																						
1532309	Soil	0.023	0.60	31.8	7.3	2.79	0.06	29	0.3	1.42	7.6	11.50	0.3	0.06	0.62	114.4	13.2	<0.05	2.4	5.97	11.2		
1532310	Soil																						
1532311	Soil																						
1532312	Soil																						
1532313	Soil																						
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Method Analyte Unit MDL		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		In	Re	Be	Li	Pd	Pt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th
		ppm	ppb	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm
		0.02	1	0.1	0.1	10	2	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1
1532301	Soil																			
1532302	Soil																			
1532303	Soil																			
1532304	Soil																			
1532305	Soil																			
1532306	Soil																			
1532307	Soil																			
1532308	Soil																			
1532309	Soil	0.09	<1	1.5	42.5	<10	2													
1532310	Soil																			
1532311	Soil																			
1532312	Soil																			
1532313	Soil																			
1532314	Soil																			
1532315	Soil																			
1532316	Soil																			
1532317	Soil																			
1532318	Soil																			
1532319	Soil																			
1532320	Soil																			
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1532330	Soil																			



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
1532331	Soil	5.69	49.66	260.18	513.0	1948	7.6	5.0	1614	2.30	135.5	36.6	5.8	78.2	13.7	3.81	4.74	5.08	6	0.20
1532332	Soil	2.83	75.48	32.59	132.6	194	17.8	8.1	480	2.61	38.9	9.8	3.3	12.4	16.0	0.78	4.09	8.57	44	0.22
1532333	Soil	4.78	157.07	57.13	231.1	607	16.7	12.5	730	3.89	56.8	24.0	13.4	35.0	34.3	1.63	7.19	17.38	65	0.50
1532334	Soil	2.08	140.47	42.81	402.7	713	22.0	20.8	976	5.02	62.6	3.8	24.8	6.1	100.7	2.67	5.08	12.99	126	0.76
1532335	Soil	3.58	204.48	145.98	660.5	1044	26.6	19.1	1169	4.80	190.9	4.6	20.3	7.0	44.0	2.87	9.54	14.50	106	0.39
1532336	Soil	5.56	183.35	196.11	494.0	1316	24.1	11.4	914	4.12	238.6	21.6	12.1	40.2	27.2	2.70	15.63	15.24	43	0.21
1532337	Soil	4.59	120.69	62.67	242.1	496	13.8	5.8	427	2.59	99.5	19.0	5.6	28.4	8.9	0.95	8.99	10.49	28	0.07
1532338	Soil	4.00	168.18	79.16	309.2	386	14.0	11.5	1281	3.79	103.9	29.9	7.4	20.9	20.5	2.50	9.91	13.30	45	0.16
1532339	Soil	1.77	32.68	38.16	108.9	206	11.5	4.9	308	2.00	50.9	5.5	1.8	2.3	13.9	0.55	3.25	4.67	34	0.17
1532340	Soil	8.32	10.22	56.50	67.3	154	1.9	0.8	120	1.02	44.7	22.1	<0.2	56.1	13.9	0.29	0.66	1.21	<2	0.48
1532341	Soil	2.92	49.62	36.69	96.6	71	21.0	5.2	255	1.86	50.2	11.6	5.6	28.2	9.4	0.51	2.83	4.69	25	0.13
1532342	Soil	3.13	44.03	31.33	74.3	151	18.9	5.2	373	2.01	43.3	17.9	1.8	21.7	10.0	0.51	2.22	4.46	31	0.15
1532343	Soil	2.06	35.43	35.81	71.0	124	19.1	5.0	328	1.98	46.0	8.3	3.4	14.3	10.5	0.57	2.49	6.18	31	0.14
1532344	Soil	2.44	52.86	54.45	81.1	293	18.1	5.4	475	2.03	69.9	15.0	2.8	31.8	10.7	0.75	3.11	9.24	28	0.17
1532345	Soil	2.22	44.69	45.40	69.8	138	18.9	5.3	289	2.06	67.8	9.5	2.3	14.0	11.7	0.56	2.84	11.95	32	0.19
1532346	Soil	2.37	42.06	63.49	57.2	319	15.3	4.9	289	2.39	65.7	8.0	6.8	7.5	9.5	0.48	3.28	10.42	37	0.11
1532347	Soil	2.45	56.64	69.61	65.3	353	21.2	5.9	283	2.27	76.2	12.7	8.3	29.4	14.6	0.64	3.91	11.66	38	0.25
1532348	Soil	6.51	144.17	377.98	214.7	1198	22.4	9.7	1466	3.71	498.9	91.0	6.3	91.1	19.1	2.84	8.14	17.51	42	0.23
1532349	Soil	1.61	43.65	33.68	156.4	207	18.5	11.7	572	2.83	34.5	2.8	17.8	3.6	55.2	0.70	2.52	10.29	71	0.49
1532350	Soil	2.06	46.90	49.21	211.6	307	8.8	6.9	405	2.37	65.9	4.0	7.7	6.5	19.5	0.72	5.57	5.15	44	0.20
1532351	Soil	2.05	48.86	51.48	238.9	243	11.6	8.1	493	2.31	59.9	4.8	6.8	9.2	33.7	1.24	5.26	5.73	43	0.27
1532352	Soil	1.91	48.22	49.11	250.7	235	12.0	7.6	485	2.30	58.2	4.8	7.0	8.5	32.3	1.19	5.07	5.35	43	0.26
1532353	Soil	5.46	98.56	84.13	328.3	711	18.0	12.5	936	3.82	132.6	10.9	13.9	10.1	25.6	1.05	7.54	12.20	72	0.18
1532354	Soil	4.00	76.56	57.04	271.9	272	13.0	9.0	751	2.87	86.1	7.1	8.6	6.3	18.6	1.39	6.10	9.27	52	0.13
1532355	Soil	1.82	71.99	40.13	289.9	165	4.5	3.2	379	2.21	79.6	8.6	2.0	10.8	9.9	1.15	7.26	4.57	21	0.09
1532356	Soil	7.89	258.90	176.48	480.4	803	10.9	9.1	1039	3.94	214.0	27.9	11.0	16.8	19.8	1.28	13.29	23.31	44	0.12
1532357	Soil	4.28	31.56	164.55	200.1	574	2.5	1.3	188	0.77	34.5	32.4	0.3	53.6	6.5	0.18	0.43	19.90	<2	0.17
1532358	Soil	15.27	58.74	64.84	106.6	226	18.6	5.5	259	2.24	161.9	19.9	6.7	20.6	9.8	0.65	5.73	6.01	33	0.10
1532359	Soil	14.14	46.29	59.12	126.4	141	18.1	5.1	337	2.13	106.5	9.1	2.5	10.0	12.4	1.69	5.01	5.86	30	0.15
1532360	Soil	2.72	21.83	28.04	63.5	149	10.1	3.5	655	1.92	64.3	7.4	4.3	2.4	9.4	0.61	2.67	2.10	33	0.09



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	Method	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge	Hf
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1532331	Soil	77.4	8.2	0.16	43.2	0.004	2	1.26	0.005	0.13	0.7	3.1	0.66	<0.02	41	1.2	0.19	7.9	17.14	0.2	0.35
1532332	Soil	22.1	24.0	0.46	167.3	0.065	2	1.60	0.011	0.17	2.9	2.8	0.91	0.06	19	0.5	0.05	6.1	6.38	0.1	0.06
1532333	Soil	42.8	23.8	0.74	410.9	0.128	2	2.31	0.019	0.40	4.2	5.3	1.83	0.08	19	1.8	0.13	9.7	11.47	0.2	0.24
1532334	Soil	22.3	33.3	1.38	920.0	0.272	3	3.59	0.035	0.66	10.3	8.3	2.39	0.04	23	0.1	0.21	11.4	17.32	0.2	0.10
1532335	Soil	16.8	38.0	1.13	355.2	0.173	3	3.70	0.019	0.35	3.4	5.5	1.94	0.06	43	1.0	0.34	10.8	16.30	<0.1	0.05
1532336	Soil	41.7	25.2	0.61	175.3	0.118	<1	2.11	0.009	0.19	4.2	4.3	1.55	0.04	25	1.6	0.35	8.4	10.22	0.1	0.22
1532337	Soil	32.0	18.4	0.29	77.6	0.061	<1	1.36	0.006	0.10	4.4	2.3	0.84	0.02	21	0.9	0.19	6.1	6.49	<0.1	0.13
1532338	Soil	37.0	21.9	0.40	134.5	0.053	<1	2.25	0.009	0.16	2.6	3.4	1.28	0.04	22	1.4	0.28	8.1	10.36	<0.1	0.05
1532339	Soil	19.4	22.1	0.32	143.5	0.070	<1	1.70	0.009	0.14	3.8	1.5	0.63	0.06	40	0.7	0.13	6.1	5.35	<0.1	0.05
1532340	Soil	42.3	1.9	0.07	21.4	0.003	2	1.01	0.003	0.18	1.2	1.0	0.44	<0.02	5	1.3	<0.02	4.9	21.79	0.1	1.33
1532341	Soil	29.7	20.0	0.25	61.7	0.060	<1	1.10	0.008	0.07	3.3	2.4	0.38	<0.02	14	0.6	0.08	4.9	3.14	<0.1	0.12
1532342	Soil	34.2	23.3	0.29	64.1	0.066	2	1.18	0.008	0.08	2.4	2.8	0.33	0.02	36	1.2	0.06	5.5	2.79	0.1	0.07
1532343	Soil	20.2	22.6	0.28	44.1	0.052	<1	1.05	0.009	0.06	2.0	1.7	0.25	0.03	27	0.5	0.07	4.3	1.91	<0.1	0.05
1532344	Soil	32.8	19.8	0.29	68.9	0.060	<1	1.00	0.008	0.07	2.9	2.6	0.32	<0.02	15	0.9	0.09	4.6	2.53	0.1	0.10
1532345	Soil	25.7	23.2	0.30	51.9	0.057	1	1.04	0.009	0.06	3.1	2.1	0.27	0.03	21	0.5	0.10	4.3	2.13	<0.1	0.05
1532346	Soil	19.5	24.0	0.26	51.6	0.057	<1	1.24	0.009	0.05	1.8	1.7	0.33	0.06	41	0.7	0.11	5.5	2.00	<0.1	0.06
1532347	Soil	27.2	25.4	0.34	72.4	0.061	<1	1.03	0.010	0.06	3.3	2.6	0.32	0.03	21	0.8	0.12	4.0	1.92	0.1	0.10
1532348	Soil	70.4	27.7	0.36	114.6	0.076	1	1.66	0.015	0.13	3.2	5.3	0.90	0.12	37	5.0	0.22	8.1	7.37	0.2	0.30
1532349	Soil	18.2	32.1	0.81	462.8	0.154	<1	2.87	0.046	0.32	6.9	3.9	1.48	0.07	57	0.5	0.24	9.2	12.87	<0.1	0.04
1532350	Soil	17.4	17.5	0.45	249.9	0.093	<1	1.54	0.011	0.21	3.7	2.2	1.15	0.03	27	0.3	0.11	6.4	8.00	<0.1	0.07
1532351	Soil	20.5	19.2	0.49	291.4	0.098	2	1.63	0.017	0.23	4.0	2.9	1.04	0.04	20	0.4	0.14	6.7	8.40	<0.1	0.06
1532352	Soil	19.4	17.7	0.48	284.2	0.092	<1	1.61	0.016	0.22	4.0	2.7	0.99	0.04	17	0.4	0.13	6.7	8.09	<0.1	0.07
1532353	Soil	32.7	28.4	0.70	258.2	0.102	1	2.90	0.010	0.23	5.2	4.7	1.49	0.07	26	1.1	0.25	10.8	15.76	0.1	0.06
1532354	Soil	18.1	23.2	0.50	163.3	0.088	<1	1.95	0.009	0.15	4.1	2.8	1.10	0.08	20	0.7	0.20	8.7	11.15	<0.1	0.06
1532355	Soil	18.9	8.6	0.22	87.6	0.042	<1	1.39	0.007	0.11	1.6	1.9	0.77	0.02	24	0.7	0.17	6.4	6.20	<0.1	0.07
1532356	Soil	46.6	18.8	0.44	114.2	0.030	1	2.59	0.009	0.15	3.8	3.2	1.64	0.09	44	1.8	0.62	9.3	11.25	0.1	0.05
1532357	Soil	32.0	3.0	0.08	19.7	0.003	<1	0.74	0.005	0.10	1.9	1.0	0.49	<0.02	14	1.6	0.09	3.9	13.35	<0.1	0.47
1532358	Soil	33.9	25.7	0.30	75.4	0.076	<1	1.26	0.008	0.11	5.8	2.8	0.56	0.04	32	0.8	0.25	7.5	5.07	<0.1	0.05
1532359	Soil	30.1	24.1	0.24	60.8	0.062	<1	1.20	0.007	0.10	5.5	1.7	0.48	0.05	49	0.7	0.21	6.6	4.50	<0.1	0.04
1532360	Soil	15.5	22.8	0.19	62.1	0.042	<1	0.88	0.007	0.06	1.9	1.1	0.30	0.08	42	0.6	0.15	5.9	2.49	<0.1	0.03



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		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Mo	Cu	Pb	Zn	Ag	Ni	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.01	0.01	0.01	0.1	2	0.1	0.1
1532331	Soil	1.27	41.8	6.5	<0.05	17.4	136.40	170.5	0.07	<1	3.9	19.2	<10	5							
1532332	Soil	2.07	47.2	6.1	<0.05	2.7	24.21	69.1	0.10	<1	2.1	26.4	<10	<2							
1532333	Soil	1.79	94.2	13.4	<0.05	7.8	98.47	124.4	0.21	<1	3.5	45.7	<10	<2							
1532334	Soil	1.52	112.0	16.7	<0.05	3.7	16.45	43.4	0.34	<1	3.8	54.4	<10	<2							
1532335	Soil	1.64	74.7	13.6	<0.05	2.6	13.99	37.0	0.50	<1	3.1	48.2	<10	<2							
1532336	Soil	2.21	44.9	10.1	<0.05	11.5	78.66	88.8	0.52	<1	3.3	21.8	<10	<2							
1532337	Soil	4.15	33.6	6.8	<0.05	5.9	60.94	63.4	0.22	<1	2.4	16.8	<10	<2							
1532338	Soil	2.35	49.2	9.3	<0.05	2.6	42.71	75.8	0.24	<1	4.4	26.5	<10	<2							
1532339	Soil	2.07	43.1	6.9	<0.05	1.2	15.00	43.2	0.12	<1	1.8	15.3	<10	<2							
1532340	Soil	7.66	60.2	2.8	<0.05	36.9	83.38	101.2	0.07	<1	1.3	7.5	40	<2							
1532341	Soil	4.01	26.9	2.6	<0.05	3.2	35.68	58.6	0.07	<1	1.0	17.0	<10	<2							
1532342	Soil	3.67	25.0	2.4	<0.05	2.5	52.97	71.4	0.05	<1	1.0	15.3	<10	<2							
1532343	Soil	2.54	16.7	1.7	<0.05	1.6	21.04	58.2	0.05	<1	0.8	12.7	<10	<2							
1532344	Soil	2.23	21.4	1.8	<0.05	3.6	47.55	79.7	0.05	<1	1.3	13.0	<10	<2							
1532345	Soil	2.59	17.4	1.9	<0.05	1.9	26.44	56.5	0.06	<1	0.8	11.3	<10	<2							
1532346	Soil	2.99	15.1	2.3	<0.05	2.1	19.51	42.7	0.06	<1	0.9	13.2	<10	<2							
1532347	Soil	2.07	13.4	1.7	<0.05	2.9	38.45	61.9	0.06	<1	0.9	11.5	<10	<2							
1532348	Soil	2.22	30.6	5.0	0.06	7.0	224.38	263.9	0.21	<1	3.5	22.2	<10	<2							
1532349	Soil	2.38	83.7	12.5	<0.05	1.5	11.59	40.2	0.16	1	2.4	44.7	<10	<2							
1532350	Soil	2.14	60.5	10.9	<0.05	2.2	15.08	35.3	0.23	<1	1.7	24.1	<10	<2							
1532351	Soil	1.95	56.3	10.0	<0.05	2.3	19.06	44.2	0.22	<1	1.7	23.3	<10	<2							
1532352	Soil	1.96	55.1	9.6	<0.05	2.2	18.22	43.1	0.21	<1	1.6	22.2	<10	<2							
1532353	Soil	2.22	67.2	14.6	<0.05	2.0	38.25	58.3	0.43	<1	3.2	31.8	<10	<2							
1532354	Soil	2.29	50.2	12.2	<0.05	1.8	22.49	39.6	0.28	<1	1.7	24.6	<10	<2							
1532355	Soil	3.01	36.5	10.7	<0.05	2.5	21.58	43.8	0.38	<1	2.1	20.7	<10	<2							
1532356	Soil	2.12	41.4	15.6	<0.05	1.4	56.00	80.3	0.60	<1	2.9	24.9	<10	<2							
1532357	Soil	7.70	53.4	3.3	<0.05	11.3	102.76	72.1	0.30	<1	1.5	7.8	<10	<2							
1532358	Soil	3.93	39.1	3.6	<0.05	2.1	50.16	82.4	0.07	<1	1.9	17.6	<10	<2							
1532359	Soil	3.94	45.9	3.7	<0.05	1.4	26.64	77.6	0.07	<1	1.3	18.3	<10	<2							
1532360	Soil	2.20	24.6	1.8	<0.05	0.9	23.60	39.0	0.04	<1	0.5	8.1	<10	<2							



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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1532361	Soil	4.12	51.78	62.99	98.4	263	18.6	6.6	495	2.33	147.3	21.5	2.8	14.0	12.0	0.84	4.55	2.69	39	0.17	0.056
1532362	Soil	11.73	78.30	114.50	172.0	314	16.8	6.2	815	2.48	218.0	35.4	2.4	47.6	12.6	1.75	7.61	3.68	29	0.18	0.065
1532363	Soil	3.69	110.11	168.45	168.4	363	7.7	3.5	727	2.02	194.5	41.2	3.0	52.3	8.5	2.27	10.11	4.88	13	0.11	0.034
1532364	Soil	3.81	108.09	74.31	105.9	217	17.0	5.3	293	2.68	190.7	27.7	4.9	46.8	10.5	0.89	11.47	3.98	29	0.13	0.048
1532365	Soil	2.48	38.08	48.30	84.7	45	13.5	4.3	271	2.47	80.6	21.7	2.7	13.8	10.8	0.69	7.19	2.85	34	0.12	0.050
1532366	Soil	2.11	23.75	23.38	73.5	239	5.6	3.6	370	1.65	23.7	4.7	7.2	1.2	11.0	0.46	2.50	4.17	31	0.07	0.096
1532367	Soil	1.24	28.82	34.53	89.5	174	6.9	3.4	295	1.48	73.9	8.3	3.8	3.8	13.0	0.78	3.49	3.06	23	0.11	0.060
1532368	Soil	1.44	21.44	15.63	70.1	84	3.9	1.9	173	1.27	35.7	3.3	2.6	1.8	8.1	0.45	3.19	3.07	17	0.06	0.038
1532369	Soil	1.55	38.00	32.35	107.1	308	4.0	1.9	176	1.47	82.9	10.5	2.1	3.8	8.4	0.76	6.65	4.20	15	0.05	0.049
1532370	Soil	8.91	150.45	101.04	138.7	279	10.5	4.6	539	4.29	129.3	66.6	1.7	38.3	7.9	0.29	13.81	16.73	39	0.05	0.110
1532371	Soil	3.17	95.54	94.96	90.7	351	6.6	3.0	429	2.32	125.8	42.8	0.8	82.9	4.4	0.39	9.24	7.17	25	0.04	0.031
1532372	Soil	2.97	79.97	70.66	109.1	252	7.6	3.5	406	2.13	142.5	37.0	3.1	64.2	6.7	0.90	9.68	6.77	24	0.07	0.027
1532373	Soil	4.34	72.07	208.35	232.3	875	5.8	4.1	354	2.41	255.6	14.2	9.1	18.2	22.1	1.42	14.60	8.86	31	0.17	0.037
1532374	Soil	2.01	51.75	94.01	196.9	429	4.9	3.0	281	1.77	133.5	9.0	3.2	11.3	15.8	0.96	10.47	8.14	20	0.11	0.034
1532375	Soil	58.78	119.11	287.48	276.8	2079	6.6	2.1	515	1.91	33.4	54.1	<0.2	78.9	16.9	0.75	0.85	9.61	11	0.28	0.026
1532376	Soil	3.09	22.24	51.44	172.4	226	13.0	2.7	231	1.65	74.7	43.5	0.9	18.7	10.9	0.34	0.89	4.12	21	0.13	0.049
1532377	Soil	2.28	1.62	23.95	59.9	8	1.7	0.5	190	1.20	4.8	44.3	<0.2	78.2	8.7	0.13	0.43	3.60	2	0.45	0.005
1532378	Soil	2.22	4.46	43.76	57.7	101	1.1	0.5	159	0.93	39.7	27.1	<0.2	71.2	7.5	0.15	1.21	3.82	2	0.26	0.007
1532379	Soil	15.07	7.93	66.99	370.7	116	2.2	0.8	214	0.88	71.2	44.4	<0.2	52.3	12.3	0.77	6.02	3.24	2	0.19	0.009
1532380	Soil	3.11	21.02	33.05	53.8	263	10.9	3.4	268	1.66	14.3	11.1	1.4	3.9	12.3	0.44	0.95	3.93	26	0.10	0.088
1532381	Soil	2.39	25.31	22.90	56.4	154	7.7	3.0	288	1.72	10.1	12.8	2.6	3.5	11.6	0.36	0.85	5.41	26	0.11	0.087
1532382	Soil	1.56	40.93	22.65	78.1	59	19.1	4.9	245	1.80	20.7	22.0	0.6	44.2	9.9	0.50	0.81	5.06	24	0.14	0.041
1532383	Soil	2.03	26.20	35.00	71.0	146	19.5	4.7	361	1.72	30.6	15.0	1.6	16.7	12.9	0.60	1.61	2.95	26	0.14	0.057
1532384	Soil	2.57	15.98	98.44	121.0	473	13.0	4.1	365	2.21	16.6	14.8	1.0	10.8	15.2	1.78	1.17	2.08	31	0.14	0.060
1532385	Soil	1.41	13.32	23.58	82.3	25	17.2	4.8	399	2.06	15.9	10.6	1.2	37.3	11.8	0.27	0.50	0.30	30	0.17	0.054
1532386	Soil	2.93	51.25	31.86	143.4	229	10.8	3.2	311	1.73	52.7	22.2	0.7	39.1	6.1	0.67	1.44	4.72	16	0.07	0.026
1532387	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1532388	Soil	2.32	36.55	19.53	60.6	137	13.8	3.7	166	1.86	20.6	16.0	1.7	41.6	13.0	0.26	1.11	2.03	28	0.21	0.047
1532389	Soil	1.06	10.33	54.20	213.5	318	14.6	5.0	1196	2.14	8.1	33.4	<0.2	15.3	26.2	2.49	0.37	0.67	20	0.44	0.073
1532390	Soil	0.89	7.95	40.83	209.9	148	12.0	3.1	309	1.68	6.9	25.9	<0.2	17.4	14.2	1.45	0.37	0.46	22	0.19	0.050



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	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02
1532361	Soil	37.3	26.1	0.31	61.1	0.056	1	1.32	0.008	0.07	1.4	2.7	0.44	0.03	34	1.6	0.24	6.4	3.40	0.1
1532362	Soil	50.3	19.9	0.28	78.1	0.045	<1	1.29	0.008	0.09	2.7	4.0	0.60	<0.02	21	2.1	0.39	6.9	4.41	0.1
1532363	Soil	45.1	9.2	0.15	39.0	0.014	<1	0.96	0.005	0.08	2.3	2.0	0.76	0.03	25	2.8	0.57	6.2	6.28	0.2
1532364	Soil	44.4	19.0	0.26	42.5	0.045	<1	1.04	0.008	0.06	2.6	2.6	0.49	0.03	26	2.6	0.37	5.6	3.78	0.2
1532365	Soil	29.3	20.6	0.22	53.8	0.035	2	0.97	0.006	0.05	1.4	1.4	0.46	0.03	31	1.9	0.13	5.7	4.42	<0.1
1532366	Soil	12.4	12.9	0.19	96.9	0.033	2	1.21	0.008	0.12	2.7	0.7	0.57	0.10	60	0.7	0.10	6.1	6.81	<0.1
1532367	Soil	22.0	11.5	0.24	101.1	0.043	2	1.06	0.008	0.09	3.2	1.3	0.44	0.04	22	0.5	0.17	4.7	4.79	<0.1
1532368	Soil	8.8	8.0	0.13	50.7	0.026	<1	0.60	0.004	0.06	2.4	0.6	0.29	0.04	20	0.2	0.13	4.2	3.02	<0.1
1532369	Soil	35.3	7.4	0.14	60.7	0.027	1	0.94	0.005	0.07	3.0	1.0	0.55	0.05	25	0.7	0.19	5.2	4.81	<0.1
1532370	Soil	61.5	21.1	0.27	63.8	0.016	2	2.40	0.005	0.12	4.9	2.6	1.57	0.06	43	4.5	0.53	13.5	11.00	0.2
1532371	Soil	61.4	9.4	0.14	30.6	0.020	<1	1.10	0.004	0.09	4.9	2.1	0.63	<0.02	16	4.7	0.26	6.8	6.10	0.1
1532372	Soil	53.5	10.4	0.13	51.4	0.032	<1	0.96	0.004	0.11	5.6	2.0	0.73	<0.02	10	2.6	0.41	5.7	6.06	0.2
1532373	Soil	32.3	12.5	0.20	84.8	0.045	2	1.22	0.007	0.11	7.5	1.9	0.92	0.03	29	0.7	0.77	5.6	6.63	<0.1
1532374	Soil	25.8	9.3	0.18	80.6	0.037	<1	0.97	0.008	0.09	5.9	1.8	0.69	0.02	16	0.8	0.49	5.6	5.12	<0.1
1532375	Soil	54.8	8.8	0.17	53.6	0.008	<1	1.12	0.009	0.08	2.6	1.9	0.47	<0.02	24	2.7	0.05	6.6	10.23	0.2
1532376	Soil	43.6	18.9	0.18	83.8	0.024	<1	1.80	0.007	0.14	2.8	2.3	0.79	0.03	14	2.9	0.04	8.9	14.22	0.1
1532377	Soil	54.4	2.2	0.16	30.0	0.010	2	1.50	0.006	0.29	4.0	3.0	0.95	<0.02	<5	3.3	0.03	10.8	25.62	0.2
1532378	Soil	48.3	1.4	0.13	24.3	0.008	<1	0.93	0.004	0.20	2.1	1.8	0.72	<0.02	9	3.1	0.02	6.5	13.97	0.2
1532379	Soil	56.6	2.4	0.08	33.8	0.002	<1	0.73	0.003	0.15	2.5	1.6	1.41	<0.02	24	3.9	0.03	5.6	13.31	0.2
1532380	Soil	27.4	19.1	0.18	82.5	0.037	<1	0.93	0.009	0.06	3.7	1.5	0.28	0.09	45	0.7	0.03	4.1	2.67	0.1
1532381	Soil	38.7	15.5	0.11	69.1	0.035	1	0.89	0.009	0.07	5.7	0.9	0.26	0.10	43	0.9	0.06	5.5	3.50	0.1
1532382	Soil	43.2	20.8	0.29	50.1	0.067	1	1.01	0.008	0.07	5.9	2.1	0.33	<0.02	13	1.4	0.11	5.1	3.34	0.1
1532383	Soil	31.5	20.7	0.32	74.3	0.077	1	1.07	0.009	0.06	1.9	1.9	0.31	0.04	24	1.0	0.12	4.8	2.65	0.1
1532384	Soil	39.5	24.3	0.21	89.9	0.066	2	1.05	0.010	0.09	1.3	1.8	0.33	0.05	36	0.6	0.20	7.0	4.12	0.1
1532385	Soil	46.9	22.9	0.33	68.8	0.093	<1	1.57	0.009	0.17	0.8	2.9	0.49	<0.02	24	1.0	<0.02	7.6	8.09	0.1
1532386	Soil	34.8	13.4	0.15	41.8	0.045	<1	1.02	0.005	0.07	2.8	2.0	0.39	<0.02	13	1.0	0.27	4.6	4.53	<0.1
1532387	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1532388	Soil	52.3	19.9	0.26	54.7	0.061	<1	0.89	0.009	0.06	0.8	2.3	0.34	<0.02	21	1.2	0.13	4.7	3.37	0.1
1532389	Soil	51.7	16.4	0.27	119.1	0.023	<1	2.26	0.008	0.16	0.9	2.4	0.49	0.05	34	2.6	0.02	10.9	7.29	0.1
1532390	Soil	45.4	18.4	0.21	76.1	0.055	<1	1.21	0.010	0.11	0.7	2.4	0.43	0.04	24	1.4	<0.02	6.7	6.75	0.2



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	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Mo	Cu	Pb	Zn	Ag	Ni	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.01	0.01	0.01	0.1	2	0.1	0.1
1532361	Soil	1.90	24.7	1.7	<0.05	1.2	59.39	88.3	0.05	<1	1.9	12.5	<10	<2							
1532362	Soil	2.32	31.9	2.1	<0.05	3.9	109.51	152.9	0.04	<1	1.7	14.3	<10	<2							
1532363	Soil	3.63	32.1	1.7	<0.05	2.2	130.97	159.6	0.04	1	1.8	8.2	<10	<2							
1532364	Soil	2.91	22.1	1.5	<0.05	3.1	134.36	157.3	0.05	2	1.8	13.6	<10	<2							
1532365	Soil	2.19	25.6	1.4	<0.05	0.7	107.63	102.9	0.03	1	1.7	14.3	<10	<2							
1532366	Soil	2.92	68.1	6.8	<0.05	0.8	13.40	28.3	0.09	<1	0.9	10.3	<10	<2							
1532367	Soil	1.65	35.1	5.4	<0.05	1.1	25.15	43.6	0.10	<1	2.1	15.2	<10	<2							
1532368	Soil	1.60	25.6	5.0	<0.05	0.7	9.23	24.9	0.07	<1	0.7	7.7	<10	<2							
1532369	Soil	2.56	38.9	5.9	<0.05	0.9	26.81	48.0	0.17	<1	1.5	12.1	<10	<2							
1532370	Soil	5.89	49.7	5.2	<0.05	0.7	204.07	181.3	0.13	2	2.4	26.5	<10	<2							
1532371	Soil	3.13	36.5	2.3	0.05	6.0	201.47	167.5	0.09	1	2.2	13.5	<10	<2							
1532372	Soil	1.94	40.1	3.1	<0.05	7.7	150.65	137.9	0.06	1	2.3	13.6	<10	<2							
1532373	Soil	3.53	30.8	7.3	<0.05	1.9	31.27	61.3	0.26	<1	2.3	14.6	<10	<2							
1532374	Soil	2.29	29.1	7.8	<0.05	1.5	27.01	43.5	0.22	<1	1.6	15.8	<10	<2							
1532375	Soil	4.92	44.2	1.8	0.05	4.6	183.38	127.5	0.21	3	2.3	24.3	<10	<2							
1532376	Soil	4.53	88.8	3.4	<0.05	0.8	148.40	102.4	0.24	1	2.1	100.1	<10	<2							
1532377	Soil	5.02	157.8	4.7	0.06	57.9	219.72	109.4	0.05	2	1.2	189.3	57	<2							
1532378	Soil	5.19	101.6	2.8	0.05	31.6	204.85	109.1	0.04	<1	0.6	111.3	34	<2							
1532379	Soil	7.61	93.3	2.7	0.09	13.7	243.72	142.6	0.34	3	0.8	35.7	<10	<2							
1532380	Soil	1.79	22.8	1.7	<0.05	0.7	41.65	61.7	0.03	<1	0.5	7.6	<10	<2							
1532381	Soil	2.24	36.9	2.1	<0.05	0.7	50.16	75.8	0.06	1	0.6	7.9	<10	<2							
1532382	Soil	3.56	31.3	1.8	<0.05	4.3	68.14	100.6	0.06	1	0.9	13.8	<10	<2							
1532383	Soil	4.53	25.9	1.9	<0.05	3.1	42.80	62.3	0.04	<1	0.9	9.9	<10	<2							
1532384	Soil	3.32	36.5	3.5	<0.05	1.0	47.94	91.2	0.14	<1	1.8	13.1	<10	<2							
1532385	Soil	6.69	66.6	1.7	<0.05	2.4	61.20	93.7	0.03	<1	1.0	56.4	<10	<2							
1532386	Soil	3.60	28.6	2.2	<0.05	4.0	51.92	69.6	0.09	<1	1.8	11.1	<10	<2							
1532387	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	3.08	43.29	32.09	75.1	259	23.2	6.6
1532388	Soil	3.34	25.4	2.2	<0.05	5.0	74.56	97.1	0.05	<1	0.8	14.5	<10	<2							
1532389	Soil	5.88	71.0	2.6	<0.05	0.3	125.86	254.3	0.12	<1	4.8	45.7	<10	<2							
1532390	Soil	5.41	50.7	2.3	<0.05	1.3	80.46	93.0	0.19	<1	1.5	28.8	<10	<2							



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Method Analyte Unit MDL		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B
		ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm
		1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	0.5	0.5	0.01	0.5	0.001	1
1532361	Soil																			
1532362	Soil																			
1532363	Soil																			
1532364	Soil																			
1532365	Soil																			
1532366	Soil																			
1532367	Soil																			
1532368	Soil																			
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1532375	Soil																			
1532376	Soil																			
1532377	Soil																			
1532378	Soil																			
1532379	Soil																			
1532380	Soil																			
1532381	Soil																			
1532382	Soil																			
1532383	Soil																			
1532384	Soil																			
1532385	Soil																			
1532386	Soil																			
1532387	Soil	420	2.42	23.8	11.0	3.1	26.2	10.7	0.48	1.45	1.40	33	0.11	0.055	22.6	31.4	0.32	63.9	0.071	<1
1532388	Soil																			1.34
1532389	Soil																			
1532390	Soil																			



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	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce
		%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1
1532361	Soil																				
1532362	Soil																				
1532363	Soil																				
1532364	Soil																				
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1532379	Soil																				
1532380	Soil																				
1532381	Soil																				
1532382	Soil																				
1532383	Soil																				
1532384	Soil																				
1532385	Soil																				
1532386	Soil																				
1532387	Soil	0.010	0.12	0.8	2.8	0.29	0.05	49	0.6	0.09	6.6	3.00	0.1	0.07	6.32	34.1	6.2	<0.05	2.1	19.26	84.9
1532388	Soil																				
1532389	Soil																				
1532390	Soil																				



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Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
Analyte	In	Re	Be	Li	Pd	Pt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr
Unit	ppm	ppb	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm
MDL	0.02	1	0.1	0.1	10	2	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5
1532361	Soil																			
1532362	Soil																			
1532363	Soil																			
1532364	Soil																			
1532365	Soil																			
1532366	Soil																			
1532367	Soil																			
1532368	Soil																			
1532369	Soil																			
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1532375	Soil																			
1532376	Soil																			
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1532378	Soil																			
1532379	Soil																			
1532380	Soil																			
1532381	Soil																			
1532382	Soil																			
1532383	Soil																			
1532384	Soil																			
1532385	Soil																			
1532386	Soil																			
1532387	Soil	0.06	<1	0.7	14.7	<10	<2													
1532388	Soil																			
1532389	Soil																			
1532390	Soil																			



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	Method	Analyte	Unit	MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1532391	Soil		0.70	8.06	79.13	200.9	65	10.5	3.0	283	1.50	9.1	16.6	2.3	33.8	12.8	0.75	0.38	0.51	22	0.17	0.036		
1532392	Soil		1.42	6.86	92.33	258.2	260	9.8	3.1	370	1.77	41.8	12.9	<0.2	28.4	8.0	0.69	0.55	1.01	16	0.08	0.027		
1532393	Soil		0.97	8.39	28.40	98.6	125	16.2	3.9	270	1.67	15.8	11.9	1.5	24.7	6.6	0.39	0.41	0.89	21	0.10	0.038		
1532394	Soil		2.56	10.64	36.38	91.1	39	12.0	2.8	173	1.68	17.4	38.8	0.2	47.7	13.0	0.34	0.57	1.40	24	0.16	0.019		
1532395	Soil		2.56	2.72	27.88	44.7	<2	2.7	1.0	140	1.29	12.4	27.5	1.0	77.0	3.9	0.08	0.43	0.14	6	0.05	0.010		
1532651	Soil		2.84	10.97	45.69	73.8	48	12.4	4.1	366	1.68	31.1	29.5	0.7	15.3	10.0	0.25	0.84	1.36	26	0.10	0.054		
1532652	Soil		3.53	6.04	39.14	92.0	69	4.3	0.8	150	1.12	31.9	34.8	3.9	22.0	6.8	0.12	1.02	1.18	9	0.10	0.031		
1532653	Soil		2.49	11.30	33.52	86.9	41	10.7	2.9	258	1.42	33.5	18.1	3.3	37.8	6.2	0.27	1.05	3.08	18	0.08	0.016		
1532654	Soil		2.06	5.17	23.21	86.5	47	2.9	0.8	121	1.16	26.0	22.8	1.8	8.9	3.7	0.18	0.72	2.92	7	0.04	0.043		
1532655	Soil		1.44	6.50	22.86	47.4	60	9.5	3.4	268	1.71	12.6	18.4	2.4	16.4	7.6	0.23	0.54	1.01	23	0.10	0.039		
1532656	Soil		2.97	9.32	31.72	54.0	104	6.5	2.1	191	1.41	8.9	25.2	5.1	5.1	5.8	0.12	0.92	0.64	22	0.05	0.076		
1532657	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.			
1532658	Soil		2.22	7.77	85.26	82.4	165	8.4	2.7	200	1.45	53.0	14.1	3.3	8.7	8.1	0.46	1.11	0.70	24	0.10	0.045		
1532659	Soil		1.01	9.99	19.76	51.1	28	18.2	5.1	299	1.92	10.2	8.2	1.7	14.1	11.6	0.16	0.57	0.26	31	0.19	0.050		
1532660	Soil		13.24	17.57	26.55	108.1	98	5.7	1.6	167	2.83	108.7	15.4	2.0	14.6	3.7	0.43	7.44	0.89	10	0.03	0.051		
1532661	Soil		2.29	34.15	33.44	81.1	100	39.7	9.0	762	2.62	24.8	32.0	4.1	43.8	18.7	0.48	0.92	0.69	40	0.21	0.067		
1532662	Soil		5.16	39.80	121.58	148.3	769	26.3	5.7	882	2.44	58.7	16.6	4.2	4.4	10.5	0.96	1.41	7.10	34	0.08	0.072		
1532663	Soil		4.98	26.67	124.42	137.3	580	11.9	3.4	778	2.13	43.7	5.4	5.6	2.0	9.0	0.97	1.19	7.63	27	0.08	0.051		
1532664	Soil		2.18	19.92	32.50	63.1	69	18.0	4.6	211	1.82	15.3	3.8	3.8	9.5	11.8	0.61	0.71	3.84	31	0.17	0.055		
1532665	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.			
1532666	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.			
1532667	Soil		5.61	20.22	22.05	102.2	206	24.0	8.9	361	2.06	7.5	1.9	4.5	0.6	23.3	2.76	0.41	3.03	55	0.37	0.090		
1532668	Soil		8.15	66.35	42.06	245.4	702	85.1	16.2	482	3.12	45.4	5.3	6.3	2.8	32.8	1.96	1.32	6.37	65	0.48	0.080		
1532669	Soil		4.79	138.57	99.90	260.2	563	68.8	17.5	444	3.26	56.9	3.2	11.4	6.1	39.4	1.83	1.76	11.72	63	0.47	0.078		
1532670	Soil		4.21	93.92	63.32	337.2	540	132.6	24.4	611	3.37	44.0	3.3	8.3	4.6	34.7	3.30	1.48	8.61	68	0.48	0.082		
1532671	Soil		4.45	101.47	60.35	290.2	652	61.1	16.6	524	3.02	35.1	2.8	6.0	1.5	18.0	2.88	1.34	8.27	56	0.28	0.076		
1532672	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.			
1532673	Soil		5.88	71.15	121.53	215.4	657	57.8	31.0	1694	3.42	35.8	2.1	7.6	1.0	18.5	3.30	1.22	8.53	67	0.24	0.111		
1532674	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.			
1532675	Soil		9.09	183.15	244.73	766.1	2437	90.0	34.2	971	4.73	98.0	2.1	23.2	3.2	44.6	8.05	2.57	24.04	86	0.46	0.112		



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Report Date: July 29, 2017

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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1532391	Soil	41.7	17.7	0.20	55.6	0.064	<1	0.79	0.007	0.06	0.8	2.2	0.25	<0.02	6	0.6	<0.02	4.8	4.88	0.1	0.11
1532392	Soil	22.5	13.6	0.16	59.6	0.033	<1	0.91	0.008	0.08	0.5	1.6	0.26	<0.02	32	0.4	<0.02	5.5	6.02	<0.1	0.05
1532393	Soil	32.2	16.5	0.27	41.6	0.055	<1	1.01	0.007	0.08	0.7	2.0	0.27	<0.02	20	0.6	<0.02	4.9	4.83	<0.1	0.03
1532394	Soil	40.9	23.1	0.24	70.1	0.060	<1	1.29	0.009	0.12	1.6	3.7	0.45	<0.02	16	1.9	0.03	7.2	10.29	0.1	0.29
1532395	Soil	38.7	4.1	0.07	18.1	0.024	<1	0.85	0.006	0.20	1.3	2.1	0.65	<0.02	9	0.7	0.02	6.3	16.71	0.1	1.23
1532651	Soil	35.6	21.4	0.18	66.3	0.035	<1	1.33	0.007	0.14	2.0	2.1	0.60	0.05	16	1.7	<0.02	7.7	10.91	0.1	0.06
1532652	Soil	47.8	7.9	0.06	37.4	0.006	1	1.14	0.003	0.10	1.6	1.3	0.59	0.03	13	0.7	<0.02	7.3	13.95	<0.1	<0.02
1532653	Soil	22.7	15.3	0.16	40.3	0.035	<1	0.92	0.005	0.15	2.7	1.9	0.61	<0.02	9	0.3	0.04	5.9	8.96	<0.1	0.20
1532654	Soil	22.6	4.9	0.05	34.2	0.006	2	1.12	0.006	0.22	3.2	1.1	0.92	0.04	18	0.4	0.02	8.8	16.04	<0.1	0.02
1532655	Soil	19.8	15.8	0.18	43.6	0.029	<1	0.75	0.005	0.06	0.9	1.3	0.21	0.03	16	0.4	0.03	4.2	3.21	<0.1	0.02
1532656	Soil	39.7	12.6	0.07	50.0	0.029	<1	1.00	0.006	0.12	1.0	0.9	0.53	0.09	27	1.2	0.03	7.0	8.17	<0.1	<0.02
1532657	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1532658	Soil	18.8	17.4	0.15	32.1	0.027	<1	0.65	0.006	0.05	1.1	1.2	0.21	0.04	26	0.1	0.03	3.9	2.78	<0.1	0.03
1532659	Soil	17.3	21.8	0.35	67.8	0.050	<1	1.11	0.008	0.11	0.7	2.2	0.33	<0.02	26	0.1	0.04	5.3	5.20	<0.1	0.07
1532660	Soil	17.4	11.0	0.09	33.1	0.016	<1	0.84	0.005	0.09	2.2	0.8	0.98	0.04	34	0.2	0.15	6.7	6.88	<0.1	0.03
1532661	Soil	34.3	33.3	0.67	101.5	0.127	<1	1.68	0.009	0.10	1.4	4.0	0.40	<0.02	12	1.7	0.04	7.5	3.81	<0.1	0.14
1532662	Soil	25.5	36.2	0.26	112.2	0.030	<1	1.92	0.006	0.08	1.2	2.0	0.54	0.07	38	0.2	0.06	6.4	4.57	<0.1	0.02
1532663	Soil	13.8	20.2	0.17	65.4	0.023	<1	0.99	0.006	0.05	1.6	1.0	0.36	0.04	39	0.1	<0.02	4.0	2.74	<0.1	<0.02
1532664	Soil	17.2	22.6	0.34	55.2	0.048	1	1.06	0.010	0.06	1.6	1.9	0.19	0.02	27	<0.1	<0.02	3.8	1.44	<0.1	0.04
1532665	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1532666	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1532667	Soil	12.0	46.7	0.72	103.0	0.122	<1	1.47	0.025	0.08	2.2	2.2	0.48	0.07	43	0.2	0.13	8.1	4.33	0.1	<0.02
1532668	Soil	19.7	96.2	1.13	129.9	0.168	1	2.45	0.026	0.13	6.4	4.1	1.03	0.05	34	0.7	0.17	8.1	5.58	<0.1	0.07
1532669	Soil	12.4	69.5	1.08	153.1	0.167	2	2.49	0.041	0.28	11.5	4.7	1.63	0.03	9	<0.1	0.31	6.5	7.28	0.1	0.09
1532670	Soil	12.1	92.9	1.35	165.7	0.179	1	2.55	0.038	0.19	9.5	4.3	1.13	0.03	23	0.4	0.20	7.2	5.54	<0.1	0.10
1532671	Soil	6.8	61.4	0.69	99.3	0.129	2	2.26	0.024	0.14	7.0	2.6	0.99	0.10	40	0.2	0.28	7.9	6.26	0.1	0.04
1532672	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1532673	Soil	9.1	57.2	0.89	123.3	0.167	<1	2.31	0.022	0.09	11.9	2.1	1.22	0.11	68	1.2	0.11	10.1	5.84	<0.1	0.06
1532674	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1532675	Soil	12.5	86.4	1.39	156.8	0.220	2	3.31	0.054	0.19	15.0	6.5	1.66	0.04	40	0.3	0.32	8.8	7.31	0.2	0.07



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	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Mo	Cu	Pb	Zn	Ag	Ni	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.01	0.01	0.01	0.1	2	0.1	0.1
1532391	Soil	1.75	30.7	1.8	<0.05	3.6	48.50	82.5	0.45	<1	1.3	15.5	<10	<2							
1532392	Soil	3.13	32.0	4.3	<0.05	0.4	30.87	85.2	0.10	<1	1.0	15.1	<10	<2							
1532393	Soil	3.39	32.8	1.6	<0.05	1.3	40.97	77.0	0.04	<1	1.0	19.1	<10	<2							
1532394	Soil	5.20	66.7	3.8	<0.05	8.1	115.65	88.8	0.06	1	1.9	67.7	11	<2							
1532395	Soil	8.54	103.5	9.3	<0.05	34.7	40.95	88.6	0.04	<1	0.7	116.2	48	<2							
1532651	Soil	5.04	76.9	3.4	<0.05	1.3	75.86	91.6	0.06	<1	1.8	67.4	<10	<2							
1532652	Soil	4.80	66.1	4.0	<0.05	0.4	108.65	122.1	0.07	1	1.4	52.5	<10	<2							
1532653	Soil	5.65	82.4	2.9	<0.05	6.7	53.45	122.1	0.27	<1	0.6	79.3	<10	<2							
1532654	Soil	4.78	129.0	3.4	<0.05	0.5	61.99	76.3	0.09	<1	1.5	137.0	<10	<2							
1532655	Soil	5.18	29.3	1.4	<0.05	1.1	25.32	61.0	0.03	<1	1.2	12.2	<10	<2							
1532656	Soil	7.60	78.3	4.0	<0.05	1.3	79.05	108.0	0.03	<1	1.4	52.4	<10	<2							
1532657	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	3.91	13.12	59.25	118.6	151	14.3	4.7
1532658	Soil	3.69	27.3	0.9	<0.05	0.9	22.55	58.5	0.03	<1	0.5	6.2	<10	<2							
1532659	Soil	4.41	42.6	2.7	<0.05	2.0	20.25	52.4	0.03	<1	0.7	42.5	<10	<2							
1532660	Soil	6.46	49.3	3.8	0.05	0.4	38.20	64.8	<0.02	<1	1.8	10.0	<10	<2							
1532661	Soil	3.33	38.3	4.4	<0.05	7.4	155.56	110.7	0.05	1	3.0	31.8	<10	<2							
1532662	Soil	3.15	32.3	2.2	<0.05	1.3	28.69	55.7	0.06	<1	1.1	15.7	<10	<2							
1532663	Soil	0.92	15.2	1.5	<0.05	0.3	6.50	31.8	0.06	1	0.7	7.3	<10	<2							
1532664	Soil	1.78	11.6	0.6	<0.05	1.6	8.42	33.7	0.02	1	0.5	9.1	<10	<2							
1532665	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.							
1532666	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.							
1532667	Soil	1.62	19.7	5.0	<0.05	1.0	8.59	19.1	0.04	1	1.1	15.0	11	3							
1532668	Soil	3.48	33.8	4.9	<0.05	4.2	24.15	38.6	0.10	<1	2.2	22.4	<10	<2							
1532669	Soil	2.03	60.1	8.4	<0.05	4.6	14.06	27.2	0.24	<1	1.5	17.5	<10	<2							
1532670	Soil	3.04	41.3	5.9	<0.05	5.0	12.82	28.5	0.19	<1	1.3	17.6	<10	<2							
1532671	Soil	2.76	64.7	6.9	<0.05	1.9	5.59	15.9	0.20	<1	0.8	14.0	<10	<2							
1532672	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.							
1532673	Soil	4.39	24.7	7.2	<0.05	3.4	7.84	19.8	0.19	2	1.0	9.0	12	<2							
1532674	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.							
1532675	Soil	3.05	55.2	14.6	<0.05	5.1	11.72	28.2	0.89	2	2.0	21.8	<10	<2							



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Whistler British Columbia V0N 1B0 Canada

Project: Adanac
Report Date: July 29, 2017

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CERTIFICATE OF ANALYSIS

WHI17000173.2

	Method	Analyte	Unit	MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251			
					Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al
					ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%
					1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01
1532391	Soil																							
1532392	Soil																							
1532393	Soil																							
1532394	Soil																							
1532395	Soil																							
1532651	Soil																							
1532652	Soil																							
1532653	Soil																							
1532654	Soil																							
1532655	Soil																							
1532656	Soil																							
1532657	Soil	470	2.13	25.3	20.7	2.5	15.2	13.7	1.17	0.99	1.24	30	0.20	0.064	24.6	22.8	0.15	65.5	0.062	<1	0.93			
1532658	Soil																							
1532659	Soil																							
1532660	Soil																							
1532661	Soil																							
1532662	Soil																							
1532663	Soil																							
1532664	Soil																							
1532665	Soil																							
1532666	Soil																							
1532667	Soil																							
1532668	Soil																							
1532669	Soil																							
1532670	Soil																							
1532671	Soil																							
1532672	Soil																							
1532673	Soil																							
1532674	Soil																							
1532675	Soil																							



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	Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251		
			Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	
			%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
			MDL	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1
1532391	Soil																						
1532392	Soil																						
1532393	Soil																						
1532394	Soil																						
1532395	Soil																						
1532651	Soil																						
1532652	Soil																						
1532653	Soil																						
1532654	Soil																						
1532655	Soil																						
1532656	Soil																						
1532657	Soil	0.007	0.13	1.1	2.1	0.26	0.06	50	1.2	0.05	6.8	5.33	<0.1	0.07	7.00	46.7	7.4	<0.05	2.6	34.32	145.3		
1532658	Soil																						
1532659	Soil																						
1532660	Soil																						
1532661	Soil																						
1532662	Soil																						
1532663	Soil																						
1532664	Soil																						
1532665	Soil																						
1532666	Soil																						
1532667	Soil																						
1532668	Soil																						
1532669	Soil																						
1532670	Soil																						
1532671	Soil																						
1532672	Soil																						
1532673	Soil																						
1532674	Soil																						
1532675	Soil																						



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CERTIFICATE OF ANALYSIS

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	Method	Analyte	Unit	MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250			
					In	Re	Be	Li	Pd	Pt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	
					ppm	ppb	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm
					0.02	1	0.1	0.1	10	2	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	
1532391	Soil																								
1532392	Soil																								
1532393	Soil																								
1532394	Soil																								
1532395	Soil																								
1532651	Soil																								
1532652	Soil																								
1532653	Soil																								
1532654	Soil																								
1532655	Soil																								
1532656	Soil																								
1532657	Soil	0.06	1	1.0	11.8	<10	<2																		
1532658	Soil																								
1532659	Soil																								
1532660	Soil																								
1532661	Soil																								
1532662	Soil																								
1532663	Soil																								
1532664	Soil																								
1532665	Soil							9.47	69.87	8.42	47.8	557	22.4	2.1	1769	0.90	14.3	7.3	4.8	<0.1	66.6				
1532666	Soil							11.48	60.18	11.05	61.7	422	19.6	2.1	136	0.54	12.9	4.4	4.2	0.2	53.5				
1532667	Soil																								
1532668	Soil																								
1532669	Soil																								
1532670	Soil																								
1532671	Soil																								
1532672	Soil							4.13	52.05	75.25	205.3	532	50.1	11.0	369	4.09	50.8	2.0	2.7	2.0	11.8				
1532673	Soil																								
1532674	Soil																								
1532675	Soil																								



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CERTIFICATE OF ANALYSIS

WHI17000173.2

	Method	Analyte	Unit	MDL	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250			
					Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg
					ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb
					0.01	0.02	0.02	2	0.01	0.001	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5
1532391	Soil																							
1532392	Soil																							
1532393	Soil																							
1532394	Soil																							
1532395	Soil																							
1532651	Soil																							
1532652	Soil																							
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1532658	Soil																							
1532659	Soil																							
1532660	Soil																							
1532661	Soil																							
1532662	Soil																							
1532663	Soil																							
1532664	Soil																							
1532665	Soil		3.92	0.40	1.03	8	1.42	0.201	35.2	14.6	0.21	85.8	0.007	<20	0.84	0.034	0.05	0.8	0.6	0.51	0.37	94		
1532666	Soil		9.22	0.57	0.98	10	1.51	0.155	13.1	10.3	0.14	49.2	0.008	<20	0.66	0.038	0.04	2.5	0.3	0.70	0.72	81		
1532667	Soil																							
1532668	Soil																							
1532669	Soil																							
1532670	Soil																							
1532671	Soil																							
1532672	Soil		1.70	0.82	6.66	77	0.21	0.079	8.8	65.7	0.61	73.9	0.199	<20	3.89	0.025	0.06	3.8	3.7	0.72	0.08	117		
1532673	Soil																							
1532674	Soil																							
1532675	Soil																							



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WHI17000173.2

Method	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
Analyte	Se	Te	Ga	Cs	Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL	0.1	0.02	0.1	0.02	0.1	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
1532391	Soil																		
1532392	Soil																		
1532393	Soil																		
1532394	Soil																		
1532395	Soil																		
1532651	Soil																		
1532652	Soil																		
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1532659	Soil																		
1532660	Soil																		
1532661	Soil																		
1532662	Soil																		
1532663	Soil																		
1532664	Soil																		
1532665	Soil	2.5	<0.02	1.4	0.79	<0.1	<0.02	0.36	6.8	0.8	<0.05	0.6	56.56	29.7	<0.02	3	0.6	4.4	<10
1532666	Soil	2.7	0.05	1.3	0.48	<0.1	0.04	0.59	3.1	0.6	<0.05	0.9	24.82	17.0	0.03	9	1.4	0.9	<10
1532667	Soil																		
1532668	Soil																		
1532669	Soil																		
1532670	Soil																		
1532671	Soil																		
1532672	Soil	0.5	0.12	13.6	4.20	<0.1	0.08	5.60	19.0	7.7	<0.05	4.6	12.55	20.9	0.27	<1	1.7	13.5	<10
1532673	Soil																		
1532674	Soil																		
1532675	Soil																		



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CERTIFICATE OF ANALYSIS

WHI17000173.2

Method	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1532676	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1532677	Soil	6.53	172.12	260.00	792.1	2446	73.3	30.2	815	3.98	95.2	1.9	18.4	3.5	29.3	4.16	7.58	18.48	70	0.31
1532678	Soil	8.88	330.13	589.49	1348.5	4746	85.5	50.4	1078	5.60	334.5	2.4	33.7	4.7	44.5	6.81	9.13	35.28	86	0.31
1532679	Soil	61.36	52.64	80.70	144.5	667	11.4	6.3	1072	1.80	128.0	12.4	9.5	5.5	12.4	2.71	5.69	7.91	27	0.15
1532680	Soil	25.26	76.79	78.07	154.8	500	114.9	17.1	462	3.96	88.2	8.6	7.8	12.1	13.6	1.09	3.99	8.89	71	0.18
1532681	Soil	23.69	151.55	118.16	279.5	1130	34.1	11.5	641	3.96	298.9	20.0	12.0	11.9	43.5	1.05	12.35	14.58	74	0.57
1532682	Soil	25.31	175.11	64.59	441.0	1303	95.2	21.9	854	4.25	188.6	14.7	12.4	7.2	40.7	2.87	3.82	16.08	98	0.63
1532683	Soil	24.54	54.99	66.27	350.5	477	72.5	13.1	438	3.21	53.0	25.7	9.2	10.7	46.3	1.63	2.35	6.70	67	0.39
1532684	Soil	21.56	74.38	68.15	195.7	245	44.3	11.0	626	2.92	85.0	7.8	8.6	6.1	15.3	1.36	2.74	13.69	53	0.23
1532685	Soil	24.77	134.66	77.67	286.9	632	72.9	13.7	591	3.92	107.6	9.2	27.4	11.3	20.7	1.82	2.86	22.97	80	0.35
1532686	Soil	29.98	204.60	111.22	518.6	833	94.8	16.5	451	5.72	117.5	6.1	17.7	17.9	19.2	2.62	5.30	38.48	98	0.31
1532687	Soil	14.65	169.37	76.11	442.5	1378	57.7	15.9	415	4.48	75.6	3.2	30.2	3.8	37.4	1.43	2.60	35.52	104	0.49
1532688	Soil	12.85	271.58	87.80	407.5	2091	59.5	24.2	464	4.60	111.6	2.7	43.7	4.5	40.2	1.13	2.30	40.30	92	0.56
1532689	Soil	7.32	356.95	177.23	754.5	3971	78.8	30.9	704	5.43	134.1	2.4	56.8	3.2	69.1	13.58	2.19	85.20	120	0.76
1532690	Soil	5.99	146.30	94.58	402.2	2034	42.2	18.6	423	3.74	70.2	1.2	32.0	1.5	35.7	2.96	1.59	47.81	78	0.52
1532691	Soil	3.53	215.25	176.80	557.9	1641	106.8	37.6	803	5.27	130.4	1.3	77.1	3.3	39.4	3.82	1.92	63.88	97	0.48
1532692	Soil	3.77	225.66	179.95	588.6	1590	107.1	37.8	826	5.31	136.0	1.3	79.1	3.3	39.3	4.22	2.09	66.56	95	0.48
1532693	Soil	4.44	217.15	223.28	709.7	2632	95.2	39.2	932	5.54	105.1	2.0	53.3	3.2	61.1	9.76	2.42	64.76	101	0.48
1532694	Soil	2.28	177.13	190.37	573.3	1435	77.5	38.9	914	4.12	81.5	1.1	59.8	3.0	34.1	4.01	1.04	61.55	88	0.45
1532695	Soil	3.30	168.21	249.11	580.9	1512	86.0	40.8	1052	4.63	107.3	1.8	30.9	3.2	44.0	6.28	1.19	51.21	92	0.41
1532696	Soil	1.64	306.36	520.98	1261.7	4023	80.2	45.6	855	4.28	162.5	1.1	56.3	3.2	67.3	7.52	0.86	64.22	84	0.46
1532697	Soil	2.49	359.58	713.47	1244.4	6825	104.1	54.3	752	4.71	153.5	0.8	86.7	2.0	72.9	8.68	0.79	74.77	91	0.51
1532698	Soil	2.72	425.24	1470.65	2354.5	9948	90.9	49.7	794	5.53	278.3	1.1	80.0	3.0	92.3	21.36	1.65	74.50	82	0.45
1532699	Soil	9.01	45.94	42.10	106.1	236	21.5	7.0	339	2.70	101.6	3.5	6.5	7.1	12.2	1.21	4.12	8.68	54	0.21
1532700	Soil	11.22	93.12	40.85	189.0	1115	45.4	11.2	324	3.04	54.1	9.9	6.2	2.4	27.0	1.27	2.29	9.71	74	0.45
1532720	Silt	0.92	52.67	18.57	85.9	385	726.4	40.1	652	3.12	27.3	0.9	8.7	0.5	21.2	1.01	2.31	1.25	56	0.65
1532721	Silt	1.93	131.53	69.20	254.3	1390	703.5	53.7	916	4.14	59.9	1.0	12.1	2.0	30.4	2.78	1.90	4.88	77	0.74
1532722	Silt	3.05	100.59	36.69	893.5	918	11.7	2.5	291	1.31	49.7	148.4	4.2	63.4	5.9	2.24	0.91	1.65	8	0.18
1532723	Silt	5.58	17.41	53.95	935.3	819	14.3	1.5	478	1.66	74.3	88.4	<0.2	78.8	8.7	1.01	1.60	1.80	4	0.39
1532724	Silt	2.87	9.20	143.34	290.7	453	2.6	1.7	433	1.34	38.8	25.6	0.4	53.0	6.3	1.48	1.84	1.19	4	0.19



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CERTIFICATE OF ANALYSIS

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	Method	Analyte	Unit	MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252			
					La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
					ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
					0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1532676	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.			
1532677	Soil	9.9	60.3	1.04	138.1	0.141	1	2.82	0.036	0.12	8.6	4.9	1.02	0.04	42	0.4	0.29	7.2	5.44	0.1	0.08			
1532678	Soil	10.3	73.3	1.17	153.1	0.144	2	3.84	0.034	0.20	13.8	7.4	1.61	0.04	61	0.8	0.42	9.6	8.52	0.1	0.09			
1532679	Soil	21.7	18.0	0.28	80.1	0.045	<1	1.21	0.013	0.14	31.3	1.3	0.81	0.06	26	<0.1	0.29	5.0	6.25	<0.1	<0.02			
1532680	Soil	20.4	94.4	1.08	103.4	0.150	3	2.91	0.013	0.11	7.7	4.4	0.73	0.05	48	0.4	0.23	9.3	5.24	<0.1	0.09			
1532681	Soil	25.7	50.4	0.86	197.0	0.114	2	3.03	0.019	0.23	12.9	4.7	1.56	0.07	13	1.2	0.66	10.0	12.32	<0.1	<0.02			
1532682	Soil	19.8	91.4	1.27	245.1	0.168	<1	4.62	0.031	0.38	10.7	6.9	2.92	0.06	34	1.5	0.32	12.1	15.78	0.1	0.07			
1532683	Soil	21.3	77.1	0.84	228.5	0.278	<1	2.50	0.020	0.13	7.1	4.4	0.66	0.03	32	0.6	0.19	8.8	4.82	<0.1	0.17			
1532684	Soil	18.2	55.4	0.59	111.0	0.096	2	1.76	0.012	0.14	15.1	3.0	0.74	0.05	12	0.8	0.32	7.9	7.00	<0.1	0.03			
1532685	Soil	16.4	76.0	0.97	185.3	0.168	2	3.14	0.012	0.23	20.6	5.6	1.48	0.07	16	1.2	0.46	11.6	12.22	<0.1	0.07			
1532686	Soil	8.9	98.2	1.04	210.4	0.253	<1	5.16	0.016	0.20	20.1	6.1	1.58	0.04	65	1.2	1.04	14.1	9.38	<0.1	0.26			
1532687	Soil	9.6	86.8	1.22	134.2	0.216	<1	3.80	0.034	0.23	34.4	6.3	1.87	0.04	35	0.9	1.16	12.2	13.55	<0.1	0.04			
1532688	Soil	9.7	77.4	1.19	124.0	0.200	<1	3.80	0.033	0.30	47.5	6.9	2.39	0.04	25	1.0	1.59	10.2	14.41	0.1	0.07			
1532689	Soil	14.6	113.4	1.68	154.3	0.285	2	4.25	0.049	0.30	37.5	9.5	2.84	0.08	72	1.3	2.00	13.4	18.97	0.2	0.12			
1532690	Soil	6.9	61.0	0.80	159.6	0.181	1	2.75	0.030	0.22	27.1	4.8	1.54	0.09	66	1.0	1.16	9.5	8.41	0.1	0.03			
1532691	Soil	11.2	92.8	2.11	171.7	0.273	<1	3.30	0.044	0.28	15.2	6.4	1.91	0.05	31	0.6	1.19	9.4	8.16	<0.1	0.11			
1532692	Soil	11.8	96.5	2.14	174.0	0.264	<1	3.24	0.041	0.28	17.7	6.5	1.93	0.04	28	0.7	1.15	9.7	8.31	0.1	0.11			
1532693	Soil	13.7	89.4	1.86	161.1	0.335	<1	3.55	0.034	0.23	14.3	6.4	1.73	0.06	29	0.7	1.27	10.4	8.31	0.1	0.10			
1532694	Soil	11.4	69.4	1.20	141.8	0.208	<1	3.29	0.036	0.13	16.2	5.0	1.30	0.06	61	0.8	1.09	9.1	6.45	0.1	0.05			
1532695	Soil	13.4	68.5	1.33	166.7	0.285	<1	3.77	0.034	0.11	6.8	5.1	1.01	0.07	31	0.8	0.75	10.1	5.76	<0.1	0.09			
1532696	Soil	12.0	65.0	1.14	147.5	0.166	1	3.05	0.029	0.16	8.4	6.3	1.36	0.04	29	0.7	0.62	7.7	7.44	<0.1	0.05			
1532697	Soil	8.9	70.1	1.31	144.7	0.169	<1	3.08	0.039	0.20	7.9	5.9	1.74	0.08	67	1.3	0.55	8.2	9.45	<0.1	0.03			
1532698	Soil	12.8	60.0	1.12	138.0	0.145	1	2.67	0.027	0.12	16.7	5.3	1.01	0.11	42	1.7	0.65	7.7	7.09	0.1	0.05			
1532699	Soil	15.0	39.1	0.63	85.6	0.114	<1	1.69	0.016	0.20	20.4	3.0	1.14	0.05	11	0.5	0.45	7.8	7.39	0.2	0.03			
1532700	Soil	14.1	73.9	0.90	125.5	0.170	<1	2.32	0.037	0.15	4.9	4.0	1.25	0.06	27	0.7	0.21	8.9	7.35	<0.1	0.04			
1532720	Silt	7.9	225.2	3.84	101.0	0.092	8	1.67	0.033	0.09	4.0	5.9	0.43	0.12	37	2.3	0.06	3.7	6.91	0.2	<0.02			
1532721	Silt	10.1	265.1	5.04	112.1	0.118	6	2.54	0.029	0.14	3.7	8.1	0.86	0.06	42	1.8	0.17	6.6	13.37	<0.1	0.03			
1532722	Silt	65.5	13.7	0.13	28.0	0.024	1	2.01	0.006	0.12	1.5	2.2	0.41	0.03	38	2.1	0.04	6.0	7.09	0.1	0.08			
1532723	Silt	54.2	9.7	0.14	37.9	0.008	<1	2.36	0.004	0.17	1.6	2.1	0.61	<0.02	12	1.6	<0.02	7.1	16.11	0.1	1.28			
1532724	Silt	53.0	3.0	0.11	17.9	0.014	<1	0.85	0.004	0.09	0.7	1.4	0.34	0.03	5	0.7	0.06	4.5	5.56	0.1	0.11			



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	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Mo	Cu	Pb	Zn	Ag	Ni	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.01	0.01	0.01	0.1	2	0.1	0.1
1532676	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	15.26	327.53	693.05	1740.1	5398	80.6	46.3
1532677	Soil	1.58	29.7	12.0	<0.05	2.9	8.82	24.2	0.79	<1	1.7	16.4	<10	<2							
1532678	Soil	1.03	45.8	22.6	<0.05	3.7	15.02	23.9	1.76	<1	2.3	24.2	<10	<2							
1532679	Soil	2.80	48.7	4.4	<0.05	0.6	24.96	57.7	0.05	<1	1.4	16.0	<10	<2							
1532680	Soil	4.83	27.7	3.7	<0.05	5.3	30.11	59.9	0.10	1	2.6	22.6	<10	<2							
1532681	Soil	2.86	51.7	7.8	<0.05	2.1	62.08	42.5	0.14	<1	3.0	44.2	<10	<2							
1532682	Soil	3.18	115.4	9.8	<0.05	3.2	58.63	36.1	0.21	2	7.1	65.0	<10	<2							
1532683	Soil	4.64	32.3	4.0	<0.05	10.8	26.16	47.3	0.10	<1	2.2	22.9	<10	<2							
1532684	Soil	3.22	40.3	5.9	<0.05	2.1	20.49	60.4	0.17	<1	1.8	16.3	<10	<2							
1532685	Soil	4.02	60.3	9.9	<0.05	3.8	23.82	30.9	0.25	<1	2.5	42.0	<10	<2							
1532686	Soil	6.93	53.9	13.0	<0.05	12.7	10.40	19.5	0.44	<1	1.7	38.6	<10	<2							
1532687	Soil	2.21	75.6	18.0	<0.05	2.1	15.09	20.3	0.37	<1	2.4	44.9	<10	<2							
1532688	Soil	2.08	92.6	14.6	<0.05	3.4	12.97	21.8	0.38	<1	3.1	38.5	<10	<2							
1532689	Soil	3.76	133.9	19.2	<0.05	6.4	14.72	26.2	0.65	<1	4.6	41.0	12	4							
1532690	Soil	2.48	80.9	13.3	<0.05	2.1	6.81	17.2	0.33	<1	1.3	20.0	<10	<2							
1532691	Soil	2.12	82.9	12.2	<0.05	8.6	8.79	27.5	0.76	<1	3.1	24.3	<10	<2							
1532692	Soil	2.21	85.7	13.1	<0.05	9.0	9.01	27.3	0.79	<1	3.3	24.6	<10	<2							
1532693	Soil	3.36	83.5	10.4	<0.05	10.1	9.87	38.8	0.82	<1	3.6	22.1	<10	<2							
1532694	Soil	2.40	48.4	10.8	<0.05	3.8	8.12	27.9	0.62	<1	2.3	21.1	<10	<2							
1532695	Soil	4.24	40.4	8.3	<0.05	7.5	9.11	41.4	0.52	<1	2.6	18.1	<10	<2							
1532696	Soil	0.89	43.7	12.7	<0.05	2.5	9.06	26.5	1.46	<1	2.6	24.8	<10	3							
1532697	Soil	1.15	57.7	13.0	<0.05	2.0	7.79	20.2	1.12	<1	1.7	29.7	<10	<2							
1532698	Soil	1.68	27.2	19.6	<0.05	3.0	9.05	27.1	4.23	<1	1.9	20.5	<10	<2							
1532699	Soil	3.83	59.3	8.1	<0.05	2.0	16.81	33.2	0.09	<1	1.9	23.2	<10	<2							
1532700	Soil	2.70	43.2	8.3	<0.05	3.0	40.09	26.0	0.12	<1	3.0	30.2	<10	<2							
1532720	Silt	0.81	15.4	3.8	<0.05	0.9	8.85	14.0	0.08	<1	0.6	14.9	<10	<2							
1532721	Silt	0.86	28.8	5.0	<0.05	2.0	10.56	18.2	0.21	<1	0.6	22.4	<10	<2							
1532722	Silt	10.38	44.0	2.8	<0.05	7.5	223.33	106.7	0.16	<1	7.7	40.7	<10	<2							
1532723	Silt	13.26	68.9	4.2	<0.05	39.9	183.57	113.9	0.09	<1	12.1	87.6	<10	<2							
1532724	Silt	1.77	28.0	1.6	<0.05	5.4	66.89	114.5	0.13	<1	2.6	18.2	<10	<2							



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	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B
		ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm
		1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	0.5	0.5	0.01	0.5	0.001	1
1532676	Soil	1363	7.78	406.7	2.3	36.2	4.0	29.3	12.25	49.76	41.58	97	0.28	0.141	10.2	88.8	1.33	154.2	0.187	<1
1532677	Soil																			
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1532681	Soil																			
1532682	Soil																			
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	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce
		%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1
1532676	Soil	0.025	0.20	18.3	9.9	1.62	0.07	19	1.7	0.42	10.4	10.40	0.3	0.06	1.91	54.5	34.6	<0.05	2.9	12.21	25.0
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Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
Analyte	In	Re	Be	Li	Pd	Pt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr
Unit	ppm	ppb	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm
MDL	0.02	1	0.1	0.1	10	2	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5
1532676	Soil	3.23	<1	3.1	24.2	<10	3													
1532677	Soil																			
1532678	Soil																			
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	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1532725	Silt	7.68	200.62	97.28	448.5	1226	93.4	25.5	504	3.48	128.6	3.0	13.1	2.4	49.4	3.19	1.35	13.32	85	0.74	0.080
1532726	Silt	2.93	43.09	40.22	596.0	1633	142.9	7.2	284	2.10	98.8	127.7	5.3	25.0	29.8	3.89	1.49	1.28	28	0.47	0.100
1532751	Soil	6.15	24.81	27.79	81.8	149	56.0	7.7	203	2.66	23.5	1.1	1.6	4.5	11.8	0.44	0.80	3.85	68	0.16	0.031
1532752	Soil	6.75	37.23	32.13	116.1	441	65.4	9.1	286	2.74	33.9	2.3	2.3	2.9	11.2	0.57	1.23	5.48	63	0.17	0.042
1532753	Soil	7.79	53.06	37.02	142.6	500	88.6	14.2	435	4.22	30.6	3.1	3.0	8.9	10.8	0.77	1.10	4.19	85	0.16	0.058
1532754	Soil	8.95	63.57	88.64	120.5	861	48.5	9.6	306	3.43	36.2	2.5	6.2	3.4	17.9	0.52	1.34	10.41	80	0.28	0.056
1532755	Soil	9.80	22.77	53.99	92.4	551	42.9	20.0	1020	3.91	13.1	1.2	5.6	2.7	11.6	1.53	0.94	3.85	101	0.11	0.043
1532756	Soil	5.80	164.40	210.97	752.0	1360	79.1	29.6	820	3.46	89.9	3.0	6.8	1.8	28.7	8.61	2.27	14.37	72	0.58	0.096
1532757	Soil	8.89	276.26	490.38	1083.0	1620	104.4	31.5	934	5.26	196.1	3.5	14.3	3.7	15.5	1.51	5.30	32.99	104	0.33	0.118
1532758	Soil	5.03	124.75	114.84	336.4	1103	92.1	19.6	425	3.01	61.1	1.9	7.9	3.5	16.3	1.25	2.12	9.44	62	0.30	0.060
1532759	Soil	4.37	130.00	227.88	737.1	1787	58.7	17.1	403	2.99	74.8	1.4	12.8	1.8	17.0	2.42	2.08	12.53	54	0.27	0.068
1532760	Soil	4.28	85.78	120.52	442.6	2277	59.4	14.4	439	3.21	73.4	1.5	13.8	2.6	13.8	13.28	2.89	9.45	55	0.21	0.078
1532761	Soil	2.35	42.86	30.58	113.0	509	28.1	6.8	217	1.66	34.2	1.1	6.0	0.3	16.4	0.67	0.66	4.49	38	0.29	0.093
1532762	Soil	2.63	54.79	51.66	149.1	793	43.5	9.4	291	2.09	40.9	1.5	8.0	1.3	17.5	0.74	1.06	4.83	45	0.24	0.080
1532763	Soil	3.95	50.09	50.02	109.5	546	32.5	10.8	548	2.07	47.8	1.1	7.0	0.1	12.0	1.05	0.71	4.56	49	0.16	0.075
1532764	Soil	5.02	52.73	53.90	412.5	586	56.9	11.4	324	2.34	34.9	1.7	6.2	0.6	22.0	3.37	0.74	5.57	53	0.43	0.083
1532765	Soil	4.18	47.83	41.39	343.7	678	40.2	10.3	659	2.52	27.4	1.6	3.9	0.5	12.3	4.62	1.21	4.35	57	0.21	0.055
1532766	Soil	7.29	565.54	110.01	291.4	738	71.4	17.0	424	5.66	664.4	3.7	14.8	6.0	22.4	1.45	2.46	29.85	71	0.29	0.053
1532767	Soil	7.16	613.19	109.12	280.2	770	71.3	16.8	408	5.74	651.9	3.8	11.4	6.0	23.4	1.43	2.43	29.00	71	0.30	0.051
1532768	Soil	7.68	130.49	53.15	242.6	469	54.5	19.0	632	3.19	103.7	2.1	12.3	5.3	26.1	2.04	4.09	13.79	72	0.37	0.048
1532769	Soil	7.55	131.57	53.92	228.1	449	54.7	20.0	622	3.17	98.3	2.0	13.0	5.1	25.3	1.85	4.15	14.10	72	0.37	0.047
1532770	Soil	7.52	55.12	33.04	126.5	1345	35.9	16.6	893	3.54	25.3	1.3	4.3	1.2	13.7	0.93	1.50	8.88	90	0.18	0.066
1532771	Soil	5.43	114.01	49.28	245.8	694	57.3	16.0	516	3.35	41.5	1.0	12.8	2.6	22.3	1.27	1.63	12.98	84	0.28	0.046
1532772	Soil	4.74	154.04	73.90	314.7	869	65.1	32.8	1202	3.64	43.7	1.1	9.5	2.4	49.4	3.06	2.20	12.76	88	0.45	0.080
1532773	Soil	3.92	147.38	56.93	320.7	1488	61.7	26.6	604	3.05	33.7	1.0	19.7	1.3	15.0	1.75	1.21	16.26	70	0.26	0.072
1532774	Soil	3.93	247.24	167.07	1139.2	2876	98.4	33.8	1203	4.84	39.8	1.0	51.7	1.9	50.2	10.61	0.90	47.45	90	0.40	0.113
1532775	Soil	1.90	198.62	155.68	514.0	1812	147.5	35.4	1088	4.01	63.4	1.1	25.9	1.9	26.9	5.27	1.01	25.49	94	0.32	0.080
1532776	Soil	2.77	223.83	120.16	467.1	3055	92.2	40.0	1029	4.81	53.9	1.5	90.5	3.3	43.6	3.60	1.49	31.44	90	0.46	0.176
1532777	Soil	0.89	133.99	37.27	212.7	364	62.6	20.4	425	3.37	32.0	0.5	32.4	0.9	41.8	3.14	1.07	20.78	81	0.41	0.048
1532778	Soil	1.15	372.35	54.32	452.4	1321	72.0	33.1	346	3.60	58.8	0.6	75.8	1.3	37.2	3.22	1.30	35.02	72	0.39	0.051



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	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1
1532725	Silt	12.7	97.1	1.38	184.8	0.159	<1	3.09	0.034	0.28	4.0	5.2	1.56	0.07	36	1.6	0.30	8.7	10.46	<0.1
1532726	Silt	78.2	72.4	0.50	133.4	0.057	3	4.29	0.004	0.15	1.7	4.3	0.52	0.11	109	5.0	0.03	6.7	6.64	0.2
1532751	Soil	9.8	98.2	0.81	75.5	0.178	<1	1.74	0.015	0.09	4.0	3.6	0.80	0.02	31	0.5	0.07	10.6	4.39	<0.1
1532752	Soil	10.1	82.6	0.80	73.2	0.130	2	1.93	0.017	0.11	4.8	3.1	0.81	0.04	49	0.7	0.12	9.7	5.13	<0.1
1532753	Soil	12.9	113.7	0.87	87.9	0.224	1	3.55	0.011	0.09	3.0	4.3	1.07	0.05	73	0.8	0.11	12.6	5.05	<0.1
1532754	Soil	9.0	83.0	0.82	139.6	0.166	1	2.60	0.019	0.14	3.9	4.3	1.40	0.04	48	0.4	0.19	10.8	6.81	<0.1
1532755	Soil	9.1	76.3	0.38	65.1	0.278	<1	1.14	0.010	0.07	1.3	2.1	1.03	0.05	35	0.6	0.08	11.7	7.76	<0.1
1532756	Soil	11.5	72.2	1.00	131.4	0.128	<1	3.61	0.032	0.15	5.6	4.6	1.34	0.11	48	1.0	0.21	9.6	7.85	<0.1
1532757	Soil	13.0	103.3	1.43	136.7	0.177	1	4.67	0.023	0.17	6.8	7.2	1.76	0.07	27	0.8	0.35	13.3	12.22	<0.1
1532758	Soil	12.4	82.1	1.07	114.0	0.126	1	2.89	0.023	0.16	3.8	4.2	1.25	0.04	31	0.6	0.18	7.8	7.96	<0.1
1532759	Soil	7.1	50.4	0.78	87.4	0.091	3	2.96	0.023	0.10	4.3	3.3	0.75	0.07	42	0.8	0.18	7.0	6.15	<0.1
1532760	Soil	7.8	58.2	0.70	97.4	0.104	3	3.78	0.014	0.09	7.4	4.4	0.84	0.05	103	1.0	0.14	7.8	5.60	<0.1
1532761	Soil	7.7	34.6	0.51	108.9	0.051	<1	1.87	0.020	0.11	2.3	1.2	0.75	0.05	40	0.8	0.09	5.2	4.75	<0.1
1532762	Soil	9.2	44.7	0.63	111.1	0.084	<1	2.20	0.018	0.10	3.6	2.1	0.77	0.05	27	0.7	0.11	5.5	4.33	<0.1
1532763	Soil	6.4	53.6	0.52	72.4	0.047	1	2.10	0.013	0.09	1.8	1.0	0.98	0.10	36	0.6	0.11	6.3	6.55	<0.1
1532764	Soil	8.7	60.1	0.76	134.1	0.084	2	2.27	0.023	0.10	2.2	2.4	0.70	0.08	27	0.5	0.07	6.5	6.19	<0.1
1532765	Soil	7.9	53.2	0.46	68.4	0.105	1	1.78	0.014	0.07	2.1	1.7	0.65	0.08	43	0.7	0.10	8.0	5.44	<0.1
1532766	Soil	12.2	84.9	1.08	175.9	0.148	1	3.03	0.025	0.26	9.2	6.2	1.88	0.04	12	1.0	0.32	7.9	9.26	<0.1
1532767	Soil	11.6	81.6	1.07	162.1	0.141	1	3.02	0.025	0.26	8.7	5.8	1.84	0.04	17	0.7	0.33	8.3	8.84	0.1
1532768	Soil	8.0	63.7	1.05	108.9	0.145	<1	2.12	0.028	0.34	13.8	5.1	2.21	<0.02	20	0.4	0.28	6.3	10.56	0.1
1532769	Soil	7.6	64.6	1.04	108.2	0.140	<1	2.12	0.028	0.34	12.5	4.6	2.20	<0.02	15	0.3	0.31	6.1	10.48	0.1
1532770	Soil	8.1	65.6	0.66	97.2	0.228	1	2.55	0.020	0.13	5.2	3.4	1.38	0.06	74	1.2	0.11	9.2	7.76	<0.1
1532771	Soil	6.6	68.4	1.06	90.5	0.186	<1	2.52	0.027	0.22	6.5	4.5	2.34	0.03	52	0.5	0.23	7.6	10.97	<0.1
1532772	Soil	8.2	65.6	1.30	136.2	0.169	<1	2.43	0.030	0.47	5.2	4.9	3.04	0.03	10	0.5	0.18	6.9	11.11	0.2
1532773	Soil	8.1	61.4	0.98	115.4	0.114	<1	2.53	0.021	0.23	4.7	3.5	1.66	0.05	30	0.6	0.22	6.2	7.86	0.1
1532774	Soil	9.0	105.2	1.41	263.3	0.147	1	3.27	0.024	0.39	6.7	5.6	3.51	0.06	39	1.0	0.66	9.0	13.55	0.1
1532775	Soil	9.5	132.2	1.79	197.9	0.142	1	3.39	0.022	0.29	3.8	5.3	3.70	0.05	40	0.7	0.30	8.6	14.28	0.1
1532776	Soil	13.1	75.8	1.51	279.7	0.217	3	3.01	0.042	0.37	9.2	6.1	2.81	0.05	115	1.0	0.59	8.2	9.43	0.1
1532777	Soil	6.5	73.6	1.12	148.7	0.117	<1	2.42	0.029	0.30	1.1	3.8	2.79	0.05	25	0.7	0.25	6.4	11.90	0.1
1532778	Soil	6.8	51.2	0.87	98.6	0.114	<1	1.98	0.028	0.21	2.1	3.7	1.61	0.07	23	0.5	0.47	5.2	7.15	0.1



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	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Mo	Cu	Pb	Zn	Ag	Ni	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.01	0.01	0.01	0.1	2	0.1	0.1
1532725	Silt	1.40	49.5	7.7	<0.05	1.7	8.24	21.3	0.25	2	1.2	23.7	<10	<2							
1532726	Silt	9.65	41.5	3.9	<0.05	5.2	320.98	128.1	0.07	1	34.0	65.2	<10	2							
1532751	Soil	3.36	18.9	5.4	<0.05	2.5	4.82	18.8	0.06	<1	0.6	13.6	<10	<2							
1532752	Soil	3.17	23.5	6.5	<0.05	2.1	6.29	21.3	0.09	<1	0.8	14.2	<10	<2							
1532753	Soil	5.31	22.6	4.8	<0.05	5.7	7.82	30.8	0.08	<1	1.2	20.9	<10	2							
1532754	Soil	2.75	32.0	12.9	<0.05	2.1	6.77	18.0	0.16	<1	1.0	18.2	<10	<2							
1532755	Soil	5.64	36.0	5.3	<0.05	4.9	3.24	17.8	0.05	<1	0.5	4.0	<10	<2							
1532756	Soil	2.29	33.0	10.0	<0.05	1.9	12.39	24.2	0.47	<1	1.2	18.5	<10	<2							
1532757	Soil	1.93	41.5	20.9	<0.05	2.1	13.88	27.3	1.19	<1	1.7	30.4	<10	<2							
1532758	Soil	1.95	33.9	7.1	<0.05	1.8	7.78	27.6	0.29	<1	0.5	17.8	<10	2							
1532759	Soil	1.78	21.5	7.5	<0.05	1.6	6.19	15.1	0.50	<1	0.8	15.4	<10	<2							
1532760	Soil	2.33	22.3	7.3	<0.05	2.6	6.74	16.7	0.38	<1	1.7	15.8	<10	<2							
1532761	Soil	0.77	28.1	3.8	<0.05	0.4	3.88	15.3	0.08	<1	0.7	11.1	<10	<2							
1532762	Soil	1.36	26.9	4.3	<0.05	0.9	5.81	20.8	0.11	<1	0.8	11.3	<10	<2							
1532763	Soil	1.03	40.3	5.4	<0.05	0.4	3.73	12.0	0.10	<1	0.4	9.2	<10	<2							
1532764	Soil	1.27	25.9	5.2	<0.05	0.6	5.37	15.1	0.13	<1	0.7	16.4	<10	<2							
1532765	Soil	2.02	23.8	6.1	<0.05	1.5	5.15	16.2	0.12	<1	0.9	9.0	<10	<2							
1532766	Soil	1.46	57.4	13.7	<0.05	3.1	13.39	25.8	1.01	<1	1.8	20.1	<10	<2							
1532767	Soil	1.35	54.1	13.2	<0.05	3.0	13.29	24.6	0.87	<1	1.7	19.9	<10	<2							
1532768	Soil	1.30	86.9	10.4	<0.05	2.9	9.47	19.2	0.24	<1	2.1	24.6	<10	<2							
1532769	Soil	1.16	85.7	10.3	<0.05	2.8	8.77	18.8	0.21	<1	1.5	23.2	<10	<2							
1532770	Soil	3.87	68.4	8.9	<0.05	3.3	6.33	17.0	0.10	<1	0.6	14.2	<10	<2							
1532771	Soil	2.27	66.3	11.0	<0.05	3.7	4.96	16.9	0.22	<1	1.2	22.8	<10	<2							
1532772	Soil	0.98	104.3	10.1	<0.05	3.3	6.81	20.8	0.31	<1	1.0	23.0	<10	<2							
1532773	Soil	1.39	52.9	8.5	<0.05	1.8	5.18	20.5	0.32	<1	1.4	18.4	<10	<2							
1532774	Soil	1.34	119.3	28.2	<0.05	2.0	6.79	23.6	1.18	<1	3.0	24.7	<10	<2							
1532775	Soil	1.14	99.5	11.5	<0.05	1.7	6.66	25.1	0.34	<1	2.7	27.1	<10	<2							
1532776	Soil	2.47	87.4	11.7	<0.05	7.2	12.84	31.9	0.44	<1	2.0	22.2	<10	<2							
1532777	Soil	0.73	91.7	9.2	<0.05	0.7	3.74	12.9	0.24	<1	1.0	23.0	<10	<2							
1532778	Soil	0.78	52.2	5.9	<0.05	1.0	5.04	13.3	0.50	<1	1.0	19.7	<10	<2							



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	Method	Analyte	Unit	MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
					ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1532779	Soil	1.78	57.22	54.12	227.2	267	10.7	4.5	490	2.00	58.1	12.1	6.0	18.9	8.9	1.10	3.83	4.54	21	0.09	0.040			
1532780	Soil	50.17	73.64	104.04	230.5	1024	12.3	7.8	1024	2.12	208.7	27.9	10.2	8.0	24.1	2.54	8.55	9.54	30	0.41	0.079			
1532781	Soil	9.09	100.47	148.35	218.5	617	17.9	12.9	1624	2.87	293.0	7.7	9.5	8.2	25.1	9.62	19.51	11.60	47	0.33	0.088			
1532782	Soil	7.78	127.65	140.97	221.5	1224	20.6	11.6	925	3.34	352.9	11.6	11.8	16.5	29.1	2.67	16.78	12.47	54	0.35	0.083			
1532783	Soil	7.50	151.24	148.19	228.0	979	20.9	11.4	825	3.33	336.3	16.9	17.0	25.4	36.7	1.29	18.20	12.78	57	0.48	0.079			
1532784	Soil	8.34	154.48	145.02	254.7	1005	25.9	17.0	1392	3.22	323.8	16.7	15.7	19.1	31.8	2.30	17.88	12.38	56	0.51	0.076			
1532785	Soil	24.80	304.63	107.26	331.6	420	79.3	25.7	1668	5.93	356.3	13.5	11.0	11.8	14.0	4.85	14.29	34.35	99	0.10	0.114			
1532786	Soil	0.68	15.29	4.39	15.0	327	3.5	1.3	36	0.28	5.3	1.7	0.9	<0.1	10.9	0.41	0.26	1.05	6	0.16	0.040			
1532787	Soil	3.53	64.94	24.04	119.8	557	23.5	11.1	1000	2.18	41.5	1.4	4.7	<0.1	13.2	1.42	1.88	9.49	55	0.28	0.108			
1532788	Soil	1.27	138.62	31.57	96.3	507	41.0	27.0	586	3.21	50.7	0.9	11.7	1.8	21.3	0.92	1.40	10.42	85	0.37	0.072			
1532789	Soil	1.33	139.63	40.80	89.6	411	44.5	29.5	643	2.79	80.2	0.9	9.3	1.7	19.8	0.89	1.62	9.60	67	0.33	0.074			
1532790	Soil	0.99	127.19	37.39	90.1	556	47.5	24.6	357	2.78	52.2	0.7	9.4	1.8	21.7	0.80	1.82	10.82	70	0.33	0.059			
1532791	Soil	3.96	65.34	29.70	99.1	257	48.7	20.8	1125	2.10	28.4	1.0	3.2	<0.1	15.4	1.60	1.18	5.17	51	0.20	0.113			
1532792	Soil	1.09	82.53	28.77	85.9	615	44.2	12.3	239	2.55	38.8	0.6	2.3	1.3	14.1	1.86	1.42	5.51	59	0.23	0.043			
1532793	Soil	1.33	75.44	33.28	145.4	1131	53.4	38.5	1759	2.25	47.6	0.7	5.2	0.2	25.6	7.38	2.82	7.96	54	0.30	0.118			
1532794	Soil	0.76	118.80	33.61	144.9	390	34.1	17.4	283	2.58	33.0	0.8	2.8	2.3	22.5	0.96	1.36	6.12	60	0.29	0.049			
1532795	Soil	0.55	78.25	27.12	98.6	348	25.1	16.6	468	2.14	10.4	0.5	1.7	1.6	9.9	1.53	0.78	2.74	56	0.31	0.063			
1532796	Soil	29.79	53.72	51.18	211.9	219	9.0	3.6	277	2.04	60.7	12.6	2.2	21.3	11.4	0.80	4.27	5.89	22	0.12	0.042			
1532797	Soil	14.92	23.92	29.71	44.2	378	6.6	1.8	82	1.28	33.9	3.7	4.4	0.7	8.5	0.24	2.69	3.06	24	0.06	0.069			
1532798	Soil	23.67	43.24	71.35	108.5	282	8.6	5.1	362	1.97	115.0	10.0	9.7	4.9	15.5	0.50	6.43	10.47	34	0.17	0.115			
1532799	Soil	92.93	26.32	63.99	75.4	140	4.9	3.4	896	1.55	128.6	7.0	10.1	4.3	11.6	0.81	5.21	9.07	27	0.13	0.056			
1532800	Soil	69.97	30.90	79.83	100.5	306	4.0	3.2	370	1.85	165.4	9.0	5.7	17.7	11.0	1.09	5.94	10.63	26	0.13	0.055			



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1532779	Soil	29.8	13.3	0.21	65.2	0.041	<1	1.03	0.007	0.11	2.4	2.4	0.68	0.03	24	0.6	0.09	4.9	4.49	<0.1	0.04
1532780	Soil	34.3	18.5	0.36	95.7	0.040	<1	1.82	0.009	0.18	31.2	1.8	0.89	0.09	33	1.3	0.41	5.3	7.31	<0.1	<0.02
1532781	Soil	14.6	29.7	0.49	125.1	0.074	<1	1.51	0.012	0.32	33.7	2.6	1.45	0.08	18	0.7	0.87	6.0	12.14	0.2	<0.02
1532782	Soil	22.5	33.0	0.63	149.7	0.088	<1	1.97	0.013	0.31	24.5	3.5	1.48	0.06	26	0.8	0.83	6.9	11.46	<0.1	<0.02
1532783	Soil	28.4	32.4	0.72	150.1	0.090	1	2.03	0.015	0.34	31.6	4.4	1.71	0.04	28	0.8	0.93	7.0	11.61	<0.1	0.04
1532784	Soil	23.0	36.0	0.72	137.1	0.088	<1	1.90	0.014	0.38	25.9	4.1	1.84	0.06	185	0.9	0.99	6.7	11.55	<0.1	0.03
1532785	Soil	14.2	60.3	0.52	222.0	0.100	2	4.56	0.007	0.30	17.8	5.0	2.79	0.12	88	1.5	1.20	13.2	20.58	0.1	<0.02
1532786	Soil	3.7	4.1	0.06	21.1	0.013	<1	0.33	0.032	0.03	0.9	0.2	0.12	0.04	18	0.5	<0.02	1.4	0.68	<0.1	<0.02
1532787	Soil	4.0	34.7	0.42	87.7	0.041	<1	1.30	0.021	0.16	5.0	1.2	1.25	0.10	85	0.8	0.19	4.6	7.52	<0.1	<0.02
1532788	Soil	6.5	39.5	0.89	117.7	0.165	<1	1.97	0.028	0.47	1.5	4.8	2.45	0.04	48	0.4	0.13	6.0	9.55	0.1	0.04
1532789	Soil	5.8	40.4	0.72	104.4	0.121	<1	1.69	0.023	0.32	1.7	4.2	1.73	0.04	48	0.5	0.10	5.0	6.35	0.1	0.02
1532790	Soil	5.9	68.4	0.79	127.2	0.143	<1	1.63	0.020	0.37	1.8	3.7	2.06	0.03	29	0.5	0.15	5.3	8.42	0.1	0.04
1532791	Soil	5.8	115.1	0.57	140.8	0.054	2	1.58	0.015	0.12	0.8	0.9	1.11	0.11	48	0.3	0.07	5.6	7.16	<0.1	<0.02
1532792	Soil	6.2	70.8	0.59	86.0	0.137	2	1.65	0.020	0.10	1.3	2.8	1.09	0.04	53	0.4	0.06	5.9	5.91	<0.1	0.05
1532793	Soil	5.7	82.9	0.60	157.7	0.073	2	1.65	0.019	0.27	0.7	2.2	2.40	0.09	114	0.4	0.08	5.5	13.84	<0.1	<0.02
1532794	Soil	9.7	42.8	0.60	98.2	0.113	2	1.54	0.021	0.10	0.8	3.3	0.89	0.02	15	0.2	0.04	4.7	4.97	<0.1	0.03
1532795	Soil	6.7	31.3	0.58	63.7	0.100	<1	1.24	0.042	0.10	0.5	3.4	0.64	0.02	33	0.1	0.03	3.9	4.38	<0.1	0.03
1532796	Soil	37.4	14.4	0.22	67.9	0.042	1	1.09	0.006	0.10	3.0	2.1	0.65	0.04	17	0.5	0.09	5.3	5.61	<0.1	0.06
1532797	Soil	12.2	13.1	0.06	58.5	0.020	1	0.72	0.005	0.08	4.3	0.6	0.42	0.08	60	0.5	0.11	5.9	5.58	<0.1	<0.02
1532798	Soil	22.6	24.2	0.32	138.8	0.066	3	1.61	0.010	0.19	17.3	1.7	0.80	0.09	51	0.6	0.31	8.1	7.27	<0.1	0.03
1532799	Soil	17.0	13.7	0.20	121.2	0.048	<1	0.91	0.009	0.15	12.8	1.1	0.62	0.05	11	0.3	0.28	6.7	7.50	0.1	<0.02
1532800	Soil	26.5	10.9	0.20	84.8	0.045	<1	1.20	0.008	0.13	15.7	1.5	0.70	0.03	31	0.7	0.29	7.6	6.86	<0.1	0.03



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Mo	Cu	Pb	Zn	Ag	Ni	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm
1532779	Soil	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.01	0.01	0.01	0.1	2	0.1	0.1
1532780	Soil	2.23	31.4	4.8	<0.05	2.9	31.71	68.0	0.17	<1	1.4	14.1	<10	<2							
1532781	Soil	4.43	44.5	4.7	<0.05	0.8	71.83	77.4	0.05	<1	3.9	23.9	<10	<2							
1532782	Soil	2.45	92.5	8.8	<0.05	1.0	22.55	40.1	0.09	<1	1.6	21.0	<10	<2							
1532783	Soil	2.78	81.7	7.6	<0.05	1.6	41.13	53.7	0.11	<1	2.3	28.8	<10	<2							
1532784	Soil	2.53	80.1	8.3	<0.05	2.2	55.99	61.9	0.11	<1	3.3	32.0	<10	<2							
1532785	Soil	2.26	88.6	8.8	<0.05	1.7	45.43	57.7	0.09	<1	2.9	31.7	<10	<2							
1532786	Soil	8.00	91.9	15.1	<0.05	1.7	30.11	57.4	0.36	<1	2.5	27.3	<10	<2							
1532787	Soil	0.24	4.3	0.8	<0.05	0.3	11.74	3.8	<0.02	<1	0.4	1.7	<10	<2							
1532788	Soil	0.54	83.0	7.5	<0.05	0.2	5.51	8.8	0.09	<1	0.8	10.8	<10	2							
1532789	Soil	0.61	88.7	9.5	<0.05	1.6	8.70	13.8	0.12	<1	0.8	18.5	<10	<2							
1532790	Soil	0.56	61.0	8.9	<0.05	1.3	7.38	13.3	0.12	<1	1.0	14.2	<10	<2							
1532791	Soil	0.66	75.6	9.6	<0.05	1.4	5.66	11.8	0.07	<1	1.3	16.5	<10	<2							
1532792	Soil	1.08	54.5	5.4	<0.05	0.4	4.15	11.5	0.09	<1	0.5	12.1	<10	<2							
1532793	Soil	1.25	39.6	7.6	<0.05	1.3	4.06	12.4	0.11	<1	0.5	16.8	<10	<2							
1532794	Soil	0.70	102.5	7.3	<0.05	0.4	4.57	11.8	0.10	<1	0.9	10.5	<10	<2							
1532795	Soil	0.66	26.5	6.6	<0.05	1.3	6.08	19.3	0.21	<1	0.7	13.4	<10	<2							
1532796	Soil	0.52	23.9	4.0	<0.05	1.2	4.74	13.2	0.10	<1	0.3	10.7	<10	<2							
1532797	Soil	2.45	33.3	5.4	<0.05	2.9	29.28	63.4	0.20	<1	1.4	12.5	<10	<2							
1532798	Soil	3.45	63.2	3.2	<0.05	0.4	7.88	22.0	0.03	<1	0.5	3.8	<10	<2							
1532799	Soil	3.94	54.7	6.9	<0.05	0.9	18.41	67.7	0.05	<1	1.9	12.5	<10	<2							
1532800	Soil	2.62	38.4	6.5	<0.05	0.4	13.62	50.6	0.04	<1	1.1	8.0	<10	<2							
1532800	Soil	4.69	51.9	5.9	<0.05	0.9	27.89	56.0	0.04	1	1.8	13.1	<10	<2							



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QUALITY CONTROL REPORT

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Method Analyte Unit MDL		AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
Pulp Duplicates																					
1532307	Soil	4.96	143.78	38.13	82.2	260	32.6	16.5	398	3.06	92.0	1.5	5.8	2.5	14.9	0.39	6.33	12.20	66	0.22	0.059
REP 1532307	QC	5.29	154.62	37.52	90.1	287	32.4	15.8	402	3.17	95.4	1.5	7.2	2.4	14.8	0.44	7.07	12.67	68	0.24	0.058
1532337	Soil	4.59	120.69	62.67	242.1	496	13.8	5.8	427	2.59	99.5	19.0	5.6	28.4	8.9	0.95	8.99	10.49	28	0.07	0.036
REP 1532337	QC	4.75	126.65	64.97	273.0	527	14.3	6.2	469	2.60	99.3	19.6	5.5	28.5	9.3	1.04	9.13	10.94	28	0.07	0.038
1532369	Soil	1.55	38.00	32.35	107.1	308	4.0	1.9	176	1.47	82.9	10.5	2.1	3.8	8.4	0.76	6.65	4.20	15	0.05	0.049
REP 1532369	QC	1.56	37.88	32.26	103.3	300	3.7	1.9	186	1.50	83.7	10.1	2.6	3.8	8.6	0.80	6.58	4.31	16	0.06	0.053
1532655	Soil	1.44	6.50	22.86	47.4	60	9.5	3.4	268	1.71	12.6	18.4	2.4	16.4	7.6	0.23	0.54	1.01	23	0.10	0.039
REP 1532655	QC	1.50	6.87	21.88	46.0	66	9.6	3.5	258	1.70	12.5	18.2	5.1	16.7	7.7	0.23	0.55	0.97	23	0.10	0.042
1532688	Soil	12.85	271.58	87.80	407.5	2091	59.5	24.2	464	4.60	111.6	2.7	43.7	4.5	40.2	1.13	2.30	40.30	92	0.56	0.053
REP 1532688	QC	12.71	288.52	92.00	432.5	2117	63.8	25.4	476	4.81	113.4	2.7	44.0	4.2	41.7	1.00	2.46	42.10	95	0.55	0.055
1532763	Soil	3.95	50.09	50.02	109.5	546	32.5	10.8	548	2.07	47.8	1.1	7.0	0.1	12.0	1.05	0.71	4.56	49	0.16	0.075
REP 1532763	QC	4.08	51.45	52.27	115.0	569	31.7	11.2	513	2.05	51.0	1.2	12.8	0.1	13.0	1.15	0.71	4.84	50	0.17	0.080
1532792	Soil	1.09	82.53	28.77	85.9	615	44.2	12.3	239	2.55	38.8	0.6	2.3	1.3	14.1	1.86	1.42	5.51	59	0.23	0.043
REP 1532792	QC	1.07	81.07	29.31	89.7	612	41.1	11.6	228	2.59	39.6	0.6	2.9	1.4	15.3	1.93	1.40	5.31	60	0.25	0.045
Reference Materials																					
STD DS10	Standard	14.45	166.34	144.21	351.3	1831	73.6	14.1	895	2.77	45.1	3.0	80.0	8.5	67.8	2.90	9.38	13.44	44	1.09	0.081
STD DS10	Standard	13.88	160.80	143.99	342.7	1768	70.4	12.7	860	2.78	47.2	2.7	70.7	8.2	71.5	2.98	9.73	13.32	45	1.09	0.073
STD DS10	Standard	13.57	157.03	150.13	373.4	1828	74.3	13.7	858	2.81	44.6	2.6	96.1	7.6	67.4	2.47	8.65	12.09	44	1.08	0.073
STD DS10	Standard	15.93	155.16	156.24	356.8	1971	74.4	13.2	843	2.85	45.1	2.9	70.9	8.0	75.2	2.60	9.46	13.21	46	1.14	0.080
STD DS10	Standard	14.62	154.53	152.31	376.1	1893	77.2	12.7	917	2.82	46.0	2.8	89.6	7.4	72.4	2.56	9.58	12.49	44	1.09	0.072
STD DS10	Standard	13.75	155.83	149.68	361.2	1855	70.8	11.7	869	2.76	46.3	2.9	85.6	8.3	76.5	3.03	9.88	14.13	44	1.08	0.083
STD DS10	Standard	13.41	159.60	156.60	360.0	1774	73.3	13.7	900	2.73	45.3	2.7	67.6	7.7	62.2	2.82	8.66	12.35	43	1.06	0.074
STD DS10	Standard	13.46	153.09	148.88	361.8	1873	73.1	12.9	892	2.74	45.1	2.7	81.2	7.7	69.5	2.67	9.89	12.20	42	1.06	0.076
STD DS10	Standard																				
STD DS10	Standard																				
STD OREAS45EA	Standard																				
STD OXC129	Standard	1.18	31.24	6.54	44.8	18	78.5	22.6	417	3.04	0.7	0.8	191.9	2.1	191.0	0.05	0.03	0.03	51	0.70	0.102
STD OXC129	Standard	1.19	30.30	6.86	43.9	17	76.1	19.8	411	3.02	0.8	0.8	201.0	1.9	195.9	0.05	0.03	0.03	52	0.71	0.103



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	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
Pulp Duplicates																					
1532307	Soil	5.3	56.9	0.88	125.5	0.145	2	1.96	0.017	0.30	21.1	3.4	1.91	0.04	27	0.2	0.54	6.3	10.02	0.2	0.05
REP 1532307	QC	5.6	59.2	0.90	129.3	0.165	1	2.07	0.018	0.30	23.5	3.8	1.94	0.04	24	0.2	0.58	6.4	10.11	0.2	0.03
1532337	Soil	32.0	18.4	0.29	77.6	0.061	<1	1.36	0.006	0.10	4.4	2.3	0.84	0.02	21	0.9	0.19	6.1	6.49	<0.1	0.13
REP 1532337	QC	32.4	18.9	0.30	80.2	0.063	<1	1.40	0.006	0.10	4.5	2.4	0.88	0.03	21	1.2	0.21	6.6	6.87	<0.1	0.14
1532369	Soil	35.3	7.4	0.14	60.7	0.027	1	0.94	0.005	0.07	3.0	1.0	0.55	0.05	25	0.7	0.19	5.2	4.81	<0.1	0.03
REP 1532369	QC	36.3	7.8	0.14	59.9	0.027	<1	0.93	0.005	0.07	3.1	1.1	0.57	0.05	27	0.8	0.22	5.2	4.93	<0.1	0.03
1532655	Soil	19.8	15.8	0.18	43.6	0.029	<1	0.75	0.005	0.06	0.9	1.3	0.21	0.03	16	0.4	0.03	4.2	3.21	<0.1	0.02
REP 1532655	QC	20.2	15.5	0.18	46.3	0.030	<1	0.75	0.006	0.06	1.0	1.5	0.21	0.03	29	0.3	<0.02	4.1	3.21	<0.1	0.03
1532688	Soil	9.7	77.4	1.19	124.0	0.200	<1	3.80	0.033	0.30	47.5	6.9	2.39	0.04	25	1.0	1.59	10.2	14.41	0.1	0.07
REP 1532688	QC	10.0	81.8	1.26	124.2	0.233	<1	3.71	0.032	0.30	55.0	7.1	2.42	0.04	13	0.9	1.67	9.7	14.43	0.2	0.07
1532763	Soil	6.4	53.6	0.52	72.4	0.047	1	2.10	0.013	0.09	1.8	1.0	0.98	0.10	36	0.6	0.11	6.3	6.55	<0.1	<0.02
REP 1532763	QC	7.2	58.0	0.53	76.8	0.054	1	2.12	0.014	0.09	2.0	1.0	1.03	0.10	46	0.9	0.10	6.9	6.94	<0.1	<0.02
1532792	Soil	6.2	70.8	0.59	86.0	0.137	2	1.65	0.020	0.10	1.3	2.8	1.09	0.04	53	0.4	0.06	5.9	5.91	<0.1	0.05
REP 1532792	QC	6.4	75.3	0.60	86.0	0.145	3	1.67	0.022	0.10	1.3	3.0	1.11	0.04	56	0.3	0.05	6.0	5.80	<0.1	0.04
Reference Materials																					
STD DS10	Standard	20.9	57.7	0.79	344.5	0.092	7	1.11	0.074	0.35	3.2	2.9	4.88	0.28	270	2.3	4.69	4.6	2.98	0.1	0.06
STD DS10	Standard	19.1	52.6	0.78	337.0	0.088	7	1.08	0.071	0.34	3.3	3.2	4.91	0.28	271	2.1	4.53	4.6	2.76	0.1	0.07
STD DS10	Standard	18.3	57.6	0.79	360.0	0.091	5	1.10	0.073	0.34	3.4	3.0	5.06	0.27	269	2.2	4.81	4.2	2.65	<0.1	0.07
STD DS10	Standard	20.9	57.7	0.80	357.6	0.096	6	1.15	0.075	0.35	3.6	3.1	5.51	0.30	298	2.4	5.25	4.9	2.88	<0.1	0.08
STD DS10	Standard	18.0	56.1	0.80	349.0	0.085	7	1.07	0.072	0.34	3.5	3.1	5.29	0.28	280	2.0	5.19	4.6	2.70	<0.1	0.06
STD DS10	Standard	20.6	55.2	0.79	364.0	0.090	6	1.09	0.072	0.34	3.3	3.3	5.11	0.28	311	2.0	4.79	4.4	2.91	<0.1	0.07
STD DS10	Standard	17.2	57.2	0.77	331.4	0.080	8	1.02	0.069	0.33	3.3	2.9	5.09	0.28	275	2.3	4.57	4.3	2.60	<0.1	0.07
STD DS10	Standard	17.9	54.0	0.77	355.4	0.086	5	1.07	0.076	0.34	3.5	3.0	5.09	0.27	296	2.4	4.68	4.2	2.69	<0.1	0.04
STD DS10	Standard																				
STD DS10	Standard																				
STD OREAS45EA	Standard																				
STD OXC129	Standard	14.4	55.0	1.55	56.8	0.384	1	1.58	0.591	0.36	<0.1	1.1	0.03	<0.02	<5	<0.1	<0.02	5.4	0.18	<0.1	0.27
STD OXC129	Standard	14.1	52.3	1.54	58.5	0.380	<1	1.59	0.596	0.36	<0.1	1.5	0.04	<0.02	<5	<0.1	<0.02	5.4	0.18	0.1	0.24



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QUALITY CONTROL REPORT

WHI17000173.2

	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Mo	Cu	Pb	Zn	Ag	Ni	Co	
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.01	0.01	0.01	0.1	2	0.1	0.1	
Pulp Duplicates																						
1532307	Soil	1.29	93.0	6.1	<0.05	1.8	4.38	13.7	0.07	<1	1.4	26.2	<10	<2								
REP 1532307	QC	1.44	100.5	7.0	<0.05	1.7	4.86	14.6	0.09	<1	0.9	26.1	<10	2								
1532337	Soil	4.15	33.6	6.8	<0.05	5.9	60.94	63.4	0.22	<1	2.4	16.8	<10	<2								
REP 1532337	QC	3.82	35.6	7.1	<0.05	5.6	61.96	65.9	0.22	<1	2.1	18.5	<10	<2								
1532369	Soil	2.56	38.9	5.9	<0.05	0.9	26.81	48.0	0.17	<1	1.5	12.1	<10	<2								
REP 1532369	QC	2.43	39.1	5.5	<0.05	0.9	27.65	47.2	0.18	<1	1.4	11.8	<10	<2								
1532655	Soil	5.18	29.3	1.4	<0.05	1.1	25.32	61.0	0.03	<1	1.2	12.2	<10	<2								
REP 1532655	QC	5.13	29.9	1.5	<0.05	1.2	24.92	61.7	<0.02	1	0.7	11.7	<10	<2								
1532688	Soil	2.08	92.6	14.6	<0.05	3.4	12.97	21.8	0.38	<1	3.1	38.5	<10	<2								
REP 1532688	QC	2.36	95.6	15.4	<0.05	3.3	13.70	23.0	0.39	<1	3.5	37.1	<10	<2								
1532763	Soil	1.03	40.3	5.4	<0.05	0.4	3.73	12.0	0.10	<1	0.4	9.2	<10	<2								
REP 1532763	QC	1.09	41.5	5.9	<0.05	0.4	3.83	13.0	0.11	<1	0.5	9.9	<10	<2								
1532792	Soil	1.25	39.6	7.6	<0.05	1.3	4.06	12.4	0.11	<1	0.5	16.8	<10	<2								
REP 1532792	QC	1.24	41.5	7.4	<0.05	1.3	4.40	12.6	0.13	<1	0.9	15.5	<10	<2								
Reference Materials																						
STD DS10	Standard	1.66	31.5	1.8	<0.05	2.6	9.14	38.2	0.24	47	0.9	18.5	109	185								
STD DS10	Standard	1.55	30.4	1.8	<0.05	2.6	8.49	35.0	0.27	48	0.7	19.2	100	172								
STD DS10	Standard	1.65	27.5	1.7	<0.05	2.6	8.21	36.7	0.21	45	0.7	20.4	99	194								
STD DS10	Standard	2.03	30.4	2.0	<0.05	3.1	8.80	41.4	0.25	51	1.0	20.5	103	187								
STD DS10	Standard	1.65	29.5	1.7	<0.05	2.3	8.29	35.8	0.24	46	0.8	19.5	115	201								
STD DS10	Standard	1.60	30.2	1.8	<0.05	2.6	8.65	38.6	0.29	54	0.7	19.4	120	185								
STD DS10	Standard	1.59	27.6	1.7	<0.05	2.5	7.66	34.9	0.25	55	0.5	20.0	109	179								
STD DS10	Standard	1.81	28.6	1.5	<0.05	2.5	7.91	36.0	0.22	49	0.7	19.5	99	188								
STD DS10	Standard														14.43	157.03	151.77	369.8	1884	76.5	13.4	
STD DS10	Standard																					
STD OREAS45EA	Standard																					
STD OXC129	Standard	1.17	17.2	0.8	<0.05	19.5	5.28	24.0	<0.02	<1	0.9	2.1	<10	<2								
STD OXC129	Standard	1.16	17.5	0.8	<0.05	18.1	4.93	23.8	<0.02	<1	0.7	2.1	<10	<2								



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Method Analyte Unit MDL		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al
		ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%
		1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01
Pulp Duplicates																					
1532307	Soil																				
REP 1532307	QC																				
1532337	Soil																				
REP 1532337	QC																				
1532369	Soil																				
REP 1532369	QC																				
1532655	Soil																				
REP 1532655	QC																				
1532688	Soil																				
REP 1532688	QC																				
1532763	Soil																				
REP 1532763	QC																				
1532792	Soil																				
REP 1532792	QC																				
Reference Materials																					
STD DS10	Standard																				
STD DS10	Standard																				
STD DS10	Standard																				
STD DS10	Standard																				
STD DS10	Standard																				
STD DS10	Standard																				
STD DS10	Standard																				
STD DS10	Standard																				
STD DS10	Standard	919	2.87	45.6	2.9	67.1	8.0	79.2	2.46	10.00	13.20	45	1.08	0.079	19.5	58.5	0.79	346.9	0.093	8	1.12
STD DS10	Standard																				
STD OREAS45EA	Standard																				
STD OXC129	Standard																				
STD OXC129	Standard																				



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Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
Analyte	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce
Unit	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.1	0.02	0.1	0.1	0.05	0.1	0.01
Pulp Duplicates																				
1532307	Soil																			
REP 1532307	QC																			
1532337	Soil																			
REP 1532337	QC																			
1532369	Soil																			
REP 1532369	QC																			
1532655	Soil																			
REP 1532655	QC																			
1532688	Soil																			
REP 1532688	QC																			
1532763	Soil																			
REP 1532763	QC																			
1532792	Soil																			
REP 1532792	QC																			
Reference Materials																				
STD DS10	Standard																			
STD DS10	Standard																			
STD DS10	Standard																			
STD DS10	Standard																			
STD DS10	Standard																			
STD DS10	Standard																			
STD DS10	Standard																			
STD DS10	Standard	0.077	0.35	3.6	3.6	5.20	0.28	244	2.2	4.97	4.6	2.73	0.1	0.08	1.77	28.8	1.7	<0.05	2.8	8.81
STD DS10	Standard																			
STD OREAS45EA	Standard																			
STD OXC129	Standard																			
STD OXC129	Standard																			



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Method Analyte Unit MDL		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		In	Re	Be	Li	Pd	Pt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th
		ppm	ppb	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm
		0.02	1	0.1	0.1	10	2	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1
Pulp Duplicates																				
1532307	Soil																			
REP 1532307	QC																			
1532337	Soil																			
REP 1532337	QC																			
1532369	Soil																			
REP 1532369	QC																			
1532655	Soil																			
REP 1532655	QC																			
1532688	Soil																			
REP 1532688	QC																			
1532763	Soil																			
REP 1532763	QC																			
1532792	Soil																			
REP 1532792	QC																			
Reference Materials																				
STD DS10	Standard																			
STD DS10	Standard																			
STD DS10	Standard																			
STD DS10	Standard																			
STD DS10	Standard																			
STD DS10	Standard																			
STD DS10	Standard																			
STD DS10	Standard																			
STD DS10	Standard	0.24	46	0.6	20.7	111	185													
STD DS10	Standard							13.81	152.43	160.50	362.7	1852	78.8	13.8	901	2.77	45.1	3.3	76.7	8.5
STD OREAS45EA	Standard							1.44	709.38	14.63	31.5	251	405.0	49.1	430	22.34	10.6	2.0	60.5	10.9
STD OXC129	Standard																			
STD OXC129	Standard																			



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Method Analyte Unit MDL		AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg
		ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb
		0.01	0.02	0.02	2	0.01	0.001	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5
Pulp Duplicates																					
1532307	Soil																				
REP 1532307	QC																				
1532337	Soil																				
REP 1532337	QC																				
1532369	Soil																				
REP 1532369	QC																				
1532655	Soil																				
REP 1532655	QC																				
1532688	Soil																				
REP 1532688	QC																				
1532763	Soil																				
REP 1532763	QC																				
1532792	Soil																				
REP 1532792	QC																				
Reference Materials																					
STD DS10	Standard																				
STD DS10	Standard																				
STD DS10	Standard																				
STD DS10	Standard																				
STD DS10	Standard																				
STD DS10	Standard																				
STD DS10	Standard																				
STD DS10	Standard																				
STD DS10	Standard																				
STD DS10	Standard	2.59	8.05	13.80	44	1.09	0.075	18.7	52.8	0.80	427.2	0.080	<20	1.09	0.072	0.34	2.8	3.0	5.58	0.29	283
STD OREAS45EA	Standard	0.03	0.27	0.29	324	0.03	0.028	7.0	815.8	0.10	141.5	0.097	<20	3.40	0.021	0.06	<0.1	75.6	0.06	0.03	18
STD OXC129	Standard																				
STD OXC129	Standard																				



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Method Analyte Unit MDL		AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		Se	Te	Ga	Cs	Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb
		0.1	0.02	0.1	0.02	0.1	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10
Pulp Duplicates																			
1532307	Soil																		
REP 1532307	QC																		
1532337	Soil																		
REP 1532337	QC																		
1532369	Soil																		
REP 1532369	QC																		
1532655	Soil																		
REP 1532655	QC																		
1532688	Soil																		
REP 1532688	QC																		
1532763	Soil																		
REP 1532763	QC																		
1532792	Soil																		
REP 1532792	QC																		
Reference Materials																			
STD DS10	Standard																		
STD DS10	Standard																		
STD DS10	Standard																		
STD DS10	Standard																		
STD DS10	Standard																		
STD DS10	Standard																		
STD DS10	Standard																		
STD DS10	Standard																		
STD DS10	Standard																		
STD DS10	Standard	2.1	5.15	4.5	2.70	<0.1	0.06	1.35	29.4	1.6	<0.05	2.5	8.19	37.9	0.22	45	0.7	19.7	104
STD OREAS45EA	Standard	0.8	0.10	12.3	0.69	0.2	0.68	0.08	7.3	1.0	<0.05	22.9	5.53	17.7	0.11	<1	0.3	2.9	46
STD OXC129	Standard																		
STD OXC129	Standard																		



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		AQ252 Mo ppm 0.01	AQ252 Cu ppm 0.01	AQ252 Pb ppm 0.01	AQ252 Zn ppm 0.1	AQ252 Ag ppb 2	AQ252 Ni ppm 0.1	AQ252 Co ppm 0.1	AQ252 Mn ppm 1	AQ252 Fe % 0.01	AQ252 As ppm 0.1	AQ252 U ppm 0.1	AQ252 Au ppb 0.2	AQ252 Th ppm 0.1	AQ252 Sr ppm 0.5	AQ252 Cd ppm 0.01	AQ252 Sb ppm 0.02	AQ252 Bi ppm 0.02	AQ252 V ppm 2	AQ252 Ca % 0.01	AQ252 P % 0.001
STD OXC129	Standard	1.20	26.89	5.99	39.1	9	76.8	20.0	419	2.95	0.4	0.7	201.6	1.7	176.5	<0.01	0.03	0.02	50	0.64	0.089
STD OXC129	Standard	1.29	27.50	6.70	38.0	12	82.3	20.9	432	3.09	0.3	0.7	211.7	1.9	197.4	<0.01	0.03	0.04	53	0.80	0.098
STD OXC129	Standard	1.21	26.79	5.84	41.7	14	80.2	19.2	420	3.01	0.2	0.7	212.0	1.6	185.1	<0.01	0.03	<0.02	51	0.67	0.099
STD OXC129	Standard	1.19	31.30	6.79	46.1	14	75.6	20.2	438	3.10	0.5	0.8	192.4	2.0	184.7	0.05	0.03	<0.02	52	0.72	0.103
STD OXC129	Standard	1.32	30.93	6.62	44.5	14	82.9	21.3	421	2.99	0.6	0.7	206.9	1.9	179.5	0.04	0.03	0.03	51	0.60	0.094
STD OXC129	Standard	1.25	27.64	5.92	40.7	14	78.1	20.2	413	2.97	0.3	0.7	196.0	1.8	182.9	0.03	0.04	0.05	48	0.64	0.101
STD OXC129	Standard																				
STD OXC129 Expected		1.3	28	6.3	42.9	28	79.5	20.3	421	3.065	0.6	0.72	195	1.9		0.03	0.04		51	0.665	0.102
STD DS10 Expected		15.1	154.61	150.55	370	2020	74.6	12.9	875	2.7188	46.2	2.59	91.9	7.5	67.1	2.62	9	11.65	43	1.0625	0.0765
STD OREAS45EA Expected																					
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	0.04	<0.01	0.2	<2	<0.1	<0.1	<1	<0.01	0.3	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	0.04	<0.01	<0.1	<2	0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	0.02	0.02	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.3	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	0.25	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank																				
BLK	Blank																				



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Project: Adanac
Report Date: July 29, 2017

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QUALITY CONTROL REPORT

WHI17000173.2

		AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
STD OXC129	Standard	12.4	53.0	1.50	49.2	0.409	<1	1.50	0.581	0.35	<0.1	0.6	0.03	<0.02	<5	<0.1	<0.02	5.3	0.15	<0.1	0.24
STD OXC129	Standard	13.1	56.0	1.60	50.1	0.433	<1	1.66	0.598	0.36	<0.1	0.9	0.04	<0.02	<5	<0.1	<0.02	6.1	0.16	<0.1	0.26
STD OXC129	Standard	11.8	51.4	1.53	48.5	0.398	<1	1.55	0.583	0.36	<0.1	0.9	0.03	<0.02	<5	<0.1	<0.02	5.2	0.16	<0.1	0.26
STD OXC129	Standard	14.1	50.5	1.59	57.9	0.388	<1	1.60	0.597	0.37	<0.1	1.3	0.03	<0.02	<5	<0.1	<0.02	5.3	0.18	0.1	0.20
STD OXC129	Standard	13.1	55.0	1.51	51.0	0.384	2	1.42	0.565	0.35	<0.1	0.9	0.04	<0.02	<5	<0.1	<0.02	5.3	0.16	<0.1	0.27
STD OXC129	Standard	12.1	51.0	1.51	48.1	0.415	1	1.58	0.588	0.39	<0.1	1.3	0.04	<0.02	6	<0.1	<0.02	5.1	0.15	0.1	0.26
STD OXC129	Standard																				
STD OXC129 Expected		13	52	1.545	50	0.4	1	1.58	0.6	0.37	0.08	1.1	0.03					5.6	0.16		0.24
STD DS10 Expected		17.5	54.6	0.775	359	0.0817		1.0755	0.067	0.338	3.32	3	5.1	0.29	300	2.3	5.01	4.5	2.63	0.08	0.06
STD OREAS45EA Expected																					
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank																				
BLK	Blank																				



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Project: Adanac
Report Date: July 29, 2017

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QUALITY CONTROL REPORT

WHI17000173.2

		AQ252 Nb ppm 0.02	AQ252 Rb ppm 0.1	AQ252 Sn ppm 0.1	AQ252 Ta ppm 0.05	AQ252 Zr ppm 0.1	AQ252 Y ppm 0.01	AQ252 Ce ppm 0.1	AQ252 In ppm 0.02	AQ252 Re ppb 1	AQ252 Be ppm 0.1	AQ252 Li ppm 0.1	AQ252 Pd ppb 10	AQ252 Pt ppb 2	AQ251 Mo ppm 0.01	AQ251 Cu ppm 0.01	AQ251 Pb ppm 0.01	AQ251 Zn ppm 0.1	AQ251 Ag ppb 2	AQ251 Ni ppm 0.1	AQ251 Co ppm 0.1
STD OXC129	Standard	1.15	14.4	0.7	<0.05	18.0	4.52	22.2	<0.02	<1	0.8	2.2	<10	<2							
STD OXC129	Standard	1.05	15.8	0.8	<0.05	20.6	5.15	23.6	<0.02	<1	0.9	2.3	<10	<2							
STD OXC129	Standard	1.20	15.5	0.7	<0.05	18.4	4.70	21.7	<0.02	<1	0.8	2.0	<10	<2							
STD OXC129	Standard	1.12	16.6	0.7	<0.05	18.3	4.80	24.0	<0.02	<1	0.7	2.2	<10	<2							
STD OXC129	Standard	1.40	15.1	0.7	<0.05	18.0	4.62	23.5	<0.02	<1	0.6	2.4	<10	<2							
STD OXC129	Standard	1.55	17.1	0.7	<0.05	20.9	4.62	22.3	<0.02	<1	0.5	2.5	<10	<2							
STD OXC129	Standard														1.23	26.58	6.22	43.8	22	77.0	20.7
STD OXC129 Expected		1.4		0.7		21	4.7	23.7			0.8	2.22			1.3	28	6.3	42.9	28	79.5	20.3
STD DS10 Expected		1.62	27.7	1.6		2.7	7.77	37	0.23	50	0.63	19.4	110	191	15.1	154.61	150.55	370	2020	74.6	12.9
STD OREAS45EA Expected																					
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2							
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2							
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2							
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2							
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2							
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	0.06	<0.1	<0.02	<1	<0.1	<0.1	<10	<2							
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2							
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2							
BLK	Blank														<0.01	<0.01	<0.01	<0.1	2	<0.1	<0.1
BLK	Blank																				



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Project: Adanac
Report Date: July 29, 2017

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QUALITY CONTROL REPORT

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		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al
		ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%
		1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01
STD OXC129	Standard																				
STD OXC129	Standard																				
STD OXC129	Standard																				
STD OXC129	Standard																				
STD OXC129	Standard																				
STD OXC129	Standard																				
STD OXC129	Standard	412	3.07	0.6	0.7	196.8	1.8	200.7	0.04	0.04	<0.02	51	0.67	0.104	12.8	51.9	1.53	48.1	0.421	<1	1.57
STD OXC129 Expected		421	3.065	0.6	0.72	195	1.9		0.03	0.04		51	0.665	0.102	13	52	1.545	50	0.4	1	1.58
STD DS10 Expected		875	2.7188	46.2	2.59	91.9	7.5	67.1	2.62	9	11.65	43	1.0625	0.0765	17.5	54.6	0.775	359	0.0817		1.0755
STD OREAS45EA Expected																					
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
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BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01
BLK	Blank																				



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Project: Adanac
Report Date: July 29, 2017

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QUALITY CONTROL REPORT

WHI17000173.2

		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce
		%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1
STD OXC129	Standard																				
STD OXC129	Standard																				
STD OXC129	Standard																				
STD OXC129	Standard																				
STD OXC129	Standard																				
STD OXC129	Standard																				
STD OXC129	Standard	0.592	0.36	<0.1	1.6	0.04	<0.02	<5	<0.1	<0.02	5.1	0.16	0.1	0.30	1.34	15.5	0.8	<0.05	23.1	4.88	22.8
STD OXC129 Expected		0.6	0.37	0.08	1.1	0.03					5.6	0.16		0.24	1.4		0.7		21	4.7	23.7
STD DS10 Expected		0.067	0.338	3.32	3	5.1	0.29	300	2.3	5.01	4.5	2.63	0.08	0.06	1.62	27.7	1.6		2.7	7.77	37
STD OREAS45EA Expected																					
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1
BLK	Blank																				

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QUALITY CONTROL REPORT

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		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		In	Re	Be	Li	Pd	Pt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr
		ppm	ppb	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm
		0.02	1	0.1	0.1	10	2	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5
STD OXC129	Standard																				
STD OXC129	Standard																				
STD OXC129	Standard																				
STD OXC129	Standard																				
STD OXC129	Standard																				
STD OXC129	Standard																				
STD OXC129	Standard	<0.02	<1	0.5	2.4	<10	<2														
STD OXC129 Expected		0.8				2.22															
STD DS10 Expected		0.23	50	0.63	19.4	110	191	13.6	154.61	150.55	370	2020	74.6	12.9	875	2.7188	46.2	2.59	91.9	7.5	67.1
STD OREAS45EA Expected								1.6	709	14.3	31.4	260	381	52	400	23.51	10.3	1.73	53	10.7	3.5
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.02	<1	<0.1	<0.1	<10	<2														
BLK	Blank							<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5



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QUALITY CONTROL REPORT

WHI17000173.2

		AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	
		Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg
		ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb
		0.01	0.02	0.02	2	0.01	0.001	0.5	0.5	0.01	0.5	0.001	20	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5
STD OXC129	Standard																				
STD OXC129	Standard																				
STD OXC129	Standard																				
STD OXC129	Standard																				
STD OXC129	Standard																				
STD OXC129	Standard																				
STD OXC129	Standard																				
STD OXC129 Expected																					
STD DS10 Expected		2.62	9	11.65	43	1.0625	0.0765	17.5	54.6	0.775	412	0.0817		1.0259	0.067	0.338	3.32	2.8	5.1	0.29	300
STD OREAS45EA Expected		0.03	0.32	0.26	303	0.036	0.029	7.06	849	0.095	148	0.0984		3.13	0.02	0.053		78	0.072	0.036	10
BLK	Blank																				
BLK	Blank																				
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BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.01	<0.02	<0.02	<2	<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<20	<0.01	<0.001	<0.01	<0.1	0.2	<0.02	<0.02	<5



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		AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250	AQ250
		Se	Te	Ga	Cs	Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.1	0.02	0.1	0.02	0.1	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
STD OXC129	Standard																			
STD OXC129	Standard																			
STD OXC129	Standard																			
STD OXC129	Standard																			
STD OXC129	Standard																			
STD OXC129	Standard																			
STD OXC129	Standard																			
STD OXC129 Expected																				
STD DS10 Expected		2.3	5.01	4.3	2.63	0.08	0.06	1.25	27.7	1.6		2.2	7.77	37	0.23	50	0.63	19.4	110	191
STD OREAS45EA Expected		0.78	0.07	12.4	0.71	0.26	0.68	0.09	7.5	0.83		23	5.09	17.7	0.08		0.41	2.37	66	108
BLK	Blank																			
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BLK	Blank	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2



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PHONE (604) 253-3158

Client: **Zinex Mining Corp.**
Box 997
Whistler British Columbia V0N 1B0 Canada

Submitted By: Janet Miller
Receiving Lab: Canada-Whitehorse
Received: July 11, 2017
Report Date: July 28, 2017
Page: 1 of 4

CERTIFICATE OF ANALYSIS

WHI17000282.2

CLIENT JOB INFORMATION

Project: Adanac
Shipment ID:
P.O. Number
Number of Samples: 88

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Zinex Mining Corp.
Box 997
Whistler British Columbia V0N 1B0
Canada

CC: Barry Hanslit
Caoimhe Peat

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	84	Dry at 60C			WHI
SS80	84	Dry at 60C sieve 100g to -80 mesh			WHI
SVRJT	84	Save all or part of Soil Reject			WHI
AQ252_EXT	81	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	30	Completed	VAN
SHP01	84	Per sample shipping charges for branch shipments			VAN
AQ251_EXT	3	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS

Version 2: AQ251-Ext included for the IS samples.



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: Adanac
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Part: 1 of 6

CERTIFICATE OF ANALYSIS

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Method	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1532414	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1532415	Soil	41.88	48.42	30.18	159.5	198	54.9	12.8	597	3.44	25.7	7.6	0.6	5.0	23.1	1.24	5.16	63	0.22	0.067
1532416	Soil	38.91	63.08	30.39	254.8	633	85.6	13.3	722	2.94	32.5	11.9	1.9	0.6	52.9	2.79	6.43	58	0.52	0.180
1532417	Soil	32.43	49.78	45.71	195.3	225	88.3	15.9	1012	4.00	35.8	6.0	<0.2	5.2	34.7	3.22	5.55	82	0.28	0.084
1532418	Soil	47.00	55.48	41.09	287.0	365	75.3	16.8	964	3.61	34.3	15.2	1.5	3.2	52.1	3.23	5.48	70	0.44	0.107
1532419	Soil	100.86	34.45	95.31	126.6	209	44.2	17.8	950	4.20	22.6	7.5	1.6	16.8	17.6	0.93	5.98	80	0.14	0.045
1532420	Soil	18.96	45.05	32.45	173.8	145	131.5	18.2	600	3.86	26.4	5.7	4.5	4.2	16.0	1.11	3.82	75	0.22	0.054
1532421	Soil	32.63	110.96	64.68	198.5	370	88.1	17.1	1158	3.15	28.7	11.3	1.4	5.2	16.0	2.82	5.11	59	0.19	0.060
1532422	Soil	15.23	57.02	33.85	154.2	140	137.7	17.9	631	3.59	27.7	5.0	1.7	1.9	16.4	1.02	3.59	71	0.20	0.068
1532423	Soil	24.58	32.24	26.47	88.8	275	31.2	12.7	1150	2.26	13.1	4.8	<0.2	0.1	25.5	1.43	2.67	49	0.15	0.152
1532424	Soil	144.01	87.85	77.64	350.4	329	92.0	51.2	2791	4.94	65.5	40.9	3.9	3.3	36.9	1.51	6.70	100	0.32	0.134
1532425	Soil	88.81	136.17	106.56	313.1	385	81.9	15.1	989	3.67	104.0	17.5	3.3	19.9	21.7	1.76	12.66	56	0.23	0.063
1532426	Soil	72.23	127.26	109.90	365.1	474	64.9	12.5	546	4.42	111.0	21.8	3.3	10.7	17.9	1.78	10.62	78	0.22	0.057
1532427	Soil	33.74	156.13	80.15	313.1	846	73.4	11.0	482	3.74	46.1	23.6	2.6	3.9	18.2	1.29	7.15	70	0.19	0.098
1532428	Soil	37.78	93.26	129.68	208.6	2680	108.4	22.6	800	5.29	81.9	13.5	4.2	11.8	18.4	0.95	39.89	95	0.29	0.096
1532429	Soil	122.20	47.25	63.72	88.5	265	22.4	5.2	302	3.97	90.4	5.0	4.9	21.8	8.9	0.38	4.37	80	0.10	0.029
1532430	Soil	68.76	52.64	65.18	118.3	289	22.4	7.6	528	2.82	87.5	10.6	2.1	12.8	10.0	0.52	4.16	44	0.13	0.062
1532431	Soil	103.86	73.10	95.78	147.0	1503	37.4	10.1	604	3.68	108.5	26.0	3.5	9.9	17.8	0.81	4.80	63	0.21	0.071
1532432	Soil	28.64	76.69	33.33	456.8	288	213.7	30.1	961	4.45	42.6	9.1	6.6	7.6	43.1	1.68	5.50	90	0.46	0.101
1532433	Soil	28.23	91.88	8.60	300.0	2127	62.9	12.3	1073	1.04	47.1	77.0	<0.2	0.4	90.6	9.15	1.05	21	0.69	0.207
1532434	Soil	13.37	27.11	15.77	147.8	513	42.7	7.2	323	1.32	11.1	16.0	0.7	<0.1	27.3	1.85	1.88	26	0.20	0.110
1532435	Soil	53.17	124.83	29.51	538.8	1237	107.5	16.2	984	2.66	47.1	69.8	1.9	0.7	52.9	3.42	3.69	49	0.45	0.189
1532436	Soil	64.81	159.91	45.37	252.5	883	36.2	11.1	718	1.54	38.6	76.1	0.8	0.4	43.7	5.05	4.77	27	0.41	0.104
1532437	Soil	66.52	118.55	49.80	482.6	217	96.4	18.2	798	3.51	68.6	31.9	1.4	2.1	31.3	2.42	7.94	58	0.25	0.126
1532438	Soil	58.63	50.10	66.90	184.5	399	72.4	9.4	334	2.60	46.2	8.3	2.1	2.6	14.4	1.28	7.42	47	0.16	0.064
1532439	Soil	60.68	42.28	38.29	184.9	524	54.1	6.8	251	2.12	39.7	8.8	1.7	4.0	18.7	1.71	5.87	42	0.21	0.037
1532440	Soil	169.88	411.45	150.12	701.8	1239	88.9	10.8	639	4.20	145.0	92.7	3.2	6.3	36.6	3.26	12.66	55	0.38	0.138
1532441	Soil	89.97	63.09	103.00	214.0	215	62.7	16.4	1156	5.05	58.2	16.7	6.0	11.7	11.5	1.50	6.26	97	0.10	0.059
1532442	Soil	31.37	61.57	69.39	173.4	200	58.2	10.2	447	2.47	96.2	8.0	5.8	10.6	6.6	0.91	11.31	34	0.10	0.045
1532443	Soil	30.76	67.53	61.98	231.9	292	156.7	20.6	674	3.51	58.9	9.3	7.4	10.4	15.1	1.52	5.72	68	0.19	0.051



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Part: 2 of 6

CERTIFICATE OF ANALYSIS

WHI17000282.2

Method Analyte Unit MDL		AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1
1532414	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1532415	Soil	18.4	64.2	0.60	101.5	0.222	<1	1.88	0.012	0.07	4.3	2.6	0.55	0.07	15	0.3	0.07	9.7	4.63	<0.1
1532416	Soil	16.2	83.7	0.93	143.1	0.051	1	2.32	0.018	0.12	3.1	1.6	0.84	0.17	22	0.3	0.05	8.4	7.67	0.1
1532417	Soil	13.7	119.5	0.89	138.9	0.230	2	1.88	0.013	0.11	4.3	3.8	0.78	0.04	<5	0.4	0.09	10.7	7.73	0.2
1532418	Soil	17.2	88.5	1.06	118.4	0.229	2	1.90	0.020	0.11	3.7	3.0	0.48	0.09	21	0.2	0.11	8.8	7.20	0.2
1532419	Soil	19.5	69.6	0.50	111.0	0.340	1	1.89	0.010	0.07	4.1	2.7	0.56	0.04	27	0.2	0.12	12.6	6.08	0.1
1532420	Soil	14.4	145.1	1.50	137.0	0.173	2	2.33	0.016	0.10	1.7	4.2	0.47	0.05	31	0.7	0.08	10.2	4.83	0.1
1532421	Soil	11.4	89.9	0.95	88.2	0.133	1	1.90	0.015	0.10	2.7	3.2	0.52	0.05	42	0.2	0.12	7.7	5.07	0.1
1532422	Soil	10.9	146.6	1.31	98.6	0.110	1	2.10	0.014	0.09	1.9	3.3	0.35	0.06	20	0.2	0.10	8.1	4.32	<0.1
1532423	Soil	11.7	52.9	0.23	114.0	0.052	<1	1.26	0.009	0.07	1.7	0.7	0.35	0.18	36	0.2	0.05	7.1	5.38	0.1
1532424	Soil	16.2	126.8	0.97	104.0	0.132	2	2.40	0.015	0.11	1.3	4.0	0.41	0.12	24	0.3	0.14	12.8	11.18	<0.1
1532425	Soil	22.4	86.2	0.98	105.3	0.165	2	2.05	0.010	0.11	7.0	3.3	0.52	0.04	<5	<0.1	0.17	8.8	9.18	0.1
1532426	Soil	15.6	85.7	0.82	101.5	0.257	2	2.23	0.010	0.09	2.8	3.6	0.49	0.07	30	0.9	0.20	14.1	6.77	0.2
1532427	Soil	22.9	78.2	0.76	91.5	0.165	3	2.78	0.011	0.09	2.1	3.4	0.46	0.10	52	0.5	0.14	11.2	5.14	<0.1
1532428	Soil	17.1	122.2	1.46	95.3	0.407	2	1.98	0.018	0.10	4.4	3.7	0.49	0.06	26	0.1	0.82	13.3	5.25	0.2
1532429	Soil	16.4	33.4	0.34	76.2	0.161	<1	1.64	0.008	0.10	28.5	2.6	0.71	0.02	32	<0.1	0.45	17.1	4.94	<0.1
1532430	Soil	33.5	32.3	0.43	112.4	0.087	1	2.09	0.009	0.13	29.1	3.0	0.76	0.05	43	<0.1	0.28	9.5	6.74	<0.1
1532431	Soil	66.1	51.1	0.61	131.2	0.108	1	2.47	0.012	0.12	13.0	3.4	0.72	0.08	33	0.6	0.29	11.7	5.47	<0.1
1532432	Soil	18.8	124.0	2.38	262.8	0.360	<1	3.58	0.036	0.25	7.1	6.0	1.38	0.02	16	0.5	0.07	11.2	7.81	0.1
1532433	Soil	46.7	38.7	0.40	93.9	0.022	1	4.42	0.015	0.05	1.3	1.7	0.65	0.26	84	1.2	<0.02	2.9	1.98	0.1
1532434	Soil	11.5	46.0	0.44	75.1	0.019	<1	1.30	0.020	0.06	1.5	0.5	0.30	0.11	32	0.2	0.04	4.2	3.95	<0.1
1532435	Soil	29.9	89.9	1.02	132.6	0.067	2	4.18	0.013	0.10	2.7	2.2	0.44	0.17	33	0.5	0.04	6.5	5.19	0.2
1532436	Soil	29.8	46.1	0.38	55.2	0.034	<1	1.21	0.026	0.07	5.0	1.2	0.37	0.11	32	1.0	0.08	4.8	4.61	0.2
1532437	Soil	22.2	91.1	0.86	128.9	0.071	2	3.09	0.009	0.13	3.0	2.6	0.46	0.09	45	0.2	0.16	9.6	7.29	0.1
1532438	Soil	13.1	97.8	0.81	65.4	0.074	1	1.50	0.012	0.09	5.7	2.3	0.41	0.05	32	0.2	0.16	6.9	4.72	0.1
1532439	Soil	20.8	83.9	0.68	68.4	0.084	1	1.36	0.012	0.07	7.9	2.6	0.47	0.04	23	0.4	0.10	6.7	4.53	<0.1
1532440	Soil	67.4	85.7	0.71	156.1	0.054	3	2.97	0.011	0.13	3.4	3.6	0.85	0.12	34	1.1	0.20	11.4	8.98	<0.1
1532441	Soil	19.3	107.4	0.63	83.0	0.274	2	2.20	0.008	0.09	1.6	3.6	0.68	0.08	49	0.5	0.13	15.0	5.47	<0.1
1532442	Soil	18.6	64.2	0.58	43.7	0.060	1	1.30	0.008	0.08	13.5	2.2	0.50	0.04	26	0.2	0.26	6.0	3.95	<0.1
1532443	Soil	19.3	125.3	1.33	101.1	0.142	4	2.47	0.010	0.09	3.5	4.3	0.54	0.04	36	0.3	0.15	8.4	5.36	<0.1



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Part: 3 of 6

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	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Mo	Cu	Pb	Zn	Ag	Ni	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.01	0.01	0.01	0.1	2	0.1	0.1
1532414	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	34.70	67.54	22.54	552.5	729	165.2	11.2
1532415	Soil	5.79	26.6	2.6	<0.05	6.7	25.00	39.4	0.09	<1	2.6	17.7	14	<2							
1532416	Soil	2.62	40.6	4.4	<0.05	1.4	26.89	27.8	0.09	<1	5.1	27.2	<10	<2							
1532417	Soil	4.34	57.5	4.3	<0.05	3.4	11.34	32.1	0.11	<1	1.6	18.6	<10	<2							
1532418	Soil	5.13	32.0	4.7	<0.05	4.4	22.54	34.2	0.07	<1	2.8	27.0	<10	5							
1532419	Soil	8.66	52.9	3.8	<0.05	7.3	23.58	46.3	0.08	1	1.7	15.5	<10	<2							
1532420	Soil	4.44	32.2	3.8	<0.05	3.9	17.17	34.7	0.08	<1	1.1	21.1	<10	<2							
1532421	Soil	3.56	29.8	3.0	<0.05	3.0	13.88	26.9	0.13	<1	1.4	16.0	18	<2							
1532422	Soil	3.31	32.6	2.7	<0.05	2.2	10.84	26.7	0.07	<1	1.3	17.4	<10	<2							
1532423	Soil	1.82	32.9	2.6	<0.05	0.6	10.24	24.4	0.06	<1	0.5	4.3	16	<2							
1532424	Soil	2.77	20.8	3.6	<0.05	2.7	34.12	37.4	0.12	<1	3.5	24.7	<10	<2							
1532425	Soil	5.38	33.0	4.8	<0.05	4.0	30.23	54.3	0.23	<1	1.7	20.3	<10	<2							
1532426	Soil	6.82	23.6	4.2	<0.05	9.1	27.37	36.6	0.17	<1	2.1	24.5	<10	2							
1532427	Soil	6.86	22.8	2.9	<0.05	7.4	32.55	47.7	0.17	<1	2.4	18.4	<10	<2							
1532428	Soil	8.57	25.4	4.9	<0.05	12.0	21.28	41.2	0.13	<1	1.9	16.9	<10	<2							
1532429	Soil	9.97	33.8	7.2	<0.05	5.9	9.49	42.7	0.07	<1	1.2	15.9	<10	<2							
1532430	Soil	4.79	41.8	5.9	<0.05	1.7	31.66	76.1	0.12	1	2.5	21.4	<10	<2							
1532431	Soil	5.63	28.0	6.0	<0.05	3.0	98.18	116.0	0.11	2	4.8	25.1	<10	<2							
1532432	Soil	3.58	52.6	4.8	<0.05	14.6	23.70	59.5	0.13	1	6.3	48.0	<10	4							
1532433	Soil	1.35	8.1	0.8	<0.05	1.2	114.55	33.3	0.02	<1	19.2	13.9	10	<2							
1532434	Soil	1.07	14.7	1.8	<0.05	0.4	17.27	16.5	0.04	<1	3.4	13.3	<10	3							
1532435	Soil	2.60	20.2	2.5	<0.05	1.2	74.99	56.6	0.06	3	8.2	30.6	<10	<2							
1532436	Soil	1.40	23.5	2.2	<0.05	0.7	110.95	33.8	0.04	2	6.5	10.2	<10	<2							
1532437	Soil	5.09	38.4	3.2	<0.05	2.1	74.10	50.2	0.13	<1	5.2	29.6	<10	3							
1532438	Soil	2.89	31.1	2.7	<0.05	1.5	12.44	28.9	0.09	1	1.2	14.9	<10	2							
1532439	Soil	2.99	27.4	3.3	<0.05	1.8	36.45	32.8	0.09	1	1.3	16.6	<10	<2							
1532440	Soil	5.66	29.6	5.4	<0.05	1.9	189.67	101.3	0.72	1	5.2	28.1	<10	<2							
1532441	Soil	7.21	30.7	4.7	<0.05	8.0	19.81	41.1	0.19	<1	1.6	14.3	<10	<2							
1532442	Soil	4.32	23.7	5.1	<0.05	1.5	14.47	41.8	0.18	<1	1.1	18.8	<10	<2							
1532443	Soil	3.84	27.9	3.8	<0.05	3.3	21.74	43.5	0.12	<1	1.3	24.6	<10	<2							



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	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B
		ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm
		1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	0.5	0.5	0.01	0.5	0.001	1
1532414	Soil	751	2.36	46.4	10.0	4.4	0.6	107.9	6.82	1.83	6.28	45	0.65	0.160	19.7	86.2	0.99	264.2	0.089	3
1532415	Soil																			
1532416	Soil																			
1532417	Soil																			
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1532443	Soil																			



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	Method	Analyte	Unit	MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251				
					Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	
					%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
					0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	
1532414	Soil		0.018	0.14	6.8	2.8	1.34	0.21	43	2.0	0.11	6.2	7.40	0.2	0.03	2.98	29.4	4.2	<0.05	1.6	31.46	26.8			
1532415	Soil																								
1532416	Soil																								
1532417	Soil																								
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	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		In	Re	Be	Li	Pd	Pt
		ppm	ppb	ppm	ppm	ppb	ppb
		0.02	1	0.1	0.1	10	2
1532414	Soil	0.11	<1	10.2	38.9	<10	<2
1532415	Soil						
1532416	Soil						
1532417	Soil						
1532418	Soil						
1532419	Soil						
1532420	Soil						
1532421	Soil						
1532422	Soil						
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1532443	Soil						



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	Method	Analyte	Unit	MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
					ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
					0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
1532444	Soil																								
1532445	Soil																								
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	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1
1532444	Soil	21.1	104.4	0.85	105.6	0.138	3	2.13	0.009	0.12	2.3	3.7	0.56	0.09	33	0.3	0.15	10.3	7.40	<0.1
1532445	Soil	20.0	71.0	0.64	83.8	0.089	2	1.56	0.010	0.11	7.8	2.4	0.53	0.06	26	0.4	0.24	6.5	4.76	<0.1
1532446	Soil	18.2	117.9	1.32	104.3	0.125	3	2.00	0.014	0.11	3.8	4.0	0.47	0.05	22	0.3	0.15	6.9	5.69	<0.1
1532447	Soil	10.8	106.8	0.79	104.9	0.187	2	1.74	0.009	0.11	2.4	3.3	0.56	0.08	59	0.3	0.15	12.1	4.90	<0.1
1532448	Soil	11.6	178.5	1.44	87.2	0.115	2	2.07	0.012	0.08	1.7	4.0	0.31	0.06	34	0.3	0.12	8.7	3.73	<0.1
1532449	Soil	13.5	123.7	1.05	83.3	0.150	2	2.09	0.011	0.12	3.9	3.6	0.56	0.05	47	0.3	0.22	9.5	5.89	<0.1
1532450	Soil	13.1	120.6	0.99	78.6	0.135	2	2.00	0.011	0.11	4.2	3.5	0.51	0.06	43	0.4	0.20	8.8	5.42	<0.1
1532451	Soil	31.2	18.4	0.26	84.9	0.055	2	1.72	0.009	0.11	27.7	1.4	0.44	0.05	44	0.6	0.15	5.8	3.46	<0.1
1532452	Soil	38.5	44.7	0.41	117.4	0.119	3	2.13	0.009	0.10	12.5	2.0	0.71	0.10	61	0.3	0.21	12.0	7.21	<0.1
1532453	Soil	28.4	33.7	0.50	128.8	0.096	2	2.13	0.010	0.13	22.3	3.2	0.69	0.03	62	0.2	0.28	7.4	5.16	<0.1
1532454	Soil	37.4	37.1	0.49	123.2	0.101	2	1.83	0.010	0.12	15.9	2.4	0.57	0.03	27	0.3	0.22	6.7	4.24	<0.1
1532455	Soil	41.0	43.7	0.39	119.6	0.126	2	2.21	0.008	0.11	20.9	2.5	0.52	0.09	60	0.9	0.20	9.8	5.23	<0.1
1532456	Soil	23.7	27.6	0.31	140.3	0.180	3	1.44	0.010	0.15	19.3	2.6	0.67	0.05	48	0.3	0.32	10.8	8.32	0.1
1532457	Soil	20.3	20.7	0.50	208.9	0.123	<1	2.34	0.015	0.25	4.4	2.4	1.05	0.04	25	0.2	0.18	7.5	6.18	<0.1
1532458	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1532459	Soil	23.2	27.6	0.32	89.7	0.107	2	1.43	0.007	0.13	7.8	2.5	0.68	0.04	36	<0.1	0.32	8.3	6.99	<0.1
1532460	Soil	23.5	24.7	0.24	133.7	0.065	2	1.23	0.007	0.08	7.9	1.8	0.74	0.05	39	<0.1	0.33	7.6	5.50	<0.1
1532461	Soil	20.2	20.9	0.19	88.6	0.051	3	0.94	0.009	0.08	5.1	1.4	0.48	0.06	38	0.2	0.41	5.4	3.70	0.1
1532462	Soil	27.1	32.4	0.50	151.8	0.143	2	2.05	0.012	0.14	11.0	2.6	0.80	0.07	53	0.4	0.22	8.1	5.42	<0.1
1532463	Soil	16.3	21.8	0.24	165.6	0.079	2	1.92	0.010	0.09	5.1	1.0	0.64	0.11	67	0.1	0.18	8.7	4.38	<0.1
1532464	Soil	23.4	26.4	0.37	193.3	0.120	1	2.06	0.010	0.14	5.4	2.0	0.59	0.06	37	0.5	0.16	9.7	5.38	<0.1
1532465	Soil	33.9	21.2	0.54	464.1	0.160	1	2.31	0.017	0.36	10.5	3.2	0.96	<0.02	12	<0.1	0.17	7.9	6.36	0.1
1532466	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1532467	Soil	35.8	13.3	0.32	220.1	0.100	1	1.69	0.010	0.19	24.7	2.0	0.60	0.02	30	<0.1	0.14	5.8	4.43	<0.1
1532468	Soil	42.0	10.3	0.22	122.1	0.062	1	1.11	0.009	0.12	38.6	2.1	0.45	<0.02	<5	<0.1	0.09	4.6	3.86	<0.1
1532469	Soil	43.0	13.5	0.22	113.3	0.052	<1	1.06	0.010	0.10	33.0	2.0	0.43	<0.02	9	<0.1	0.11	5.2	3.83	<0.1
1532470	Soil	21.8	40.1	0.34	81.7	0.099	1	1.87	0.009	0.09	18.1	1.9	0.67	0.07	39	0.1	0.22	10.2	5.51	<0.1
1532471	Soil	43.6	16.2	0.20	42.3	0.061	<1	1.58	0.007	0.09	76.5	2.8	0.34	<0.02	38	<0.1	0.11	5.6	3.54	<0.1
1532472	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1532473	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.



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	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Mo	Cu	Pb	Zn	Ag	Ni	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.01	0.01	0.01	0.1	2	0.1	0.1
1532444	Soil	2.85	33.0	4.6	<0.05	2.4	36.53	60.3	0.14	<1	2.4	26.1	<10	<2							
1532445	Soil	4.00	37.8	3.7	<0.05	1.8	18.49	47.1	0.17	<1	1.1	15.1	<10	<2							
1532446	Soil	2.88	30.0	3.5	<0.05	2.5	21.34	60.8	0.15	<1	1.7	20.1	<10	<2							
1532447	Soil	6.12	52.5	4.4	<0.05	3.0	5.92	26.7	0.24	<1	0.6	14.6	<10	<2							
1532448	Soil	3.05	16.8	2.7	<0.05	1.9	9.56	24.4	0.09	<1	1.1	18.0	<10	<2							
1532449	Soil	3.69	37.9	4.5	<0.05	2.7	8.96	31.7	0.15	<1	1.1	20.7	<10	<2							
1532450	Soil	3.89	34.9	4.4	<0.05	2.4	8.62	30.5	0.14	<1	1.1	20.1	<10	<2							
1532451	Soil	3.19	27.4	3.4	<0.05	0.8	25.79	74.4	0.05	<1	2.3	15.5	<10	<2							
1532452	Soil	4.13	38.9	11.5	<0.05	1.5	32.60	66.4	0.11	<1	2.2	17.7	<10	<2							
1532453	Soil	4.90	34.2	5.3	<0.05	3.4	23.65	83.3	0.09	<1	2.6	31.5	<10	<2							
1532454	Soil	3.81	28.8	3.7	<0.05	2.3	34.42	109.6	0.07	<1	2.4	22.5	<10	<2							
1532455	Soil	4.38	38.3	5.1	<0.05	1.8	42.83	99.5	0.08	<1	2.6	15.6	<10	<2							
1532456	Soil	7.24	96.4	9.5	<0.05	2.6	22.57	58.0	0.06	<1	1.8	20.5	<10	<2							
1532457	Soil	2.82	50.6	5.8	<0.05	1.5	18.45	51.4	0.09	<1	1.9	24.9	<10	<2							
1532458	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	16.08	45.00	89.94	138.4	329	21.7	7.9
1532459	Soil	5.38	62.2	6.2	<0.05	1.9	21.93	59.7	0.07	<1	1.7	22.3	<10	<2							
1532460	Soil	3.15	33.5	7.3	<0.05	1.2	23.89	71.8	0.09	<1	1.3	15.4	<10	<2							
1532461	Soil	2.00	28.0	5.8	<0.05	1.4	15.94	46.9	0.09	<1	1.3	9.7	<10	<2							
1532462	Soil	4.49	36.2	6.3	<0.05	2.7	23.99	69.3	0.09	<1	1.8	21.5	<10	<2							
1532463	Soil	2.53	33.0	7.6	<0.05	0.6	10.04	39.6	0.08	<1	1.5	11.9	<10	<2							
1532464	Soil	3.66	54.0	8.3	<0.05	1.7	21.27	41.9	0.09	<1	1.4	17.6	<10	<2							
1532465	Soil	2.50	56.4	5.7	<0.05	1.9	33.68	75.3	0.09	<1	3.2	40.5	<10	<2							
1532466	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	30.18	38.90	47.29	82.9	2443	17.9	5.3
1532467	Soil	3.37	41.5	4.3	<0.05	1.4	28.70	68.0	0.05	<1	2.9	29.7	<10	<2							
1532468	Soil	3.04	26.1	3.8	<0.05	1.4	28.15	93.8	0.05	<1	2.2	17.8	<10	<2							
1532469	Soil	3.45	26.2	3.3	<0.05	1.0	32.22	84.0	0.03	<1	2.2	16.2	<10	<2							
1532470	Soil	4.00	34.7	6.2	<0.05	1.3	14.33	51.2	0.07	<1	1.7	17.5	<10	<2							
1532471	Soil	6.59	24.0	2.8	<0.05	2.1	25.91	102.8	0.04	<1	2.3	16.3	<10	<2							
1532472	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.							
1532473	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.							



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	Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
			Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al
			ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%
			1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01
1532444	Soil																					
1532445	Soil																					
1532446	Soil																					
1532447	Soil																					
1532448	Soil																					
1532449	Soil																					
1532450	Soil																					
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1532456	Soil																					
1532457	Soil																					
1532458	Soil	825	3.02	93.5	12.1	4.1	7.3	12.2	1.61	5.58	7.39	50	0.13	0.085	21.7	36.7	0.30	84.6	0.096	2	1.38	
1532459	Soil																					
1532460	Soil																					
1532461	Soil																					
1532462	Soil																					
1532463	Soil																					
1532464	Soil																					
1532465	Soil																					
1532466	Soil	421	2.20	57.0	20.2	5.8	2.0	21.9	1.05	3.04	5.36	41	0.21	0.131	36.9	26.5	0.36	177.6	0.059	<1	2.65	
1532467	Soil																					
1532468	Soil																					
1532469	Soil																					
1532470	Soil																					
1532471	Soil																					
1532472	Soil																					
1532473	Soil																					



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CERTIFICATE OF ANALYSIS

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	Method	Analyte	Unit	MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251				
					Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	
					%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
					0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.1	0.02	0.1	0.1	0.05	0.1	0.01	0.1
1532444	Soil																								
1532445	Soil																								
1532446	Soil																								
1532447	Soil																								
1532448	Soil																								
1532449	Soil																								
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1532471	Soil																								
1532472	Soil																								
1532473	Soil																								



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	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		In	Re	Be	Li	Pd	Pt
		ppm	ppb	ppm	ppm	ppb	ppb
		0.02	1	0.1	0.1	10	2
1532444	Soil						
1532445	Soil						
1532446	Soil						
1532447	Soil						
1532448	Soil						
1532449	Soil						
1532450	Soil						
1532451	Soil						
1532452	Soil						
1532453	Soil						
1532454	Soil						
1532455	Soil						
1532456	Soil						
1532457	Soil						
1532458	Soil	0.08	<1	1.6	16.2	<10	<2
1532459	Soil						
1532460	Soil						
1532461	Soil						
1532462	Soil						
1532463	Soil						
1532464	Soil						
1532465	Soil						
1532466	Soil	0.05	<1	3.3	18.2	<10	<2
1532467	Soil						
1532468	Soil						
1532469	Soil						
1532470	Soil						
1532471	Soil						
1532472	Soil						
1532473	Soil						



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Method	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
1532474	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1532475	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1532476	Soil	46.82	33.10	35.04	112.9	140	7.7	5.1	674	2.06	56.0	3.2	3.0	6.6	13.3	0.43	5.25	9.18	59	0.10
1532477	Soil	24.60	48.16	65.44	157.3	268	18.8	7.6	555	2.99	104.1	8.9	4.6	5.0	12.8	0.80	4.54	10.51	54	0.10
1532478	Soil	5.75	29.71	34.51	77.3	294	5.6	3.3	182	1.48	107.0	6.6	4.2	4.5	10.3	0.78	4.86	4.84	23	0.12
1532479	Soil	14.54	64.47	77.01	149.0	266	24.8	12.3	662	3.41	141.1	6.9	10.3	20.2	28.2	0.72	6.61	10.72	67	0.29
1532480	Soil	6.42	32.98	55.99	92.6	243	9.0	5.9	331	2.54	143.1	5.7	11.1	3.8	16.3	0.24	5.49	7.57	47	0.21
1532481	Soil	23.00	58.27	78.96	130.9	236	32.3	8.4	460	3.41	125.9	7.3	6.9	12.0	11.2	0.62	7.59	10.15	63	0.11
1532482	Soil	15.29	54.95	70.07	122.2	241	19.4	8.1	496	3.50	136.8	5.6	7.7	10.0	16.7	0.25	9.30	10.42	72	0.14
1532483	Soil	15.36	49.54	66.57	127.8	169	29.8	9.2	503	3.62	88.9	7.0	4.5	5.7	12.0	0.41	5.91	7.49	68	0.15
1532484	Soil	10.72	63.47	78.94	169.0	278	27.1	9.9	581	3.37	135.6	7.2	12.8	9.8	21.7	0.60	7.57	11.50	66	0.26
1532485	Soil	16.71	72.36	93.02	157.0	688	20.0	8.6	1022	3.05	142.4	20.8	7.8	17.2	17.0	0.75	9.98	10.39	47	0.15
1532486	Soil	6.03	73.05	80.90	126.2	860	20.7	8.5	431	3.11	100.5	9.5	10.5	10.7	29.0	0.65	7.95	10.99	58	0.34
1532487	Soil	5.72	33.60	19.45	45.7	227	8.8	10.9	1181	2.38	18.1	1.3	6.0	0.3	24.2	0.65	2.41	6.45	58	0.18
1532488	Soil	4.71	107.88	45.95	119.1	217	20.0	16.4	771	4.46	69.9	4.1	19.9	4.4	38.9	0.66	5.31	15.28	90	0.43
1532489	Soil	13.76	90.14	88.77	127.2	1108	55.1	14.2	583	3.48	119.5	8.2	8.0	14.4	15.4	0.56	6.89	7.49	64	0.18
1532490	Soil	9.06	27.14	68.21	75.9	208	7.4	4.5	559	1.92	85.4	6.5	2.9	3.0	9.6	0.37	7.20	5.19	32	0.06
1532491	Soil	23.47	52.17	94.87	164.6	544	16.8	9.7	1321	3.01	126.3	17.8	5.7	45.3	12.7	1.17	11.85	15.46	44	0.12
1532492	Soil	8.93	36.12	62.60	74.9	349	11.0	4.8	320	1.69	67.8	8.7	5.1	3.7	15.4	0.54	4.89	5.69	32	0.13
1532493	Soil	11.76	44.48	73.32	100.0	446	6.0	5.3	538	2.11	93.9	11.5	4.2	15.1	17.2	0.29	7.58	7.26	32	0.17
1532494	Soil	17.52	38.02	117.22	85.8	385	4.5	4.1	436	1.87	202.0	10.5	6.5	16.3	11.0	0.43	11.35	6.41	29	0.09
1532495	Soil	25.25	33.10	110.45	59.4	254	3.5	2.5	145	1.79	216.6	10.8	6.9	8.2	9.8	0.24	11.81	5.89	29	0.06
1532496	Soil	15.21	44.32	66.58	94.7	442	16.8	6.8	286	2.90	135.5	7.8	6.9	22.7	13.6	0.36	5.83	9.65	58	0.20
1532497	Soil	31.42	47.07	75.72	94.4	466	13.6	5.6	466	2.71	94.4	6.8	7.4	7.1	12.9	0.76	6.24	9.05	56	0.10
1532498	Soil	54.80	35.87	61.76	66.3	792	5.8	3.1	289	2.25	77.8	3.6	6.7	13.2	11.5	0.46	7.03	8.93	54	0.07
1532499	Soil	41.76	88.63	125.00	174.8	855	30.0	10.9	588	3.26	194.2	11.1	9.1	30.7	17.6	0.65	9.22	14.81	51	0.24
1532500	Soil	42.52	89.86	120.83	165.8	916	35.0	11.4	631	3.20	180.8	10.6	7.9	27.9	16.9	0.68	8.21	14.47	52	0.22
1532729	Silt	2.22	22.20	107.76	384.9	497	16.5	5.0	504	1.85	25.5	65.4	3.3	17.4	21.0	8.14	0.90	1.24	23	0.37



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Method	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
1532474	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1532475	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1532476	Soil	10.9	17.7	0.21	122.3	0.169	1	0.85	0.006	0.19	21.1	1.7	0.71	0.04	34	<0.1	0.34	8.2	9.27	<0.1
1532477	Soil	18.2	33.8	0.42	133.0	0.085	4	2.27	0.007	0.14	13.3	1.9	0.86	0.09	76	0.7	0.30	8.7	6.93	<0.1
1532478	Soil	14.1	10.7	0.21	106.4	0.037	2	0.89	0.006	0.13	9.7	1.0	0.67	0.05	31	0.2	0.31	4.4	5.43	<0.1
1532479	Soil	19.3	41.9	0.78	309.1	0.152	3	2.32	0.012	0.26	11.0	3.5	1.47	0.04	26	<0.1	0.55	9.1	10.17	<0.1
1532480	Soil	14.2	19.4	0.41	206.8	0.064	3	1.76	0.009	0.18	10.7	1.7	1.34	0.07	52	0.7	0.47	7.3	8.40	<0.1
1532481	Soil	14.5	50.8	0.58	138.1	0.109	3	1.87	0.007	0.13	7.8	2.5	1.16	0.05	43	0.2	0.41	10.4	6.90	<0.1
1532482	Soil	12.2	35.0	0.57	231.8	0.113	1	1.94	0.009	0.17	8.8	2.9	1.24	0.05	41	0.2	0.62	11.7	7.52	<0.1
1532483	Soil	13.4	58.6	0.66	174.5	0.102	3	2.17	0.009	0.16	4.9	2.5	1.26	0.08	54	0.4	0.35	11.4	6.32	<0.1
1532484	Soil	19.0	46.5	0.77	283.5	0.107	3	2.49	0.011	0.28	10.9	3.2	1.90	0.05	35	0.3	0.72	9.5	12.78	<0.1
1532485	Soil	46.4	28.4	0.41	120.2	0.073	2	1.57	0.007	0.14	8.4	2.4	0.98	0.06	63	0.7	0.45	8.5	7.67	<0.1
1532486	Soil	27.7	33.1	0.60	208.6	0.092	2	2.01	0.010	0.14	8.9	3.0	1.11	0.05	55	0.5	0.52	8.1	7.19	<0.1
1532487	Soil	7.6	19.8	0.32	281.1	0.043	2	1.25	0.008	0.19	11.8	1.2	1.36	0.12	61	0.3	0.55	7.4	11.81	<0.1
1532488	Soil	19.3	35.7	1.06	316.1	0.145	3	3.20	0.010	0.35	28.8	6.1	2.04	0.08	39	0.4	0.94	10.7	15.97	<0.1
1532489	Soil	29.9	57.6	0.75	149.9	0.107	2	2.52	0.009	0.12	8.9	4.6	0.99	0.03	37	0.5	0.36	7.6	6.22	<0.1
1532490	Soil	10.9	15.3	0.17	67.1	0.048	2	0.88	0.009	0.08	8.4	1.0	0.72	0.06	33	<0.1	0.32	5.7	5.86	<0.1
1532491	Soil	56.6	25.4	0.35	112.4	0.082	1	1.75	0.005	0.12	10.9	2.8	1.05	0.03	73	0.8	0.62	8.3	7.77	<0.1
1532492	Soil	31.0	17.1	0.26	102.7	0.052	2	1.35	0.015	0.08	5.5	1.4	0.82	0.06	40	0.6	0.27	5.3	4.61	<0.1
1532493	Soil	18.3	12.5	0.27	135.9	0.061	2	1.07	0.005	0.20	13.0	1.7	0.99	0.04	38	0.3	0.39	5.1	6.11	<0.1
1532494	Soil	18.7	10.0	0.18	93.8	0.060	1	0.83	0.005	0.13	13.8	1.4	0.81	0.03	45	0.2	0.34	4.8	6.06	<0.1
1532495	Soil	17.2	8.8	0.10	79.2	0.048	1	0.77	0.004	0.09	13.3	1.1	0.71	0.04	49	0.4	0.29	4.7	6.12	<0.1
1532496	Soil	21.9	30.9	0.47	123.4	0.124	2	2.30	0.009	0.21	11.9	2.7	0.93	0.03	81	0.6	0.41	8.9	7.51	<0.1
1532497	Soil	14.0	22.6	0.25	94.1	0.099	2	1.41	0.006	0.09	10.7	1.9	0.73	0.05	38	0.6	0.38	8.2	6.57	<0.1
1532498	Soil	9.2	12.0	0.16	80.9	0.145	2	1.01	0.005	0.09	15.1	1.5	0.80	0.02	33	0.2	0.41	8.6	5.77	<0.1
1532499	Soil	25.8	36.1	0.60	157.8	0.105	2	2.12	0.009	0.24	20.7	3.4	1.05	0.03	41	0.4	0.51	7.6	7.65	0.1
1532500	Soil	25.6	39.0	0.61	144.4	0.104	2	2.12	0.009	0.21	20.7	3.4	1.01	0.03	34	0.4	0.50	7.7	7.11	<0.1
1532729	Silt	63.6	22.7	0.27	64.0	0.059	1	1.12	0.008	0.14	1.0	2.9	0.52	0.04	21	1.3	<0.02	5.7	4.97	0.1



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Mo	Cu	Pb	Zn	Ag	Ni	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.01	0.01	0.01	0.1	2	0.1	0.1
1532474	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.							
1532475	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.							
1532476	Soil	5.00	104.0	14.8	<0.05	2.4	6.55	28.1	0.06	<1	0.8	8.1	<10	<2							
1532477	Soil	5.15	59.8	6.6	<0.05	1.5	15.84	60.0	0.12	<1	2.2	25.0	<10	<2							
1532478	Soil	2.56	45.6	4.5	<0.05	0.5	17.68	46.4	0.05	<1	1.2	16.5	<10	<2							
1532479	Soil	3.10	87.2	8.3	<0.05	2.5	19.28	68.8	0.09	<1	1.6	36.2	<10	<2							
1532480	Soil	3.14	62.6	7.2	<0.05	0.7	14.46	36.3	0.07	<1	1.5	21.8	<10	<2							
1532481	Soil	3.97	52.0	8.5	<0.05	1.9	12.78	47.3	0.12	<1	1.1	20.2	<10	<2							
1532482	Soil	3.76	50.4	11.3	<0.05	1.7	12.96	36.1	0.09	<1	1.2	24.2	<10	<2							
1532483	Soil	3.69	40.6	8.4	<0.05	1.5	14.13	37.7	0.07	<1	1.5	23.3	<10	<2							
1532484	Soil	2.65	81.3	9.8	<0.05	1.3	20.00	46.1	0.13	<1	2.4	31.2	<10	<2							
1532485	Soil	3.96	66.5	5.5	<0.05	1.4	59.96	133.8	0.08	1	1.5	25.7	<10	<2							
1532486	Soil	3.10	44.9	6.9	<0.05	1.3	35.31	80.2	0.07	<1	2.2	31.3	<10	<2							
1532487	Soil	1.25	124.6	6.6	<0.05	0.2	3.51	16.4	0.06	<1	0.7	10.0	<10	<2							
1532488	Soil	2.24	100.1	9.0	<0.05	0.9	14.89	60.5	0.10	<1	3.6	54.3	<10	<2							
1532489	Soil	2.66	31.1	4.0	<0.05	2.3	35.40	70.9	0.06	1	1.8	22.1	<10	<2							
1532490	Soil	1.78	44.7	3.3	<0.05	0.7	10.66	30.2	0.03	<1	0.8	6.5	<10	<2							
1532491	Soil	4.08	69.1	6.1	<0.05	2.0	47.39	198.7	0.07	<1	1.4	22.4	<10	<2							
1532492	Soil	2.30	31.3	3.9	<0.05	1.0	49.12	59.9	0.05	<1	1.8	11.7	<10	<2							
1532493	Soil	2.91	64.8	4.2	<0.05	1.0	26.56	63.7	0.05	<1	1.4	14.4	<10	<2							
1532494	Soil	2.62	61.1	4.5	<0.05	1.1	20.39	47.2	0.04	<1	0.8	8.8	<10	<2							
1532495	Soil	3.82	43.6	5.9	<0.05	1.1	16.24	41.1	0.04	<1	1.0	3.9	<10	<2							
1532496	Soil	4.80	63.5	7.6	<0.05	2.4	20.68	56.8	0.08	<1	2.1	25.9	<10	<2							
1532497	Soil	3.96	50.6	8.1	<0.05	1.4	15.10	34.6	0.07	<1	1.0	11.1	<10	<2							
1532498	Soil	4.75	54.3	11.9	<0.05	2.3	6.98	23.0	0.04	<1	0.8	6.5	11	<2							
1532499	Soil	3.63	61.5	5.8	<0.05	2.4	25.36	97.5	0.12	<1	2.5	26.4	<10	<2							
1532500	Soil	3.54	56.9	5.7	<0.05	2.3	25.69	91.1	0.10	2	2.7	26.5	<10	<2							
1532729	Silt	3.52	45.7	4.1	<0.05	1.3	50.05	109.0	0.11	<1	6.7	23.8	<10	<2							



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QUALITY CONTROL REPORT

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Method Analyte Unit MDL		AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
Pulp Duplicates																				
1532442	Soil	31.37	61.57	69.39	173.4	200	58.2	10.2	447	2.47	96.2	8.0	5.8	10.6	6.6	0.91	3.14	11.31	34	0.10
REP 1532442	QC	31.48	65.67	71.66	176.3	214	57.6	10.3	460	2.58	97.0	8.3	8.6	10.4	6.9	0.98	3.26	11.50	36	0.10
1532477	Soil	24.60	48.16	65.44	157.3	268	18.8	7.6	555	2.99	104.1	8.9	4.6	5.0	12.8	0.80	4.54	10.51	54	0.10
REP 1532477	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
Reference Materials																				
STD DS10	Standard	14.39	154.89	151.81	358.9	1852	77.9	13.2	870	2.81	45.2	2.8	68.9	7.9	69.0	2.66	9.51	12.24	43	1.06
STD DS10	Standard	15.63	155.28	152.46	372.0	1783	75.1	12.6	914	2.79	45.1	2.9	81.9	8.2	75.3	2.41	9.07	13.37	43	1.10
STD DS10	Standard	15.15	158.26	152.53	366.6	1848	77.1	13.1	884	2.82	45.6	3.0	79.0	8.7	75.5	2.67	9.63	13.07	44	1.10
STD DS10	Standard																			
STD OXC129	Standard	1.32	28.25	6.23	40.7	18	81.9	20.9	407	3.04	0.6	0.7	196.3	1.8	181.7	0.03	0.03	0.03	50	0.64
STD OXC129	Standard	1.28	27.34	5.98	39.0	18	81.7	20.7	453	3.02	0.6	0.7	197.9	1.7	201.9	0.01	0.03	0.02	51	0.75
STD OXC129	Standard	1.18	29.38	6.45	41.3	8	79.5	20.2	418	3.01	0.6	0.7	204.1	2.0	188.8	<0.01	<0.02	<0.02	51	0.72
STD OXC129	Standard																			
STD DS10 Expected		15.1	154.61	150.55	370	2020	74.6	12.9	875	2.7188	46.2	2.59	91.9	7.5	67.1	2.62	9	11.65	43	1.0625
STD OXC129 Expected		1.3	28	6.3	42.9	28	79.5	20.3	421	3.065	0.6	0.72	195	1.9		0.03	0.04		51	0.665
BLK	Blank	<0.01	<0.01	<0.01	<0.1	2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	0.03	<2	<0.01
BLK	Blank	<0.01	<0.01	<0.01	<0.1	3	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01
BLK	Blank																			



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QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
Pulp Duplicates																					
1532442	Soil	18.6	64.2	0.58	43.7	0.060	1	1.30	0.008	0.08	13.5	2.2	0.50	0.04	26	0.2	0.26	6.0	3.95	<0.1	0.03
REP 1532442	QC	20.8	66.3	0.59	45.3	0.072	4	1.33	0.008	0.08	16.8	2.5	0.54	0.04	29	<0.1	0.23	6.0	4.25	<0.1	0.03
1532477	Soil	18.2	33.8	0.42	133.0	0.085	4	2.27	0.007	0.14	13.3	1.9	0.86	0.09	76	0.7	0.30	8.7	6.93	<0.1	0.03
REP 1532477	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
Reference Materials																					
STD DS10	Standard	18.0	57.5	0.77	346.2	0.085	9	1.05	0.071	0.34	3.1	3.2	5.14	0.27	274	2.4	5.01	4.2	2.66	<0.1	0.08
STD DS10	Standard	19.8	56.7	0.79	367.5	0.089	7	1.13	0.074	0.35	3.1	3.1	5.20	0.27	267	2.3	4.82	4.7	2.74	0.1	0.06
STD DS10	Standard	21.2	57.5	0.80	376.2	0.098	7	1.14	0.075	0.35	3.3	3.3	5.03	0.27	306	2.1	4.82	4.7	2.74	<0.1	0.07
STD DS10	Standard																				
STD OXC129	Standard	12.6	53.1	1.52	49.8	0.419	3	1.52	0.588	0.37	<0.1	1.5	0.03	<0.02	<5	<0.1	0.02	5.2	0.16	0.1	0.28
STD OXC129	Standard	12.5	53.1	1.56	49.3	0.416	<1	1.62	0.593	0.36	0.1	0.9	0.02	<0.02	<5	<0.1	<0.02	6.1	0.16	0.1	0.29
STD OXC129	Standard	13.5	54.3	1.56	51.3	0.404	1	1.59	0.608	0.36	<0.1	1.1	0.03	<0.02	<5	<0.1	<0.02	5.6	0.14	<0.1	0.25
STD OXC129	Standard																				
STD DS10 Expected		17.5	54.6	0.775	359	0.0817		1.0755	0.067	0.338	3.32	3	5.1	0.29	300	2.3	5.01	4.5	2.63	0.08	0.06
STD OXC129 Expected		13	52	1.545	50	0.4	1	1.58	0.6	0.37	0.08	1.1	0.03					5.6	0.16		0.24
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank																				



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	Method Analyte Unit MDL	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ252	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	Mo	Cu	Pb	Zn	Ag	Ni	Co	
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	ppm	ppm	ppm	ppm	ppb	ppm	ppm	
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	0.01	0.01	0.01	0.1	2	0.1	0.1	
Pulp Duplicates																						
1532442	Soil	4.32	23.7	5.1	<0.05	1.5	14.47	41.8	0.18	<1	1.1	18.8	<10	<2								
REP 1532442	QC	4.04	25.8	5.3	<0.05	1.4	15.01	47.0	0.15	<1	0.9	19.8	<10	<2								
1532477	Soil	5.15	59.8	6.6	<0.05	1.5	15.84	60.0	0.12	<1	2.2	25.0	<10	<2								
REP 1532477	QC	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.								
Reference Materials																						
STD DS10	Standard	1.51	28.4	1.7	<0.05	2.6	7.91	35.8	0.26	44	0.9	19.9	107	180								
STD DS10	Standard	1.69	29.9	1.7	<0.05	2.8	8.92	41.0	0.27	51	0.3	20.4	122	186								
STD DS10	Standard	1.84	28.9	1.8	<0.05	2.9	9.09	39.9	0.26	46	0.5	20.2	109	184								
STD DS10	Standard														14.43	157.03	151.77	369.8	1884	76.5	13.4	
STD OXC129	Standard	1.39	16.0	0.7	<0.05	21.7	4.65	22.6	<0.02	<1	0.7	2.0	<10	<2								
STD OXC129	Standard	1.08	16.0	0.7	<0.05	21.3	4.89	23.4	<0.02	<1	0.7	2.3	<10	<2								
STD OXC129	Standard	1.33	15.5	0.8	<0.05	20.2	4.85	23.5	<0.02	<1	0.7	2.3	<10	<2								
STD OXC129	Standard															1.23	26.58	6.22	43.8	22	77.0	20.7
STD DS10 Expected		1.62	27.7	1.6		2.7	7.77	37	0.23	50	0.63	19.4	110	191	15.1	154.61	150.55	370	2020	74.6	12.9	
STD OXC129 Expected		1.4		0.7		21	4.7	23.7			0.8	2.22			1.3	28	6.3	42.9	28	79.5	20.3	
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2								
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2								
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2								
BLK	Blank														<0.01	<0.01	<0.01	<0.1	2	<0.1	<0.1	



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		Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al
		ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%
		1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01
Pulp Duplicates																					
1532442	Soil																				
REP 1532442	QC																				
1532477	Soil																				
REP 1532477	QC																				
Reference Materials																					
STD DS10	Standard																				
STD DS10	Standard																				
STD DS10	Standard																				
STD DS10	Standard	919	2.87	45.6	2.9	67.1	8.0	79.2	2.46	10.00	13.20	45	1.08	0.079	19.5	58.5	0.79	346.9	0.093	8	1.12
STD OXC129	Standard																				
STD OXC129	Standard																				
STD OXC129	Standard																				
STD OXC129	Standard	412	3.07	0.6	0.7	196.8	1.8	200.7	0.04	0.04	<0.02	51	0.67	0.104	12.8	51.9	1.53	48.1	0.421	<1	1.57
STD DS10 Expected		875	2.7188	46.2	2.59	91.9	7.5	67.1	2.62	9	11.65	43	1.0625	0.0765	17.5	54.6	0.775	359	0.0817		1.0755
STD OXC129 Expected		421	3.065	0.6	0.72	195	1.9		0.03	0.04		51	0.665	0.102	13	52	1.545	50	0.4	1	1.58
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01



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Project: Adanac
Report Date: July 28, 2017

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QUALITY CONTROL REPORT

WHI17000282.2

	Method	Analyte	Unit	MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251				
					Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	
					%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
					0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1
Pulp Duplicates																									
1532442	Soil																								
REP 1532442	QC																								
1532477	Soil																								
REP 1532477	QC																								
Reference Materials																									
STD DS10	Standard																								
STD DS10	Standard																								
STD DS10	Standard																								
STD DS10	Standard	0.077	0.35	3.6	3.6	5.20	0.28	244	2.2	4.97	4.6	2.73	0.1	0.08	1.77	28.8	1.7	<0.05	2.8	8.81	38.0				
STD OXC129	Standard																								
STD OXC129	Standard																								
STD OXC129	Standard																								
STD OXC129	Standard	0.592	0.36	<0.1	1.6	0.04	<0.02	<5	<0.1	<0.02	5.1	0.16	0.1	0.30	1.34	15.5	0.8	<0.05	23.1	4.88	22.8				
STD DS10 Expected		0.067	0.338	3.32	3	5.1	0.29	300	2.3	5.01	4.5	2.63	0.08	0.06	1.62	27.7	1.6		2.7	7.77	37				
STD OXC129 Expected		0.6	0.37	0.08	1.1	0.03					5.6	0.16		0.24	1.4		0.7		21	4.7	23.7				
BLK	Blank																								
BLK	Blank																								
BLK	Blank																								
BLK	Blank	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1				



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QUALITY CONTROL REPORT

WHI17000282.2

Method Analyte Unit MDL		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		In	Re	Be	Li	Pd	Pt
		ppm	ppb	ppm	ppm	ppb	ppb
		0.02	1	0.1	0.1	10	2
Pulp Duplicates							
1532442	Soil						
REP 1532442	QC						
1532477	Soil						
REP 1532477	QC						
Reference Materials							
STD DS10	Standard						
STD DS10	Standard						
STD DS10	Standard						
STD DS10	Standard	0.24	46	0.6	20.7	111	185
STD OXC129	Standard						
STD OXC129	Standard						
STD OXC129	Standard						
STD OXC129	Standard	<0.02	<1	0.5	2.4	<10	<2
STD DS10 Expected		0.23	50	0.63	19.4	110	191
STD OXC129 Expected				0.8	2.22		
BLK	Blank						
BLK	Blank						
BLK	Blank						
BLK	Blank	<0.02	<1	<0.1	<0.1	<10	<2

Appendix 6.

- 1) Atlin Ruffner Silver Mine Crown Granted Lease Status, 5th October 2019
- 2) Figure 3A, Atlin Ruffner silver Mine Crown Grants

Table 21

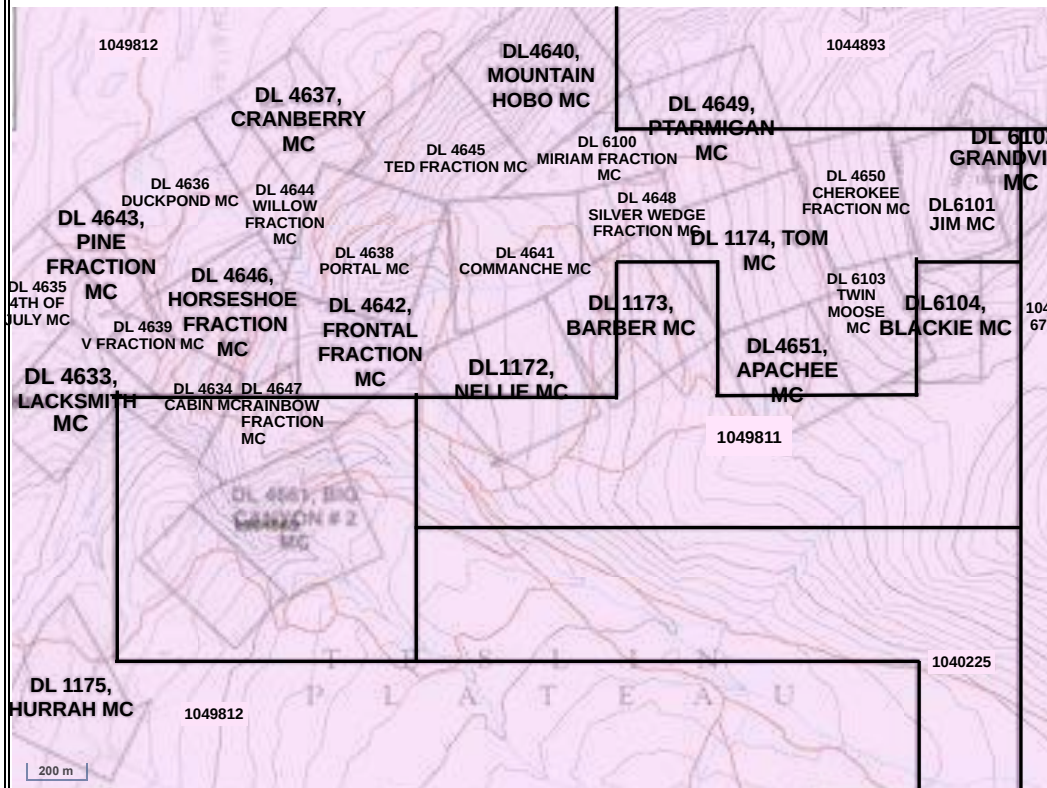
Atlin Ruffner Silver Mine Crown Granted Lease Status, 5th October 2019				
#	Claim Name	District Lot #	Lot_status	Area in Hectares
1	MIRIAM FRACTION	6100	CROWN GRANTED	9.84258181
2	BARBER	1173	CROWN GRANTED	20.93686478
3	TOM	1174	CROWN GRANTED	20.84694159
4	SILVER WEDGE FRACTION	4648	CROWN GRANTED	8.62430697
5	PTARMIGAN	4649	CROWN GRANTED	20.78286033
6	CHEROKEE FRACTION	4650	CROWN GRANTED	14.91966217
7	APACHE	4651	CROWN GRANTED	13.80349549
8	JIM	6101	CROWN GRANTED	13.79485044
9	GRANDVIEW	6102	CROWN GRANTED	12.04912527
10	TWIN MOOSE	6103	CROWN GRANTED	12.30899222
11	BLACKIE	6104	CROWN GRANTED	10.45552341
12	NELLIE	1172	CROWN GRANTED	20.89326727
13	HURRAH	1175	CROWN GRANTED	17.65492846
14	BLACKSMITH	4633	CROWN GRANTED	16.07209686
15	CABIN	4634	CROWN GRANTED	11.26215735
16	4TH OF JULY	4635	CROWN GRANTED	17.17338099

17	DUCKPOND	4636	CROWN GRANTED	20.93459848
18	CRANBERRY	4637	CROWN GRANTED	12.79518146
19	PORTAL	4638	CROWN GRANTED	20.92625662
20	V FRACTION	4639	CROWN GRANTED	0.20756116
21	MOUNTAIN HOBO	4640	CROWN GRANTED	20.91368421
22	COMMANCHE	4641	CROWN GRANTED	17.57599373
23	FRONTAL FRACTION	4642	CROWN GRANTED	17.94401782
24	PINE FRACTION	4643	CROWN GRANTED	7.53889368
25	WILLOW FRACTION	4644	CROWN GRANTED	9.30293303
26	TED FRACTION	4645	CROWN GRANTED	17.16814884
27	HORSESHOE FRACTION	4646	CROWN GRANTED	16.92911549
28	RAINBOW FRACTION	4647	CROWN GRANTED	9.60922494
			Total Area Ha.	254.9014404
1	BIG CANYON EXTENSION NO. 1	1170	REVERTED	15.85504259
2	BIG CANYON EXTENSION NO. 2	1171	REVERTED	19.44463064

After: 2019. Samuelson, Karen. MTA-Crown Granted Mineral Claims. BC Mineral Titles Branch, BC Ministry of Energy, Mines and Petroleum Resources.. <https://catalogue.data.gov.bc.ca/dataset/mta-crown-granted-mineral-claims>



Figure 3A: Atlin Ruffner Silver Mine Crown Grants



Legend

Mineral Titles (MTO)

Title (current)

- LEASE
- CLAIM

Other Mining Layers

MTA - Crown Granted Mineral Claims - Outlined

MTA - Crown Granted Mineral Claims - Colour Themed

- Unknown
- Controlled
- Crown Granted
- Declassified
- Not Chartered
- Proved
- Surrendered

Crown Land Layers (Tantalis)

Land Act Survey Parcels - Tantalis - Legal Descriptions

Label Title

Land Act Survey Parcels - Tantalis - Outlined

Administrative Boundaries

Federal Transfer Lands - Outlined

Federal Transfer Lands - Colour Filled

National Parks - Outlined

National Parks - Colour Filled

Conservancy Areas - Tantalis - Colour Filled

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.
THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Printed using the Mineral Titles Online (MTO) application.

Crown grant information last updated October 5, 2019

Center: 59°43'43", -133°30'24"
Scale: 1 : 33855
SRG: EPSG:3857
UTM Zone: 8



Appendix 7

Reflex EZ Shot Surveys, AMC DDH's

A-07-381

A-08-390

A-08-393

A-08-408

Reflex EZ-Shot Drillhole Survey Record
Ruby Creek

Drill Hole	Date	Hole Depth (ft)	Hole Depth (m)	Surveyed By	Measured Azi/Dir (deg)	Corrected Azimuth (degree)	Incli/Dip (deg)	Notes
A-08-381	28-Nov-07	1163	354.4824	Connors	311.6	334.6	-58.8	

Reflex EZ-Shot Drillhole Survey Record
Ruby Creek

Drill Hole	Date	Time	Hole Depth (ft)	Pulled Back (ft)	Surveyed By	Azi/Dir (deg)	Incli/Dip (deg)	Station	Roll rel to dip	Roll rel to Mag North	Magnetic Field	Temp (deg C)	Other	Notes
A-08-390	19-Jan-08		745	30	G. Spear	186.7	-88.3		31		5741	5.9		
A-08-390	19-Jan-08		375		G. Spear	183.1	-89.1		358.5		5730	7.1		

Reflex EZ-Shot Drillhole Survey Record
Ruby Creek

Drill Hole	Date	Time	Hole Depth (ft)	Pulled Back (ft)	Surveyed By	Azi/Dir (deg)	Incli/Dip (deg)	Station	Roll rel to dip	Roll rel to Mag North	Mag Field	Temp (deg C)	Other	Notes
A-08-393	02-Feb-08		925		L. W. J.	258.5	-61.4		202.5		5748	7.9		
A-08-393	02-Feb-08		160		L. W. J.	247.9	-60.7		88.7		5736	5.4		

Reflex EZ-Shot Drillhole Survey Record
Ruby Creek

Drill Hole	Date	Time	Hole Depth (ft)	Hole Depth (m)	Surveyed By	Azi/Dir (deg)	Corrected Azi with Declination	Incli/Dip (deg)	Roll rel to dip	Roll rel to Mag North	Mag Field	Temp (deg C)	Other	Notes
A-08-408	May 31 2008		35	10.668	Connors	304.5	327.5	-69.1	203.1		5751	6.2		
A-08-408	May 31 2008		350	106.68	Connors	308.5	331.5	-68.4	167.2		5747	8.2		
A-08-408	May 31 2008		750	228.6	Connors	313.2	336.2	-68.4	206.2		5747	8.7		
A-08-408	May 31 2008		1150	350.52	Connors	316.9	339.9	-68.2	344.3		5747	7.6		

28.0 Certification, Date and Signature

- 1) I, **Nicholas Clive Aspinall**, of Pillman Hill Road, Atlin, BC am self-employed as a geological consultant and responsible for this report entitled, Technical Report on the Ruby Creek Project within the Atlin Gold Camp, British Columbia Canada, (the "Technical Report") with effective date 22nd October 2019.
- 2) I am a registered member of the Association of the Professional Engineers and Geoscientists of British Columbia, License # 12783.
- 3) I have read, and understand National instrument 43-101 (NI-43-101) and the Companion Policy to NI 43-101. This Technical Report has been prepared in compliance with NI 43-101 and the Companion Policy.
- 4) I have read the definition of "Qualified Person" set out in National Instrument 43-101 (NI 43-101) and hereby certify that by reason of my education, affiliation with professional associations and past and recent relevant work experience I fulfill the requirements to be a "Qualified Person" as defined in NI 43-101.
- 5) As "Qualified Person", I am independent of the issuer and in no circumstance did the issuer interfere with my judgment regarding the preparation of this Technical Report, as defined in NI 43-101, Section 8.1(2).
- 6) As "Qualified Person" in preparation of this Technical Report, I am independent of the Property and Property vendor, as defined in Appendix 3F, Mining Standards Guidelines.
- 7) Therefore, I am entirely independent, as defined in Section 1.5 of National Instrument 43-101, of Stuhini Exploration Ltd., and any associated companies of the Ruby Creek Project. I do not have any agreement, or understanding or other arrangement with Stuhini Exploration Ltd., other than being commissioned to write this Technical Report. I do not own any securities of Stuhini Exploration Ltd., or any affiliated companies, and my professional relationship is at arms-length as an independent consultant, and have no expectation that the relationship will change.
- 8) For purposes of this Technical Report, I visited the Property on 31st August and 19th September 2019. This Technical Report is also based on my work during 2016, 2017, and 2018 and a review of pertinent data outlined in Section 20.00, and data provided by Global Drilling Solutions.

- 9) As stated in this Technical Report, in my professional opinion the subject property is of merit as a gold property, and further exploration is justified. At the effective date of this Technical Report, I am not aware of any material fact or material change with respect to the subject matter of the Technical Report that is not reflected in the Technical Report, the omission to disclose which makes the Technical Report misleading, and to the best of my knowledge, and belief, this Technical Report contains all scientific and technical information required to be disclosed to make this Technical Report not misleading.

-
- a. I am a graduate of McGill University with a B.Sc., (1964), and graduate of Camborne School of Mines, Cornwall, England with a M.Sc., in Mining Geology, (1987). I have over 50 years post university geological experience working worldwide. From: 1965-1973, I was geologist with Canadian Johns-Manville Company Ltd, primarily exploring for minerals in Atlin region; 1974-1980, 1981-1985, I was Project Manager with Rio Tinto Zinc Corporation in Indonesia, Morocco & Saudi Arabia, (RioFinex Ltd); 1988-1992, I was Senior geologist with Australian Pelsart Group and 1996-2002 I was exploration manager with consultant firm PT. Geotekindo Sabang Merauke in Indonesia; 2002-Present I have been with consultancy, Clive Aspinall Geological Services Inc. registered in Whitehorse, Yukon, servicing junior mining companies in Yukon, NW-British Columbia and Argentina.
 - b. In 1981 I completed a geological-geochemical survey for Cominco Ltd. on the then Snip gold prospect in NW-BC. This survey led to further exploration resulting in development and production of the Snip gold deposit.
 - c. While employed by Rio Tinto Zinc Corporation in Indonesia, I recognized an important molybdenum deposit in Central Sulawesi, (Malala Sulteng), as well as lead-zinc deposits in Kalimantan, (Tanjung Redeb) and Sumatra, (Marang Kiri). During my 1980-1985 mapping projects in Saudi Arabia, I pinpointed the Al Jalamid phosphate showings as potentially the most significant phosphate prospect in the Turayf region, North Saudi Arabia, which is now the location (2019) of a multi-billion US dollar phosphate project.
 - d. I am very familiar with Ruby Creek Project as I staked part of the Adanac Moly Project deposit for Canadian Johns-

Manville Company Limited, (1967-1972) and supervised surveys. I logged core for Adanac Molybdenum Corporation (2007-2008), and carried out sampling surveys for Global Drilling (2016-2018).

- e. I wrote all sections of this Technical Report titled "Technical Report on the Ruby Creek Project Within the Atlin Gold Camp, British Columbia Canada," to the best of my professional experience.

This Technical Report dated in Atlin, BC, this 22nd Day of October 2019
"signed and Sealed"

Nicholas Clive Aspinall



The seal is circular with a serrated edge. The outer ring contains the text "PROFESSIONAL ENGINEER" at the top and "BRITISH COLUMBIA" at the bottom. The inner circle is divided into three horizontal sections: the top section says "PROVINCE OF", the middle section says "N. C. ASPINALL", and the bottom section says "LICENCE #12783 ID 106377".

Nicholas Clive Aspinall M.Sc., P.Eng.

Geologist

(APEGBC Name; N.C. Aspinall., Licence #12783, ID 106377).