

A Geochemical Report on the PALEO Property
submitted as Representation Work
on the following quartz claims

Claims:

PALEO 1-16; Grant YE62001-YE62016 (16)
PALEO 27-58; Grant YE62027-YE62058 (32)
PALEO 61-96; Grant YE62061-YE62096 (36)
PALEO 107-122; Grant YE62107-YE62122 (16)
PALEO 125-140; Grant YE62125-YE62140 (16)
PALEO 145-160; Grant YE62145-YE62160 (16)
Total 132 quartz claims in the Dawson Mining District
Owner: Gordon Richards

Location

115P/03, and 115I/14
Camp in centre of claims at
UTM 389,200E, 6,989,800N, Elev 4200 ft
UTM Zone 8, NAD 83

Field work performed by
Gordon Richards, Jeff Mieras & Brendan Hall
during the period July 3 to July 22, 2011

Report written by Gordon Richards
February 20, 2012

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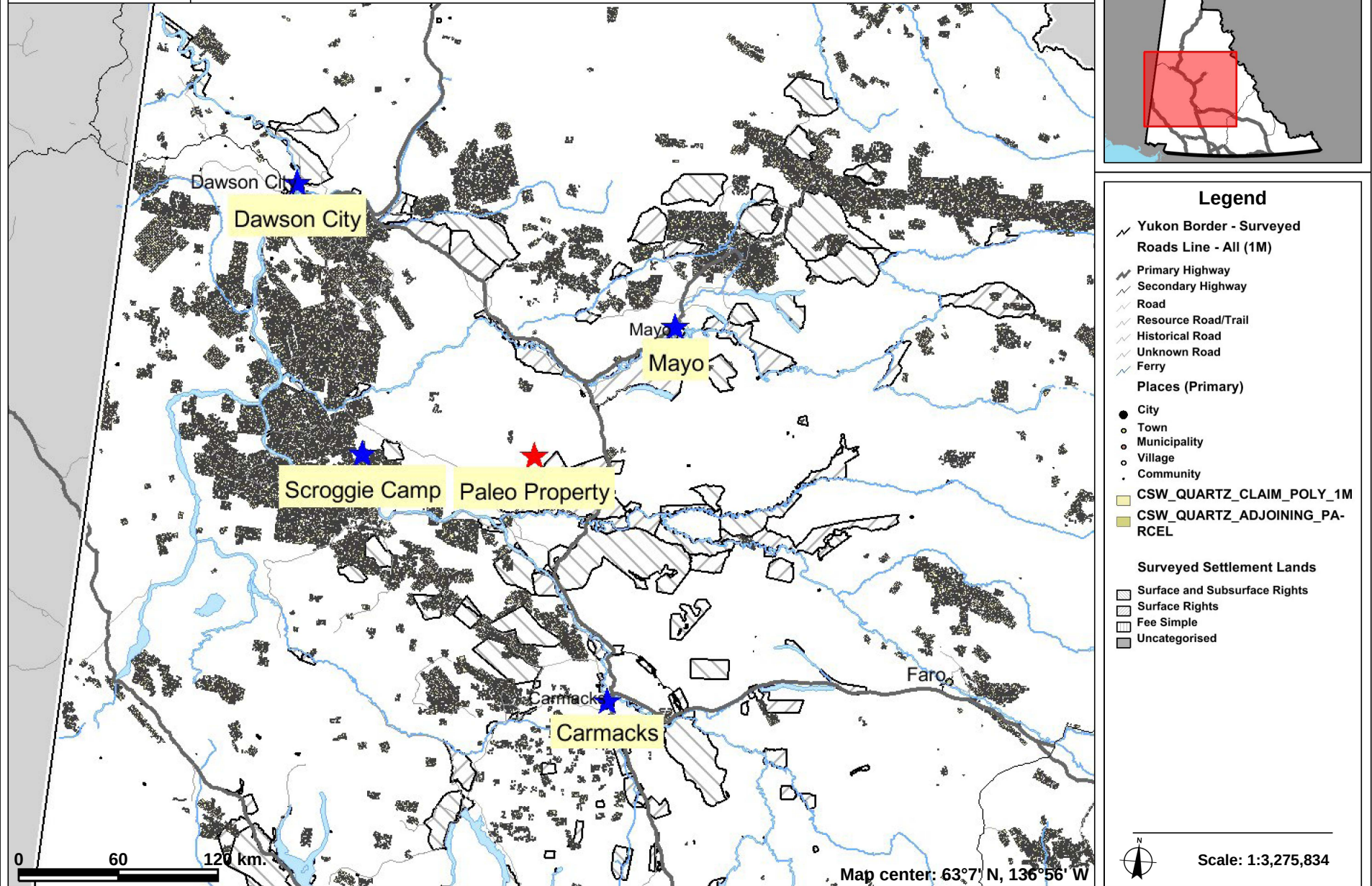
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Appendix Geochemical Results

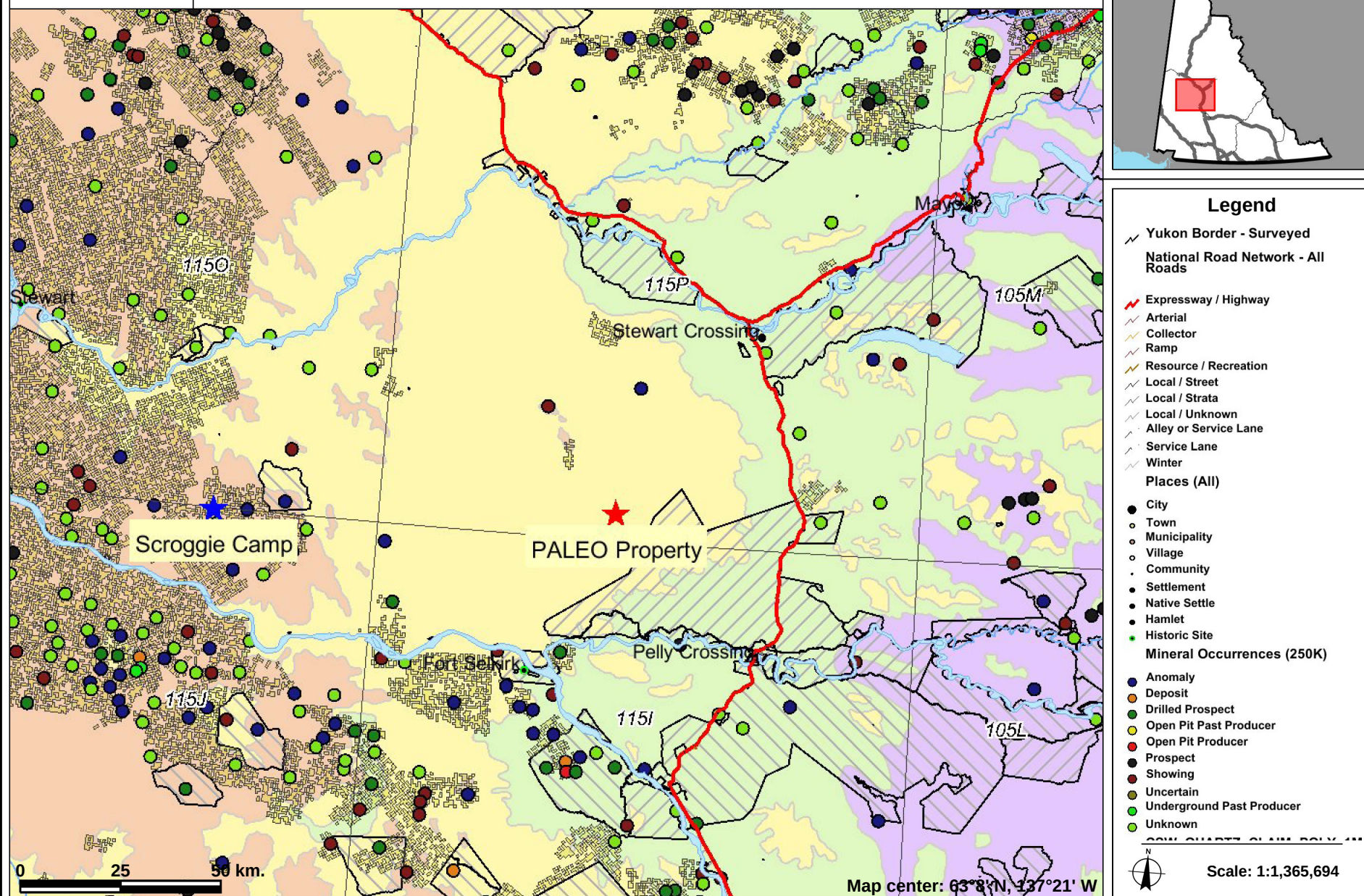
Appendix Geochemical Results with GPS co-ordinates

Figure 1. Location Map Paleo Property.



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.

Fig 2. Glacial Extents, Claims and MinFile Occurrences



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INTRODUCTION

In reaction to intensive staking throughout Yukon in 2010 and the following winter the writer decided to stake an exploration target he had developed in the underexplored area east of the White Gold District in the area of pre-Reid glaciations. Staking and subsequent soil sampling was conducted with helicopter support out of the Scroggie Camp of Pacific ridge Exploration (PEX). The property is located 160 km from Dawson City, 110 km from Mayo, 110 km from Carmacks and 75 km from Scroggie Camp a few km south of Coldspring Mountain in the White Mountains on NTS map 115P03 and 115I14. Access is made by helicopter from any of the above points. Refer to Figures 1 and 2.

The geology of the area had recently been described on Canadian Geoscience Map 7 of southwestern McQuesten and parts of northern Carmacks by Ryan, J.J., Colpron, M., and Hayward, N., 2010. Jeffrey Bond and Panya Lipovsky of the Yukon Geological survey have recently provided a number of papers, maps and posters on the surficial geology of the pre-Reid glaciated area with descriptions related to exploration. In particular they noted that tills have largely been removed by weathering from hilltops and modest slopes leaving hillsides amenable to soil sampling effectiveness believed to be similar to unglaciated terrain further west. The McQuesten aeromagnetic survey by Kiss, F., and Cryle, M., 2009 is available as Geoscience Data Repository through Natural Resources Canada. Pacific Ridge Exploration (PEX) provided the writer with horizontal and tilt derivative maps derived from the raw aeromagnetic data. These derivatives show structures where magnetite destructive alteration has occurred. Regional Geochemical Data (RGS) is also published, readily available and shows geochemical data for numerous elements of stream sediments throughout the area and for several creeks draining the claims.

The magnetic derivative maps and RGS data were used to identify prospecting targets. White Gold District gold occurrences had been described by many geologists familiar with the deposits as near vertical structural occurrences within all rock types so rock type was not considered as a preliminary screen for identifying targets. Very Few Minfile occurrences are known in the area and none near the Paleo Property. The Paleo Property is a new prospect with no known previous exploration activity.

The Paleo claims were staked to cover two magnetic derivative lows with two creeks draining the area with RGS stream sediments anomalous for Au and As. The claims were staked May 21-23 working with aid of a helicopter working out of Scroggie Camp of PEX. They were recorded June 10, 2011. Work described in this report extends the expiry date to June 10, 2014.

The writer returned to the property with Jeff Mieras and Brendan Hall to collect soil and rock samples across the magnetic derivatives and randomly elsewhere on the property. This work was designed to evaluate the magnetic derivatives for precious metal mineralization by the collection of soil samples along lines across the magnetic anomalies. Work was also designed to conduct preliminary soil sampling in the creek drainage in the north of the property where a RGS sample was anomalous for Au and As. This work occurred July 9, 11-14.

Results were encouraging. The southern magnetic anomaly measuring 2km by 500 m returned spottily anomalous Au, Hg, and As on three soil lines positioned across the anomaly. The north magnetic anomaly measuring 2 km by 500-1000 m returned anomalous Au, Ag, Pb, As, and Sb in rocks, organic soils and MMI soils. Of particular note is a zone of subangular boulders 50 to 200 cm in length that occurs for 300 m in a north direction in the central part of this northern magnetic anomaly. All boulders in this zone are highly silicified and limonitic with breccias textures common. Organic soils across this zone are highly anomalous for Au and Pb. The boulders are anomalous for Pb, As and locally for Ag with only spotty low level anomalous Au. A single contour MMI soil line in the north of the property provided some encouragement at the two ends of the soil line. Other positive geochemical results are described below.

A mix of soil horizons and collecting techniques were used as described below. In future MMI soil sampling is recommended because of its effectiveness, ease of collection and apical response to mineralization. Several areas are described for future exploration.

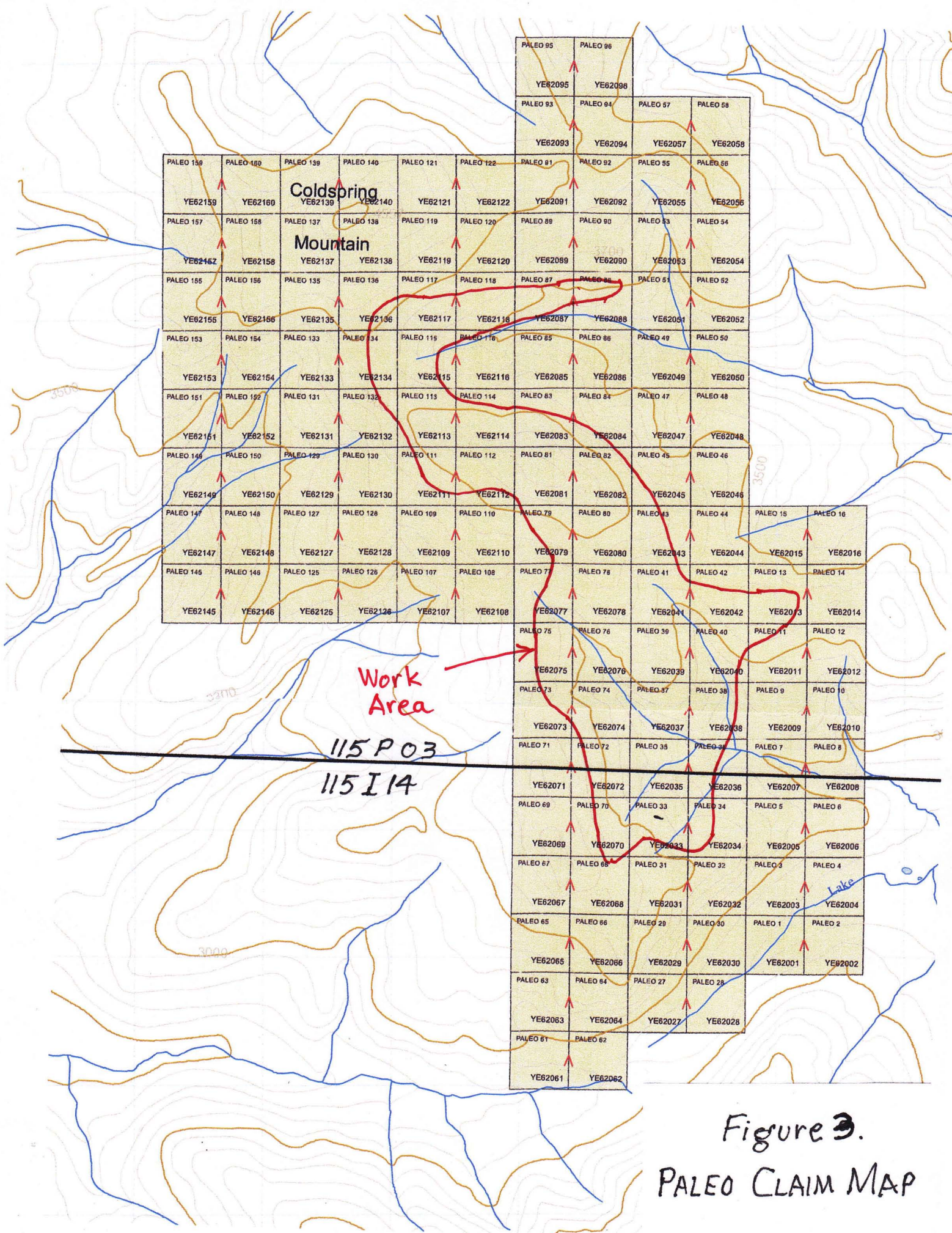


Figure 3.
PALEO CLAIM MAP

CLAIMS.

The following is a list of all claims forming the property. The claims lie in the Dawson Mining District. The work was partially funded by a YMIP grant, #11-059, and was performed by and for the Registered Owner, Gordon G Richards. Title expiry dates will be extended by filing of the work described in this report as representation work. Refer to Figure 3.

Table 1. Claim Status

Claim Name	Grant No.	Expiry Date	Reg Owner	% Owned	NTS #s
Paleo 1- 16	YE62001 – YE62016	2012/06/11	Gordon G Richards	100.00	115I14 115P03
Paleo 27-58	YE62027- YE62058	2012/06/11	Gordon G Richards	100.00	115I14 115P03
Paleo 61-96	YE62061- YE62096	2012/06/11	Gordon G Richards	100.00	115I14 115P03
Paleo 107-122	YE62107- YE62122	2012/06/11	Gordon G Richards	100.00	115P03
Paleo 125-140	YE62125- YE62140	2012/06/11	Gordon G Richards	100.00	115P03
Paleo 145-160	YE62145- YE62160	2012/06/11	Gordon G Richards	100.00	115P03

GEOLOGY.

Bedrock geology is best described on Canadian Geoscience Map 7 of *Southwestern McQuesten and Parts of Northern Carmacks* by Ryan, J.J., Colpron, M., and Hayward, N., 2010. The general area is underlain by the metasedimentary basement complex (Snowcap Assemblage), which is the basal member of the Yukon-Tanana Terrane. Several ages of Paleozoic intrusive suites intrude the metasedimentary rocks all of which are variably deformed and metamorphosed up to amphibolite facies. On the property, float in soil pits conforms to this description with psammite the most common metasedimentary rock type.

Altered float found on hillsides and altered and unaltered float from many soil pits are described below. Refer to Figure 4. Much altered float was found

outside the magnetic lows as defined by the derivatives although the most intense alteration occurred as numerous sub-angular boulders measuring 50 cm to 2 m in length spread down the hillside between sample sites J204 and J211 within the horizontal derivative magnetic low. This is a distance of 350 m. The extent of these boulders across the hillside is unknown but is limited by the easterly of the two rock-soil sample lines sampled by Y183 to Y187. The boulders are intensely silicified and brecciated psammite(?) or diorite(?) with 2-5% limonite as disseminations, diffuse spongy matrix to the breccias, and fracture fillings. Late quartz veinlets less than 2 or 3 mm wide occur in some samples. Another large area of silicified and brecciated psammite with only limited samples occurs north and south of samples Y8 to Y10 at the east side of Figure 4.

Limonite and clay altered diorite float with variable low silicification occurs around samples G134 to G147 at the southwest side of the sampled area. Silicified float also occurs at the headwaters of the major southeasterly flowing creek one km south of camp. Intensely silicified float was found at the west end of the east-west soil line in the north of Figure 4 and along the north side of the nearby east flowing creek sampled by Q23, Q24, and A192-A194.

Table 2. Rock sample descriptions.

Q26 Float. Small pieces limonitic psammite-meta siltstone.

Q28 30cm angular limonite zones and bands in highly silicified rock.

Q29 Float psammite with ½ to 2 cm spaced limonite frags in several directions.

Q30 50 cm angular qtz boulder with 3% leached sulphide mostly disseminated.

Q31 like Q30.

Q32 40 cm angular quartz. 1% diss leached sulphide.

Q33 100 cm psammite with introduced silica and cross cutting limonitic hairline fractures.

Q34 70 cm angular qtz to silicified psammite. 1% limonite.

Q35 1-2 m quartz with vugs. Some breccia texture with kernels of grey quartz with fine pyrite.

Q36 1 m subangular psammite with low fracture limonite.

Q37 30 cm angular boulder psammite with clay altered and limonite altered laminations cross-cutting hairline fractures.

Q38 20 cm angular psammite with fracture limonite.

Q39 like Q 38

Q40 like Q38

Q41A limonitic fine grained felsic (?)

Q41B like Q41A

Q41C less limonitic like 41A with 2mm qtz veinlet.

G134 very fine grained felsic rock cut by fractures with limonite selvage. Envelopes to 5 cm. Fracs contain limonite, goethite, and qtz with hematite.

G135 selvages of limonite flooding on fractures in felsic metased with qtz.

G137 angular boulder felsites with qtz veins, low frac lim and some lim flooding.

G138 sheared diorite with med frac limonite. Some clay alteration.

G139 altered diorite as above with more pronounced feldspars altered to clays.

G147 rubble clay-limonite altered diorite.

G157 qtz veined psammite boulder with limonite.

G158 ½ m angular qtz boulder with white qtz fragments in hematite red qtz.

G159 white qtz fragments in white qtz boulder ½ m.

G160 30 cm angular qtz with crackle breccias locally lined with silica film and lim.

G161 same as G160.

G162 crackled qtzite with low frac limonite and low qtz veinlets.

G163 as for G162. Much more similar float here.

G164 blue-grey qtz vein 1-3 cm wide cutting silicified qtz veined meta sediment with low fracture limonite.

G165 30 cm angular boulder on south side of creek. Dark quartz matrix. Complex breccias with few late qtz discontinuous veinlets. High lim in fracs and qtz frags.

G166 30 rock chips from ground squirrel hole. Limonitic sed.

G167 two angular pebbles on roots of tip-up. Irregular limonite throughout.

G168 10 cm pieces clay altered psammite w discontinuous hairline silica cross-cutting and weak limonite.

G169 3 cm float clay altered qtzite with hairline blue qtz and limonite blotches.

G170 40 cm angular bldr clay altered qtzite with hairline X-cutting qtz veinlets and crackle breccias with limonite.

G171 N side creek. Qtz with crackle limonite frags. Local breccias qtz texture. 1 m.

G172 aphanitic felsites with limonite frags and crackle breccias and minor silicification.

G173 Float pile of muscovite clay white alteration of metamorphic with fracture limonite and qtz veinlets and ½ disseminated pyrite in unoxidized kernels.

G174 float from MMI pit. 3 pieces in sample. 2 limonitic pieces.

G175 5 limonitic pieces from soil pit at G208.

G176 rocks from soil pit at G211. One high limonite.

G177 1 m angular qtz boulder.

G178 one piece angular qtz.

G179 two pieces white qtz vein float.

G180 2 m x 1 m bldr qtz and silicified metamorphic veined with late qtz veinlets and medium fracture limonite with vugs.

G181 20 cm limonitic qtz boulder.

G182 silicified sericitic metamorphic.

J204 gneiss with high limonitic matrix.

J205 low limonite quartzite.

J206 moderate-high limonitic matrix gneiss.

J207 limonitic quartzite or quartz.

J208 moderate limonitic siliceous gneiss.

J209 quartz with vuggy limonitic fractures with silica.

J210 grey mottled streaked white quartz with 3% leached sulphide.

J211 high Mn stained low limonite gneiss.

J212 moderate limonite in matrix gneiss with some limonite envelopes to frags.

J213 gneiss with moderate-low fracture and matrix limonite.

J214 felsic psammite.

J215 felsic gneiss.

J216 grey psammite.

J217 felsic gneiss.

J218 pegmatite.

J219 high fracture and matrix limonitic psammite.

J221 gneiss-psammite with quartz with vugs and silica-limonite moderate. Much micro fracturing.

J222 psammite.

Y191 med-high matrix limonite with few quartz veinlets.

Y192 low fracture limonite gneiss.

Y194 low to high matrix and fracture limonite gneiss.

Y195 mottled biotite gneiss.

Y196 like Y195

Y197 high matrix and fracture limonite.

Y198 low fracture limonite in crackled felsic psammite. Some quartz.

Y199 low fracture limonite and quartz in felsic gneiss.

Y200 high limonite matrix metamorphic with quartz veinlets. Low cross cutting fracture limonite and many narrow limonite envelopes.

Y201 limonitic gneiss with high matrix limonite in one piece and limonite flooded envelope on fractures in other.

Y202 felsic gneiss. Psammite?

Y203 gneiss. 305 colour index.

Y204 gneiss.

Y205 low-medium limonitic gneiss (?)

Y206 high limonite matrix. Fine to medium grained gneiss.

Y207 altered gneiss-diorite (?) with quartz veinlets and moderate limonite.

Y208 grey gneiss

Y209 altered diorite (felsic) with quartz and low limonite fractures and in matrix.

Y210 like Y209.

Y211 medium grained diorite-gabbro with low fracture limonite.

Y212 quartz laced or breccias metasediment with good matrix limonite.

Y213 foliated medium grained diorite.

Y214 intrusion with moderate matrix and fracture limonite.

Y215 30 colour index hornblende gabbro-diorite.

Y216 felsic intrusive.

Y217 white quartzite.

Y218 quartz and various intrusive.

Y219 sugary felsic intrusion.

Y220 felsic intrusive. Minor limonite.

Y221 pegmatite

SURFICIAL GEOLOGY.

Soil sampling proved effective but soil profiles are more complicated than in the unglaciated terrain of most of the White Gold District as that is now defined. Several types of soil sampling methods were tried on the Paleo Claims that included standard soils, MMI soils and Ah soils. A description of sample analyses procedures and presentation of results is provided below under Geochemical Survey, Survey Methods.

Glaciation is described as pre-Reid in age. Reid glaciation began 200,000 years ago and ended about 50,000 years ago. The glaciation across the general area of the Paleo Property is described as much older than Reid, possibly older than 500,000 years (Jeff Bond, personal communication, 2012). Uppermost soil is an organic soil generally a few cm thick lying on top of loess on hillsides that were traversed although deeper organic soils undoubtedly exist on near flat valley bottoms. Forest fires tend to destroy this organic soil so that it is continually being formed by the accumulation and decomposition of leaf litter.

Loess forms a blanket on most slopes about 50 cm deep. This loess is believed to have formed much more recently than the pre-Reid glaciation and be related to post Reid or more likely post McConnel Glacial periods. A few rocks do occur in the loess and have probably worked themselves up into the loess from underlying colluvium.

Beneath the loess is colluvium. Rounded pebbles in the soil that might represent vestiges of rounded till pebbles were not seen in soil samples. Pre-existing tills have been eroded. However soils have probably developed from this erosion thereby incorporating tills and probably several loess deposits into weathered bedrock to form the soil profile. Depth of colluvium is not known. This soil development as well as glacial smearing in an unknown direction has undoubtedly caused the geochemical response of soils to be reduced and spread out across hillsides. Thus lower level anomalies can be very important and should not be too easily dismissed.

GEOCHEMICAL SURVEY.

Survey Methods

Fourteen man days were spent collecting 253 rock and soil samples by Jeff Mieras, Brendan Hall and Gordon Richards. Samples collected were rock, standard soils (defined below), MMI soils, and Ah organic soils. All geochemical results are provided in an Appendix.

Sample details such as rock type and mineralization, soil colour, texture, depth, dampness and site slope were described in notes. Their locations were recorded in a Garmin GPSmap 60Cx. Some UTM co-ordinates were also recorded in notebooks as a backup in case of loss of the GPS unit or loss of data stored on the unit. No such loss occurred. Sampled material was placed into numbered bags as described below. Similarly numbered Tyvek tags were tied to nearby vegetation. Soils were collected at 100 m intervals with few exceptions as noted.

Samples were sent to labs described below. Lab results and spreadsheets showing GPS location with the data are also provided in Appendices. Anomalous results greater than selected threshold values are shown graphically on Figure 4.

Rock samples described in Table 2 above were chips of float in all cases. Samples were collected in gusseted kraft bags. Rock samples were sent to Acme Labs for their 1DX determination. Samples were first weighed then crushed, split and 250 g pulverized to 200 mesh. A 15 g split of this material was digested in 1:1:1 Aqua Regia and analyzed by ICP-MS for 36 elements, reported in ppb, ppm, and % for the various elements.

Standard soils in this report refer to soils collected as far below the bottom of the loess blanket as possible within colluvium that was probably derived from reworked till, loess, pre-existing soil and weathered bedrock. Samples were collected by auger and placed into numbered gusseted kraft bags. All standard soil samples were also analyzed by Acme using their 1DX determination following drying at 60 degrees C and screening 100g to -80 mesh prior to digestion of a 15 gram sample and ICP-MS analysis for the same 36 elements as for rock.

MMI analysis uses a weak partial extraction to improve the conventional geochemical response over buried ore deposits. The process measures the mobile metal ions from mineralization, which have moved toward the surface and are

loosely attached to the surfaces of soil particles. Its effectiveness has been documented in over 1000 case histories on six continents and includes numerous commercial successes. The anomalies are sharply bounded and in most cases directly overlie and define the extent of the surface projection of buried primary mineralized zones. The MMI process is a proprietary method developed by Wamtech of Australia. SGS Minerals Services in Toronto purchased all rights to the method and provides analyses in Canada.

Watch and ring were removed prior to sampling. Pits were dug by shovel for the Y-series lines south of the Paleo camp and dug by mattock for the G-series line north of camp. Pits were dug to a depth of 30 cm in order to expose the soil profile for sampling. The profile was scraped clean with a plastic scoop to remove any metal effect from the digging shovel. A continuous strip of soil was collected by plastic scoop over the interval of 10 to 25 cm below the top of true soil, placed in a pre-numbered ziplock baggie and placed in an 11 inch by 20 inch 2 mil plastic bag. Loess was present at nearly all sample sites and was the sample medium for all but two of the 67 MMI soils collected on the Paleo Claims. Samples were kept cool until they were shipped to SGS Minerals Services in Toronto for analyses.

In the SGS Lab, samples are not dried or prepared in any way. The MMI process includes analyses of an unscreened 50-g sample using multi-component extractants. Metals are determined by ICP-MS in the parts per billion range.

Response Ratios were calculated for Au, Ag, Sb, As, Hg, and Pb. The average value for results of the lower quartile was calculated for each element. One-half of detection limit was used for those samples with values reported as less than detection limit. Then each result was divided by the lower quartile average to obtain its response ratio. A response ratio of 10 or more is considered very significant for indicating underlying mineralization. Lesser values of 5 to 10 can also be important particularly where more than one element has such a value. Response ratios can best be thought of as a multiple of background in interpreting results.

Ah horizon organic soil samples were collected from the very base of the organic layer overlying loess and placed into gusseted kraft bags. The organic layer is usually very thin so that considerable care and time is taken to collect only completely decomposed organic material. Dave Haberlein and one other

geochemist had shown Mieras and Richards the protocol for collecting the samples on other properties. Samples were sent to Acme Labs where samples were dried at 60 degrees C, 100 g sieved to -80 mesh, and a 15 g sample digested in Aqua Regia and analyzed by Acme's Ultratrace analyses for 53 elements.

Response ratios were then calculated for Au, Ag, Sb, As, Hg, and Pb as was done for MMI soils.

It is important to distinguish response ratios for MMI and Ah soil samples from absolute values provided as ppb and ppm for rock and standard soil samples on Figure 4. Careful examination of the legend will provide the necessary distinction.

Survey Results.

Samples were collected across a tilt derivative magnetic low in the south of the claim block and across a horizontal derivative magnetic low in the central portion of the claim block. Also one soil line was run across a hillside in the north of the claim block where a RGS silt was anomalous for As, 9 ppm, and Au, 19 (repeat 4) ppb.

South Area.

In the south area standard soil samples were collected by auger in rocky soil that was clearly not a till but probably a reworked till and residual soil with loess incorporated into it. The usual more recent loess occurs as a blanket over the hillside. No outcrop or mineralized float was seen during these traverses.

Soil results show discontinuous and somewhat spotty anomalous results for Au, As, Sb, and Hg roughly coincident with the tilt derivative magnetic low. Dilution of soil response from incorporation of loess deposits and till must be considered when interpreting soil geochemical data in this area. A better soil test might be done with mattock or shovels to help find angular mineralized float for sampling and get a better idea of the soil profile. In future Ah and MMI or other selective leaches of soils should be considered as alternative methods for sampling this soil as they see through varied soil types and yield more restricted apical responses directly over underlying mineralization.

North Area.

In the north, an east-west line was run on the lower slopes of a south facing hill upstream from the RGS silt that ran 9 ppm As and 19 ppb Au. Soils, which were almost always loess at the prescribed depths for MMI analyses, were collected using the sampling protocol described above under Geochemical Survey Details.

Results were mixed. High silica boulders were found in May and sampled by Q23, Q24, A192 and A193 with variably anomalous As and Sb. In July high silica boulders measuring up to two m were found and sampled by G180 with results of 153 ppm As, 7 ppb Au, 88 ppm Pb, and 6.3 ppm Sb. Two adjacent soils had response ratios of 5 for Ag which is definitely of interest when combined with the silica boulders in the area. As these samples were at the west end of the east-west line and very much open upslope and downslope more work is recommended in this area. At the east end of the soil line, response ratios of 10, 8, 13, and 5 for silver in consecutive samples is of interest for further work.

Central Area.

In the central area over and around the horizontal derivative magnetic low, south and southeast of camp two soil methods were tried. Augering proved to be futile owing to the rocky nature of the soil and frost in some of the holes. MMI sampling was done as shown on Figure 8 using a shovel. This method was selected to facilitate collection of samples from the 10 to 25 cm deep interval which happened to lie within loess in the otherwise rocky and partly frozen ground. Ah (organic) soil samples were also collected at a 50 m interval along two north-south lines spaced 200 m apart as shown on Figure 4 across a target identified by subangular and intensely leached limonitic boulders of silicified quartz breccias as described above. Rock samples were collected from soil pits if altered. Rock specimens of sampled and unsampled rocks are described above in Table 2.

Rock sample results produced a persistent strong geochemical response for As, Pb and Au from the silica-limonite boulders sampled just south of camp downslope to J210. Some anomalous Ag also occurs with a high of 87 ppm Ag at J209.

Ah soil sample results gave a contiguous cluster of strong geochemical responses for Au and Pb with some anomalous Ag over the zone of abundant limonitic, silicified quartz-breccia boulders on the westerly of the two north-south lines. Surprisingly they did not yield a strong As response as the rocks did. The easterly of the two lines crossed no silicified or quartz breccias boulders and returned only spottily anomalous results. The very strong Au response ratio may be indicating a style of Au mineralization not represented by the resistant quartz rich boulders. Recessive structurally controlled (sheared) mineralization is one such possibility.

MMI soil sample results yielded three patterns of geochemically anomalous soils within the horizontal derivative magnetic lows described above.

1. Y183 to Y187 forms a nearly continuous cluster of anomalous response ratios for Ag (4 to 11 response ratio) with support of Pb, Sb and minor As over a length of 400 m located on trend with anomalous boulder samples and Ah soil samples described above. Ah samples collected in this area were only spottily anomalous.
2. Y193 to Y 196 forms a response ratio cluster for Au (5 to 12 response ratio) with support of As, Sb, and Ag over a length of 300 m located across the southeast flowing creek south of camp. This pattern is open to the east and west for many hundreds of metres.
3. Y206 to Y209 forms a response ratio cluster for Ag (5 to 15 response ratio) with support of some Pb, As, and Sb. Due to this being a single line with 100 m spaced samples more sampling is required in this area.

CONCLUSIONS

Magnetic derivative lows proved useful for locating zones of altered float and geochemically anomalous soils. 132 Paleo claims were staked to cover the derivatives before sampling began.

Altered float displayed strong silicification, brecciation, and quartz-veining, with intense oxidation of sulphides. Host rocks were psammite of the late Devonian and older Snowcap Assemblage (with accompanying Paleozoic orthogneiss) which forms a metasedimentary basement to the Yukon Tanana Terrane. Oxidation is the result of the area not being glaciated for much greater

than 200,000 years. True tills were not seen. Soils with round pebbles were only seen within 50 to 100 metres of creeks and are probably reworked tills from higher elevations on the adjacent hillsides. The soils are rocky and probably have old loess deposits and some pre-existing till fines worked into them. Such action probably has diluted geochemical responses. A young loess usually about 50 cm thick mantles the hillsides.

A zone of subangular, silicified, brecciated, quartz-veined, limonitic boulders measuring up to 2 m long with no other type of boulder occurring with them exists over a 300 m north-south direction and at least 100 m east-west. The boulder field is open to the east, south and west. Scattered similar boulders occur over the next 500 m to the south. The boulders are strongly anomalous for As, and Pb and weakly anomalous for Au, up to 47 ppb Au, and spottily anomalous for Ag but up to 87 ppm Ag.

Organic Ah soils collected across this boulder field show a zone of highly anomalous results for Au and Pb but no high As and only one high Ag. This anomaly extends for 300 m north south coincident with the main boulder field. A second line 200 m east yielded only one sample weakly anomalous for Au and Pb and four others weakly anomalous for Ag.

MMI soils were collected on the east Ah soil line and along several other lengthy lines. All elements that were anomalous in the quartz-rich rocks of the boulder field were also anomalous in several discrete areas where they form concisely defined targets. Sample medium for the MMI samples was loess as it occurred at the prescribed depth for sample collection. The response of MMI samples, the difficulty of collecting standard soils over much of the property, and the relative ease of collecting MMI samples at shallower depths than standard soils makes MMI soil sampling an ideal method for working in this area of >200,000 year old glaciation. MMI has the added advantage of producing concise apical anomalies over mineralization. Thus it is a useful method for grid sampling where sample density is tight enough to locate underlying mineralization. For recce work standard soils might still be the preferred method as the broad dispersed pattern of anomalous values provides a bigger target for discovering part of the anomaly than the expected more tight MMI anomaly.

RECOMMENDATIONS.

It is recommended that:

- i) Lines of MMI soil sampling be run across the south zone defined by the tilt derivative magnetic low.
- ii) East-west lines of MMI soil sampling be run across the boulder field and downslope to as far as the creek.
- iii) A grid of MMI soil sampling be run across the anomaly defined by samples Y193 to Y196.
- iv) A grid of MMI soil sampling be run across the geochemical anomaly defined by samples Y205 to Y209.
- v) Further prospecting be conducted in the drainage north of camp defined by the RGS silt anomalous for Au and As and by results of the present survey.
- vi) That the large zone of intense limonitic silicification noted by the staker on the easternmost claim line be evaluated with rock and MMI soil sampling.

STATEMENT OF COSTS**2011 Paleo Property**

Prism Helicopters:

Jul 7. Hall to area from Scroggie Camp.	\$ 1092.00
July 9. Move Hall, Richards, Mieras to Property	1638.00
July 14. Move Hall, Richards, Mieras to Scroggie Camp	1747.20
Fuel for above flying including positioning. PEX Invoice	1729.94

Truck: Wat Lake-Dawson-Wat Lake. 1982 km @ \$0.59/km	1170.00
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Great River Air:

Jul 4. Richards Dawson-Scroggie Camp	520.70
July 21. Richards, Hall, Mieras & gear-Scroggie to Dawson	1169.60

Geochem:

SGS; MMI sample assays	2889.04
Acme Ah soil assays	765.07
Acme Rocks 74/116 x \$3067.41	1956.79
Acme Soils 39/173 x \$3704.92	835.21

Wages:

Jeff Mieras Jul 9, 11-14; 5 days @ \$300/day	1500.00
Brendan Hall Jul 9, 11-14; 5 days @ \$300/day	1500.00
Gord Richards Jul 3,4,9, 11-14, 22; 8 days @ \$500/day	4000.00

Air North Freight: MMI, Ah, rock samples to Vancouver	142.67
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Food and supplies: 18 man days @ \$100/day	1800.00
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Report: 5% of above costs	<u>2445.00</u>
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TOTAL	\$26,901.22
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STATEMENT OF QUALIFICATIONS.

I, Gordon G Richards, with business address at 6410 Holly Park Drive, B.C., V4K 4W6, do hereby certify that:

1. I am a Professional Engineer, registration number 11,411 with the Association of Professional Engineers and Geoscientists of British Columbia since 1978.
2. I hold a B.A.Sc. (1968) in Geology from The University of British Columbia, and an M.A.Sc. (1974) in Geology from The University of British Columbia.
3. I have been practicing my profession as a geologist for over 40 years and as a consulting geological engineer since 1985. I have work experience in western areas of the United States, Alaska, Canada, Mexico and Africa.
4. I have based this report my field work and supervision of field work by Jeff Mieras and Brendan Hall during the period of July 9 to 14, 2011 and on the results generated by that field work.
5. I have written this report based on results of the fieldwork described.

Respectfully submitted,

Gordon G Richards, P.Eng.



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Client: **Richards, Gordon**
6410 Holly Park Drive
Delta BC V4K 4W6 Canada

Submitted By: Gordon Richards
Receiving Lab: Canada-Vancouver
Received: July 27, 2011
Report Date: August 09, 2011
Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN11003510.1

CLIENT JOB INFORMATION

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

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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: Richards, Gordon
6410 Holly Park Drive
Delta BC V4K 4W6
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	27	Dry at 60C			VAN
SS80	27	Dry at 60C sieve 100g to -80 mesh			VAN
1F05	27	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	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. Acme 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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6410 Holly Park Drive
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Project: Cold
Report Date: August 09, 2011

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

VAN11003510.1

	Method	Analyte	Unit	MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15			
					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
J203	Soil				0.69	29.41	10.28	20.1	590	26.4	4.7	52	0.99	1.6	1.2	0.7	<0.1	32.3	1.36	0.14	0.16	14	0.23	0.097
J204	Soil				0.77	34.65	11.31	21.1	445	26.0	5.3	70	1.20	1.8	1.5	0.6	<0.1	32.1	0.99	0.16	0.13	16	0.26	0.099
J205	Soil				1.11	41.54	10.35	46.2	995	34.0	9.4	194	1.71	4.4	2.0	1.3	<0.1	25.8	2.44	0.39	0.16	29	0.18	0.158
J206	Soil				0.93	17.10	8.79	45.0	1748	12.3	10.0	98	1.06	2.0	2.0	1.7	<0.1	34.7	2.63	0.29	0.08	11	0.31	0.265
J207	Soil				1.30	63.98	222.1	83.7	4712	30.4	9.6	210	1.85	5.4	3.0	3.5	<0.1	37.3	5.23	0.49	0.44	26	0.29	0.212
J208	Soil				0.99	37.13	24.53	46.6	1956	15.7	5.3	91	1.09	2.5	1.1	1.3	<0.1	30.9	2.38	0.22	0.11	15	0.21	0.225
J209	Soil				1.12	57.23	137.2	63.8	2231	24.3	12.7	334	1.74	4.6	2.0	1.8	<0.1	30.3	3.96	0.33	0.15	25	0.23	0.240
J210	Soil				1.08	39.30	47.15	72.7	2046	22.0	9.8	167	1.98	4.5	1.9	1.3	<0.1	31.4	3.08	0.30	0.15	27	0.24	0.165
J211	Soil				1.04	9.91	5.95	39.6	1344	9.3	4.8	143	1.18	3.1	0.9	0.7	<0.1	26.5	0.48	0.28	0.08	18	0.23	0.144
J212	Soil				1.03	20.39	8.84	40.0	1583	14.1	5.9	287	1.25	2.7	0.8	<0.2	<0.1	34.4	0.68	0.24	0.10	20	0.31	0.127
J213	Soil				1.00	17.33	6.47	39.4	1324	14.5	3.6	191	0.83	1.5	0.6	0.3	<0.1	34.4	0.56	0.19	0.08	11	0.38	0.203
J214	Soil				0.92	8.71	10.25	41.6	1130	8.2	9.1	303	1.07	2.8	0.6	0.4	<0.1	26.7	0.73	0.22	0.08	19	0.22	0.159
J215	Soil				1.05	18.85	7.91	77.9	1134	13.6	7.0	995	0.68	1.9	0.5	0.3	<0.1	56.3	0.74	0.17	0.06	12	0.57	0.124
J216	Soil				0.86	9.97	10.01	58.2	663	12.7	7.6	224	1.84	5.6	0.7	1.8	0.2	19.7	0.35	0.29	0.13	38	0.22	0.081
J217	Soil				0.97	15.68	7.19	36.0	1974	12.1	4.4	243	0.87	1.9	0.9	0.5	<0.1	52.6	0.64	0.19	0.06	9	0.52	0.209
J219	Soil				1.23	9.48	6.04	43.3	658	10.3	8.3	1038	1.50	4.1	0.4	0.5	<0.1	23.8	0.41	0.24	0.12	34	0.20	0.089
J220	Soil				0.69	15.82	5.11	165.7	817	14.5	10.9	1954	0.65	1.2	0.4	<0.2	<0.1	67.6	0.73	0.14	0.08	12	0.78	0.139
J221	Soil				0.86	28.45	6.90	136.8	1172	18.3	5.7	2171	0.99	1.6	0.6	<0.2	<0.1	56.1	1.01	0.15	0.10	16	0.54	0.157
J222	Soil				0.92	29.15	8.29	363.0	654	24.1	12.3	4389	1.49	2.6	0.5	<0.2	<0.1	88.8	1.30	0.24	0.13	27	0.85	0.319
J223	Soil				1.29	29.80	8.36	43.1	1363	26.9	12.5	949	1.54	3.3	1.3	<0.2	0.1	30.8	1.02	0.24	0.12	25	0.27	0.132
J224	Soil				1.14	23.41	5.97	42.5	1597	13.3	5.2	180	1.10	2.6	0.8	<0.2	<0.1	30.4	0.98	0.19	0.09	16	0.25	0.229
J225	Soil				1.20	13.64	5.20	108.7	1856	8.2	3.7	3885	0.51	1.7	0.4	<0.2	<0.1	40.6	0.62	0.16	0.06	10	0.45	0.141
J226	Soil				1.20	19.88	6.70	94.4	2709	15.6	10.8	2873	1.11	2.4	0.5	<0.2	<0.1	41.5	1.28	0.17	0.09	20	0.39	0.174
J227	Soil				1.12	8.80	4.02	35.3	1790	7.0	5.0	594	0.87	1.9	0.3	<0.2	<0.1	26.7	0.35	0.18	0.06	13	0.29	0.237
J228	Soil				0.89	28.75	10.44	26.6	1238	17.4	4.7	107	1.46	2.1	1.6	0.3	<0.1	32.8	1.07	0.22	0.08	15	0.27	0.221
J229	Soil				0.88	49.66	22.68	38.1	1969	30.7	6.6	91	1.42	1.8	2.0	0.2	<0.1	38.6	2.07	0.17	0.08	14	0.31	0.183
J230	Soil				0.78	29.04	58.71	39.8	1033	22.6	6.7	118	1.26	2.1	1.3	0.7	<0.1	43.7	2.38	0.17	0.07	14	0.36	0.217



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Project: Cold
Report Date: August 09, 2011

Page: 2 of 2 Part 2

CERTIFICATE OF ANALYSIS

VAN11003510.1

	Method Analyte Unit MDL	1F15 La ppm 0.5	1F15 Cr ppm 0.5	1F15 Mg % 0.01	1F15 Ba ppm 0.5	1F15 Ti % 0.001	1F15 B ppm 1	1F15 Al % 0.01	1F15 Na % 0.001	1F15 K % 0.01	1F15 W ppm 0.1	1F15 Sc ppm 0.1	1F15 Ti ppm 0.02	1F15 S % 0.02	1F15 Hg ppb 5	1F15 Se ppm 0.1	1F15 Te ppm 0.02	1F15 Ga ppm 0.1	1F15 Cs ppm 0.02	1F15 Ge ppm 0.1	1F15 Hf ppm 0.02
J203	Soil	27.4	10.2	0.06	421.5	0.007	1	0.76	0.029	0.05	<0.1	0.3	0.03	0.08	166	0.1	0.04	1.7	1.19	<0.1	<0.02
J204	Soil	16.9	10.1	0.07	340.0	0.006	1	0.66	0.029	0.05	<0.1	0.3	0.03	0.05	94	0.4	0.05	1.7	1.17	<0.1	<0.02
J205	Soil	16.4	17.1	0.13	331.7	0.003	<1	1.11	0.024	0.06	<0.1	0.2	0.08	0.07	114	0.6	0.05	3.1	2.18	<0.1	<0.02
J206	Soil	15.7	8.8	0.09	316.0	0.002	2	0.78	0.038	0.08	<0.1	0.2	0.08	0.13	263	0.5	0.02	1.3	0.85	<0.1	<0.02
J207	Soil	17.4	17.2	0.16	399.1	0.003	<1	1.09	0.030	0.07	<0.1	0.2	0.05	0.07	168	0.5	0.06	3.2	1.41	<0.1	<0.02
J208	Soil	12.9	11.8	0.08	315.2	0.002	<1	0.79	0.028	0.06	<0.1	0.2	0.06	0.07	152	0.7	0.05	1.9	0.76	<0.1	<0.02
J209	Soil	15.4	16.8	0.15	352.1	0.001	<1	1.25	0.022	0.07	<0.1	0.1	0.05	0.06	106	0.6	<0.02	2.7	1.18	<0.1	<0.02
J210	Soil	13.2	17.6	0.16	351.6	0.001	<1	1.12	0.026	0.06	<0.1	0.1	0.05	0.06	139	0.6	0.05	2.5	0.82	<0.1	<0.02
J211	Soil	11.1	11.5	0.13	233.2	0.002	<1	0.91	0.021	0.07	<0.1	0.1	0.06	0.09	185	0.5	<0.02	2.1	0.74	<0.1	<0.02
J212	Soil	8.1	13.6	0.13	248.2	0.003	<1	0.95	0.019	0.06	<0.1	0.1	0.05	0.07	172	0.6	0.04	2.2	0.79	<0.1	<0.02
J213	Soil	8.0	7.6	0.08	315.9	0.001	<1	0.74	0.030	0.07	<0.1	0.1	0.03	0.10	184	0.4	<0.02	1.3	0.98	<0.1	<0.02
J214	Soil	6.4	10.7	0.17	235.8	0.003	1	0.75	0.021	0.09	<0.1	0.2	0.07	0.12	200	0.2	0.02	2.0	1.20	<0.1	<0.02
J215	Soil	9.4	7.2	0.12	537.3	0.009	<1	0.54	0.026	0.09	<0.1	0.2	0.07	0.10	178	0.4	0.04	1.3	0.98	<0.1	<0.02
J216	Soil	10.2	20.9	0.38	166.0	0.038	<1	1.30	0.021	0.07	0.1	1.0	0.09	0.05	109	0.4	0.05	4.3	1.59	<0.1	0.03
J217	Soil	15.0	6.8	0.09	472.5	0.002	1	0.87	0.031	0.06	<0.1	0.1	0.05	0.11	215	0.3	<0.02	1.3	0.84	<0.1	<0.02
J219	Soil	6.8	17.1	0.22	292.4	0.029	<1	0.89	0.017	0.09	<0.1	0.6	0.07	0.06	92	0.3	0.03	3.5	1.28	<0.1	<0.02
J220	Soil	5.3	9.6	0.11	599.0	<0.001	1	0.74	0.029	0.07	<0.1	0.2	0.06	0.09	168	0.6	<0.02	1.5	0.60	<0.1	<0.02
J221	Soil	9.4	10.3	0.11	560.1	0.002	<1	0.82	0.018	0.07	<0.1	0.2	0.03	0.09	131	0.5	<0.02	1.9	0.53	<0.1	<0.02
J222	Soil	7.1	15.5	0.16	928.2	0.005	<1	1.18	0.025	0.08	<0.1	0.3	0.09	0.05	113	0.4	0.05	3.5	0.94	<0.1	<0.02
J223	Soil	21.5	15.7	0.13	349.3	0.022	<1	1.02	0.015	0.05	<0.1	0.6	0.04	0.05	129	0.5	0.04	2.7	0.66	<0.1	<0.02
J224	Soil	9.7	10.9	0.08	327.7	0.001	1	0.73	0.019	0.07	<0.1	0.1	0.05	0.08	183	0.5	0.04	1.7	0.58	<0.1	<0.02
J225	Soil	5.9	6.2	0.10	402.4	0.001	<1	0.37	0.022	0.08	<0.1	0.2	0.06	0.09	188	0.3	<0.02	1.1	0.77	<0.1	<0.02
J226	Soil	13.5	12.2	0.14	402.2	0.006	<1	1.13	0.017	0.06	<0.1	0.3	0.04	0.07	131	0.4	0.02	2.7	0.91	<0.1	<0.02
J227	Soil	4.9	7.5	0.10	197.3	0.002	<1	0.77	0.015	0.08	<0.1	0.1	0.06	0.12	244	0.4	0.04	1.6	1.00	<0.1	<0.02
J228	Soil	10.4	10.7	0.10	233.7	0.001	<1	0.87	0.020	0.06	<0.1	0.1	0.03	0.11	140	0.6	0.04	1.9	0.98	<0.1	<0.02
J229	Soil	14.7	10.3	0.08	300.9	0.002	<1	0.84	0.014	0.04	<0.1	0.2	0.03	0.13	210	0.8	0.03	1.8	1.09	<0.1	<0.02
J230	Soil	18.4	10.2	0.10	403.0	0.001	<1	0.95	0.013	0.06	<0.1	0.2	0.03	0.12	193	0.5	0.02	1.6	0.66	<0.1	<0.02



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Project: Cold
Report Date: August 09, 2011

Page: 2 of 2 Part 3

CERTIFICATE OF ANALYSIS

VAN11003510.1

	Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10
J203	Soil	1.25	3.8	0.3	<0.05	0.4	7.52	41.7	0.02	<1	1.2	1.0	<10
J204	Soil	1.25	3.2	0.3	<0.05	0.3	5.34	25.0	0.02	<1	0.5	1.0	<10
J205	Soil	1.38	5.2	0.4	<0.05	0.1	6.49	31.0	0.04	<1	0.8	2.2	<10
J206	Soil	0.61	4.9	0.2	<0.05	<0.1	7.52	27.0	<0.02	<1	0.6	1.2	<10
J207	Soil	1.10	6.5	0.4	<0.05	0.3	7.86	32.8	0.10	<1	0.8	1.9	20
J208	Soil	0.49	4.9	0.2	<0.05	0.1	5.20	25.2	0.03	<1	0.8	1.1	<10
J209	Soil	0.55	5.8	0.3	<0.05	<0.1	6.52	29.7	0.08	<1	0.9	2.0	11
J210	Soil	0.57	4.6	0.3	<0.05	<0.1	5.03	25.3	0.04	<1	0.9	2.4	<10
J211	Soil	0.75	5.4	0.2	<0.05	<0.1	3.86	22.7	<0.02	<1	0.3	2.7	<10
J212	Soil	0.83	6.1	0.3	<0.05	0.1	3.11	15.1	<0.02	<1	0.5	2.5	<10
J213	Soil	0.45	4.5	0.2	<0.05	0.1	3.24	15.2	<0.02	<1	0.6	1.0	<10
J214	Soil	0.81	8.0	0.3	<0.05	0.1	2.09	12.1	<0.02	<1	0.4	3.4	<10
J215	Soil	0.48	7.0	0.1	<0.05	0.1	3.67	17.5	<0.02	1	0.4	1.9	<10
J216	Soil	2.26	8.2	0.4	<0.05	1.4	2.80	19.6	<0.02	<1	0.3	9.3	<10
J217	Soil	0.49	5.4	0.1	<0.05	0.1	5.66	29.0	<0.02	<1	0.5	1.2	<10
J219	Soil	1.67	11.7	0.4	<0.05	0.5	1.72	13.8	<0.02	<1	0.2	4.6	<10
J220	Soil	0.28	5.4	0.2	<0.05	<0.1	2.05	10.3	<0.02	<1	0.5	1.0	12
J221	Soil	0.41	8.3	0.2	<0.05	0.1	3.44	16.3	0.02	<1	0.8	1.4	10
J222	Soil	0.49	8.8	0.4	<0.05	0.4	2.90	13.2	0.02	<1	0.6	2.1	27
J223	Soil	2.08	4.9	0.3	<0.05	0.6	6.36	36.8	0.02	<1	0.8	2.0	<10
J224	Soil	0.60	4.8	0.2	<0.05	<0.1	3.44	15.6	0.03	<1	0.6	1.0	<10
J225	Soil	0.23	6.7	0.4	<0.05	<0.1	1.86	8.3	<0.02	<1	0.2	0.8	<10
J226	Soil	1.10	7.2	0.3	<0.05	0.3	4.26	24.7	<0.02	<1	0.9	2.3	<10
J227	Soil	0.70	7.2	0.2	<0.05	0.1	1.72	8.9	<0.02	<1	0.3	1.5	<10
J228	Soil	0.79	4.4	0.3	<0.05	<0.1	5.03	19.8	0.02	<1	0.6	1.9	<10
J229	Soil	1.29	3.9	0.2	<0.05	0.2	5.06	29.1	0.04	1	0.8	1.2	<10
J230	Soil	0.65	4.1	0.2	<0.05	<0.1	6.31	31.3	0.04	1	0.7	1.7	<10



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Project: Cold

Report Date: August 09, 2011

Page: 1 of 1 Part 1

QUALITY CONTROL REPORT

VAN11003510.1

	Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		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																				
J219	Soil	1.23	9.48	6.04	43.3	658	10.3	8.3	1038	1.50	4.1	0.4	0.5	<0.1	23.8	0.41	0.24	0.12	34	0.20
REP J219	QC	1.31	11.27	6.86	54.0	793	11.5	8.6	1135	1.70	4.3	0.5	0.8	<0.1	26.4	0.51	0.29	0.13	38	0.23
Reference Materials																				
STD DS8	Standard	13.58	107.9	129.1	324.0	1885	38.9	7.6	624	2.48	25.4	2.7	113.0	7.1	67.5	2.28	5.48	6.64	41	0.70
STD DS8 Expected		13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7
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



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Delta BC V4K 4W6 Canada

Project: Cold

Report Date: August 09, 2011

Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

VAN11003510.1

	Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		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																					
J219	Soil	6.8	17.1	0.22	292.4	0.029	<1	0.89	0.017	0.09	<0.1	0.6	0.07	0.06	92	0.3	0.03	3.5	1.28	<0.1	<0.02
REP J219	QC	7.8	19.8	0.25	327.1	0.035	<1	1.00	0.020	0.10	<0.1	0.7	0.09	0.07	123	0.3	<0.02	4.2	1.52	<0.1	<0.02
Reference Materials																					
STD DS8	Standard	15.7	112.1	0.62	263.0	0.107	3	0.92	0.089	0.41	2.6	2.0	5.23	0.16	198	5.0	5.02	4.5	2.30	<0.1	0.10
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13	0.08
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



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Project: Cold

Report Date: August 09, 2011

Page: 1 of 1 Part 3

QUALITY CONTROL REPORT

VAN11003510.1

	Method Analyte Unit MDL	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10
Pulp Duplicates													
J219	Soil	1.67	11.7	0.4	<0.05	0.5	1.72	13.8	<0.02	<1	0.2	4.6	<10
REP J219	QC	1.66	13.9	0.4	<0.05	0.5	1.93	16.3	<0.02	<1	0.4	5.2	<10
Reference Materials													
STD DS8	Standard	1.09	35.5	7.1	<0.05	2.2	5.52	29.7	2.13	49	5.3	27.5	115
STD DS8 Expected		1.65	39	6.7	0.003	2.3	6.1	29.8	2.19	55	5.2	26.34	110
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10



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Client: **Richards, Gordon**
6410 Holly Park Drive
Delta BC V4K 4W6 Canada

Submitted By: Gordon Richards
Receiving Lab: Canada-Whitehorse
Received: May 30, 2011
Report Date: June 06, 2011
Page: 1 of 2

CERTIFICATE OF ANALYSIS

WHI11000154.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 7

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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: Richards, Gordon
6410 Holly Park Drive
Delta BC V4K 4W6
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	7	Dry at 60C sieve 100g to -80 mesh			WHI
Dry at 60C	7	Dry at 60C			WHI
1DX2	7	1:1:1 Aqua Regia digestion ICP-MS analysis	15	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. 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.



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Client: **Richards, Gordon**
6410 Holly Park Drive
Delta BC V4K 4W6 Canada

Project: None Given
Report Date: June 06, 2011

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

WHI11000154.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		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	1
Q25	Soil	0.6	8.9	14.0	112	<0.1	14.4	14.2	779	4.55	2.8	1.6	15.9	33	<0.1	0.3	0.3	76	0.35	0.064	36
Q27	Soil	1.0	15.5	9.0	61	<0.1	23.3	11.2	362	2.95	8.9	2.5	5.3	16	<0.1	0.5	0.2	56	0.20	0.070	12
S1	Soil	1.5	46.5	7.3	56	<0.1	42.1	9.2	261	2.70	7.8	3.2	4.2	17	<0.1	0.4	0.1	55	0.19	0.044	13
S2	Soil	1.3	10.3	6.0	98	<0.1	9.8	15.2	982	4.22	4.7	<0.5	2.6	15	<0.1	0.4	<0.1	84	0.36	0.202	5
S3	Soil	2.7	55.9	15.9	98	<0.1	16.3	13.1	440	3.39	23.4	0.8	5.6	14	0.2	0.8	<0.1	44	0.19	0.065	7
S4	Soil	1.2	49.3	4.8	77	<0.1	15.1	12.5	556	3.73	5.4	0.9	5.4	17	<0.1	0.3	<0.1	79	0.33	0.138	22
A198	Soil	0.7	8.7	7.3	51	0.1	11.8	6.7	206	1.78	9.4	9.2	2.9	22	0.1	0.5	0.1	36	0.32	0.064	18



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Delta BC V4K 4W6 Canada

Project: None Given
Report Date: June 06, 2011

Page: 2 of 2 **Part** 2

CERTIFICATE OF ANALYSIS

WHI11000154.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		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
		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
Q25	Soil	25	1.15	354	0.140	1	2.68	0.009	1.01	<0.1	<0.01	9.0	0.8	<0.05	10	<0.5	<0.2
Q27	Soil	31	0.62	199	0.087	1	1.87	0.007	0.11	0.1	0.03	3.0	0.2	<0.05	6	<0.5	<0.2
S1	Soil	59	0.66	139	0.067	<1	1.72	0.007	0.08	0.1	0.02	3.1	0.2	<0.05	5	<0.5	<0.2
S2	Soil	18	0.95	88	0.085	<1	2.11	0.006	0.53	<0.1	0.01	4.0	0.2	<0.05	8	0.6	<0.2
S3	Soil	15	0.25	105	0.007	3	1.34	0.007	0.08	<0.1	0.01	3.3	0.1	<0.05	4	0.5	<0.2
S4	Soil	18	0.91	162	0.164	<1	2.21	0.009	0.79	0.3	<0.01	3.6	0.3	<0.05	8	<0.5	<0.2
A198	Soil	22	0.35	219	0.050	1	1.12	0.009	0.08	0.2	0.04	2.4	0.1	<0.05	4	0.6	<0.2



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Project: None Given

Report Date: June 06, 2011

Page: 1 of 1 Part 1

QUALITY CONTROL REPORT

WHI11000154.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		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	1
Pulp Duplicates																					
Q27	Soil	1.0	15.5	9.0	61	<0.1	23.3	11.2	362	2.95	8.9	2.5	5.3	16	<0.1	0.5	0.2	56	0.20	0.070	12
REP Q27	QC	1.1	15.7	9.1	61	<0.1	22.1	11.1	364	2.99	9.1	<0.5	5.2	16	0.1	0.5	0.2	57	0.20	0.067	12
Reference Materials																					
STD DS8	Standard	12.3	113.5	127.6	335	2.0	40.3	7.9	618	2.52	27.1	117.4	6.7	64	2.3	6.0	7.0	41	0.64	0.081	13
STD DS8	Standard	13.0	112.3	125.6	331	2.0	39.6	7.6	618	2.49	27.7	115.9	6.5	64	2.4	5.8	6.9	41	0.65	0.084	13
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	14.6
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	<1



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Client: **Richards, Gordon**

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Project: None Given

Report Date: June 06, 2011

Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

WHI11000154.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		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
		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																	
Q27	Soil	31	0.62	199	0.087	1	1.87	0.007	0.11	0.1	0.03	3.0	0.2	<0.05	6	<0.5	<0.2
REP Q27	QC	30	0.64	193	0.086	<1	1.86	0.007	0.12	0.2	0.03	3.1	0.2	<0.05	6	0.5	<0.2
Reference Materials																	
STD DS8	Standard	119	0.62	287	0.112	2	0.89	0.082	0.43	3.2	0.23	2.0	5.7	0.15	5	4.5	4.8
STD DS8	Standard	120	0.62	291	0.114	2	0.89	0.082	0.42	3.0	0.24	1.9	5.4	0.16	4	5.5	4.9
STD DS8 Expected		115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<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



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Client: **Richards, Gordon**
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Submitted By: Gordon Richards
Receiving Lab: Canada-Whitehorse
Received: July 26, 2011
Report Date: August 13, 2011
Page: 1 of 7

CERTIFICATE OF ANALYSIS

WHI11000744.1

CLIENT JOB INFORMATION

Project: Cold
Shipment ID:
P.O. Number
Number of Samples: 173

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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: Richards, Gordon
6410 Holly Park Drive
Delta BC V4K 4W6
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	173	Dry at 60C			WHI
SS80	173	Dry at 60C sieve 100g to -80 mesh			WHI
1DX2	172	1:1:1 Aqua Regia digestion ICP-MS analysis	15	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. Acme 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: Cold
Report Date: August 13, 2011

Page: 2 of 7 Part 1

CERTIFICATE OF ANALYSIS

WHI11000744.1

	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
					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	1
G122	Soil		1.0	23.0	8.5	67	<0.1	20.0	9.7	371	2.90	8.9	3.4	5.1	23	0.1	0.7	0.3	60	0.29	0.057	20		
G123	Soil		1.2	24.2	8.9	80	<0.1	18.3	11.2	447	3.39	7.3	3.3	5.8	18	0.2	0.6	0.3	76	0.20	0.051	22		
G124	Soil		1.1	22.7	9.9	117	<0.1	20.3	12.9	507	3.30	9.0	1.3	5.9	19	0.1	0.6	0.2	67	0.23	0.057	17		
G126	Soil		0.9	22.8	9.4	89	<0.1	20.9	9.0	370	2.76	8.1	1.5	5.6	22	0.2	0.6	0.2	57	0.30	0.072	22		
G133	Soil		0.8	28.6	22.9	155	<0.1	25.5	17.5	774	4.97	10.3	0.9	7.3	28	0.2	0.8	0.3	120	0.28	0.049	27		
G136	Soil		0.9	37.0	11.8	82	<0.1	21.3	11.7	559	3.13	8.4	2.8	7.4	24	0.1	0.8	0.2	53	0.28	0.060	32		
G101	Soil		0.5	12.0	7.9	98	<0.1	19.4	11.6	607	3.75	4.0	1.2	13.1	13	0.1	0.2	0.2	61	0.27	0.099	18		
G102	Soil		0.5	11.4	6.2	63	<0.1	14.4	8.5	346	2.67	5.7	2.4	7.9	19	<0.1	0.3	0.1	47	0.31	0.091	17		
G103	Soil		0.6	15.0	5.9	51	0.1	14.0	5.8	184	1.85	7.9	1.1	7.2	21	0.2	0.6	0.1	39	0.34	0.086	21		
G104	Soil		0.7	17.0	4.8	47	<0.1	12.3	4.7	187	1.60	5.1	1.9	4.3	13	0.1	0.5	<0.1	31	0.25	0.081	11		
G105	Soil		0.9	26.2	7.1	63	0.1	18.4	8.0	403	2.10	9.8	1.2	6.8	13	0.2	0.6	<0.1	39	0.23	0.075	16		
G106	Soil		0.6	12.0	8.4	73	<0.1	17.0	9.8	396	3.24	7.2	<0.5	12.3	16	<0.1	0.3	0.1	59	0.24	0.067	18		
G107	Soil		0.5	20.5	9.7	102	<0.1	13.3	10.7	499	3.71	5.8	<0.5	17.1	15	<0.1	0.2	1.0	53	0.31	0.075	19		
G108	Soil		0.4	16.5	7.5	65	<0.1	13.6	7.1	333	2.55	5.2	<0.5	19.6	17	<0.1	0.3	0.2	44	0.27	0.072	32		
G109	Soil		0.3	10.9	6.9	89	<0.1	8.0	8.1	416	3.25	2.9	0.7	14.1	18	<0.1	0.1	0.3	42	0.27	0.051	16		
J101	Soil		0.6	12.7	9.0	105	<0.1	13.0	11.4	621	4.10	5.4	<0.5	16.2	26	0.1	0.2	0.2	67	0.44	0.131	30		
J102	Soil		0.9	19.3	8.3	56	<0.1	19.5	8.8	322	2.55	7.4	2.4	12.3	22	<0.1	0.4	0.2	54	0.27	0.068	41		
J103	Soil		1.0	15.4	8.5	78	<0.1	19.5	12.7	443	3.43	10.1	0.7	11.9	20	<0.1	0.5	0.1	60	0.29	0.099	26		
J104	Soil		0.5	5.5	5.2	37	<0.1	8.2	3.6	112	1.45	3.8	29.6	3.2	16	<0.1	0.2	<0.1	31	0.24	0.068	16		
J105	Soil		0.9	16.9	8.5	65	0.2	20.2	9.2	336	2.51	9.8	1.2	12.5	25	<0.1	1.1	0.1	47	0.38	0.091	35		
J106	Soil		0.9	19.0	8.0	55	0.2	16.0	6.3	141	2.39	7.1	2.0	5.6	20	0.1	0.5	0.1	47	0.23	0.067	21		
J107	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.		
J108	Soil		0.5	8.3	6.6	55	<0.1	12.6	6.7	380	1.68	4.1	2.3	5.0	13	<0.1	0.3	<0.1	23	0.27	0.061	12		
J109	Soil		0.5	13.5	11.4	69	<0.1	16.8	8.2	378	2.96	6.8	<0.5	10.9	35	<0.1	0.2	0.2	46	0.39	0.067	19		
J110	Soil		0.2	11.1	9.1	86	<0.1	10.0	8.7	466	3.20	3.3	0.6	19.7	16	<0.1	0.2	0.4	48	0.30	0.085	38		
J111	Soil		1.0	33.4	8.7	64	<0.1	26.4	7.2	240	2.24	8.9	4.1	6.4	17	0.1	0.8	0.1	39	0.20	0.055	16		
J112	Soil		0.7	22.6	4.8	42	<0.1	14.1	4.7	148	1.35	4.8	1.8	3.7	16	0.1	0.5	<0.1	28	0.19	0.039	11		
J113	Soil		0.8	25.6	4.9	52	<0.1	15.4	6.4	185	1.47	4.7	4.5	4.7	13	0.2	0.7	<0.1	31	0.18	0.054	12		
J114	Soil		0.5	7.4	5.3	45	<0.1	11.4	6.2	264	1.52	2.6	<0.5	7.0	20	<0.1	<0.1	<0.1	27	0.40	0.082	14		
J115	Soil		0.9	10.9	9.1	68	<0.1	19.9	10.1	337	3.09	6.2	0.7	10.2	19	<0.1	0.3	0.2	52	0.25	0.069	14		



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		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
		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
G122	Soil	31	0.63	391	0.108	1	1.59	0.011	0.14	0.5	0.03	4.1	0.3	0.06	5	<0.5	<0.2
G123	Soil	26	0.61	372	0.111	<1	1.63	0.010	0.23	0.1	0.01	5.3	0.4	<0.05	6	<0.5	<0.2
G124	Soil	31	0.71	328	0.127	<1	2.11	0.009	0.27	0.2	0.02	4.5	0.5	<0.05	6	<0.5	<0.2
G126	Soil	27	0.59	391	0.101	<1	1.60	0.011	0.23	0.2	0.02	4.9	0.2	<0.05	5	0.6	<0.2
G133	Soil	20	1.06	576	0.199	<1	2.37	0.008	0.69	0.1	0.02	9.7	5.9	<0.05	7	0.5	<0.2
G136	Soil	24	0.56	371	0.080	<1	1.61	0.008	0.21	0.3	0.05	5.4	0.7	<0.05	5	0.8	<0.2
G101	Soil	21	0.92	269	0.161	<1	2.73	0.012	0.96	<0.1	<0.01	7.6	0.8	<0.05	10	0.8	<0.2
G102	Soil	21	0.60	165	0.098	1	1.50	0.010	0.42	0.2	0.02	3.8	0.3	<0.05	5	<0.5	<0.2
G103	Soil	24	0.46	208	0.087	<1	1.15	0.011	0.22	0.2	0.02	3.1	0.1	<0.05	4	<0.5	<0.2
G104	Soil	20	0.43	169	0.076	<1	0.97	0.007	0.36	<0.1	<0.01	1.8	0.2	<0.05	3	<0.5	<0.2
G105	Soil	23	0.54	296	0.086	<1	1.29	0.008	0.44	0.2	<0.01	2.5	0.3	<0.05	4	<0.5	<0.2
G106	Soil	25	0.77	216	0.126	<1	2.26	0.008	0.53	<0.1	<0.01	5.8	0.5	<0.05	8	<0.5	<0.2
G107	Soil	20	0.83	249	0.146	<1	2.51	0.014	1.03	0.1	<0.01	4.5	1.0	<0.05	9	<0.5	<0.2
G108	Soil	19	0.57	215	0.100	<1	1.78	0.009	0.50	0.2	<0.01	5.6	0.5	<0.05	7	<0.5	<0.2
G109	Soil	14	0.65	183	0.143	<1	2.43	0.020	0.86	0.2	<0.01	4.1	0.8	<0.05	9	<0.5	<0.2
J101	Soil	23	1.00	394	0.169	<1	2.71	0.012	1.00	0.2	<0.01	8.3	0.8	<0.05	10	<0.5	<0.2
J102	Soil	31	0.50	238	0.117	<1	1.52	0.010	0.12	0.2	0.04	4.7	0.1	<0.05	5	<0.5	<0.2
J103	Soil	28	0.65	233	0.120	<1	1.86	0.009	0.26	0.3	0.03	4.4	0.2	<0.05	7	<0.5	<0.2
J104	Soil	16	0.26	100	0.057	<1	0.91	0.007	0.07	0.3	0.02	1.8	<0.1	<0.05	3	<0.5	<0.2
J105	Soil	34	0.64	170	0.095	<1	1.64	0.011	0.41	0.1	0.03	4.2	0.3	<0.05	6	<0.5	<0.2
J106	Soil	26	0.40	194	0.079	<1	1.63	0.009	0.10	0.1	0.04	2.9	<0.1	<0.05	5	<0.5	<0.2
J107	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.
J108	Soil	14	0.29	271	0.048	<1	0.97	0.010	0.16	0.1	0.01	1.6	<0.1	<0.05	3	<0.5	<0.2
J109	Soil	27	0.73	224	0.106	<1	2.25	0.019	0.45	<0.1	0.01	3.0	0.4	<0.05	8	<0.5	<0.2
J110	Soil	16	0.72	173	0.106	<1	2.23	0.009	0.59	<0.1	<0.01	6.3	0.5	<0.05	10	<0.5	<0.2
J111	Soil	28	0.48	309	0.076	<1	1.37	0.006	0.32	<0.1	0.01	3.0	0.2	<0.05	4	<0.5	<0.2
J112	Soil	16	0.29	254	0.056	<1	0.75	0.008	0.12	<0.1	0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
J113	Soil	19	0.32	261	0.065	<1	0.84	0.007	0.23	0.1	<0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
J114	Soil	23	0.45	202	0.062	<1	1.10	0.010	0.24	0.1	<0.01	2.2	0.1	<0.05	4	<0.5	<0.2
J115	Soil	27	0.59	233	0.126	<1	2.15	0.009	0.50	0.1	0.01	3.5	0.4	<0.05	7	<0.5	<0.2



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CERTIFICATE OF ANALYSIS

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	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
					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	1
J116	Soil		0.5	9.8	8.3	99	<0.1	13.8	12.9	617	3.96	4.0	<0.5	14.9	13	<0.1	0.2	0.2	60	0.28	0.119	28		
J117	Soil		0.5	16.4	8.4	67	<0.1	15.1	7.4	350	2.68	4.8	<0.5	17.9	14	<0.1	0.3	0.2	44	0.19	0.050	32		
J118	Soil		2.7	71.5	8.6	184	0.2	136.7	20.2	236	2.92	4.0	1.8	6.3	55	0.4	0.2	0.2	71	0.45	0.075	21		
J119	Soil		0.9	55.3	10.7	114	<0.1	39.2	9.5	272	2.99	33.1	7.0	8.2	26	0.2	0.4	0.6	60	0.17	0.042	21		
J121	Soil		1.0	28.0	11.5	56	<0.1	25.4	10.0	319	2.40	14.6	3.7	5.1	18	0.1	0.6	0.3	54	0.16	0.018	20		
J122	Soil		0.9	30.2	19.1	51	0.2	22.6	8.0	243	2.41	10.4	3.4	4.8	16	<0.1	0.7	0.2	50	0.11	0.014	16		
J123	Soil		1.2	37.5	15.8	61	0.1	26.0	8.4	242	2.48	11.0	3.1	4.4	25	0.1	0.8	0.2	50	0.26	0.049	15		
J124	Soil		1.1	56.9	18.6	90	0.2	28.0	8.3	170	2.86	6.9	6.3	5.9	14	<0.1	0.6	0.2	44	0.13	0.024	21		
J125	Soil		1.2	34.0	30.5	78	0.3	24.2	9.0	276	2.53	10.9	7.0	4.5	18	0.3	0.8	0.2	54	0.15	0.020	17		
J126	Soil		0.8	24.8	14.9	63	0.1	19.9	8.8	339	2.36	7.7	2.8	3.9	18	0.2	0.5	0.1	59	0.21	0.045	14		
J127	Soil		0.9	34.2	111.5	75	0.2	27.7	12.1	421	2.82	17.2	2.5	3.9	17	0.2	0.7	0.1	77	0.19	0.024	14		
J128	Soil		0.4	30.2	29.3	124	0.5	16.4	25.1	648	6.09	33.8	9.2	1.3	19	0.8	0.4	<0.1	247	0.36	0.070	4		
J130	Soil		0.5	38.5	10.6	67	<0.1	41.4	15.6	617	3.64	8.3	3.2	2.8	30	0.1	0.6	<0.1	109	0.43	0.027	9		
J131	Soil		0.6	28.0	9.1	56	<0.1	19.2	9.3	278	2.54	8.4	3.5	3.8	20	<0.1	0.5	0.1	74	0.26	0.024	13		
J132	Soil		0.7	52.6	10.8	97	<0.1	26.2	22.0	1036	6.51	11.6	3.6	3.1	25	0.1	0.4	0.1	191	0.30	0.026	12		
J133	Soil		0.4	29.3	6.9	77	<0.1	24.1	19.3	515	4.66	7.1	3.4	2.3	19	<0.1	0.4	<0.1	188	0.27	0.055	7		
J134	Soil		0.3	30.1	7.6	89	<0.1	26.8	28.1	1028	6.11	5.1	3.1	1.8	16	<0.1	0.3	<0.1	269	0.25	0.051	11		
J135	Soil		1.5	39.2	13.3	71	0.2	29.8	10.3	244	2.90	28.8	4.1	5.5	13	0.1	0.5	0.2	52	0.12	0.033	17		
J136	Soil		0.9	20.6	8.2	46	<0.1	19.0	8.5	260	2.07	14.1	11.3	4.0	17	0.2	0.5	0.1	43	0.15	0.034	13		
J137	Soil		1.6	43.4	10.9	72	1.0	28.2	10.2	314	2.83	14.0	5.8	5.2	16	0.2	0.6	0.2	63	0.11	0.020	18		
J138	Soil		1.9	61.4	36.6	190	0.3	43.7	8.8	321	3.03	34.9	6.0	5.4	16	0.5	0.8	0.2	57	0.12	0.024	21		
J139	Soil		1.1	25.0	12.2	65	<0.1	25.1	8.3	288	2.23	12.7	7.0	4.0	21	0.2	0.6	0.1	44	0.21	0.036	12		
J140	Soil		1.1	19.9	10.7	65	0.1	21.9	7.8	242	2.45	12.4	3.1	5.8	13	0.2	0.5	0.2	47	0.11	0.024	16		
J141	Soil		1.6	38.6	13.5	128	<0.1	28.6	15.6	646	4.65	7.1	2.6	5.9	16	0.1	0.7	0.2	103	0.16	0.050	20		
J142	Soil		0.8	26.9	16.4	85	<0.1	27.0	10.9	334	3.37	4.0	1.9	14.3	15	0.1	0.3	0.2	23	0.22	0.058	36		
J143	Soil		1.2	17.3	11.2	56	<0.1	14.4	6.1	237	2.17	7.3	5.0	8.2	21	<0.1	0.6	0.3	43	0.37	0.104	23		
J144	Soil		0.6	9.2	8.9	99	<0.1	9.6	9.5	507	3.79	4.1	0.6	20.2	32	<0.1	0.3	0.1	62	0.45	0.123	52		
J148	Soil		0.2	10.3	6.9	94	<0.1	10.1	9.6	508	3.50	2.5	2.6	24.0	29	<0.1	0.1	0.2	55	0.39	0.113	44		
J149	Soil		0.3	14.4	10.9	109	<0.1	9.7	8.8	442	3.64	3.0	1.1	21.8	46	<0.1	0.2	0.5	53	0.45	0.090	63		
J150	Soil		0.4	12.5	4.5	39	<0.1	11.9	4.6	200	1.55	4.0	1.5	8.8	17	<0.1	0.4	<0.1	29	0.29	0.080	23		



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		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
		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
J116	Soil	20	0.85	227	0.161	<1	2.53	0.008	1.20	0.1	<0.01	7.1	1.0	<0.05	11	<0.5	<0.2
J117	Soil	22	0.61	322	0.103	<1	1.93	0.007	0.58	<0.1	0.01	5.4	0.5	<0.05	8	<0.5	<0.2
J118	Soil	531	1.97	1123	0.122	<1	2.02	0.007	0.33	<0.1	<0.01	2.7	0.3	<0.05	6	1.2	<0.2
J119	Soil	43	0.91	866	0.119	<1	2.10	0.006	0.51	<0.1	<0.01	3.1	0.4	<0.05	6	0.6	<0.2
J121	Soil	38	0.50	264	0.062	<1	1.62	0.007	0.06	<0.1	0.02	4.6	<0.1	<0.05	5	<0.5	<0.2
J122	Soil	31	0.44	284	0.062	2	1.42	0.013	0.05	0.1	0.05	4.6	<0.1	<0.05	4	<0.5	<0.2
J123	Soil	32	0.48	369	0.069	<1	1.28	0.010	0.07	0.1	0.04	4.1	<0.1	<0.05	4	0.6	<0.2
J124	Soil	38	0.82	370	0.107	<1	1.62	0.006	0.39	<0.1	0.03	3.5	0.3	<0.05	5	<0.5	<0.2
J125	Soil	30	0.51	301	0.072	<1	1.35	0.008	0.06	0.1	0.02	4.7	<0.1	<0.05	4	<0.5	<0.2
J126	Soil	23	0.60	407	0.075	<1	1.34	0.010	0.16	0.1	0.02	4.4	0.1	<0.05	4	<0.5	<0.2
J127	Soil	39	0.84	371	0.113	<1	1.61	0.007	0.17	0.1	<0.01	5.5	0.1	<0.05	5	<0.5	<0.2
J128	Soil	22	2.22	1092	0.257	<1	3.33	0.008	1.14	<0.1	0.01	14.8	0.2	<0.05	12	<0.5	<0.2
J130	Soil	81	1.48	623	0.163	<1	2.34	0.012	0.23	<0.1	0.03	9.2	0.1	<0.05	7	<0.5	<0.2
J131	Soil	21	0.64	412	0.091	<1	1.38	0.007	0.13	0.1	0.01	4.7	0.1	<0.05	4	0.6	<0.2
J132	Soil	21	1.79	1017	0.381	<1	3.35	0.010	1.27	<0.1	0.03	13.4	0.4	<0.05	11	<0.5	<0.2
J133	Soil	23	1.29	1066	0.237	<1	2.36	0.009	0.78	<0.1	0.03	10.1	0.2	<0.05	9	<0.5	<0.2
J134	Soil	36	2.29	798	0.302	<1	3.38	0.008	1.43	<0.1	0.01	14.9	0.3	<0.05	12	<0.5	<0.2
J135	Soil	39	0.68	213	0.102	<1	1.66	0.006	0.17	0.1	0.02	2.9	0.2	<0.05	5	<0.5	<0.2
J136	Soil	26	0.41	236	0.058	<1	1.12	0.008	0.06	0.1	0.02	3.3	<0.1	<0.05	3	<0.5	<0.2
J137	Soil	39	0.46	298	0.109	<1	1.73	0.010	0.05	0.1	0.11	5.2	0.1	<0.05	5	<0.5	<0.2
J138	Soil	38	0.67	291	0.094	<1	1.52	0.007	0.17	<0.1	0.07	4.7	0.2	<0.05	5	0.9	<0.2
J139	Soil	32	0.47	256	0.064	<1	1.12	0.008	0.06	0.1	0.03	3.2	<0.1	<0.05	3	<0.5	<0.2
J140	Soil	30	0.42	202	0.067	5	1.40	0.007	0.05	0.1	0.02	3.3	0.1	<0.05	4	<0.5	<0.2
J141	Soil	21	0.60	524	0.075	<1	1.35	0.006	0.23	<0.1	0.05	10.4	0.2	<0.05	5	<0.5	<0.2
J142	Soil	21	0.49	259	0.100	<1	1.25	0.004	0.58	<0.1	<0.01	2.7	0.4	<0.05	4	<0.5	<0.2
J143	Soil	29	0.56	226	0.104	<1	1.21	0.009	0.43	0.2	0.02	3.5	0.3	<0.05	5	<0.5	<0.2
J144	Soil	19	0.84	234	0.152	<1	2.31	0.013	1.10	0.1	<0.01	6.3	0.7	<0.05	11	<0.5	<0.2
J148	Soil	16	0.86	329	0.158	<1	2.37	0.010	1.02	<0.1	<0.01	7.7	0.8	<0.05	10	<0.5	<0.2
J149	Soil	17	0.78	223	0.116	<1	2.27	0.012	1.00	0.1	0.01	6.1	0.9	<0.05	10	<0.5	<0.2
J150	Soil	23	0.44	192	0.082	<1	1.09	0.009	0.39	0.1	0.02	3.4	0.2	<0.05	4	<0.5	<0.2



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Project: Cold
Report Date: August 13, 2011

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	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
					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	1
J152	Soil		0.5	10.1	7.5	101	<0.1	17.0	12.1	469	3.92	4.8	<0.5	14.6	17	<0.1	0.2	<0.1	66	0.30	0.122	31		
J153	Soil		0.5	17.1	11.6	57	<0.1	20.3	7.9	338	2.08	7.5	1.7	10.9	20	0.1	0.7	0.1	39	0.33	0.084	25		
J154	Soil		0.5	15.6	9.7	49	<0.1	13.0	6.3	387	2.03	5.4	1.9	10.0	18	<0.1	0.5	0.3	36	0.31	0.095	24		
J155	Soil		0.5	14.9	24.6	47	<0.1	12.0	5.2	228	1.67	6.3	3.1	9.2	23	<0.1	0.7	0.2	34	0.28	0.050	25		
J158	Soil		<0.1	5.6	8.4	59	<0.1	6.6	5.2	368	2.06	2.2	0.7	13.2	87	<0.1	0.2	<0.1	32	0.66	0.073	27		
J160	Soil		1.8	22.7	19.1	73	<0.1	15.1	10.0	749	3.18	8.2	1.9	6.9	24	0.2	0.6	0.3	34	0.28	0.067	21		
J161	Soil		1.0	18.2	11.7	50	<0.1	17.4	6.1	258	2.30	6.2	5.4	5.1	27	<0.1	0.5	0.2	40	0.30	0.090	18		
J162	Soil		0.6	23.2	6.4	92	<0.1	24.6	16.6	848	4.11	5.0	18.3	4.3	35	0.1	0.3	0.2	90	0.56	0.121	16		
J163	Soil		0.8	19.7	7.6	51	<0.1	19.0	8.9	248	2.33	7.3	19.1	4.0	28	<0.1	0.5	0.2	49	0.38	0.083	18		
J164	Soil		1.0	23.1	10.1	63	0.1	18.8	7.9	259	2.61	79.9	2.6	6.3	26	0.2	1.3	0.2	41	0.28	0.063	21		
J165	Soil		0.7	12.9	7.5	44	<0.1	15.1	6.8	251	2.14	11.0	6.0	4.6	26	<0.1	0.4	<0.1	43	0.29	0.065	20		
J166	Soil		1.2	17.7	10.5	60	<0.1	20.9	10.6	349	2.85	13.0	4.5	6.1	26	<0.1	0.6	0.2	59	0.28	0.061	26		
J167	Soil		1.7	15.0	11.1	66	<0.1	22.3	12.3	442	3.22	12.0	3.9	5.9	25	<0.1	0.5	0.2	68	0.25	0.071	19		
J168	Soil		1.4	20.6	11.0	54	<0.1	22.6	8.9	295	2.79	12.0	4.3	4.3	29	<0.1	0.5	0.2	62	0.29	0.066	24		
J170	Soil		0.6	15.7	7.5	63	<0.1	20.1	9.7	405	2.90	10.0	3.5	7.1	27	0.2	0.6	0.1	59	0.33	0.065	18		
J171	Soil		1.0	18.5	9.1	57	<0.1	21.5	10.0	340	2.74	7.8	7.2	6.9	22	<0.1	0.5	0.2	57	0.22	0.048	23		
J172	Soil		1.3	8.7	11.1	54	<0.1	15.6	11.1	634	2.74	9.5	37.2	4.6	16	0.1	0.4	0.2	57	0.17	0.088	12		
J173	Soil		1.0	10.3	11.8	53	<0.1	14.8	7.6	400	2.08	11.3	3.0	6.5	16	0.2	0.6	0.2	41	0.19	0.060	16		
J174	Soil		1.4	18.4	13.5	57	<0.1	20.5	8.6	390	2.89	19.0	6.1	8.2	17	0.1	0.5	0.3	60	0.16	0.054	17		
J175	Soil		0.8	13.4	11.5	49	<0.1	16.3	7.1	262	2.10	9.7	6.1	8.3	18	<0.1	0.6	0.3	41	0.19	0.041	25		
J178	Soil		0.7	19.2	8.5	62	<0.1	15.4	7.1	312	2.59	6.9	4.0	9.4	26	<0.1	0.5	0.2	40	0.31	0.068	30		
J180	Soil		0.4	7.3	6.3	48	0.1	10.7	5.6	201	1.57	7.4	6.8	3.5	24	0.2	0.4	0.1	32	0.37	0.063	17		
J181	Soil		0.5	16.0	3.4	90	<0.1	9.4	8.2	500	3.72	3.8	3.0	7.4	35	<0.1	0.2	<0.1	86	0.25	0.049	17		
J182	Soil		0.7	16.6	7.4	111	<0.1	17.6	9.4	708	4.10	6.8	3.1	8.7	43	<0.1	0.4	0.2	59	0.30	0.051	26		
J183	Soil		0.8	14.4	15.6	56	<0.1	12.6	5.5	249	2.28	9.5	4.3	38.2	44	<0.1	0.7	0.1	27	0.21	0.024	76		
J184	Soil		0.5	7.4	7.7	100	<0.1	18.0	13.9	727	4.52	5.3	2.1	10.0	30	<0.1	0.2	<0.1	80	0.54	0.140	17		
J185	Soil		1.2	15.8	20.2	111	<0.1	16.7	12.9	772	5.01	17.8	4.9	20.8	33	0.1	0.7	0.1	56	0.42	0.138	45		
J186	Soil		0.8	7.9	8.4	128	<0.1	9.7	9.6	701	4.38	8.7	3.2	10.4	31	<0.1	0.4	0.1	57	0.31	0.078	32		
J187	Soil		0.9	18.2	22.7	67	<0.1	20.3	6.0	803	2.49	14.5	5.0	15.5	33	0.1	0.7	0.1	16	0.24	0.040	47		
J188	Soil		0.6	16.6	20.9	51	<0.1	12.2	5.1	284	2.09	17.0	2.1	19.5	30	<0.1	1.1	0.2	28	0.13	0.025	49		



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		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
		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
J152	Soil	22	0.88	213	0.181	<1	2.82	0.009	1.12	0.1	<0.01	5.0	0.8	<0.05	11	<0.5	<0.2
J153	Soil	43	0.59	277	0.099	<1	1.36	0.017	0.39	0.2	<0.01	4.0	0.3	<0.05	5	<0.5	<0.2
J154	Soil	21	0.53	231	0.097	<1	1.31	0.010	0.50	0.2	0.01	3.7	0.3	<0.05	5	<0.5	<0.2
J155	Soil	17	0.41	241	0.091	<1	1.20	0.011	0.22	0.2	<0.01	3.3	0.2	<0.05	4	<0.5	<0.2
J158	Soil	11	0.49	183	0.066	<1	1.98	0.039	0.60	<0.1	<0.01	3.4	0.4	<0.05	6	<0.5	<0.2
J160	Soil	15	0.47	418	0.068	<1	1.44	0.015	0.28	0.3	<0.01	5.1	0.3	<0.05	4	<0.5	<0.2
J161	Soil	25	0.40	425	0.055	<1	1.05	0.010	0.08	0.1	<0.01	3.5	<0.1	<0.05	3	<0.5	<0.2
J162	Soil	67	1.53	617	0.182	<1	2.89	0.014	0.62	<0.1	<0.01	6.1	0.4	<0.05	10	<0.5	<0.2
J163	Soil	40	0.59	384	0.083	<1	1.27	0.016	0.13	0.2	<0.01	3.4	0.2	<0.05	4	<0.5	<0.2
J164	Soil	23	0.40	348	0.054	1	1.12	0.009	0.13	0.2	<0.01	4.5	0.2	<0.05	3	<0.5	<0.2
J165	Soil	25	0.42	268	0.066	1	1.12	0.013	0.06	0.2	0.03	3.1	<0.1	<0.05	4	<0.5	<0.2
J166	Soil	39	0.58	300	0.094	<1	1.73	0.012	0.08	0.2	0.05	4.6	0.1	<0.05	6	<0.5	<0.2
J167	Soil	49	0.61	293	0.144	<1	1.87	0.011	0.08	0.2	0.04	4.6	0.2	<0.05	7	<0.5	<0.2
J168	Soil	40	0.48	303	0.109	1	1.66	0.013	0.05	0.2	0.05	4.6	0.1	<0.05	6	<0.5	<0.2
J170	Soil	42	0.84	310	0.114	1	1.77	0.012	0.38	0.1	0.03	4.8	0.3	<0.05	6	<0.5	<0.2
J171	Soil	37	0.58	265	0.102	<1	1.76	0.014	0.11	0.3	0.09	4.5	0.2	<0.05	5	<0.5	<0.2
J172	Soil	33	0.41	130	0.102	1	1.34	0.009	0.05	0.2	0.02	2.4	0.1	<0.05	5	<0.5	<0.2
J173	Soil	25	0.38	129	0.056	<1	1.25	0.012	0.07	0.2	0.02	2.3	0.1	<0.05	4	<0.5	<0.2
J174	Soil	36	0.43	189	0.108	1	1.84	0.010	0.05	0.2	0.06	3.7	0.2	<0.05	6	<0.5	<0.2
J175	Soil	26	0.38	192	0.070	<1	1.33	0.010	0.06	0.2	0.05	3.2	0.1	<0.05	4	<0.5	<0.2
J178	Soil	22	0.48	326	0.083	<1	1.71	0.011	0.27	0.2	0.04	5.4	0.3	<0.05	6	<0.5	<0.2
J180	Soil	19	0.33	187	0.054	<1	1.07	0.012	0.06	0.3	0.05	2.4	0.1	<0.05	4	<0.5	<0.2
J181	Soil	9	1.03	327	0.210	<1	2.31	0.023	1.16	<0.1	<0.01	7.2	0.6	<0.05	10	<0.5	<0.2
J182	Soil	23	1.02	214	0.144	2	2.28	0.017	0.69	<0.1	0.03	10.8	0.5	<0.05	11	<0.5	<0.2
J183	Soil	15	0.40	109	0.056	<1	1.45	0.012	0.27	0.1	0.03	4.4	0.3	<0.05	5	<0.5	<0.2
J184	Soil	33	1.35	156	0.185	<1	2.70	0.017	1.44	0.1	0.02	6.8	0.8	<0.05	11	<0.5	<0.2
J185	Soil	23	0.61	166	0.019	<1	1.64	0.013	0.43	<0.1	0.03	5.6	0.1	<0.05	7	<0.5	<0.2
J186	Soil	16	0.70	215	0.099	<1	2.12	0.012	0.77	<0.1	0.02	7.8	0.3	<0.05	10	<0.5	<0.2
J187	Soil	7	0.24	316	0.004	2	1.13	0.010	0.14	<0.1	0.10	3.8	0.1	<0.05	2	<0.5	<0.2
J188	Soil	12	0.15	87	0.006	<1	0.62	0.006	0.07	0.1	0.06	5.7	<0.1	<0.05	3	<0.5	<0.2



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		Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
			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	0.1	2	0.01	0.001
J189	Soil	0.9	19.7	11.6	40	0.2	20.6	8.2	332	2.54	193.3	30.2	8.5	33	<0.1	7.8	0.1	33	0.13	0.027	25	
J190	Soil	1.0	36.5	12.4	77	<0.1	29.9	10.0	386	3.40	10.8	4.6	9.6	36	<0.1	1.4	0.1	60	0.31	0.031	26	
J191	Soil	0.7	19.6	16.1	82	<0.1	17.5	16.9	712	4.41	15.8	3.5	9.2	34	0.1	1.3	0.2	75	0.44	0.072	34	
J192	Soil	1.4	53.1	29.0	140	<0.1	27.3	24.5	1473	4.48	10.8	4.7	9.0	31	0.3	1.9	0.2	114	0.28	0.058	35	
J193	Soil	1.1	38.4	20.9	133	<0.1	26.6	13.2	809	4.18	12.5	4.2	10.2	22	0.2	1.4	0.2	48	0.31	0.113	38	
J194	Soil	0.6	38.3	10.3	85	<0.1	76.3	19.3	673	5.65	37.9	9.8	5.9	45	<0.1	1.6	0.1	109	0.50	0.071	27	
J195	Soil	0.7	23.2	10.6	79	<0.1	20.1	10.5	539	3.50	60.8	9.9	10.6	36	0.1	1.2	0.2	56	0.41	0.096	29	
J196	Soil	0.4	14.2	5.3	128	<0.1	16.6	16.0	990	6.26	5.9	1.8	5.5	41	<0.1	0.2	0.1	117	0.71	0.206	15	
J197	Soil	0.9	35.2	10.9	103	<0.1	31.8	13.3	676	4.35	55.8	9.7	15.8	36	0.1	1.2	0.2	73	0.45	0.106	38	
J198	Soil	0.9	23.2	9.6	72	<0.1	17.8	7.3	355	2.74	12.3	4.1	12.0	35	<0.1	1.4	0.3	41	0.33	0.069	28	
J199	Soil	1.0	25.1	14.1	82	0.1	34.6	12.0	555	3.12	20.1	3.9	13.1	38	0.1	1.7	0.3	46	0.39	0.070	30	
J200	Soil	2.2	83.8	20.1	185	0.3	65.8	10.3	284	3.00	72.5	3.1	9.9	39	0.3	4.5	0.4	41	0.17	0.048	28	
J201	Soil	1.5	6.3	18.2	96	<0.1	13.5	12.4	848	4.27	37.9	6.6	21.4	20	<0.1	1.7	0.2	54	0.44	0.115	42	
J202	Soil	0.7	11.6	8.0	64	0.1	15.6	9.2	557	2.24	12.7	4.3	4.4	32	0.1	0.6	<0.1	39	0.51	0.082	17	
Y101	Soil	1.0	13.3	7.8	50	0.2	15.1	5.4	135	2.17	12.3	3.5	1.1	29	0.1	0.6	0.1	48	0.31	0.084	13	
Y102	Soil	1.6	115.3	8.6	126	0.3	32.6	16.4	736	4.23	7.7	3.9	3.4	27	1.5	1.1	0.2	74	0.44	0.109	14	
Y103	Soil	2.1	31.5	10.2	114	0.2	36.0	8.0	287	2.51	15.1	1.9	4.6	20	0.4	1.6	0.2	49	0.19	0.069	12	
Y104	Soil	1.0	19.9	6.4	54	0.1	18.0	6.6	230	1.97	8.9	1.5	3.7	25	0.2	0.8	0.1	41	0.28	0.055	13	
Y105	Soil	0.9	26.8	7.9	57	0.1	21.9	7.6	315	2.19	9.6	2.6	4.1	28	<0.1	0.8	0.1	42	0.33	0.062	16	
Y106	Soil	1.4	43.2	7.7	52	<0.1	27.3	8.9	287	2.66	13.2	1.6	5.3	22	0.1	1.2	0.1	53	0.22	0.027	15	
Y107	Soil	2.6	49.2	9.5	106	0.3	38.8	8.5	241	2.49	13.8	4.9	4.3	34	0.8	1.9	0.2	62	0.21	0.059	16	
Y108	Soil	1.3	39.2	7.6	83	0.2	40.6	9.9	269	2.93	8.8	3.0	4.3	19	0.3	0.9	0.1	57	0.15	0.050	20	
Y109	Soil	0.6	16.9	6.8	42	<0.1	14.3	6.0	239	1.50	9.8	3.6	3.0	15	0.3	0.6	0.1	24	0.18	0.054	11	
Y110	Soil	0.7	19.0	5.7	47	<0.1	15.4	5.7	220	1.45	7.7	2.7	2.6	15	0.1	0.6	<0.1	25	0.18	0.058	11	
Y111	Soil	1.2	26.0	8.0	59	0.2	25.1	8.3	265	2.34	9.7	5.6	3.1	37	0.1	0.8	0.2	49	0.42	0.073	16	
Y112	Soil	1.0	22.0	6.9	56	0.2	19.7	7.5	270	2.12	8.5	4.8	3.4	35	0.2	0.7	0.2	47	0.40	0.074	15	
Y113	Soil	0.8	22.1	7.2	52	0.1	19.2	7.5	284	2.08	8.1	3.5	3.5	26	0.2	0.7	0.1	46	0.29	0.055	16	
Y114	Soil	0.9	20.0	6.5	53	<0.1	17.8	7.1	244	1.94	8.4	4.7	3.8	19	0.2	0.8	0.1	41	0.22	0.056	12	
Y115	Soil	0.9	27.2	6.8	62	<0.1	23.2	6.8	346	2.03	10.0	2.2	4.5	20	0.3	0.9	0.1	37	0.25	0.071	14	
Y116	Soil	1.0	24.5	7.9	54	0.1	20.4	6.4	210	2.05	8.6	3.3	4.0	28	0.1	0.7	0.1	46	0.30	0.061	16	



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Project: Cold
Report Date: August 13, 2011

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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		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
		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
J189	Soil	19	0.26	124	0.041	1	0.90	0.008	0.13	0.3	0.05	3.6	0.3	<0.05	3	<0.5	<0.2
J190	Soil	33	0.43	200	0.045	<1	1.60	0.012	0.15	0.1	0.07	8.5	0.3	<0.05	5	<0.5	<0.2
J191	Soil	38	0.73	224	0.038	<1	1.81	0.013	0.23	0.1	0.06	12.1	0.2	<0.05	7	<0.5	<0.2
J192	Soil	22	0.40	426	0.021	<1	1.50	0.008	0.20	0.4	0.06	15.6	0.5	<0.05	6	<0.5	<0.2
J193	Soil	13	0.25	242	0.013	<1	0.92	0.005	0.17	0.1	0.03	6.2	0.3	<0.05	3	0.8	<0.2
J194	Soil	74	1.21	880	0.094	<1	2.56	0.011	0.40	<0.1	0.08	12.3	0.3	<0.05	8	<0.5	<0.2
J195	Soil	27	0.64	227	0.072	<1	1.75	0.013	0.45	0.2	0.02	6.3	0.3	<0.05	6	<0.5	<0.2
J196	Soil	30	1.79	570	0.268	<1	3.93	0.025	1.91	0.2	0.01	15.7	0.9	<0.05	14	<0.5	<0.2
J197	Soil	38	0.92	427	0.140	<1	2.45	0.014	0.77	0.2	0.06	8.0	0.5	<0.05	8	0.9	<0.2
J198	Soil	22	0.50	236	0.065	<1	1.58	0.009	0.33	0.2	0.06	5.8	0.4	<0.05	5	<0.5	<0.2
J199	Soil	81	0.61	284	0.071	<1	1.70	0.012	0.30	0.2	0.11	6.3	0.5	<0.05	6	<0.5	<0.2
J200	Soil	23	0.27	202	0.038	<1	0.89	0.008	0.08	0.3	0.03	4.1	0.1	<0.05	3	1.3	<0.2
J201	Soil	22	0.84	243	0.055	<1	1.77	0.012	0.62	<0.1	0.03	8.2	0.5	<0.05	7	<0.5	<0.2
J202	Soil	24	0.50	224	0.075	<1	1.17	0.016	0.15	0.2	0.05	2.9	0.2	<0.05	4	<0.5	<0.2
Y101	Soil	24	0.37	351	0.034	<1	1.22	0.015	0.04	0.2	0.07	2.3	<0.1	<0.05	4	0.6	<0.2
Y102	Soil	19	0.53	560	0.031	2	1.43	0.006	0.34	<0.1	0.04	9.3	0.2	<0.05	5	0.6	<0.2
Y103	Soil	25	0.33	287	0.045	3	1.18	0.007	0.09	0.2	0.02	3.2	0.1	<0.05	3	1.3	<0.2
Y104	Soil	24	0.35	303	0.054	2	1.05	0.011	0.05	0.2	0.04	2.9	<0.1	<0.05	3	<0.5	<0.2
Y105	Soil	26	0.40	386	0.053	1	1.12	0.017	0.06	0.1	0.05	3.3	<0.1	<0.05	4	0.5	<0.2
Y106	Soil	26	0.42	445	0.070	1	1.63	0.010	0.08	0.2	0.05	4.5	0.1	<0.05	5	0.6	<0.2
Y107	Soil	30	0.38	385	0.054	2	1.43	0.011	0.05	0.2	0.19	5.5	<0.1	<0.05	4	1.5	<0.2
Y108	Soil	50	0.60	502	0.108	<1	1.54	0.008	0.25	<0.1	0.03	4.3	0.2	<0.05	4	0.6	<0.2
Y109	Soil	15	0.27	172	0.042	<1	0.71	0.009	0.09	0.1	<0.01	1.5	0.1	<0.05	2	0.6	<0.2
Y110	Soil	15	0.24	207	0.038	<1	0.69	0.006	0.08	0.1	0.01	1.8	<0.1	<0.05	2	<0.5	<0.2
Y111	Soil	30	0.40	440	0.054	1	1.35	0.014	0.04	0.2	0.05	3.6	<0.1	<0.05	4	<0.5	<0.2
Y112	Soil	26	0.39	374	0.056	1	1.21	0.015	0.04	0.3	0.06	3.3	<0.1	<0.05	4	<0.5	<0.2
Y113	Soil	26	0.38	358	0.061	<1	1.33	0.012	0.04	0.1	0.05	3.3	<0.1	<0.05	4	<0.5	<0.2
Y114	Soil	23	0.33	213	0.060	<1	1.12	0.009	0.07	0.1	0.01	2.4	<0.1	<0.05	3	<0.5	<0.2
Y115	Soil	20	0.39	275	0.065	<1	1.04	0.007	0.16	0.2	0.03	3.3	0.1	<0.05	3	0.6	<0.2
Y116	Soil	26	0.37	355	0.068	<1	1.25	0.011	0.06	0.2	0.03	3.5	<0.1	<0.05	4	<0.5	<0.2



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	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%
					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
Y117	Soil				1.3	44.6	6.7	77	0.1	25.9	7.4	236	2.95	10.3	4.7	5.4	18	0.1	0.7	0.2	45
Y118	Soil				1.5	32.4	9.3	70	0.2	28.1	10.7	291	2.57	11.4	2.0	5.0	31	0.2	1.0	0.2	51
Y119	Soil				0.8	19.7	7.8	57	0.1	17.6	6.5	175	1.95	7.5	4.4	2.8	27	0.2	0.6	0.1	42
Y120	Soil				1.9	50.4	3.9	85	0.1	38.8	12.4	221	3.58	6.2	1.7	5.7	13	<0.1	0.4	0.1	63
Y121	Soil				1.6	25.5	8.5	73	0.1	30.5	11.7	472	2.45	9.4	20.2	4.5	31	0.4	0.9	0.2	50
Y122	Soil				1.4	31.3	9.3	67	0.2	28.3	9.2	275	2.47	9.3	2.5	3.0	38	0.5	1.0	0.2	50
Y123	Soil				1.2	35.8	7.1	56	0.1	17.8	4.6	101	2.17	14.5	3.3	5.8	18	<0.1	1.1	0.2	48
Y124	Soil				1.3	39.2	6.0	58	0.1	15.9	4.2	67	2.40	8.5	1.8	5.0	11	<0.1	0.6	0.2	50
Y125	Soil				1.3	41.3	5.6	103	<0.1	26.4	8.6	105	2.37	15.1	4.2	4.7	11	<0.1	0.5	0.2	49
Y126	Soil				7.4	63.5	7.9	33	1.3	12.1	3.5	88	1.73	11.3	4.9	2.8	13	0.2	3.7	0.2	86
Y127	Soil				3.9	77.3	21.2	126	0.3	35.7	2.6	113	2.19	26.1	2.8	12.0	24	0.1	1.4	0.6	46
Y128	Soil				14.3	105.6	8.9	93	1.2	29.6	2.0	93	1.66	28.7	3.7	6.2	21	0.3	2.0	0.3	140
Y129	Soil				3.1	31.3	8.7	70	0.7	31.7	6.0	184	1.23	3.2	<0.5	4.3	21	<0.1	1.2	0.3	178
Y130	Soil				4.8	162.6	27.2	192	0.2	52.8	7.1	202	2.07	10.5	2.6	6.3	22	0.7	1.3	0.4	161
Y131	Soil				0.9	29.1	6.6	113	<0.1	15.8	9.0	472	4.34	4.2	<0.5	14.6	21	<0.1	0.4	0.1	60
Y132	Soil				0.3	13.1	9.9	34	<0.1	10.3	3.3	164	1.29	3.4	1.1	11.1	28	<0.1	0.3	0.1	23
Y133	Soil				0.3	6.6	8.2	92	<0.1	9.9	8.0	437	3.20	3.0	<0.5	21.1	21	<0.1	0.2	0.2	46
Y134	Soil				0.1	6.6	7.7	100	<0.1	7.9	8.3	535	3.39	1.9	<0.5	17.5	25	<0.1	0.1	0.1	45
Y135	Soil				0.3	13.2	15.8	75	<0.1	11.0	6.2	478	2.84	4.4	<0.5	12.4	34	<0.1	0.4	0.4	25
Y136	Soil				0.1	12.5	6.0	88	<0.1	9.7	6.2	405	2.99	4.4	0.5	17.0	55	<0.1	0.2	0.1	40
Y137	Soil				0.2	7.9	6.8	89	<0.1	7.7	8.0	406	3.28	3.9	0.7	15.1	22	<0.1	0.2	<0.1	48
Y138	Soil				0.2	10.6	7.5	105	<0.1	8.2	9.0	491	3.70	2.9	1.7	17.2	39	<0.1	0.1	<0.1	47
Y139	Soil				0.6	14.7	8.7	111	<0.1	10.4	8.6	376	3.79	8.1	1.4	12.1	53	0.2	0.4	<0.1	44
Y140	Soil				0.8	12.5	10.2	89	0.1	11.6	8.2	392	3.27	7.4	2.1	7.7	53	0.2	0.3	0.2	48
Y141	Soil				1.4	24.3	9.6	71	0.1	26.8	7.3	245	2.47	6.1	2.0	8.0	34	0.1	0.6	0.2	47
Y142	Soil				0.8	20.8	7.2	62	0.1	20.0	7.9	271	2.59	8.9	2.4	5.9	37	0.1	0.7	0.2	49
Y143	Soil				0.6	21.7	6.8	64	0.1	15.0	6.9	269	2.21	9.1	2.0	10.0	23	0.1	0.7	0.1	43
Y144	Soil				0.5	13.9	4.6	45	<0.1	14.1	6.2	190	1.76	5.7	0.9	5.8	28	<0.1	0.5	<0.1	35
Y145	Soil				0.7	17.9	4.8	54	0.1	14.5	5.8	221	1.91	4.7	0.8	7.1	18	0.1	0.4	0.1	34
Y146	Soil				0.9	26.2	10.9	51	<0.1	20.2	7.4	277	2.24	10.2	3.4	4.3	35	0.1	0.8	0.2	47



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		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
		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
Y117	Soil	34	0.74	444	0.113	<1	1.51	0.008	0.53	0.1	0.04	3.2	0.3	<0.05	5	0.7	<0.2
Y118	Soil	32	0.44	433	0.073	1	1.48	0.015	0.08	0.2	0.04	4.3	0.1	<0.05	5	<0.5	<0.2
Y119	Soil	23	0.39	367	0.051	<1	1.16	0.012	0.05	0.2	0.06	2.5	<0.1	<0.05	4	0.6	<0.2
Y120	Soil	40	0.99	554	0.162	<1	2.00	0.009	0.89	<0.1	0.02	4.7	0.3	<0.05	8	1.0	<0.2
Y121	Soil	31	0.40	416	0.083	<1	1.31	0.016	0.06	0.3	0.03	3.5	<0.1	<0.05	4	1.0	<0.2
Y122	Soil	30	0.45	537	0.068	1	1.53	0.020	0.06	0.1	0.07	3.7	<0.1	<0.05	5	0.6	<0.2
Y123	Soil	30	0.46	300	0.093	<1	1.21	0.010	0.26	0.1	0.04	2.9	0.2	<0.05	4	<0.5	<0.2
Y124	Soil	32	0.65	293	0.090	<1	1.36	0.014	0.60	<0.1	0.02	2.7	0.4	0.09	4	0.9	<0.2
Y125	Soil	34	0.74	437	0.099	<1	1.53	0.010	0.61	<0.1	<0.01	2.9	0.5	<0.05	4	0.5	<0.2
Y126	Soil	35	0.20	484	0.025	<1	0.74	0.005	0.08	0.2	0.07	1.5	0.9	0.09	3	11.7	<0.2
Y127	Soil	41	0.27	245	0.007	2	0.80	0.007	0.21	0.2	0.07	2.7	0.5	0.14	3	1.6	<0.2
Y128	Soil	44	0.33	878	0.021	<1	1.05	0.006	0.09	0.2	0.16	3.1	1.3	0.08	4	7.1	<0.2
Y129	Soil	91	0.65	174	0.098	<1	1.40	0.009	0.09	<0.1	0.01	2.2	0.2	<0.05	6	4.3	<0.2
Y130	Soil	60	0.77	277	0.089	<1	1.55	0.005	0.14	<0.1	0.02	3.1	0.3	<0.05	6	3.9	<0.2
Y131	Soil	19	0.85	248	0.219	<1	2.71	0.010	1.23	0.2	<0.01	6.4	1.1	<0.05	11	<0.5	<0.2
Y132	Soil	13	0.29	176	0.036	<1	1.28	0.038	0.12	<0.1	0.03	2.6	0.1	<0.05	4	<0.5	<0.2
Y133	Soil	17	0.76	190	0.130	<1	2.47	0.015	0.79	0.1	0.01	6.0	0.8	<0.05	10	<0.5	<0.2
Y134	Soil	14	0.72	199	0.166	<1	2.26	0.014	0.91	0.1	0.01	6.6	0.9	<0.05	10	<0.5	<0.2
Y135	Soil	13	0.42	238	0.015	<1	1.49	0.015	0.18	<0.1	0.03	5.2	0.2	<0.05	5	<0.5	<0.2
Y136	Soil	13	0.71	365	0.109	<1	2.72	0.075	0.54	<0.1	0.02	4.8	0.4	<0.05	12	<0.5	<0.2
Y137	Soil	15	0.73	254	0.158	<1	2.48	0.027	0.95	<0.1	<0.01	3.7	0.8	<0.05	9	<0.5	<0.2
Y138	Soil	15	0.83	272	0.141	<1	2.34	0.013	1.07	0.1	<0.01	3.9	0.9	<0.05	9	<0.5	<0.2
Y139	Soil	14	0.66	344	0.089	<1	2.13	0.024	0.76	<0.1	<0.01	4.0	0.6	<0.05	9	<0.5	<0.2
Y140	Soil	20	0.56	284	0.099	<1	1.82	0.027	0.50	0.1	0.04	4.3	0.4	0.05	7	<0.5	<0.2
Y141	Soil	40	0.54	320	0.110	<1	1.57	0.014	0.31	0.1	0.02	4.4	0.3	<0.05	5	<0.5	<0.2
Y142	Soil	29	0.55	321	0.102	<1	1.48	0.014	0.25	0.2	0.08	4.5	0.2	<0.05	5	<0.5	<0.2
Y143	Soil	26	0.55	270	0.115	<1	1.47	0.014	0.52	0.2	0.01	4.4	0.3	<0.05	5	<0.5	<0.2
Y144	Soil	26	0.45	189	0.086	<1	0.99	0.010	0.25	0.2	0.02	2.7	0.2	<0.05	4	<0.5	<0.2
Y145	Soil	25	0.52	230	0.100	<1	1.12	0.009	0.42	<0.1	<0.01	2.7	0.3	<0.05	4	<0.5	<0.2
Y146	Soil	32	0.46	848	0.049	1	1.24	0.012	0.06	0.1	0.05	4.8	<0.1	<0.05	4	<0.5	<0.2



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	Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15			
					Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
					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	1
Y147	Soil		1.1	23.4	9.9	62	<0.1	20.9	7.1	329	2.32	8.9	3.4	6.3	29	0.1	0.8	0.3	44	0.25	0.041	26		
Y148	Soil		1.3	28.8	10.2	58	<0.1	29.8	10.6	397	2.89	10.1	5.6	6.7	26	<0.1	0.8	0.2	59	0.25	0.065	24		
Y149	Soil		0.8	19.2	9.2	50	<0.1	19.7	8.2	279	2.17	11.6	3.8	5.6	26	<0.1	0.5	0.2	45	0.24	0.053	19		
Y150	Soil		0.9	22.8	11.5	67	0.1	20.5	6.2	242	2.29	14.9	4.7	6.6	31	0.1	0.8	0.3	45	0.33	0.069	24		
Y151	Soil		1.0	19.2	9.2	60	<0.1	19.8	6.1	196	2.17	11.7	4.5	5.4	29	0.1	0.7	0.2	45	0.30	0.071	20		
Y152	Soil		0.9	13.2	8.1	48	<0.1	17.4	7.3	262	2.30	8.1	5.4	4.4	24	<0.1	0.5	0.1	50	0.22	0.052	16		
Y153	Soil		0.5	15.6	5.8	74	<0.1	14.6	9.7	414	3.00	5.0	3.0	9.4	25	<0.1	0.4	0.1	56	0.43	0.136	23		
Y154	Soil		0.4	13.4	4.9	40	<0.1	11.1	6.1	218	1.78	5.2	3.6	5.8	21	<0.1	0.4	0.1	34	0.30	0.086	15		
Y155	Soil		0.5	12.9	6.0	36	<0.1	10.7	5.0	191	1.55	5.1	2.5	5.5	16	<0.1	0.4	0.2	33	0.21	0.064	14		
Y156	Soil		0.5	15.4	6.1	58	<0.1	10.0	9.6	326	2.85	5.8	1.8	7.3	26	<0.1	0.5	0.1	51	0.49	0.139	17		
Y157	Soil		0.8	9.7	6.5	63	0.1	14.6	11.1	352	2.18	13.9	3.2	2.3	30	0.2	0.4	0.1	44	0.46	0.080	15		
Y158	Soil		0.7	21.1	9.2	72	0.2	21.4	11.6	475	2.62	9.2	2.6	2.9	56	0.4	0.5	0.2	53	0.94	0.092	16		
Y159	Soil		0.7	17.3	8.4	67	0.2	20.0	11.3	435	2.59	8.6	4.5	2.9	49	0.2	0.4	0.2	56	0.81	0.098	14		
Y160	Soil		1.0	11.5	9.0	69	0.1	15.4	11.1	383	2.67	10.6	1.3	3.3	31	0.3	0.4	0.1	53	0.62	0.136	16		
Y161	Soil		0.8	11.2	9.6	59	0.2	16.2	10.1	454	2.24	8.2	3.1	2.1	26	0.2	0.4	0.2	42	0.50	0.102	17		
Z10	Soil		2.4	14.8	9.3	62	<0.1	18.2	7.5	485	4.00	27.4	4.7	3.1	35	0.4	0.7	0.1	36	0.42	0.243	11		
G120	Soil		0.3	8.1	14.4	103	<0.1	11.6	9.4	432	3.57	5.1	0.7	20.4	24	<0.1	0.2	0.1	52	0.36	0.086	23		
G127	Soil		1.0	18.6	8.3	72	<0.1	23.8	11.2	478	3.01	8.6	3.5	4.6	27	<0.1	0.7	0.1	59	0.33	0.090	18		
G128	Soil		1.2	14.5	9.9	58	<0.1	20.5	11.0	373	2.83	18.4	14.3	3.8	17	0.1	0.9	0.2	58	0.20	0.082	12		
G129	Soil		0.6	19.4	6.8	49	<0.1	20.2	9.2	347	2.14	7.6	1.8	4.7	27	<0.1	0.6	0.1	46	0.32	0.079	13		
G130	Soil		0.9	31.5	14.6	93	<0.1	24.1	10.9	502	3.16	10.5	2.4	6.1	27	0.1	1.0	0.2	63	0.28	0.059	23		
G131	Soil		1.2	34.4	20.6	119	<0.1	22.0	11.5	633	4.37	12.3	3.0	11.7	28	0.1	1.3	0.3	66	0.35	0.084	31		
G132	Soil		1.4	39.2	31.0	186	<0.1	28.4	13.3	660	4.40	8.0	2.8	16.4	28	0.2	1.2	0.2	75	0.23	0.042	50		



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CERTIFICATE OF ANALYSIS

WHI11000744.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		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
		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
Y147	Soil	30	0.48	778	0.066	<1	1.32	0.011	0.09	0.1	0.04	4.6	0.1	<0.05	4	<0.5	<0.2
Y148	Soil	40	0.57	451	0.141	1	1.68	0.012	0.07	0.1	0.05	5.6	0.1	<0.05	6	<0.5	<0.2
Y149	Soil	29	0.43	330	0.074	<1	1.33	0.009	0.05	0.1	0.03	3.9	<0.1	<0.05	4	<0.5	<0.2
Y150	Soil	29	0.41	425	0.072	<1	1.38	0.012	0.07	0.1	0.04	4.4	0.1	<0.05	4	<0.5	<0.2
Y151	Soil	29	0.39	323	0.084	1	1.26	0.012	0.05	0.1	0.03	3.3	0.1	<0.05	4	<0.5	<0.2
Y152	Soil	31	0.43	279	0.085	<1	1.26	0.010	0.05	0.1	0.03	3.5	<0.1	<0.05	4	<0.5	<0.2
Y153	Soil	28	0.86	338	0.122	<1	2.11	0.011	0.75	0.2	0.02	5.5	0.5	<0.05	7	<0.5	<0.2
Y154	Soil	17	0.40	266	0.087	<1	1.08	0.010	0.23	0.1	0.02	2.9	0.2	<0.05	3	<0.5	<0.2
Y155	Soil	19	0.30	156	0.074	<1	0.97	0.010	0.10	0.1	0.02	2.5	0.1	<0.05	3	<0.5	<0.2
Y156	Soil	15	0.76	438	0.131	<1	2.11	0.018	0.56	0.1	0.01	4.3	0.4	<0.05	6	<0.5	<0.2
Y157	Soil	24	0.51	204	0.070	1	1.42	0.012	0.10	0.2	0.03	3.1	0.2	<0.05	4	<0.5	<0.2
Y158	Soil	30	0.68	338	0.092	1	1.52	0.016	0.15	0.2	0.05	4.1	0.1	0.06	5	0.6	<0.2
Y159	Soil	30	0.70	305	0.094	1	1.48	0.016	0.16	0.1	0.03	3.9	0.1	<0.05	5	<0.5	<0.2
Y160	Soil	26	0.63	214	0.081	<1	1.50	0.014	0.17	0.2	0.02	3.5	0.1	<0.05	5	0.6	<0.2
Y161	Soil	23	0.47	177	0.055	1	1.21	0.009	0.08	0.6	0.06	2.5	<0.1	<0.05	4	0.5	<0.2
Z10	Soil	20	0.32	545	0.041	<1	0.68	0.007	0.07	0.3	0.04	1.9	<0.1	<0.05	2	0.6	<0.2
G120	Soil	17	0.81	186	0.130	<1	2.64	0.018	1.07	0.1	0.02	3.8	0.9	<0.05	10	<0.5	<0.2
G127	Soil	34	0.67	387	0.144	<1	1.62	0.011	0.20	0.2	0.03	4.2	0.2	<0.05	6	<0.5	<0.2
G128	Soil	35	0.51	175	0.114	<1	1.69	0.008	0.09	0.2	0.04	2.9	0.2	<0.05	5	<0.5	<0.2
G129	Soil	28	0.54	303	0.078	<1	1.20	0.012	0.15	0.1	0.03	2.9	0.2	<0.05	4	<0.5	<0.2
G130	Soil	25	0.57	432	0.118	<1	1.54	0.011	0.28	0.2	0.04	5.8	1.9	<0.05	6	<0.5	<0.2
G131	Soil	23	0.63	444	0.114	<1	1.88	0.011	0.39	0.2	0.04	6.5	2.6	<0.05	8	<0.5	<0.2
G132	Soil	27	0.72	602	0.113	<1	1.86	0.008	0.48	0.2	0.03	7.3	3.0	<0.05	7	<0.5	<0.2



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Project: Cold

Report Date: August 13, 2011

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QUALITY CONTROL REPORT

WHI11000744.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
Pulp Duplicates		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
G104	Soil	0.7	17.0	4.8	47	<0.1	12.3	4.7	187	1.60	5.1	1.9	4.3	13	0.1	0.5	<0.1	31	0.25	0.081
REP G104	QC	0.7	16.9	4.9	47	<0.1	11.6	5.0	199	1.63	5.1	10.2	4.6	14	0.1	0.5	<0.1	32	0.27	0.085
J106	Soil	0.9	19.0	8.0	55	0.2	16.0	6.3	141	2.39	7.1	2.0	5.6	20	0.1	0.5	0.1	47	0.23	0.067
REP J106	QC	0.9	19.2	8.2	60	0.2	16.6	6.3	150	2.51	7.9	1.0	5.9	21	<0.1	0.5	0.1	47	0.24	0.071
J124	Soil	1.1	56.9	18.6	90	0.2	28.0	8.3	170	2.86	6.9	6.3	5.9	14	<0.1	0.6	0.2	44	0.13	0.024
REP J124	QC	1.2	58.8	19.0	92	0.2	28.9	8.3	174	2.87	7.1	4.8	6.0	14	0.1	0.5	0.2	45	0.14	0.026
J135	Soil	1.5	39.2	13.3	71	0.2	29.8	10.3	244	2.90	28.8	4.1	5.5	13	0.1	0.5	0.2	52	0.12	0.033
REP J135	QC	1.5	42.6	14.6	79	0.2	32.1	11.0	263	3.11	30.3	4.6	5.9	14	0.2	0.6	0.2	56	0.13	0.036
J150	Soil	0.4	12.5	4.5	39	<0.1	11.9	4.6	200	1.55	4.0	1.5	8.8	17	<0.1	0.4	<0.1	29	0.29	0.080
REP J150	QC	0.3	12.2	4.6	40	<0.1	12.1	4.5	197	1.57	4.0	1.9	9.1	17	<0.1	0.4	<0.1	30	0.30	0.086
J184	Soil	0.5	7.4	7.7	100	<0.1	18.0	13.9	727	4.52	5.3	2.1	10.0	30	<0.1	0.2	<0.1	80	0.54	0.140
REP J184	QC	0.4	7.6	7.4	100	<0.1	17.6	13.8	717	4.42	5.2	2.1	10.1	31	<0.1	0.2	<0.1	78	0.53	0.140
J198	Soil	0.9	23.2	9.6	72	<0.1	17.8	7.3	355	2.74	12.3	4.1	12.0	35	<0.1	1.4	0.3	41	0.33	0.069
REP J198	QC	0.9	23.1	9.5	71	<0.1	17.5	6.8	337	2.61	12.3	2.9	12.0	34	<0.1	1.4	0.3	39	0.33	0.068
Y116	Soil	1.0	24.5	7.9	54	0.1	20.4	6.4	210	2.05	8.6	3.3	4.0	28	0.1	0.7	0.1	46	0.30	0.061
REP Y116	QC	0.9	24.0	7.8	54	0.1	19.2	6.2	207	2.01	8.3	2.4	3.9	27	0.1	0.7	0.1	45	0.29	0.059
Y124	Soil	1.3	39.2	6.0	58	0.1	15.9	4.2	67	2.40	8.5	1.8	5.0	11	<0.1	0.6	0.2	50	0.05	0.030
REP Y124	QC	1.2	38.8	5.7	56	0.1	15.5	3.9	67	2.37	8.6	2.0	5.1	11	<0.1	0.6	0.3	49	0.06	0.031
Y141	Soil	1.4	24.3	9.6	71	0.1	26.8	7.3	245	2.47	6.1	2.0	8.0	34	0.1	0.6	0.2	47	0.41	0.062
REP Y141	QC	1.4	25.0	9.7	75	<0.1	28.1	7.6	256	2.53	6.4	2.3	8.3	35	<0.1	0.6	0.2	48	0.41	0.063
Y149	Soil	0.8	19.2	9.2	50	<0.1	19.7	8.2	279	2.17	11.6	3.8	5.6	26	<0.1	0.5	0.2	45	0.24	0.053
REP Y149	QC	0.8	20.5	9.5	53	<0.1	21.1	8.8	290	2.29	11.9	3.4	5.6	27	<0.1	0.6	0.2	47	0.26	0.055
Y161	Soil	0.8	11.2	9.6	59	0.2	16.2	10.1	454	2.24	8.2	3.1	2.1	26	0.2	0.4	0.2	42	0.50	0.102
REP Y161	QC	0.9	10.8	9.6	57	0.2	16.5	9.8	435	2.20	7.6	56.8	2.3	25	0.3	0.4	0.1	41	0.52	0.101
Reference Materials																				
STD DS8	Standard	13.3	112.8	124.1	315	1.7	38.1	7.7	620	2.46	28.4	114.0	6.7	71	2.6	6.3	7.0	45	0.70	0.087
STD DS8	Standard	13.6	114.2	123.5	324	1.8	39.4	7.9	622	2.53	29.3	115.0	7.0	76	2.7	6.5	7.2	44	0.72	0.089
STD DS8	Standard	14.3	116.8	127.1	328	2.0	39.7	7.8	640	2.57	28.1	104.3	6.8	72	2.5	6.1	6.9	43	0.71	0.084



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QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		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
		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																	
G104	Soil	20	0.43	169	0.076	<1	0.97	0.007	0.36	<0.1	<0.01	1.8	0.2	<0.05	3	<0.5	<0.2
REP G104	QC	19	0.43	167	0.076	<1	0.98	0.007	0.37	0.1	<0.01	1.9	0.2	<0.05	4	<0.5	<0.2
J106	Soil	26	0.40	194	0.079	<1	1.63	0.009	0.10	0.1	0.04	2.9	<0.1	<0.05	5	<0.5	<0.2
REP J106	QC	28	0.41	200	0.084	<1	1.64	0.009	0.10	0.1	0.05	2.9	<0.1	<0.05	5	<0.5	<0.2
J124	Soil	38	0.82	370	0.107	<1	1.62	0.006	0.39	<0.1	0.03	3.5	0.3	<0.05	5	<0.5	<0.2
REP J124	QC	38	0.84	383	0.104	<1	1.61	0.006	0.40	<0.1	0.03	3.5	0.3	<0.05	5	<0.5	<0.2
J135	Soil	39	0.68	213	0.102	<1	1.66	0.006	0.17	0.1	0.02	2.9	0.2	<0.05	5	<0.5	<0.2
REP J135	QC	42	0.74	234	0.105	<1	1.80	0.007	0.18	0.1	0.02	3.1	0.2	<0.05	5	0.5	<0.2
J150	Soil	23	0.44	192	0.082	<1	1.09	0.009	0.39	0.1	0.02	3.4	0.2	<0.05	4	<0.5	<0.2
REP J150	QC	23	0.42	195	0.084	<1	1.09	0.008	0.37	0.1	<0.01	3.4	0.2	<0.05	4	<0.5	<0.2
J184	Soil	33	1.35	156	0.185	<1	2.70	0.017	1.44	0.1	0.02	6.8	0.8	<0.05	11	<0.5	<0.2
REP J184	QC	33	1.33	160	0.183	<1	2.63	0.017	1.44	0.1	0.02	6.5	0.9	<0.05	11	<0.5	<0.2
J198	Soil	22	0.50	236	0.065	<1	1.58	0.009	0.33	0.2	0.06	5.8	0.4	<0.05	5	<0.5	<0.2
REP J198	QC	22	0.48	238	0.065	<1	1.53	0.010	0.33	0.1	0.06	5.6	0.4	<0.05	6	<0.5	<0.2
Y116	Soil	26	0.37	355	0.068	<1	1.25	0.011	0.06	0.2	0.03	3.5	<0.1	<0.05	4	<0.5	<0.2
REP Y116	QC	26	0.37	346	0.069	<1	1.26	0.012	0.06	0.2	0.04	3.5	<0.1	<0.05	4	0.5	<0.2
Y124	Soil	32	0.65	293	0.090	<1	1.36	0.014	0.60	<0.1	0.02	2.7	0.4	0.09	4	0.9	<0.2
REP Y124	QC	32	0.65	283	0.090	<1	1.35	0.014	0.60	<0.1	<0.01	2.5	0.4	0.10	4	0.6	<0.2
Y141	Soil	40	0.54	320	0.110	<1	1.57	0.014	0.31	0.1	0.02	4.4	0.3	<0.05	5	<0.5	<0.2
REP Y141	QC	41	0.56	334	0.112	<1	1.68	0.014	0.31	0.1	0.02	4.4	0.3	<0.05	6	<0.5	<0.2
Y149	Soil	29	0.43	330	0.074	<1	1.33	0.009	0.05	0.1	0.03	3.9	<0.1	<0.05	4	<0.5	<0.2
REP Y149	QC	30	0.43	344	0.080	<1	1.36	0.010	0.05	0.2	0.03	4.0	0.1	<0.05	4	<0.5	<0.2
Y161	Soil	23	0.47	177	0.055	1	1.21	0.009	0.08	0.6	0.06	2.5	<0.1	<0.05	4	0.5	<0.2
REP Y161	QC	23	0.47	174	0.052	2	1.18	0.009	0.08	0.4	0.05	2.5	<0.1	<0.05	4	0.5	<0.2
Reference Materials																	
STD DS8	Standard	122	0.62	294	0.128	2	0.91	0.091	0.44	3.0	0.22	2.6	5.4	0.18	5	5.0	5.1
STD DS8	Standard	120	0.63	310	0.130	2	0.93	0.095	0.45	2.9	0.20	2.4	5.4	0.16	5	5.1	5.1
STD DS8	Standard	123	0.64	296	0.131	2	0.93	0.088	0.43	3.3	0.19	2.3	5.6	0.17	5	6.1	5.7



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Project: Cold

Report Date: August 13, 2011

Page: 2 of 2 Part 1

QUALITY CONTROL REPORT

WHI11000744.1

		1DX15 Mo ppm 0.1	1DX15 Cu ppm 0.1	1DX15 Pb ppm 0.1	1DX15 Zn ppm 1	1DX15 Ag ppm 0.1	1DX15 Ni ppm 0.1	1DX15 Co ppm 0.1	1DX15 Mn ppm 1	1DX15 Fe % 0.01	1DX15 As ppm 0.5	1DX15 Au ppb 0.5	1DX15 Th ppm 0.1	1DX15 Sr ppm 1	1DX15 Cd ppm 0.1	1DX15 Sb ppm 0.1	1DX15 Bi ppm 0.1	1DX15 V ppm 2	1DX15 Ca % 0.01	1DX15 P % 0.001	1DX15 La ppm 1
STD DS8	Standard	12.9	110.8	124.0	321	1.9	38.2	7.6	612	2.48	27.5	111.3	6.7	69	2.5	6.0	6.7	42	0.69	0.079	15
STD DS8	Standard	13.0	108.1	118.4	303	1.8	37.7	7.5	576	2.36	25.2	108.1	6.7	63	2.1	5.5	6.5	41	0.66	0.075	13
STD DS8	Standard	13.2	107.2	121.4	307	1.8	37.5	7.5	598	2.44	26.1	108.3	6.6	67	2.4	5.5	6.7	42	0.68	0.077	14
STD DS8	Standard	13.2	104.9	124.5	312	1.9	35.7	7.2	621	2.46	26.0	115.2	6.8	73	2.1	6.0	6.8	41	0.71	0.076	16
STD DS8	Standard	13.3	99.8	118.4	298	1.7	33.9	7.0	579	2.33	25.6	145.1	6.9	73	2.2	5.7	6.8	39	0.70	0.074	16
STD DS8	Standard	13.3	107.0	119.4	309	1.8	38.2	7.4	603	2.43	26.6	116.6	7.0	72	2.4	5.9	7.0	41	0.69	0.076	17
STD DS8	Standard	13.9	108.0	122.2	312	1.9	37.2	7.4	620	2.48	26.0	108.0	7.1	74	2.3	5.8	6.9	42	0.72	0.082	17
STD DS8	Standard	12.6	102.0	118.3	294	1.6	34.5	7.1	574	2.33	24.7	102.7	6.6	61	2.0	5.0	5.8	39	0.64	0.076	14
STD DS8	Standard	13.0	105.9	113.7	303	1.7	37.4	7.4	612	2.50	25.6	112.9	6.9	63	2.3	5.3	6.4	41	0.69	0.077	15
STD DS8	Standard	13.3	107.3	115.9	299	1.7	36.0	7.0	579	2.33	24.0	107.1	7.1	63	2.4	5.2	6.3	41	0.66	0.075	16
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	14.6
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	<1
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	<1
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	<1
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	<1
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	<1
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	<1



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Project: Cold

Report Date: August 13, 2011

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QUALITY CONTROL REPORT

WHI11000744.1

		1DX15 Cr ppm 1	1DX15 Mg % 0.01	1DX15 Ba ppm 1	1DX15 Ti % 0.001	1DX15 B ppm 1	1DX15 Al % 0.01	1DX15 Na % 0.001	1DX15 K % 0.01	1DX15 W ppm 0.1	1DX15 Hg ppm 0.01	1DX15 Sc ppm 0.1	1DX15 Ti ppm 0.1	1DX15 S % 0.05	1DX15 Ga ppm 1	1DX15 Se ppm 0.5	1DX15 Te ppm 0.2
STD DS8	Standard	118	0.61	279	0.127	2	0.88	0.082	0.42	3.1	0.21	2.1	5.5	0.16	5	5.9	5.0
STD DS8	Standard	111	0.59	270	0.115	4	0.87	0.089	0.40	2.8	0.20	2.0	5.1	0.13	5	4.9	4.9
STD DS8	Standard	114	0.60	286	0.118	2	0.91	0.090	0.43	3.0	0.18	2.2	5.3	0.16	4	4.6	4.6
STD DS8	Standard	115	0.61	284	0.121	1	0.95	0.099	0.43	3.1	0.20	2.4	5.5	0.16	5	5.2	4.5
STD DS8	Standard	111	0.60	280	0.118	2	0.93	0.099	0.41	3.0	0.21	2.5	5.3	0.15	5	4.2	4.3
STD DS8	Standard	117	0.59	293	0.120	3	0.92	0.096	0.41	3.1	0.24	2.5	5.4	0.12	5	6.0	4.5
STD DS8	Standard	118	0.61	289	0.127	3	0.95	0.094	0.42	3.0	0.22	2.4	5.2	0.15	5	4.5	5.2
STD DS8	Standard	110	0.58	267	0.103	2	0.87	0.092	0.40	2.8	0.18	2.3	5.2	0.17	5	5.1	4.5
STD DS8	Standard	112	0.61	275	0.117	1	0.91	0.087	0.42	3.1	0.18	2.0	5.2	0.14	5	5.5	4.5
STD DS8	Standard	110	0.62	275	0.110	2	0.91	0.088	0.40	2.8	0.20	2.1	5.1	0.12	5	4.7	4.5
STD DS8 Expected		115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<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	<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	<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	<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	<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	<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	<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



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Submitted By: Gordon Richards
Receiving Lab: Canada-Whitehorse
Received: May 30, 2011
Report Date: June 06, 2011
Page: 1 of 3

CERTIFICATE OF ANALYSIS

WHI11000153.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 51

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	50	Crush, split and pulverize 250 g rock to 200 mesh			WHI
1DX2	50	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT Dispose of Reject After 90 days

ADDITIONAL COMMENTS

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: Richards, Gordon
6410 Holly Park Drive
Delta BC V4K 4W6
Canada

CC:



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.



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Project: None Given
Report Date: June 06, 2011

Page: 2 of 3 Part 1

CERTIFICATE OF ANALYSIS

WHI11000153.1

	Method Analyte Unit MDL	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		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
Q21	Rock	0.23	1.0	42.1	6.1	68	0.3	8.7	1.3	41	2.16	309.7	11.7	1.7	3	0.2	8.6	<0.1	5	<0.01	0.032
Q22	Rock	0.13	0.6	1.5	12.5	22	<0.1	0.4	0.2	38	0.22	1.2	1.0	1.0	3	0.2	0.1	0.2	<2	0.08	0.031
Q23	Rock	0.33	1.1	2.7	4.2	22	0.6	1.9	0.4	61	1.08	40.2	2.4	<0.1	<1	<0.1	14.9	<0.1	2	<0.01	0.008
Q24	Rock	0.31	0.2	11.6	2.0	9	<0.1	4.5	0.7	74	0.49	6.0	<0.5	0.5	<1	<0.1	2.3	<0.1	6	0.02	0.012
Q26	Rock	0.21	0.5	2.4	8.5	31	<0.1	2.7	5.6	373	1.14	1.9	<0.5	7.7	3	<0.1	0.4	0.3	9	0.04	0.024
Q28	Rock	0.27	0.8	16.9	115.3	182	0.8	1.0	1.2	220	1.18	90.0	3.1	6.6	1	0.6	2.2	0.3	<2	<0.01	0.011
Q29	Rock	0.17	0.2	4.2	157.9	281	0.2	0.7	0.9	286	0.57	2.7	<0.5	10.8	2	0.7	0.7	<0.1	<2	0.02	0.008
Q30	Rock	0.21	0.5	19.4	430.6	65	11.4	0.4	0.2	36	0.72	67.8	22.8	0.5	3	0.2	2.2	2.3	<2	<0.01	0.008
Q31	Rock	0.36	0.4	15.3	198.8	103	1.0	0.9	0.4	31	0.77	89.6	12.4	0.7	2	0.6	1.4	0.3	2	<0.01	0.006
Q32	Rock	0.26	0.2	4.6	384.9	39	1.2	0.5	0.2	40	0.44	65.4	6.1	0.6	<1	<0.1	2.1	0.7	<2	<0.01	0.005
Q33	Rock	0.30	0.1	3.3	7.1	30	<0.1	0.6	0.2	37	0.39	5.4	<0.5	2.6	<1	<0.1	0.4	0.5	<2	0.01	0.014
Q34	Rock	0.19	0.1	2.8	27.9	32	<0.1	0.3	0.2	32	0.40	4.2	0.9	7.6	2	<0.1	1.0	1.0	<2	<0.01	0.006
Q35	Rock	0.24	0.4	6.1	47.1	43	1.7	1.1	0.3	32	1.17	14.1	45.7	3.8	11	0.1	16.0	0.4	<2	<0.01	0.009
Q36	Rock	0.40	0.2	15.3	118.0	70	0.4	0.5	0.2	36	0.80	20.3	4.0	6.4	2	0.2	6.1	0.3	4	<0.01	0.009
Q37	Rock	0.26	1.9	26.4	989.5	246	2.9	1.6	0.7	63	1.79	127.0	16.9	4.8	3	0.9	8.2	0.3	4	<0.01	0.037
Q38	Rock	0.24	0.4	9.9	11.1	32	<0.1	0.8	1.0	164	1.03	1.9	<0.5	11.7	3	<0.1	0.9	0.2	<2	0.04	0.029
Q39	Rock	0.17	0.8	3.6	10.4	24	0.1	2.1	0.8	76	2.70	34.1	2.5	7.9	14	<0.1	21.5	<0.1	13	0.03	0.043
Q40	Rock	0.16	0.3	1.0	13.3	25	<0.1	0.3	0.2	61	0.65	0.9	<0.5	7.6	2	<0.1	<0.1	0.1	<2	0.02	0.017
Q41A	Rock	0.44	1.7	7.3	10.2	57	<0.1	4.5	3.4	100	3.93	15.6	0.7	13.0	11	<0.1	9.5	0.8	15	0.06	0.067
Q41B	Rock	0.43	1.1	1.8	8.9	33	<0.1	3.0	3.0	79	2.59	14.0	<0.5	10.1	23	<0.1	9.1	<0.1	11	0.02	0.038
Q41C	Rock	0.34	0.2	0.6	4.7	7	<0.1	0.3	0.1	20	0.29	0.9	<0.5	4.9	1	<0.1	0.4	<0.1	<2	0.02	0.012
Q42	Rock	0.06	0.7	3.7	6.3	40	0.2	1.8	0.3	57	0.64	10.8	<0.5	0.8	10	<0.1	2.4	<0.1	3	0.01	0.012
S5	Rock	0.19	2.9	2.9	0.7	13	<0.1	9.5	1.1	145	0.38	15.8	0.9	0.7	17	<0.1	0.1	<0.1	23	1.96	0.588
S6	Rock	0.19	0.8	7.0	1.4	134	<0.1	12.2	2.1	186	0.65	15.6	<0.5	0.6	9	0.2	0.1	<0.1	16	0.84	0.290
S7	Rock	0.20	1.2	29.2	1.2	107	<0.1	15.9	4.0	199	0.73	9.6	<0.5	0.4	14	0.2	0.3	0.2	18	1.56	0.538
Y1G	Rock	0.31	0.3	31.1	5.6	9	<0.1	1.8	0.8	79	0.49	2.4	<0.5	0.9	1	<0.1	0.5	<0.1	<2	0.02	0.010
Y2G	Rock	0.11	0.4	1.0	1.7	8	<0.1	0.8	0.6	34	0.37	2.4	<0.5	0.5	1	<0.1	0.3	0.2	2	0.02	0.008
Y4	Rock	0.14	0.7	21.8	8.0	23	<0.1	5.1	4.0	73	0.98	9.5	<0.5	2.2	2	<0.1	1.2	0.2	6	0.07	0.047
Y5	Rock	0.16	0.5	2.9	4.5	28	0.1	7.8	2.4	146	1.44	10.8	1.7	3.0	2	<0.1	0.8	0.4	8	0.01	0.020
Y7	Rock	0.35	0.2	21.4	565.5	209	1.4	4.9	0.7	46	1.09	14.8	0.8	2.4	5	0.3	4.0	0.2	5	<0.01	0.019



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Project: None Given
Report Date: June 06, 2011

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CERTIFICATE OF ANALYSIS

WHI11000153.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		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
Q21	Rock	5	4	0.02	459	0.001	<1	0.15	0.002	0.07	<0.1	0.01	0.5	<0.1	<0.05	<1	1.2	<0.2
Q22	Rock	2	<1	0.01	29	0.002	<1	0.13	0.027	0.09	<0.1	<0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2
Q23	Rock	<1	3	<0.01	14	<0.001	1	0.05	0.001	0.03	<0.1	0.18	0.6	<0.1	<0.05	<1	<0.5	<0.2
Q24	Rock	3	4	0.02	27	0.001	<1	0.11	0.001	0.04	<0.1	<0.01	0.8	<0.1	<0.05	<1	<0.5	<0.2
Q26	Rock	10	2	0.03	59	0.003	<1	0.41	0.005	0.09	0.1	<0.01	1.7	<0.1	<0.05	1	<0.5	<0.2
Q28	Rock	5	1	0.01	40	<0.001	2	0.16	0.001	0.11	0.1	<0.01	1.0	<0.1	<0.05	<1	<0.5	<0.2
Q29	Rock	8	<1	<0.01	25	<0.001	<1	0.25	0.001	0.10	<0.1	<0.01	0.3	<0.1	<0.05	<1	<0.5	<0.2
Q30	Rock	2	2	<0.01	228	<0.001	<1	0.09	0.001	0.07	<0.1	0.01	0.1	<0.1	<0.05	<1	<0.5	0.3
Q31	Rock	3	1	<0.01	44	<0.001	1	0.09	<0.001	0.07	<0.1	0.01	0.2	0.1	<0.05	<1	<0.5	<0.2
Q32	Rock	2	1	<0.01	26	<0.001	<1	0.10	0.001	0.07	<0.1	0.01	0.1	<0.1	<0.05	<1	0.5	<0.2
Q33	Rock	5	<1	<0.01	10	<0.001	<1	0.30	0.001	0.10	<0.1	<0.01	0.3	<0.1	<0.05	<1	<0.5	<0.2
Q34	Rock	6	<1	<0.01	40	<0.001	1	0.26	0.002	0.10	<0.1	<0.01	0.5	<0.1	<0.05	<1	<0.5	<0.2
Q35	Rock	5	1	<0.01	274	<0.001	<1	0.18	0.004	0.17	<0.1	0.08	0.4	1.0	0.27	<1	1.8	<0.2
Q36	Rock	6	1	<0.01	25	<0.001	1	0.23	0.002	0.16	<0.1	0.03	0.4	0.1	<0.05	<1	<0.5	0.2
Q37	Rock	12	3	0.01	64	<0.001	3	0.22	0.002	0.18	0.2	0.03	0.6	0.4	0.08	<1	0.9	<0.2
Q38	Rock	31	<1	0.01	58	<0.001	<1	0.44	0.001	0.12	0.3	<0.01	1.2	<0.1	<0.05	1	<0.5	<0.2
Q39	Rock	26	8	0.02	186	0.002	<1	0.51	0.004	0.08	0.8	0.47	2.9	0.5	0.09	2	<0.5	<0.2
Q40	Rock	11	1	0.01	19	<0.001	1	0.31	0.071	0.16	<0.1	<0.01	0.7	<0.1	<0.05	1	<0.5	<0.2
Q41A	Rock	21	4	0.02	37	0.001	<1	0.46	0.002	0.07	0.4	0.12	4.6	<0.1	<0.05	2	<0.5	<0.2
Q41B	Rock	15	4	0.01	49	0.002	<1	0.42	0.002	0.07	0.2	0.07	5.1	0.1	<0.05	1	<0.5	<0.2
Q41C	Rock	4	<1	<0.01	9	<0.001	<1	0.20	0.003	0.12	<0.1	<0.01	0.3	<0.1	<0.05	<1	<0.5	<0.2
Q42	Rock	4	4	<0.01	50	<0.001	<1	0.09	<0.001	0.05	<0.1	<0.01	0.3	0.1	<0.05	<1	0.6	<0.2
S5	Rock	11	11	<0.01	16	0.027	<1	0.34	0.001	<0.01	0.1	<0.01	1.0	<0.1	<0.05	<1	0.6	<0.2
S6	Rock	6	13	0.07	55	0.007	<1	0.21	0.002	0.01	<0.1	0.04	1.6	<0.1	<0.05	<1	0.6	<0.2
S7	Rock	5	16	0.08	17	0.013	<1	0.31	0.003	<0.01	<0.1	<0.01	1.1	<0.1	<0.05	<1	1.0	<0.2
Y1G	Rock	3	2	<0.01	34	<0.001	1	0.08	<0.001	0.05	<0.1	<0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2
Y2G	Rock	1	1	0.01	23	<0.001	1	0.08	0.001	0.05	<0.1	<0.01	0.4	<0.1	<0.05	<1	<0.5	<0.2
Y4	Rock	11	3	0.01	27	<0.001	1	0.17	<0.001	0.06	<0.1	<0.01	0.9	<0.1	<0.05	<1	0.5	<0.2
Y5	Rock	10	7	0.02	47	<0.001	1	0.20	<0.001	0.10	<0.1	0.01	1.8	0.1	<0.05	<1	<0.5	<0.2
Y7	Rock	7	4	<0.01	46	0.001	<1	0.16	0.004	0.10	<0.1	<0.01	0.4	0.1	<0.05	<1	<0.5	<0.2



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Project: None Given
Report Date: June 06, 2011

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CERTIFICATE OF ANALYSIS

WHI11000153.1

	Method Analyte Unit MDL	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		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
Y8	Rock	0.19	0.2	1.1	18.2	31	<0.1	2.1	4.0	328	1.36	130.1	2.8	7.8	4	<0.1	1.9	0.4	2	0.03	0.015
Y9	Rock	0.31	0.1	2.2	14.3	24	0.1	2.5	2.3	63	0.49	143.8	4.7	4.0	4	<0.1	6.9	0.2	<2	0.01	0.005
Y10	Rock	0.43	0.2	1.3	15.6	26	0.1	1.0	1.2	58	0.81	184.0	2.5	5.7	6	<0.1	4.1	0.6	<2	<0.01	0.008
Y11	Rock	0.23	0.5	5.0	4.1	20	<0.1	2.2	1.5	100	0.90	1.0	2.5	0.8	1	<0.1	0.2	<0.1	6	0.01	0.011
Y12	Rock	0.17	0.2	41.9	9.6	13	0.2	1.2	0.6	48	0.52	<0.5	1.8	0.4	2	<0.1	0.2	0.2	<2	0.01	0.009
Y13	Rock	0.39	0.8	20.5	1.7	6	<0.1	34.3	4.2	57	0.39	2.9	3.5	0.2	150	<0.1	<0.1	<0.1	15	2.28	0.101
Y14	Rock	0.26	0.3	295.7	1.8	4	0.1	64.7	14.8	36	1.80	1.0	7.2	0.2	225	<0.1	<0.1	<0.1	16	2.62	0.155
Y15	Rock	0.25	11.8	433.2	2.5	10	0.1	7.6	10.5	81	0.95	<0.5	3.0	2.8	22	<0.1	<0.1	<0.1	27	0.41	0.091
Y16	Rock	0.29	131.7	424.4	2.3	13	0.2	11.8	14.5	130	2.02	<0.5	4.0	2.6	26	<0.1	<0.1	<0.1	26	0.44	0.082
Y17	Rock	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.	L.N.R.
A184	Rock	0.12	0.3	3.7	11.2	13	<0.1	1.2	0.4	66	0.66	0.6	2.7	22.0	2	<0.1	1.5	0.2	<2	0.01	0.013
A185	Rock	0.10	0.4	2.5	14.5	5	0.4	0.5	0.2	29	0.33	7.0	2.2	7.7	9	<0.1	0.7	1.6	<2	0.02	0.017
A187	Rock	0.22	0.6	1.8	17.5	55	<0.1	2.4	3.0	161	1.65	1.1	0.9	9.6	9	<0.1	0.6	0.5	5	0.03	0.030
A189	Rock	0.18	0.9	14.3	5.9	15	<0.1	7.4	2.5	139	0.71	<0.5	<0.5	2.1	2	<0.1	0.9	<0.1	6	0.03	0.017
A190	Rock	0.21	0.4	4.1	11.8	53	<0.1	2.8	4.5	101	1.18	9.7	0.9	8.8	1	<0.1	2.2	<0.1	14	0.07	0.045
A192	Rock	0.17	0.3	5.3	1.9	2	<0.1	1.0	0.5	44	0.48	2.1	1.5	0.4	<1	<0.1	1.5	<0.1	<2	<0.01	0.008
A193	Rock	0.12	0.7	13.6	75.8	29	0.4	4.8	1.5	148	1.00	28.7	4.8	1.0	2	<0.1	4.4	0.1	11	<0.01	0.013
A194	Rock	0.09	0.5	11.8	4.3	20	<0.1	8.6	3.6	106	1.49	4.8	0.8	4.1	5	<0.1	1.6	0.1	9	0.01	0.023
A197	Rock	0.16	1.3	47.4	4.9	57	0.3	26.9	5.0	168	2.40	20.3	1.2	5.1	2	<0.1	6.4	<0.1	24	<0.01	0.014
A199	Rock	0.14	7.8	10.0	40.2	69	0.5	3.7	2.7	65	1.67	17.0	<0.5	21.4	58	0.1	0.2	1.6	8	0.01	0.059
JM1	Rock	0.27	0.2	1.0	7.2	21	<0.1	0.6	0.4	76	0.52	3.8	0.8	15.3	6	<0.1	0.4	0.4	<2	0.01	0.011



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Report Date: June 06, 2011

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CERTIFICATE OF ANALYSIS

WHI11000153.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		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
Y8	Rock	18	1	0.02	67	0.003	7	0.43	0.001	0.37	0.2	0.01	2.8	0.2	<0.05	2	<0.5	<0.2
Y9	Rock	11	1	0.01	33	<0.001	6	0.29	0.001	0.14	0.1	<0.01	0.8	<0.1	<0.05	<1	<0.5	<0.2
Y10	Rock	14	1	0.02	39	<0.001	2	0.34	0.001	0.17	0.2	<0.01	0.5	0.1	<0.05	<1	<0.5	<0.2
Y11	Rock	1	2	0.01	29	0.001	1	0.18	<0.001	0.05	<0.1	<0.01	0.4	<0.1	<0.05	<1	0.5	<0.2
Y12	Rock	2	1	<0.01	32	<0.001	2	0.13	<0.001	0.06	<0.1	<0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2
Y13	Rock	1	19	0.20	65	0.072	2	2.93	0.194	0.03	<0.1	<0.01	1.0	<0.1	<0.05	5	1.1	<0.2
Y14	Rock	2	11	0.11	17	0.096	2	3.66	0.542	0.04	0.1	<0.01	0.8	<0.1	0.81	7	15.3	0.3
Y15	Rock	7	2	0.16	50	0.079	<1	0.26	0.068	0.07	<0.1	<0.01	2.6	<0.1	0.42	2	2.9	<0.2
Y16	Rock	7	1	0.16	81	0.066	<1	0.26	0.066	0.06	<0.1	<0.01	1.5	<0.1	1.16	1	4.8	<0.2
Y17	Rock	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.
A184	Rock	14	<1	<0.01	43	<0.001	<1	0.65	0.002	0.09	0.2	<0.01	0.5	<0.1	<0.05	1	<0.5	<0.2
A185	Rock	7	<1	<0.01	552	<0.001	1	0.34	0.003	0.16	<0.1	<0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2
A187	Rock	7	<1	0.01	21	0.001	<1	0.55	<0.001	0.03	0.3	<0.01	2.6	<0.1	<0.05	1	<0.5	<0.2
A189	Rock	6	5	0.04	83	0.006	<1	0.21	0.004	0.10	<0.1	<0.01	0.4	<0.1	<0.05	<1	<0.5	<0.2
A190	Rock	5	3	0.04	39	0.002	<1	0.65	<0.001	0.09	0.5	<0.01	3.3	<0.1	<0.05	2	<0.5	<0.2
A192	Rock	1	2	<0.01	54	<0.001	<1	0.08	0.005	0.04	<0.1	<0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2
A193	Rock	4	6	0.02	126	0.002	3	0.24	0.002	0.12	0.1	0.03	0.7	<0.1	<0.05	1	0.8	<0.2
A194	Rock	5	12	0.13	44	0.006	<1	0.48	0.016	0.21	0.2	<0.01	0.9	<0.1	<0.05	2	<0.5	<0.2
A197	Rock	17	8	0.02	194	0.002	<1	0.53	0.003	0.16	0.1	<0.01	2.5	0.1	<0.05	1	<0.5	<0.2
A199	Rock	48	3	0.03	172	0.001	2	0.51	0.027	0.30	1.4	0.01	0.8	0.1	0.30	2	<0.5	0.2
JM1	Rock	15	<1	<0.01	26	<0.001	<1	0.32	0.001	0.10	0.2	0.07	0.6	<0.1	<0.05	<1	<0.5	<0.2



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Project: None Given
Report Date: June 06, 2011

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QUALITY CONTROL REPORT

WHI11000153.1

	Method Analyte Unit MDL	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		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																						
Q24	Rock	0.31	0.2	11.6	2.0	9	<0.1	4.5	0.7	74	0.49	6.0	<0.5	0.5	<1	<0.1	2.3	<0.1	6	0.02	0.012	
REP Q24	QC		0.3	11.7	2.0	9	<0.1	4.4	0.7	75	0.48	5.9	<0.5	0.5	<1	<0.1	2.4	<0.1	5	0.02	0.013	
Y11	Rock	0.23	0.5	5.0	4.1	20	<0.1	2.2	1.5	100	0.90	1.0	2.5	0.8	1	<0.1	0.2	<0.1	6	0.01	0.011	
REP Y11	QC		0.5	4.6	4.1	19	<0.1	2.8	1.4	96	0.89	1.0	2.4	0.9	1	<0.1	0.2	<0.1	6	0.01	0.010	
Core Reject Duplicates																						
Q29	Rock	0.17	0.2	4.2	157.9	281	0.2	0.7	0.9	286	0.57	2.7	<0.5	10.8	2	0.7	0.7	<0.1	<2	0.02	0.008	
DUP Q29	QC		0.1	4.3	153.7	274	0.1	0.9	0.9	278	0.59	2.4	<0.5	10.5	2	0.7	0.6	<0.1	<2	0.01	0.007	
A185	Rock	0.10	0.4	2.5	14.5	5	0.4	0.5	0.2	29	0.33	7.0	2.2	7.7	9	<0.1	0.7	1.6	<2	0.02	0.017	
DUP A185	QC		0.4	2.3	14.2	5	0.4	0.3	0.1	29	0.33	6.8	1.6	7.4	9	<0.1	0.8	1.6	<2	0.02	0.016	
Reference Materials																						
STD DS8	Standard		13.5	111.3	123.0	336	2.1	37.9	7.7	641	2.52	27.7	115.6	6.8	71	2.6	6.1	7.1	40	0.70	0.083	
STD DS8	Standard		13.4	108.4	120.9	322	2.0	37.1	7.3	627	2.46	27.4	109.3	6.6	71	2.3	6.0	6.8	40	0.69	0.085	
STD DS8	Standard		14.3	115.0	127.8	341	1.8	39.8	7.9	649	2.50	26.9	121.2	7.0	70	2.7	6.3	7.0	41	0.70	0.081	
STD DS8	Standard		14.0	108.7	122.3	319	1.8	37.8	7.6	638	2.43	26.8	111.6	6.7	70	2.6	6.0	6.6	40	0.70	0.079	
STD DS8 Expected			13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	
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	
Prep Wash																						
G1	Prep Blank		<0.1	2.4	3.6	52	<0.1	3.2	4.2	557	1.90	<0.5	<0.5	5.2	60	<0.1	<0.1	<0.1	35	0.44	0.081	
G1	Prep Blank		<0.1	1.7	3.1	50	<0.1	3.0	4.3	597	2.00	0.6	<0.5	5.0	66	<0.1	<0.1	<0.1	36	0.48	0.082	



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QUALITY CONTROL REPORT

WHI11000153.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		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	0.1	0.05	1	0.5
Pulp Duplicates																		
Q24	Rock	3	4	0.02	27	0.001	<1	0.11	0.001	0.04	<0.1	<0.01	0.8	<0.1	<0.05	<1	<0.5	<0.2
REP Q24	QC	3	4	0.02	27	0.001	<1	0.11	0.001	0.04	<0.1	<0.01	0.8	<0.1	<0.05	<1	<0.5	<0.2
Y11	Rock	1	2	0.01	29	0.001	1	0.18	<0.001	0.05	<0.1	<0.01	0.4	<0.1	<0.05	<1	0.5	<0.2
REP Y11	QC	1	2	0.01	29	0.002	1	0.18	<0.001	0.05	<0.1	<0.01	0.3	<0.1	<0.05	<1	<0.5	<0.2
Core Reject Duplicates																		
Q29	Rock	8	<1	<0.01	25	<0.001	<1	0.25	0.001	0.10	<0.1	<0.01	0.3	<0.1	<0.05	<1	<0.5	<0.2
DUP Q29	QC	7	<1	<0.01	29	<0.001	2	0.36	0.002	0.13	<0.1	<0.01	0.3	<0.1	<0.05	<1	<0.5	<0.2
A185	Rock	7	<1	<0.01	552	<0.001	1	0.34	0.003	0.16	<0.1	<0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2
DUP A185	QC	7	<1	<0.01	550	<0.001	<1	0.35	0.003	0.15	<0.1	<0.01	0.3	<0.1	<0.05	<1	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	16	120	0.63	313	0.121	4	0.98	0.093	0.46	3.2	0.22	2.1	5.6	0.16	5	5.1	5.5
STD DS8	Standard	15	117	0.62	301	0.117	3	0.96	0.090	0.44	3.2	0.19	2.0	5.6	0.16	5	5.3	4.9
STD DS8	Standard	16	122	0.64	306	0.124	3	0.98	0.096	0.43	3.3	0.18	2.1	5.7	0.16	5	5.0	5.1
STD DS8	Standard	16	118	0.61	288	0.119	3	0.95	0.089	0.44	3.1	0.21	1.9	5.5	0.16	5	5.3	5.6
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
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
Prep Wash																		
G1	Prep Blank	9	7	0.56	229	0.121	1	1.04	0.097	0.50	<0.1	<0.01	1.7	0.3	<0.05	5	<0.5	<0.2
G1	Prep Blank	9	6	0.58	231	0.123	<1	1.08	0.105	0.53	<0.1	<0.01	1.8	0.3	<0.05	5	<0.5	<0.2



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Submitted By: Gordon Richards
Receiving Lab: Canada-Whitehorse
Received: July 25, 2011
Report Date: August 14, 2011
Page: 1 of 6

CERTIFICATE OF ANALYSIS

WHI11000739.1

CLIENT JOB INFORMATION

Project: Cold
Shipment ID:
P.O. Number
Number of Samples: 125

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	116	Crush, split and pulverize 250 g rock to 200 mesh			WHI
1DX2	116	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 90 days

ADDITIONAL COMMENTS

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: Richards, Gordon
6410 Holly Park Drive
Delta BC V4K 4W6
Canada

CC:



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. 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: Cold
Report Date: August 14, 2011

Page: 2 of 6 Part 1

CERTIFICATE OF ANALYSIS

WHI11000739.1

	Method Analyte Unit MDL	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Wgt kg	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %
		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
G110	Rock	0.27	2.6	81.6	3.0	8	0.1	3.3	0.5	32	2.61	37.0	8.5	1.3	8	0.2	3.2	<0.1	35	0.01	0.055
G111	Rock	0.25	1.9	47.2	5.1	12	<0.1	5.9	0.9	61	3.15	31.5	4.7	0.6	4	0.3	1.6	0.1	29	<0.01	0.110
G112	Rock	0.35	3.5	75.8	2.5	16	<0.1	4.6	0.4	24	2.90	26.8	1.3	0.9	3	0.3	2.6	<0.1	35	<0.01	0.099
G113	Rock	0.31	1.5	41.5	0.9	24	<0.1	2.8	0.7	36	2.82	18.6	1.2	0.6	2	0.1	0.8	<0.1	37	<0.01	0.072
G114	Rock	0.15	1.1	20.2	1.8	6	<0.1	3.4	0.8	60	1.56	21.7	2.1	0.4	13	<0.1	1.8	<0.1	20	<0.01	0.031
G115	Rock	0.18	0.5	68.0	6.2	8	0.2	2.2	0.5	65	3.05	87.2	25.3	0.3	12	<0.1	6.0	0.3	25	<0.01	0.051
G116	Rock	0.14	1.3	46.1	11.1	26	0.9	6.4	1.0	84	2.73	136.2	8.4	0.2	16	<0.1	6.6	<0.1	50	<0.01	0.054
G117	Rock	0.23	1.2	93.9	3.1	9	0.9	1.9	0.3	49	4.07	272.3	39.7	0.2	5	<0.1	14.6	<0.1	22	<0.01	0.051
G118	Rock	0.25	1.6	124.2	3.1	25	0.9	5.0	1.0	70	7.08	391.5	75.7	0.2	12	<0.1	10.7	0.3	62	<0.01	0.056
G119	Rock	0.20	0.6	8.1	4.0	1	0.2	0.9	0.2	37	0.65	8.7	1.5	0.2	12	<0.1	1.5	<0.1	8	<0.01	0.009
G120	Rock	0.43	0.4	8.1	5.1	52	<0.1	8.4	5.7	300	2.11	3.7	3.2	9.8	17	<0.1	0.2	<0.1	30	0.23	0.042
G125	Rock	0.28	0.2	1.7	0.6	27	<0.1	3.1	1.3	295	0.40	5.4	17.3	1.2	14	0.1	0.2	1.1	7	0.48	0.050
G134	Rock	0.39	0.3	9.9	6.4	47	<0.1	5.1	2.3	150	3.53	4.4	<0.5	1.1	<1	<0.1	1.2	<0.1	33	0.04	0.033
G135	Rock	0.20	0.5	10.1	3.9	13	<0.1	2.4	1.0	82	3.22	20.1	1.8	0.6	1	<0.1	4.5	0.3	5	0.03	0.014
G137	Rock	0.19	1.0	39.5	2.8	86	<0.1	45.9	20.8	1457	3.62	9.2	1.3	5.7	4	0.2	9.1	0.2	31	0.02	0.026
G138	Rock	0.28	0.9	2.2	11.5	130	<0.1	4.2	3.3	441	5.12	55.9	<0.5	10.7	2	0.2	1.2	0.3	7	0.01	0.033
G139	Rock	0.39	0.4	2.0	8.1	54	<0.1	2.9	2.5	260	2.16	43.3	<0.5	11.3	2	0.2	0.7	0.3	3	0.02	0.021
G140	Rock	0.17	0.3	6.4	17.4	2	0.2	2.9	0.8	67	0.64	17.9	2.1	0.2	12	<0.1	1.7	0.9	3	<0.01	0.007
G141	Rock	0.09	1.1	16.3	2.5	2	<0.1	1.5	0.5	72	1.26	8.2	<0.5	0.4	4	<0.1	0.2	0.1	4	<0.01	0.014
G142	Rock	0.22	0.4	7.8	2.8	3	<0.1	2.1	0.6	41	0.77	7.1	2.3	0.5	10	<0.1	0.3	<0.1	5	<0.01	0.012
G143	Rock	0.28	1.0	21.1	361.4	74	<0.1	5.9	1.1	83	6.50	13.0	<0.5	3.8	4	<0.1	0.5	<0.1	29	0.01	0.031
G144	Rock	0.14	2.5	21.3	2.3	69	<0.1	22.3	4.1	95	5.71	13.6	0.7	1.8	5	0.4	0.6	<0.1	15	0.02	0.099
G145	Rock	0.14	47.5	73.6	7.9	545	0.3	82.1	8.0	1327	21.28	246.0	7.4	0.9	25	4.0	4.4	0.1	84	0.12	0.556
G146	Rock	0.27	3.9	155.7	4.3	110	0.4	16.6	4.7	301	9.56	42.8	5.2	3.2	4	0.7	5.0	0.5	12	0.03	0.058
G147	Rock	0.24	1.5	2.2	14.4	106	0.1	4.8	5.5	504	4.33	17.6	0.7	9.9	4	0.2	0.6	0.3	2	0.03	0.031
G148	Rock	0.35	0.4	5.0	2.6	5	0.7	1.9	0.5	64	0.46	2.0	<0.5	0.5	19	<0.1	0.4	<0.1	15	0.03	0.012
G149	Rock	0.20	0.4	11.2	3.5	7	0.1	1.3	0.5	63	0.54	3.1	<0.5	1.6	5	<0.1	0.7	0.1	6	0.02	0.004
G150	Rock	0.26	1.4	106.3	4.6	69	<0.1	23.9	5.5	47	4.18	39.0	<0.5	0.8	<1	0.2	0.6	<0.1	12	<0.01	0.075
G151	Rock	0.13	0.3	5.2	2.6	5	<0.1	1.8	0.5	50	0.60	7.2	<0.5	0.6	1	<0.1	<0.1	<0.1	6	<0.01	0.005
G152	Rock	0.22	0.3	2.6	0.2	2	<0.1	2.8	0.7	58	0.46	1.0	<0.5	0.5	<1	<0.1	0.1	<0.1	3	<0.01	0.002



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Project: Cold
Report Date: August 14, 2011

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CERTIFICATE OF ANALYSIS

WHI11000739.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		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
G110	Rock	4	17	0.01	90	0.002	1	0.19	0.001	0.06	0.1	0.11	1.3	<0.1	<0.05	1	5.3	<0.2
G111	Rock	4	17	<0.01	53	0.002	1	0.19	<0.001	0.03	<0.1	0.10	2.5	<0.1	<0.05	<1	1.6	<0.2
G112	Rock	4	16	<0.01	56	0.002	<1	0.23	<0.001	0.03	<0.1	0.13	1.6	<0.1	<0.05	<1	1.5	<0.2
G113	Rock	1	11	<0.01	34	0.002	<1	0.16	<0.001	0.01	0.1	0.13	1.4	<0.1	<0.05	<1	<0.5	<0.2
G114	Rock	2	16	0.01	139	0.002	<1	0.14	<0.001	0.06	0.2	0.08	0.7	<0.1	<0.05	1	1.7	<0.2
G115	Rock	2	13	<0.01	61	0.002	1	0.13	<0.001	0.03	<0.1	0.17	1.0	<0.1	<0.05	<1	2.1	<0.2
G116	Rock	2	24	<0.01	143	<0.001	2	0.12	<0.001	0.03	<0.1	0.27	2.1	<0.1	<0.05	1	1.9	0.2
G117	Rock	<1	15	<0.01	33	0.002	1	0.12	<0.001	0.02	0.1	0.96	1.3	<0.1	<0.05	<1	9.2	<0.2
G118	Rock	1	27	<0.01	49	0.001	1	0.22	<0.001	0.03	0.1	0.66	2.8	<0.1	<0.05	1	12.6	<0.2
G119	Rock	1	7	<0.01	111	<0.001	<1	0.06	<0.001	0.03	<0.1	0.04	0.5	<0.1	<0.05	<1	<0.5	<0.2
G120	Rock	16	14	0.43	143	0.117	1	1.41	0.043	0.50	0.1	0.01	2.8	0.4	<0.05	6	<0.5	<0.2
G125	Rock	6	9	0.08	37	0.023	<1	0.28	<0.001	<0.01	0.5	<0.01	0.8	<0.1	<0.05	<1	<0.5	<0.2
G134	Rock	6	7	0.01	25	0.003	<1	0.33	<0.001	0.03	0.1	0.03	7.0	<0.1	<0.05	1	<0.5	<0.2
G135	Rock	8	5	<0.01	19	0.001	<1	0.17	<0.001	0.05	1.2	0.07	2.4	<0.1	<0.05	<1	<0.5	<0.2
G137	Rock	14	16	0.02	182	0.004	<1	0.31	<0.001	0.04	0.3	0.08	9.3	0.2	<0.05	2	<0.5	<0.2
G138	Rock	22	2	0.01	92	0.001	1	0.37	0.001	0.11	0.7	0.02	1.5	0.1	<0.05	1	<0.5	<0.2
G139	Rock	14	2	<0.01	54	0.001	1	0.41	<0.001	0.08	0.2	0.02	1.5	<0.1	<0.05	1	<0.5	<0.2
G140	Rock	<1	9	<0.01	121	<0.001	1	0.08	<0.001	0.03	0.1	0.04	0.3	<0.1	<0.05	<1	<0.5	<0.2
G141	Rock	1	9	<0.01	73	0.001	<1	0.11	<0.001	0.02	0.1	0.01	0.8	<0.1	<0.05	<1	1.6	<0.2
G142	Rock	2	8	<0.01	105	<0.001	<1	0.10	0.002	0.03	0.2	0.02	0.7	<0.1	<0.05	<1	0.9	<0.2
G143	Rock	8	15	<0.01	76	0.002	<1	0.33	0.005	0.08	<0.1	<0.01	2.1	<0.1	<0.05	<1	<0.5	<0.2
G144	Rock	4	9	0.01	82	0.002	<1	0.20	0.005	0.08	0.1	0.01	0.7	<0.1	<0.05	<1	<0.5	<0.2
G145	Rock	3	18	0.03	594	0.002	2	0.36	0.002	0.09	0.4	0.05	5.3	0.2	<0.05	1	2.5	<0.2
G146	Rock	<1	7	0.03	730	0.003	<1	0.38	0.004	0.10	0.1	0.02	0.9	<0.1	<0.05	2	12.7	<0.2
G147	Rock	20	2	0.01	97	<0.001	1	0.39	<0.001	0.14	0.2	0.01	1.0	0.4	<0.05	<1	<0.5	<0.2
G148	Rock	3	18	0.12	143	0.020	<1	0.17	0.010	0.09	<0.1	<0.01	0.7	<0.1	0.05	1	0.8	<0.2
G149	Rock	2	9	0.14	344	0.036	<1	0.27	0.010	0.09	<0.1	<0.01	0.6	<0.1	<0.05	1	<0.5	<0.2
G150	Rock	1	7	<0.01	22	0.002	<1	0.16	<0.001	0.03	<0.1	<0.01	0.5	<0.1	<0.05	<1	0.8	<0.2
G151	Rock	2	7	<0.01	35	0.001	<1	0.07	0.001	0.05	<0.1	<0.01	0.3	<0.1	<0.05	<1	<0.5	<0.2
G152	Rock	1	11	0.04	16	<0.001	<1	0.07	0.001	0.02	<0.1	<0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2



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Project: Cold
Report Date: August 14, 2011

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CERTIFICATE OF ANALYSIS

WHI11000739.1

	Method Analyte Unit MDL	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		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
G153	Rock	0.22	0.4	3.2	0.8	26	<0.1	15.8	6.8	4659	0.51	5.8	<0.5	1.5	2	<0.1	0.1	<0.1	<2	0.04	0.011
G154	Rock	0.22	0.4	42.9	14.6	114	<0.1	12.0	2.5	116	1.57	27.2	<0.5	4.6	2	0.2	0.9	<0.1	6	0.01	0.015
G155	Rock	0.23	0.7	21.2	0.4	3	<0.1	1.7	0.3	76	1.32	1.6	0.7	<0.1	<1	<0.1	0.2	<0.1	40	<0.01	0.023
G156	Rock	0.23	3.2	143.5	2.2	60	<0.1	31.1	3.9	232	5.97	46.6	1.0	0.4	<1	<0.1	1.0	0.1	20	<0.01	0.089
G157	Rock	0.16	0.7	29.2	39.3	7	22.5	2.0	0.6	88	1.14	49.1	3.2	0.4	2	<0.1	22.7	0.1	<2	<0.01	0.007
G158	Rock	0.18	1.1	50.1	1675	72	5.9	2.2	0.7	48	1.35	61.1	24.3	1.4	9	1.4	6.1	2.1	3	0.06	0.019
G159	Rock	0.19	1.3	31.1	2302	38	12.9	1.6	0.5	94	1.66	42.2	10.0	1.4	6	0.1	8.4	0.5	3	0.08	0.022
G160	Rock	0.24	0.3	8.4	13.0	11	0.1	2.7	1.1	57	0.97	7.0	2.5	5.6	2	<0.1	3.2	2.8	5	0.02	0.016
G161	Rock	0.24	0.6	16.5	10.0	23	<0.1	8.1	2.9	111	1.43	10.2	1.2	4.9	2	<0.1	5.3	3.0	11	<0.01	0.011
G162	Rock	0.18	0.7	25.4	8.8	48	0.2	20.9	5.3	259	1.76	2.3	<0.5	0.7	3	<0.1	0.8	0.2	46	<0.01	0.006
G163	Rock	0.17	1.0	6.3	6.4	27	<0.1	6.4	4.7	446	2.03	2.1	1.0	7.4	5	<0.1	1.2	0.3	20	0.04	0.028
G164	Rock	0.24	0.2	0.8	4.8	6	<0.1	0.9	0.8	92	0.43	1.0	0.8	4.5	2	<0.1	0.1	<0.1	2	0.07	0.003
G165	Rock	0.37	1.0	18.2	4.6	42	0.2	10.5	3.7	205	1.85	123.4	3.6	2.1	10	<0.1	1.8	0.1	17	0.02	0.021
G174	Rock	0.12	0.7	49.4	19.0	41	0.2	12.8	12.4	379	3.00	30.4	7.0	2.1	4	0.2	3.7	2.1	48	0.02	0.020
G175	Rock	0.17	1.4	10.7	13.7	62	0.3	14.9	15.7	945	2.65	39.4	1.4	8.0	4	0.1	1.9	0.2	23	0.15	0.059
G176	Rock	0.07	0.9	20.7	7.9	82	<0.1	29.1	18.6	705	2.93	39.5	<0.5	10.4	11	0.1	3.5	0.1	54	0.15	0.051
G177	Rock	0.23	0.4	12.7	5.6	5	<0.1	3.7	0.8	79	0.55	14.4	1.0	0.8	<1	<0.1	4.5	<0.1	6	<0.01	0.007
G178	Rock	0.21	0.2	7.2	0.7	14	0.2	2.2	0.4	39	0.85	12.5	1.6	1.3	1	<0.1	8.6	<0.1	13	<0.01	0.012
G179	Rock	0.40	0.5	5.0	10.1	6	0.2	2.7	1.3	94	0.68	8.2	<0.5	0.4	1	<0.1	0.8	<0.1	<2	<0.01	0.003
G180	Rock	0.27	0.3	7.7	87.8	20	1.1	1.5	0.3	33	0.59	153.4	7.3	0.8	2	<0.1	6.3	0.1	3	<0.01	0.007
J156	Rock	0.17	1.4	5.2	6.2	12	0.7	2.8	1.4	89	0.79	1.5	1.2	1.7	11	<0.1	0.8	0.1	10	0.02	0.014
J157	Rock	0.19	1.0	7.7	3.4	83	0.3	13.5	4.0	138	1.21	11.1	<0.5	0.9	12	<0.1	2.5	<0.1	14	0.01	0.016
J204	Rock	0.28	1.1	41.3	9.9	71	0.1	23.0	18.9	664	3.28	29.3	1.4	13.0	4	0.1	1.5	0.2	54	0.20	0.093
J206	Rock	0.27	1.0	16.6	15.9	101	<0.1	9.8	17.1	966	3.23	16.4	10.1	6.6	5	0.7	2.0	0.5	33	0.16	0.061
J207	Rock	0.33	0.6	28.7	69.3	187	0.1	8.7	8.7	334	1.74	10.0	<0.5	6.5	4	0.4	3.9	1.4	15	0.14	0.046
J208	Rock	0.42	1.2	13.5	125.9	105	0.5	4.5	8.8	622	2.04	193.5	3.5	4.6	9	0.7	6.8	0.5	18	0.07	0.034
J209	Rock	0.24	0.9	38.3	6828	229	87.0	1.9	1.0	55	2.38	147.2	8.0	4.0	2	0.8	401.2	3.3	6	0.06	0.068
J210	Rock	0.24	0.8	8.3	472.0	49	2.7	1.2	0.6	48	0.67	31.9	5.6	1.0	5	<0.1	5.4	0.3	3	<0.01	0.013
J211	Rock	0.40	0.5	5.8	22.8	44	0.3	3.9	5.2	647	0.89	4.4	1.7	12.4	6	0.3	2.0	0.2	7	0.06	0.021
J212	Rock	0.23	1.0	10.6	11.6	128	<0.1	13.9	7.5	1309	3.49	14.9	<0.5	8.0	7	1.0	5.1	<0.1	23	0.17	0.068



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Project: Cold
Report Date: August 14, 2011

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		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
G153	Rock	3	10	0.03	234	0.013	<1	0.15	<0.001	0.02	<0.1	<0.01	1.3	<0.1	<0.05	<1	<0.5	<0.2
G154	Rock	9	9	0.04	75	0.002	3	0.32	0.002	0.15	<0.1	<0.01	1.2	<0.1	<0.05	1	<0.5	<0.2
G155	Rock	<1	7	<0.01	32	<0.001	<1	0.04	0.003	0.02	<0.1	<0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2
G156	Rock	2	11	0.05	29	0.009	2	0.33	<0.001	0.06	<0.1	<0.01	1.1	<0.1	<0.05	1	<0.5	<0.2
G157	Rock	1	10	<0.01	68	<0.001	2	0.06	<0.001	0.04	0.1	<0.01	0.5	<0.1	<0.05	<1	<0.5	<0.2
G158	Rock	5	11	<0.01	486	<0.001	3	0.13	0.003	0.15	0.1	0.04	0.9	0.2	0.22	1	0.8	0.6
G159	Rock	5	13	<0.01	549	<0.001	4	0.16	0.003	0.17	0.2	0.06	0.3	0.4	0.24	1	1.2	0.6
G160	Rock	7	8	<0.01	25	<0.001	<1	0.22	0.002	0.08	0.1	<0.01	1.1	<0.1	<0.05	<1	<0.5	<0.2
G161	Rock	9	11	0.01	37	0.001	2	0.23	0.001	0.07	0.1	0.03	2.7	<0.1	<0.05	<1	<0.5	<0.2
G162	Rock	2	21	0.02	57	0.004	<1	0.27	0.002	0.09	0.1	<0.01	2.7	<0.1	<0.05	1	<0.5	<0.2
G163	Rock	7	15	0.02	140	0.002	1	0.34	0.001	0.05	0.1	0.02	3.5	0.2	<0.05	1	<0.5	<0.2
G164	Rock	2	5	0.01	48	<0.001	1	0.21	0.027	0.13	0.1	<0.01	0.3	<0.1	<0.05	<1	<0.5	<0.2
G165	Rock	4	11	0.01	48	<0.001	3	0.20	0.002	0.09	0.2	<0.01	2.9	0.1	<0.05	<1	<0.5	<0.2
G174	Rock	5	9	0.03	95	0.003	2	0.54	0.005	0.11	0.3	<0.01	5.7	0.2	<0.05	2	<0.5	<0.2
G175	Rock	24	11	0.06	237	0.002	2	0.49	0.003	0.16	0.2	<0.01	4.5	0.2	<0.05	2	<0.5	<0.2
G176	Rock	15	51	0.12	283	0.007	2	1.54	0.009	0.14	0.2	0.06	10.1	0.2	<0.05	4	<0.5	<0.2
G177	Rock	5	10	<0.01	29	<0.001	<1	0.11	<0.001	0.05	<0.1	<0.01	0.9	<0.1	<0.05	<1	<0.5	<0.2
G178	Rock	7	15	0.01	23	0.002	<1	0.15	0.001	0.03	0.1	0.19	0.5	0.3	<0.05	1	<0.5	<0.2
G179	Rock	1	10	<0.01	180	0.001	4	0.10	0.001	0.05	<0.1	<0.01	0.1	<0.1	<0.05	<1	<0.5	<0.2
G180	Rock	3	8	<0.01	36	<0.001	1	0.10	0.001	0.07	0.1	<0.01	0.4	<0.1	<0.05	<1	<0.5	<0.2
J156	Rock	9	10	0.06	78	0.002	<1	0.26	0.010	0.10	<0.1	0.02	0.3	<0.1	0.05	1	0.7	<0.2
J157	Rock	24	13	0.01	263	0.001	4	0.18	0.001	0.08	<0.1	<0.01	1.3	<0.1	<0.05	<1	<0.5	<0.2
J204	Rock	30	27	0.04	85	0.003	1	0.62	0.003	0.18	0.2	0.02	3.9	0.2	<0.05	2	<0.5	<0.2
J206	Rock	18	11	0.03	100	0.002	1	0.47	0.003	0.13	0.2	<0.01	6.7	0.2	<0.05	1	<0.5	<0.2
J207	Rock	7	15	0.09	46	0.003	2	0.49	0.003	0.16	0.2	<0.01	3.0	0.1	<0.05	2	<0.5	<0.2
J208	Rock	12	10	0.03	175	0.002	1	0.41	0.003	0.13	0.2	0.04	3.3	0.4	<0.05	1	<0.5	<0.2
J209	Rock	12	5	0.02	51	0.001	3	0.27	0.002	0.18	<0.1	0.09	0.8	0.3	0.26	2	4.2	1.6
J210	Rock	2	8	<0.01	46	<0.001	1	0.08	0.001	0.06	0.1	<0.01	0.3	<0.1	<0.05	<1	0.7	<0.2
J211	Rock	10	5	0.03	97	0.003	1	0.49	0.003	0.11	0.1	<0.01	1.3	0.9	<0.05	1	<0.5	<0.2
J212	Rock	27	9	0.05	149	0.004	1	0.54	0.003	0.04	0.2	<0.01	7.5	0.3	<0.05	1	<0.5	<0.2



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	Method Analyte Unit MDL	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		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
J213	Rock	0.27	0.5	6.7	14.7	22	<0.1	2.8	2.5	154	1.03	15.8	1.2	12.3	4	0.1	3.6	0.2	5	0.09	0.017
J219	Rock	0.32	0.4	3.8	8.4	21	<0.1	3.4	2.5	162	1.15	9.0	<0.5	9.0	3	<0.1	1.1	0.5	4	0.03	0.013
J220	Rock	0.29	1.0	11.0	5.0	29	<0.1	8.9	7.0	585	2.22	18.3	0.6	7.2	4	<0.1	1.0	0.2	26	0.04	0.025
J221	Rock	0.39	2.3	37.0	8.1	59	<0.1	22.0	5.7	259	4.66	18.7	1.2	28.9	5	<0.1	2.1	<0.1	64	0.02	0.014
Y163	Rock	0.29	1.0	45.0	7.0	146	0.4	23.7	3.4	105	3.09	3.8	0.8	2.7	5	0.1	0.5	<0.1	14	0.01	0.046
Y164	Rock	0.49	0.6	73.7	10.4	149	0.4	18.4	2.6	122	2.43	2.9	0.9	2.9	9	0.3	0.2	<0.1	10	0.03	0.024
Y165	Rock	0.21	9.1	92.6	11.7	300	0.2	49.5	8.7	419	13.28	7.2	1.0	4.6	3	0.3	1.3	<0.1	41	0.02	0.102
Y166	Rock	0.16	1.0	28.3	3.0	93	<0.1	14.6	1.8	119	1.47	1.2	0.8	0.4	1	<0.1	0.4	<0.1	5	<0.01	0.013
Y167	Rock	0.36	0.9	54.8	10.8	73	0.3	39.7	8.3	164	1.23	1.5	1.9	0.7	18	<0.1	0.2	0.2	13	0.10	0.052
Y168	Rock	0.28	3.2	97.4	22.3	140	0.7	40.5	6.9	323	2.65	11.4	5.9	1.7	20	0.3	1.8	0.2	24	0.02	0.036
Y169	Rock	0.47	2.3	68.3	18.8	176	0.7	57.4	13.3	665	2.45	7.8	1.7	1.1	8	0.6	1.6	0.3	27	0.02	0.032
Y170	Rock	0.52	12.9	61.3	47.5	225	3.1	32.3	3.0	75	3.44	10.6	2.0	4.1	20	<0.1	2.7	1.3	50	0.02	0.147
Y171	Rock	0.39	0.9	20.7	7.8	10	0.3	5.3	2.7	85	0.95	3.5	3.9	1.5	8	<0.1	1.9	<0.1	6	<0.01	0.018
Y172	Rock	0.49	1.3	118.8	5.2	534	0.3	60.7	8.3	125	4.38	15.5	1.5	3.3	9	0.3	2.3	<0.1	40	0.02	0.092
Y173	Rock	0.48	0.2	52.5	1.3	14	0.2	2.8	11.6	275	1.89	5.3	1.4	0.1	9	<0.1	0.2	<0.1	67	0.20	0.039
Y174	Rock	0.50	0.3	127.4	0.4	5	<0.1	2.4	4.1	230	1.05	1.4	1.1	<0.1	70	<0.1	0.2	<0.1	15	2.85	0.010
Y175	Rock	0.36	0.7	45.8	3.8	4	0.3	3.7	0.8	45	1.11	4.6	2.3	0.1	2	<0.1	0.9	<0.1	8	0.01	0.008
Y176	Rock	0.20	1.4	73.9	5.6	22	0.5	10.4	2.2	71	2.43	3.3	3.7	2.5	3	<0.1	1.1	0.1	12	0.03	0.040
Y177	Rock	0.38	0.4	44.2	5.6	20	<0.1	7.8	2.8	234	1.60	1.4	1.6	2.2	3	<0.1	0.3	<0.1	4	0.06	0.027
Y178	Rock	0.16	2.0	8.0	2.5	161	<0.1	988.4	87.1	2709	7.82	1615	19.5	3.0	8	0.8	19.7	0.6	85	0.06	0.019
Y179	Rock	0.31	5.9	103.4	23.6	107	0.4	27.7	10.6	222	2.89	38.2	4.0	2.1	8	0.3	2.5	0.1	34	0.10	0.105
Y180	Rock	0.33	0.2	15.6	8.3	40	<0.1	15.6	3.9	385	0.93	18.6	1.8	1.6	2	0.1	1.1	<0.1	6	0.02	0.007
Y181	Rock	0.37	1.5	80.9	2756	5574	7.2	58.1	16.5	4144	3.40	124.0	15.3	0.8	7	29.6	6.2	<0.1	14	0.12	0.047
Y191	Rock	0.24	0.7	9.6	13.2	59	<0.1	12.9	7.9	443	2.56	9.2	1.9	9.8	12	0.3	0.3	0.6	30	0.27	0.065
Y192	Rock	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.	L.N.R.
Y193	Rock	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.	L.N.R.
Y194	Rock	0.21	1.0	13.5	15.4	57	<0.1	18.0	13.4	702	2.00	128.4	1.8	7.3	5	0.1	8.9	0.2	15	0.10	0.052
Y197	Rock	0.21	3.5	28.1	23.5	96	<0.1	51.7	19.5	2537	4.73	19.2	1.8	9.2	10	0.6	1.0	0.1	62	0.12	0.069
Y198	Rock	0.37	0.7	18.1	7.6	20	<0.1	7.9	3.6	226	0.98	64.6	1.7	5.2	3	0.1	0.5	0.2	7	0.03	0.011
Y199	Rock	0.25	0.3	3.5	6.0	9	<0.1	2.6	1.7	159	0.66	3.4	2.4	4.4	5	<0.1	0.1	0.6	3	0.05	0.014



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		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
J213	Rock	19	5	0.03	49	0.002	3	0.40	0.003	0.16	0.2	0.02	0.6	0.2	<0.05	1	<0.5	<0.2
J219	Rock	13	4	0.02	52	0.002	2	0.43	0.002	0.08	<0.1	<0.01	1.4	<0.1	<0.05	1	<0.5	<0.2
J220	Rock	14	13	0.06	492	0.008	<1	0.45	0.002	0.04	0.2	<0.01	3.4	<0.1	<0.05	1	<0.5	<0.2
J221	Rock	37	19	0.03	102	0.003	1	0.37	0.003	0.08	0.1	<0.01	3.7	<0.1	<0.05	1	0.9	<0.2
Y163	Rock	5	9	0.05	172	0.003	<1	0.43	0.002	0.08	<0.1	<0.01	1.9	0.1	<0.05	1	1.1	<0.2
Y164	Rock	4	10	0.06	214	0.037	1	0.60	0.002	0.08	<0.1	<0.01	2.4	<0.1	<0.05	2	1.9	<0.2
Y165	Rock	3	25	0.04	62	0.003	1	0.73	0.001	0.07	0.1	0.02	3.7	<0.1	<0.05	4	0.8	<0.2
Y166	Rock	<1	6	0.02	51	0.001	<1	0.18	<0.001	0.04	<0.1	<0.01	0.6	<0.1	<0.05	<1	<0.5	<0.2
Y167	Rock	2	12	0.12	86	0.001	1	0.33	0.001	0.06	<0.1	<0.01	1.4	<0.1	<0.05	<1	0.8	<0.2
Y168	Rock	7	13	0.07	95	0.002	<1	0.35	0.001	0.10	0.1	<0.01	1.8	0.1	<0.05	1	1.9	0.3
Y169	Rock	4	13	0.03	107	<0.001	<1	0.26	0.001	0.08	<0.1	<0.01	1.8	0.2	<0.05	<1	3.0	<0.2
Y170	Rock	15	17	0.12	120	0.001	1	0.42	0.002	0.14	0.2	<0.01	2.2	<0.1	0.05	2	4.1	0.3
Y171	Rock	6	9	0.02	113	0.001	<1	0.18	<0.001	0.07	<0.1	<0.01	0.7	0.2	<0.05	<1	4.1	<0.2
Y172	Rock	3	13	0.06	150	0.003	1	0.38	0.001	0.09	<0.1	<0.01	2.5	0.1	<0.05	1	3.0	<0.2
Y173	Rock	<1	5	0.43	66	0.018	2	0.78	0.095	0.08	<0.1	<0.01	3.6	<0.1	<0.05	3	<0.5	<0.2
Y174	Rock	<1	5	0.05	46	0.006	<1	0.38	0.030	0.02	<0.1	<0.01	0.2	<0.1	<0.05	2	0.6	<0.2
Y175	Rock	<1	7	0.01	24	<0.001	<1	0.05	0.001	0.01	<0.1	<0.01	0.3	<0.1	<0.05	<1	0.7	<0.2
Y176	Rock	5	10	0.12	110	0.003	<1	0.40	0.003	0.14	<0.1	<0.01	0.7	0.1	<0.05	2	0.6	<0.2
Y177	Rock	6	9	0.18	61	<0.001	2	0.51	0.006	0.11	<0.1	<0.01	0.3	<0.1	<0.05	1	0.6	<0.2
Y178	Rock	7	1261	3.05	274	0.005	<1	3.06	0.001	0.03	<0.1	0.02	6.0	<0.1	<0.05	10	1.1	0.9
Y179	Rock	13	16	0.09	79	0.002	<1	0.41	0.001	0.07	0.1	<0.01	1.0	<0.1	<0.05	<1	2.7	0.3
Y180	Rock	5	14	0.17	108	0.002	2	0.36	0.001	0.07	<0.1	<0.01	1.2	<0.1	<0.05	<1	<0.5	<0.2
Y181	Rock	6	11	0.07	48	0.002	5	0.26	<0.001	0.10	0.1	0.05	2.7	0.2	<0.05	1	2.6	<0.2
Y191	Rock	21	19	0.27	190	0.010	<1	1.11	0.020	0.15	0.1	0.01	2.6	<0.1	<0.05	4	<0.5	<0.2
Y192	Rock	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.
Y193	Rock	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.
Y194	Rock	15	23	0.03	117	0.001	<1	0.47	0.010	0.10	0.2	<0.01	3.6	<0.1	<0.05	1	0.5	<0.2
Y197	Rock	36	28	0.07	539	0.004	1	0.60	0.002	0.09	0.2	0.05	8.1	0.1	<0.05	2	<0.5	<0.2
Y198	Rock	4	6	0.09	102	0.002	<1	0.32	0.015	0.09	<0.1	<0.01	0.5	<0.1	<0.05	1	0.7	<0.2
Y199	Rock	6	6	0.04	52	0.004	<1	0.31	0.032	0.12	<0.1	<0.01	0.7	<0.1	<0.05	1	<0.5	<0.2



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Project: Cold
Report Date: August 14, 2011

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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		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
Y200	Rock	0.22	0.8	12.8	8.8	110	<0.1	13.4	18.4	907	5.94	2.0	1.0	5.9	6	0.2	0.4	<0.1	88	0.19	0.106
Y201	Rock	0.28	2.0	8.9	9.7	120	<0.1	19.2	20.0	1799	8.81	4.1	0.7	12.7	8	0.3	0.4	<0.1	94	0.22	0.117
Y205	Rock	0.24	1.8	10.8	9.7	75	<0.1	17.3	7.1	326	5.17	20.7	4.9	3.2	5	0.3	2.6	0.3	19	0.04	0.034
Y206	Rock	0.18	1.3	19.3	20.7	138	<0.1	32.3	15.6	601	2.73	12.7	2.2	6.3	7	0.3	1.3	0.1	28	0.08	0.052
Y207	Rock	0.33	0.7	6.9	17.5	66	<0.1	32.4	15.4	662	2.95	3.9	1.1	6.1	7	0.2	0.5	1.5	38	0.38	0.188
Y209	Rock	0.28	0.9	5.2	7.4	26	<0.1	5.9	10.7	420	1.87	12.2	1.7	8.8	4	<0.1	0.5	0.2	9	0.09	0.043
Y210	Rock	0.23	0.3	8.0	12.1	14	<0.1	4.5	2.1	277	0.92	3.1	3.2	11.4	5	<0.1	0.3	0.8	5	0.06	0.011
Y211	Rock	0.40	0.2	29.9	5.4	45	<0.1	31.9	16.5	478	2.75	5.1	0.6	5.8	43	<0.1	1.2	<0.1	64	0.90	0.163
Y212	Rock	0.16	1.2	10.8	17.5	36	0.2	9.8	5.4	240	1.91	19.6	2.9	5.7	2	<0.1	1.6	0.1	8	0.01	0.032
Y214	Rock	0.38	1.2	3.1	10.9	48	<0.1	2.6	7.9	414	2.45	0.6	2.8	13.9	3	<0.1	0.1	0.3	9	0.06	0.037
Y215	Rock	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.	L.N.R.
Y216	Rock	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.	L.N.R.
Y217	Rock	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.	L.N.R.
Y218	Rock	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.	L.N.R.
Y219	Rock	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.	L.N.R.
Y220	Rock	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.	L.N.R.
Y221	Rock	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.	L.N.R.
Y222	Rock	0.23	0.5	27.7	9.0	25	<0.1	7.6	2.9	110	2.07	3.5	1.7	7.7	2	<0.1	0.5	0.1	30	<0.01	0.009
Z581	Rock	0.22	7.3	49.5	4.0	78	0.9	23.6	2.1	55	1.31	2.1	2.6	2.5	4	0.4	0.8	<0.1	149	<0.01	0.033
Z582	Rock	0.16	23.5	255.9	6.0	297	0.4	74.8	7.9	115	5.12	5.2	2.1	3.2	11	3.4	2.7	0.2	265	<0.01	0.154
Z583	Rock	0.35	23.9	342.7	11.8	987	0.4	169.9	11.5	342	10.57	36.7	4.3	3.1	13	7.1	6.2	0.2	147	0.02	0.245
Z586	Rock	0.30	8.1	97.0	25.2	244	<0.1	97.3	11.4	582	6.23	108.1	3.1	2.3	8	0.5	6.5	0.4	56	<0.01	0.169
Z594	Rock	0.56	1.9	43.2	4.6	56	<0.1	20.4	5.0	70	5.44	7.9	<0.5	2.4	3	0.1	2.4	0.1	25	0.01	0.079
Z574	Rock	0.22	0.2	6.9	5.0	5	<0.1	6.9	5.5	58	0.40	4.5	1.5	0.7	1	<0.1	0.3	<0.1	<2	<0.01	0.002
G166	Rock	0.07	1.4	11.4	10.8	62	<0.1	14.2	26.2	861	3.74	38.2	1.3	7.7	6	0.1	0.8	0.1	41	0.08	0.048
G167	Rock	0.20	1.0	3.5	13.1	31	<0.1	2.2	1.6	135	1.63	14.1	0.7	14.0	25	<0.1	0.4	0.2	5	0.02	0.023
G168	Rock	0.29	0.2	1.2	6.6	12	<0.1	1.3	5.6	164	0.52	8.0	<0.5	13.8	3	<0.1	0.3	0.2	<2	0.02	0.010
G169	Rock	0.11	0.3	3.3	7.7	31	<0.1	4.7	2.7	101	0.85	4.0	<0.5	7.5	10	<0.1	1.0	0.2	22	0.01	0.016
G170	Rock	0.26	0.2	0.9	7.5	6	<0.1	0.5	0.3	28	0.39	5.2	5.0	5.8	4	<0.1	0.8	2.9	<2	<0.01	0.006
G171	Rock	0.26	1.1	8.3	25.4	17	2.7	3.5	1.6	37	0.70	116.0	11.8	2.3	12	<0.1	1.7	0.2	3	<0.01	0.012



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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		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
Y200	Rock	24	19	0.05	103	0.003	<1	0.72	0.002	0.07	0.1	0.20	12.7	<0.1	<0.05	2	<0.5	<0.2
Y201	Rock	39	12	0.05	204	0.002	<1	0.66	0.001	0.09	0.1	0.09	21.8	<0.1	<0.05	2	<0.5	<0.2
Y205	Rock	11	10	0.06	75	0.004	1	0.36	0.003	0.10	0.2	<0.01	3.0	<0.1	<0.05	1	0.6	0.3
Y206	Rock	19	29	0.05	100	0.003	2	0.54	0.003	0.12	0.1	0.01	4.0	<0.1	<0.05	2	<0.5	<0.2
Y207	Rock	16	49	0.02	76	0.003	2	0.63	0.002	0.10	0.2	0.02	5.0	<0.1	<0.05	2	<0.5	<0.2
Y209	Rock	15	7	0.06	74	0.004	2	0.47	0.011	0.16	<0.1	<0.01	1.6	<0.1	<0.05	<1	<0.5	<0.2
Y210	Rock	8	4	0.05	72	0.003	2	0.32	0.028	0.12	<0.1	<0.01	1.1	<0.1	<0.05	<1	<0.5	<0.2
Y211	Rock	23	109	1.33	77	0.127	2	1.66	0.047	0.11	0.1	<0.01	5.5	<0.1	<0.05	7	<0.5	<0.2
Y212	Rock	17	8	0.02	68	<0.001	3	0.28	0.002	0.14	0.1	<0.01	2.0	0.2	<0.05	<1	0.8	<0.2
Y214	Rock	13	4	0.02	46	0.003	<1	0.49	0.002	0.06	<0.1	0.04	3.1	<0.1	<0.05	2	<0.5	<0.2
Y215	Rock	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.
Y216	Rock	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.
Y217	Rock	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.
Y218	Rock	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.
Y219	Rock	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.
Y220	Rock	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.
Y221	Rock	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.
Y222	Rock	14	12	0.06	145	0.015	<1	0.43	0.003	0.14	<0.1	<0.01	1.7	<0.1	<0.05	1	0.7	<0.2
Z581	Rock	6	15	0.02	145	0.002	<1	0.23	0.001	0.07	0.3	0.03	1.3	<0.1	<0.05	<1	1.2	<0.2
Z582	Rock	20	20	0.03	256	0.002	<1	0.56	0.002	0.11	0.6	0.11	2.8	<0.1	<0.05	1	10.0	<0.2
Z583	Rock	10	25	0.02	212	0.003	<1	0.36	0.001	0.05	0.4	0.07	5.2	<0.1	<0.05	1	4.8	<0.2
Z586	Rock	5	22	<0.01	91	0.005	<1	0.37	<0.001	0.02	0.3	0.02	3.2	<0.1	<0.05	1	1.9	0.4
Z594	Rock	6	12	0.01	41	0.003	<1	0.33	0.003	0.04	<0.1	0.02	1.2	<0.1	<0.05	1	0.7	<0.2
Z574	Rock	<1	5	<0.01	20	<0.001	<1	0.08	<0.001	0.02	<0.1	<0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2
G166	Rock	18	15	0.16	127	0.005	2	1.12	0.025	0.23	0.2	0.01	3.9	0.1	<0.05	3	<0.5	<0.2
G167	Rock	19	4	0.01	103	0.001	1	0.34	0.004	0.20	0.3	<0.01	0.8	0.2	0.08	1	<0.5	<0.2
G168	Rock	25	2	0.01	36	<0.001	<1	0.33	0.003	0.14	0.2	<0.01	0.3	<0.1	<0.05	<1	<0.5	<0.2
G169	Rock	18	13	<0.01	45	0.004	1	1.00	<0.001	0.03	0.2	<0.01	3.0	0.2	<0.05	3	<0.5	<0.2
G170	Rock	6	2	<0.01	22	<0.001	<1	0.31	0.002	0.11	<0.1	<0.01	0.8	0.1	<0.05	<1	<0.5	<0.2
G171	Rock	7	4	0.01	37	<0.001	2	0.21	<0.001	0.14	<0.1	0.01	0.9	0.1	<0.05	<1	<0.5	1.7



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	Method Analyte Unit MDL	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		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
G172	Rock	0.19	0.4	3.0	11.8	15	<0.1	1.3	0.6	53	0.92	4.7	0.6	5.1	3	<0.1	1.0	0.2	5	0.02	0.020
G173	Rock	0.22	1.7	3.6	6.0	5	0.2	7.5	2.5	314	1.72	34.9	6.6	2.0	2	<0.1	2.1	0.3	9	0.01	0.011
Y162	Rock	0.15	0.6	1.7	8.5	13	<0.1	1.3	0.4	32	1.10	9.3	0.8	6.5	5	<0.1	2.3	0.2	4	<0.01	0.015
G181	Rock	0.27	0.7	2.1	14.1	10	<0.1	2.4	1.7	49	0.59	151.1	<0.5	8.6	3	0.1	1.4	0.2	<2	<0.01	0.007
G182	Rock	0.11	0.9	14.2	4.4	10	<0.1	4.4	1.0	63	1.09	80.6	<0.5	5.7	3	<0.1	1.7	<0.1	13	<0.01	0.019



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Client: **Richards, Gordon**
6410 Holly Park Drive
Delta BC V4K 4W6 Canada

Project: Cold
Report Date: August 14, 2011

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CERTIFICATE OF ANALYSIS

WHI11000739.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		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
G172	Rock	8	4	<0.01	57	<0.001	<1	0.32	0.001	0.07	0.1	0.02	1.3	<0.1	<0.05	<1	<0.5	<0.2
G173	Rock	6	8	0.01	87	<0.001	3	0.19	0.002	0.11	<0.1	0.01	0.8	<0.1	<0.05	<1	<0.5	<0.2
Y162	Rock	9	3	<0.01	35	<0.001	2	0.34	0.002	0.11	0.1	<0.01	1.6	0.1	<0.05	1	<0.5	<0.2
G181	Rock	19	4	<0.01	42	<0.001	2	0.35	0.001	0.15	<0.1	0.01	0.4	<0.1	<0.05	<1	<0.5	<0.2
G182	Rock	17	11	0.02	86	0.002	1	0.38	0.006	0.25	0.2	<0.01	1.8	0.1	<0.05	1	<0.5	<0.2



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August 14, 2011

Page:

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Part 1

QUALITY CONTROL REPORT

WHI11000739.1

Method Analyte Unit MDL		WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		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																					
G138	Rock	0.28	0.9	2.2	11.5	130	<0.1	4.2	3.3	441	5.12	55.9	<0.5	10.7	2	0.2	1.2	0.3	7	0.01	0.033
REP G138	QC		0.8	2.3	11.3	130	<0.1	4.3	3.3	453	5.30	56.3	0.7	10.7	2	0.2	1.2	0.3	7	0.01	0.030
G178	Rock	0.21	0.2	7.2	0.7	14	0.2	2.2	0.4	39	0.85	12.5	1.6	1.3	1	<0.1	8.6	<0.1	13	<0.01	0.012
REP G178	QC		0.3	7.1	2.5	15	0.2	2.4	0.5	44	0.95	14.2	0.9	1.4	1	<0.1	10.0	<0.1	11	<0.01	0.012
Y222	Rock	0.23	0.5	27.7	9.0	25	<0.1	7.6	2.9	110	2.07	3.5	1.7	7.7	2	<0.1	0.5	0.1	30	<0.01	0.009
REP Y222	QC		0.6	27.5	9.0	24	<0.1	7.3	2.8	108	2.04	3.6	1.2	7.8	2	<0.1	0.4	0.1	30	<0.01	0.009
G170	Rock	0.26	0.2	0.9	7.5	6	<0.1	0.5	0.3	28	0.39	5.2	5.0	5.8	4	<0.1	0.8	2.9	<2	<0.01	0.006
REP G170	QC		0.2	1.0	7.9	6	<0.1	0.5	0.3	29	0.41	5.4	6.3	5.9	4	<0.1	0.8	3.1	<2	<0.01	0.006
Core Reject Duplicates																					
G111	Rock	0.25	1.9	47.2	5.1	12	<0.1	5.9	0.9	61	3.15	31.5	4.7	0.6	4	0.3	1.6	0.1	29	<0.01	0.110
DUP G111	QC		1.9	44.6	5.3	13	<0.1	3.9	0.5	62	3.10	32.1	4.0	0.7	4	0.3	1.6	0.1	28	<0.01	0.106
G159	Rock	0.19	1.3	31.1	2302	38	12.9	1.6	0.5	94	1.66	42.2	10.0	1.4	6	0.1	8.4	0.5	3	0.08	0.022
DUP G159	QC		1.2	33.1	2364	40	13.0	3.7	1.0	108	1.77	42.4	9.4	1.4	6	<0.1	8.7	0.4	3	0.05	0.022
Y170	Rock	0.52	12.9	61.3	47.5	225	3.1	32.3	3.0	75	3.44	10.6	2.0	4.1	20	<0.1	2.7	1.3	50	0.02	0.147
DUP Y170	QC		12.5	59.9	46.4	219	3.0	31.7	3.0	64	3.30	10.1	2.2	4.1	19	0.1	2.6	1.2	54	0.02	0.148
Y221	Rock	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.	L.N.R.
DUP Y221	QC	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.	L.N.R.
Reference Materials																					
STD DS8	Standard		12.6	116.9	133.8	325	1.9	40.6	8.1	621	2.50	27.6	119.5	6.5	61	2.2	5.7	6.8	44	0.70	0.077
STD DS8	Standard		13.9	117.9	140.0	324	1.9	41.2	8.1	639	2.54	27.8	121.2	6.8	63	2.3	5.5	7.1	44	0.71	0.081
STD DS8	Standard		13.6	104.7	121.8	295	1.7	36.5	7.1	578	2.32	24.4	110.7	6.6	65	2.2	5.5	6.6	38	0.70	0.073
STD DS8	Standard		13.3	104.0	122.6	294	1.7	35.7	7.0	554	2.28	24.7	102.8	6.7	66	2.4	5.5	6.5	36	0.68	0.072
STD DS8	Standard		11.6	103.2	123.2	287	1.7	34.5	6.9	571	2.32	24.9	98.8	6.3	61	2.2	5.4	6.3	37	0.67	0.070
STD DS8	Standard		13.3	107.5	128.1	302	1.6	38.0	7.6	600	2.41	24.6	103.7	7.1	68	2.0	5.6	6.7	39	0.71	0.069
STD DS8	Standard		12.1	106.3	117.7	310	1.9	36.2	7.4	588	2.44	26.3	116.8	6.5	62	2.3	5.7	6.9	40	0.70	0.077
STD DS8	Standard		13.6	113.4	124.8	326	1.9	39.5	7.9	633	2.56	26.7	112.0	6.9	68	2.2	6.0	6.9	41	0.76	0.079
STD DS8 Expected			13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
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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QUALITY CONTROL REPORT

WHI11000739.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		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
Pulp Duplicates																		
G138	Rock	22	2	0.01	92	0.001	1	0.37	0.001	0.11	0.7	0.02	1.5	0.1	<0.05	1	<0.5	<0.2
REP G138	QC	22	2	0.01	92	0.001	2	0.35	0.001	0.10	0.7	0.02	1.4	0.1	<0.05	1	<0.5	<0.2
G178	Rock	7	15	0.01	23	0.002	<1	0.15	0.001	0.03	0.1	0.19	0.5	0.3	<0.05	1	<0.5	<0.2
REP G178	QC	9	16	0.01	28	0.002	<1	0.18	<0.001	0.03	0.1	0.20	0.5	0.3	<0.05	2	<0.5	<0.2
Y222	Rock	14	12	0.06	145	0.015	<1	0.43	0.003	0.14	<0.1	<0.01	1.7	<0.1	<0.05	1	0.7	<0.2
REP Y222	QC	14	12	0.06	155	0.015	<1	0.44	0.003	0.14	<0.1	<0.01	1.7	<0.1	<0.05	2	0.6	<0.2
G170	Rock	6	2	<0.01	22	<0.001	<1	0.31	0.002	0.11	<0.1	<0.01	0.8	0.1	<0.05	<1	<0.5	<0.2
REP G170	QC	7	2	<0.01	23	<0.001	1	0.33	0.002	0.11	<0.1	0.01	0.9	<0.1	<0.05	<1	<0.5	<0.2
Core Reject Duplicates																		
G111	Rock	4	17	<0.01	53	0.002	1	0.19	<0.001	0.03	<0.1	0.10	2.5	<0.1	<0.05	<1	1.6	<0.2
DUP G111	QC	4	15	<0.01	53	0.001	<1	0.21	<0.001	0.03	0.1	0.08	2.3	<0.1	<0.05	<1	1.6	<0.2
G159	Rock	5	13	<0.01	549	<0.001	4	0.16	0.003	0.17	0.2	0.06	0.3	0.4	0.24	1	1.2	0.6
DUP G159	QC	5	14	<0.01	528	<0.001	2	0.13	0.003	0.15	0.1	0.05	0.2	0.4	0.25	1	1.3	0.6
Y170	Rock	15	17	0.12	120	0.001	1	0.42	0.002	0.14	0.2	<0.01	2.2	<0.1	0.05	2	4.1	0.3
DUP Y170	QC	15	18	0.11	117	0.001	2	0.43	0.002	0.15	0.2	<0.01	2.2	<0.1	0.06	2	3.5	<0.2
Y221	Rock	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.
DUP Y221	QC	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.
Reference Materials																		
STD DS8	Standard	12	119	0.61	263	0.110	2	0.92	0.088	0.41	3.1	0.22	1.7	5.5	0.17	4	4.9	4.8
STD DS8	Standard	14	126	0.62	278	0.114	2	0.92	0.090	0.44	3.1	0.20	1.9	5.7	0.18	5	5.9	4.8
STD DS8	Standard	14	112	0.59	259	0.117	3	0.86	0.080	0.38	2.9	0.19	2.0	5.4	0.16	4	5.2	5.1
STD DS8	Standard	14	109	0.59	259	0.114	3	0.85	0.080	0.38	2.8	0.18	2.1	5.1	0.15	4	5.1	4.7
STD DS8	Standard	13	110	0.56	254	0.111	3	0.83	0.078	0.36	2.9	0.19	1.8	5.0	0.15	4	5.8	4.5
STD DS8	Standard	15	118	0.59	268	0.125	2	0.89	0.084	0.39	3.1	0.21	2.0	5.4	0.16	5	5.2	5.0
STD DS8	Standard	14	114	0.59	272	0.107	4	0.87	0.080	0.40	3.0	0.22	1.8	5.5	0.16	5	4.8	5.0
STD DS8	Standard	16	121	0.63	288	0.122	3	0.94	0.089	0.42	3.2	0.20	2.0	5.7	0.17	5	5.0	5.3
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
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



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QUALITY CONTROL REPORT

WHI11000739.1

		WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		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		<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
Prep Wash																					
G1	Prep Blank		0.1	1.7	2.7	46	<0.1	3.9	4.3	543	1.88	<0.5	1.5	4.8	62	<0.1	<0.1	<0.1	33	0.47	0.070
G1	Prep Blank		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.



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		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		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
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
Prep Wash																		
G1	Prep Blank	9	8	0.57	204	0.115	1	0.96	0.083	0.45	<0.1	<0.01	1.9	0.2	<0.05	5	<0.5	<0.2
G1	Prep Blank	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.

