ASSESSMENT REPORT

on the

MOFFAT PROPERTY

MTO Events # 5002727, 5161275, + 5164233

CARIBOO MINING DIVISION,
British Columbia
Latitude 52°06' N, Longitude 121°12' W

Prepared for Operator:

FJORDLAND EXPLORATION INC.
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12 January, 2012
Vancouver, B.C.

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1. SUMMARY

This report covers MTO Event Numbers 5002727, 5161275, and 5164223 dated 6 September 2011, 3 January 2012, and 11 January 2012 respectively.

From 1 June to 30 November 2011 several programs, consisting of soil geochemistry, IP geophysical surveys, and diamond drilling were completed on the Moffat property. The total cost of the surveys was $526,706.[22].

The Moffat Property is located south of Moffat Creek 4 kilometres northeast of Murphy Lake and 36 kilometres northeast of the town of Lac La Hache. At the date of this report, the Moffat Property consists of 61 mineral claims with a total area of 24,994 hectares.

The Moffat property is underlain by the Late Triassic to early Jurassic-aged Takomkane Batholith. The 2010 surveys were located near the Harrison Creek MINFILE showing, discovered by P. Schiarizza (2008), consisting of a grab sample analyzed to contain 1671 ppm copper, 105 ppb gold, and 1432 ppb silver.

Visible copper mineralization has been observed in outcrop. This area coincides with an airborne magnetic anomaly that was verified on the ground as pertaining to magnetite mineralization in quartz monzonite to monzodiorite intrusive rocks.

Numerous coincident copper-molybdenum-gold in-soil anomalies were delineated by the geochemistry survey. An IP chargeability trend was detected in 6 lines over a strike length of 7 kilometres. In the south the anomaly is coincident with a copper-gold-molybdenum anomaly, whereas, the northwest IP anomaly does not correlate with any geochemistry anomaly. One kilometre to the east of the large chargeability trend another IP chargeability occurs at depth coincident with the showings discovered in 2010 and a large copper-gold-molybdenum soil geochemistry anomaly.

Diamond drilling tested four sites, three along the chargeability anomaly and one in the vicinity of gold-copper mineralization found in outcrop in 2010. All holes intersected quartz monzonite, monzonite and monzodiorite intrusives of the Takomkane batholith except for MOF-04, which intersected Nicola? volcaniclastic sediments throughout its entirety.

Several small zones of copper mineralization were encountered and one gold zone was intersected in MOF-5. Copper intersections include 0.15% Cu over 5.8 m in MOF-2, 0.21% Cu over 2.4 m in MOF-3, 0.12% Cu over 1.3 m in MOF-5. Notable gold mineralization was encountered in MOF-5 including a 9.9 m zone of 3.5 g/t Au including 3.75 m of 7.0 g/t Au.

More detailed IP is recommended in the east to further delineate an eastern chargeability zone detected by the 2011 program. Additional drilling should be completed to adequately test the large chargeability anomaly outlined by the current surveys. The cost of the next phase of exploration is estimated to be $300,000.

2.0 PROPERTY LOCATION, SIZE, ACCESS AND PHYSIOGRAPHY

The Moffat Property is located south of Moffat Creek 4 kilometres northeast of Murphy Lake and 36 kilometres northeast of the town of Lac La Hache (Figure 1). The Property is located in the Cariboo Mining Division of central British Columbia, on TRIM map sheets 093A004, 093A05, 093A014, and 093A015 at geographic coordinates; latitude 52°06' N, longitude 121°12' W as shown on Figure 2.

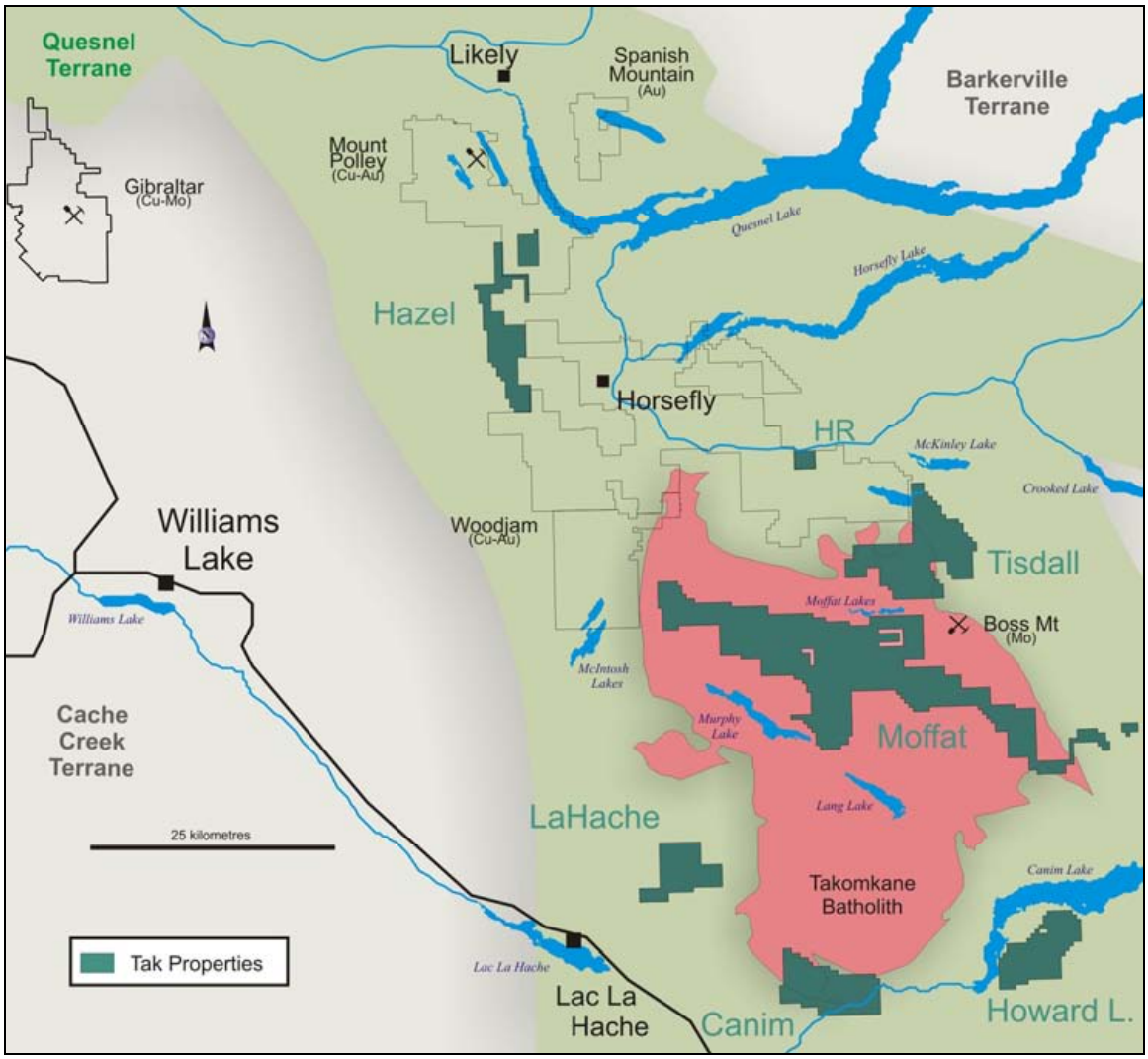

Figure 1: Location

At the date of this report, the Moffat Property consists of 61 mineral claims with a total area of 24,994 hectares. Claim information, as taken from Mineral Titles Online (3 January 2012), is listed in Table 1.

Tenure	Issued	Good To	Claim Name	Area (ha)	Tenure	Issued	Good To	Claim Name	Area (ha)
604565	2009-05-15	2014-01-10	TAK 1	496.7	672044	2009-11-20	2014-01-10		496.6
606645	2009-06-26	2014-01-10	T1	476.2	672045	2009-11-20	2014-01-10		496.8
606646	2009-06-26	2014-01-10	T2	396.9	672063	2009-11-20	2014-01-10		158.8
616265	2009-08-08	2014-01-10	T5	496.5	676463	2009-11-30	2014-01-10		199.0
616268	2009-08-08	2014-01-10	WS11	496.4	685448	2009-12-15	2014-01-10		497.4
616272	2009-08-08	2014-01-10	T12	496.1	686145	2009-12-16	2014-01-10		496.3
616274	2009-08-08	2014-01-10	T13	476.3	686171	2009-12-16	2014-01-10		476.7
616275	2009-08-08	2014-01-10	T14	496.3	686180	2009-12-16	2014-01-10		496.6
616283	2009-08-08	2014-01-10	T15	496.1	686183	2009-12-16	2014-01-10		476.9
616303	2009-08-08	2014-01-10	T16	495.9	686204	2009-12-16	2014-01-10		476.9
616310	2009-08-08	2014-01-10	T19	99.2	704974	2010-01-29	2014-01-10		477.7
616312	2009-08-08	2014-01-10	T20	138.9	704976	2010-01-29	2014-01-10		298.4
661484	2009-10-29	2014-01-10	C1	497.2	764903	2010-05-01	2014-01-10		496.2
661488	2009-10-29	2014-01-10	C2	497.2	764963	2010-05-01	2014-01-10		476.5
661489	2009-10-29	2014-01-10	C3	497.0	764983	2010-05-01	2014-01-10		476.6
661504	2009-10-29	2014-01-10	C6	318.0	765002	2010-05-01	2014-01-10		496.5
661523	2009-10-29	2014-01-10	C7	159.1	765062	2010-05-01	2014-01-10		496.6
661524	2009-10-29	2014-01-10	C8	496.4	765082	2010-05-01	2014-01-10		457.0
661543	2009-10-29	2014-01-10	C9	496.9	765102	2010-05-01	2014-01-10		298.0
664223	2009-11-03	2014-01-10	SPOT	99.5	765122	2010-05-01	2014-01-10		496.5
664263	2009-11-03	2014-01-10	STRIPE	238.8	765142	2010-05-01	2014-01-10		436.6
664304	2009-11-03	2014-01-10	PLAID	99.5	766022	2010-05-03	2014-01-10		496.9
666023	2009-11-06	2014-01-10	B1	497.8	766042	2010-05-03	2014-01-10		497.0
666024	2009-11-06	2014-01-10	B2	497.0	766062	2010-05-03	2014-01-10		357.9
666025	2009-11-06	2014-01-10	B3	497.2	766782	2010-05-04	2014-01-10		437.2
666026	2009-11-06	2014-01-10	B4	497.3	766802	2010-05-04	2014-01-10		496.8
666027	2009-11-06	2014-01-10	B5	398.0	766822	2010-05-04	2014-01-10		238.5
666028	2009-11-06	2014-01-10	B6	238.7	831531	2010-08-15	2014-01-10		496.4
672003	2009-11-20	2014-01-10		496.3	842324	2011-01-04	2014-01-10		79.5
672026	2009-11-20	2014-01-10		436.7	930038	2011-11-21	2014-01-10		198.6
672043	2009-11-20	2014-01-10		496.6					

Table 1: List of Claims

The tenures are part of the Tak group of properties, 51% owned by Fjordland Exploration Inc. and 49% owned by Capstone Mining Corp. Fjordland is a public company incorporated in Canada, with offices at #1100-1111 Melville Street, Vancouver, BC. Capstone is a Canadian mining company with two producing copper mines in Mexico and the Yukon with offices at 900-999 West Hastings Street, Vancouver, B.C

The property area is flat to moderately rolling with areas of extensive overburden. The property has been extensively logged and is largely vegetated by second growth fir/pine

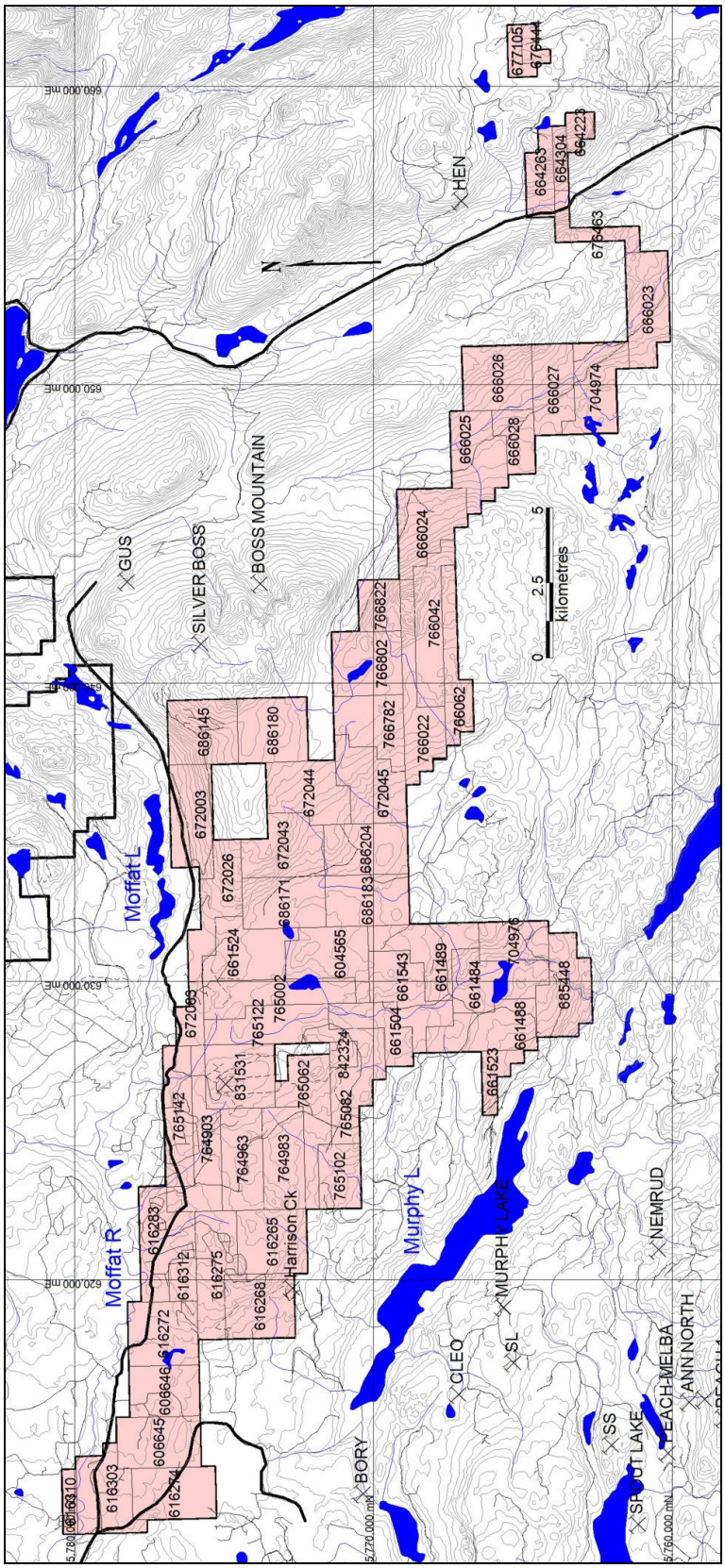

Figure 2: Claim Map

and alder forests. The entire property lies below treeline. Topography varies from low marshy areas to rolling hills with elevations ranging from 1060 metres above sea level (asl) to the west to 1500 metres asl to the east. Numerous small lakes, many beaver dammed, dot the property and streams tend to be of low gradient and do not cut to bedrock. Exposure of bedrock is severely limited. Lower areas are usually covered by extensive glacial till and alluvium. The last glacial advance appears to have been toward the northwest.

Year round access by road is gained by travelling on Forest Service Roads accessing most of the property. Nearby towns include Lac La Hache, Williams Lake and the village of Horsefly.

Climatic conditions are typical of the central interior of British Columbia. Average minimum low temperatures for January are -18°C and average maximum highs for July are +24 °C. Frost free days last on average from mid-May to mid-August. Between May and September precipitation at a low-elevation station is about 400 millimetres, almost twice that of Williams Lake 50 kilometres to the west. During April snow depths in the Quesnel Plateau (approx. 700 metres asl) are typically one to two metres.

2.0 HISTORY

ARIS assessment filings report on several historic exploration activities conducted on the Property. The following reports detail work in the western portion of the Property:

In 1971 Green Land Mining completed 38.3 line-kilometres of IP over tenure 616283 and off the Property to the north. Two strong chargeability anomalies were delineated, one within the property limits. In 1972 Green Land Mining completed a soil geochemistry survey to the south of the IP grid. No anomalies were detected.

In 1996 Guardian Enterprises Ltd conducted prospecting including 13 rock samples and 10 soil samples over the southern portion of the property near Coffee Lake. Mineralization encountered included pyrite and magnetite.

In 2006 Candorado Operating Company Ltd conducted a prospecting program to ground truth radiometric anomalies outlined by the recently released government airborne surveys.

From 2007 to 2008 Eagle Peak Resources Ltd conducted geological mapping and soil geochemistry surveys over the area covered by the Granite Mountain showing.

In 2010 a limited program of prospecting by Fjordland Exploration found 2 outcroppings located 2 kilometres apart mineralized with gold and copper.

The following reports detail work in the eastern portion of the property:

In 1993 Pioneer Metals Corp completed prospecting traverses and a soil sampling program. Follow-up programs consisted of a soil sampling program conducted in 1997 by Norian Resources Corp. and a prospecting program in 2006 by D. Ridley.

In 2008, Happy Creek Minerals Ltd collected stream sediments north of the geochemical anomaly noted above. Several moderate copper anomalies were delineated.

Only one historic exploration program was reported on the eastern stand-alone block (Moffat East). In 1997 Herb Wahl of Gibsons, BC completed a line of soil sampling across the property. The sampling was part of a larger program following the discovery of a polymetallic mineralized outcrop along a skarn-altered argillite fault zone located 1.5 km southeast of the property.

In 2005 an airborne gamma-ray spectrometric and aeromagnetic survey was flown over the property (Murphy Lake Geophysical Survey, GSC OF 5292).

In 2010 Fjordland completed programs including prospecting, soil geochemistry and 11 km of IP geophysical surveys.

4.0 GEOLOGICAL SETTING

The Moffat property is located in the Quesnel Terrane (commonly referred to as the Quesnel Trough), a large regional synclinal marine basin forming at the Triassic-aged continental margin. The sedimentary basin was covered in Late Triassic-aged arc-related volcanism and related coeval intrusives and later intruded by early Jurassic-aged plutons confined primarily to the axis of the synclinal basin. The Quesnel Trough was active in the Miocene to Pliocene with extensional faulting and magmatism resulting in basaltic flows and related sediments of the Chilcotin Group unconformably overlying older rocks in the area.

Measuring approximately 40-50 kilometres wide and extending 1,500 kilometres from the U.S. border in the south to the Stikine River in the north, the belt hosts several large tonnage copper-gold “porphyry type” deposits including New Gold’s Afton, Imperial Metals’ Mount Polley Mine, Taseko’s Gibraltar Mine, Terrane Metals’ Mt. Milligan deposit, and Northgate’s Kemess Mine.

The Quesnel Trough assemblage is made up of rocks of the Nicola (south), Takla (central) and Stuhini (north) Groups consisting of a series of volcanic islands characterized by generally alkalic to sub-alkalic basalts and andesites, related sub-volcanic intrusive rocks, and derived clastic and pyroclastic sedimentary rocks.

Late Triassic to early Jurassic volcanic centres with high-level alkalic cores of syenite to monzonite composition hosts the porphyry copper-gold deposits along with several gold-rich skarn deposits. They are generally gold-copper deposits consisting of chalcopyrite-pyrite and minor bornite sulphide mineralization. Commonly associated with the plutons is a late fumarolic or hydrothermal stage when large volumes of volcanic rocks were extensively altered to albite, K-feldspar, biotite, chlorite, epidote and various sulphides. The late metasomatic period involves introduction of volatiles and various metals in the vent areas and is a typical and important feature of the final stages of the volcanic cycle.

The Takomkane Batholith (193 ma) is a large predominantly calc-alkalic intrusive with a surface expression of approximately 40 by 50 kilometres. It comprises one of a series of at least six large coeval bodies including the Guichon Batholith (hosting the Highland Valley deposits) and Granite Mountain Batholith (hosting the Gibraltar deposit).

4.1 Property Geology

Most of the Moffat property is underlain by the Late Triassic to early Jurassic-aged Takomkane Batholith. The batholith has been reported as a medium grained granodiorite to quartz diorite containing occasional mafic phases in the Coffee Lake area (McCrossan, 1996). At the neighbouring Woodjam property the batholith has been described as a medium to coarse-grained plagioclase-hornblende quartz monzonite (Laird, B, 2009).

The eastern extent of the property extends off the Takomkane Batholith onto mid to upper Triassic-aged Nicola Group rocks comprised of augite andesite-basaltic flows, breccias and agglomerate, tuff, argillite, phyllite, greywacke and black to grey limestone. The Takomkane intrusives and the Nicola Group rocks are apparently fault contacted with younger Jurassic rocks (Campbell, T, 1971) comprising similar looking rocks

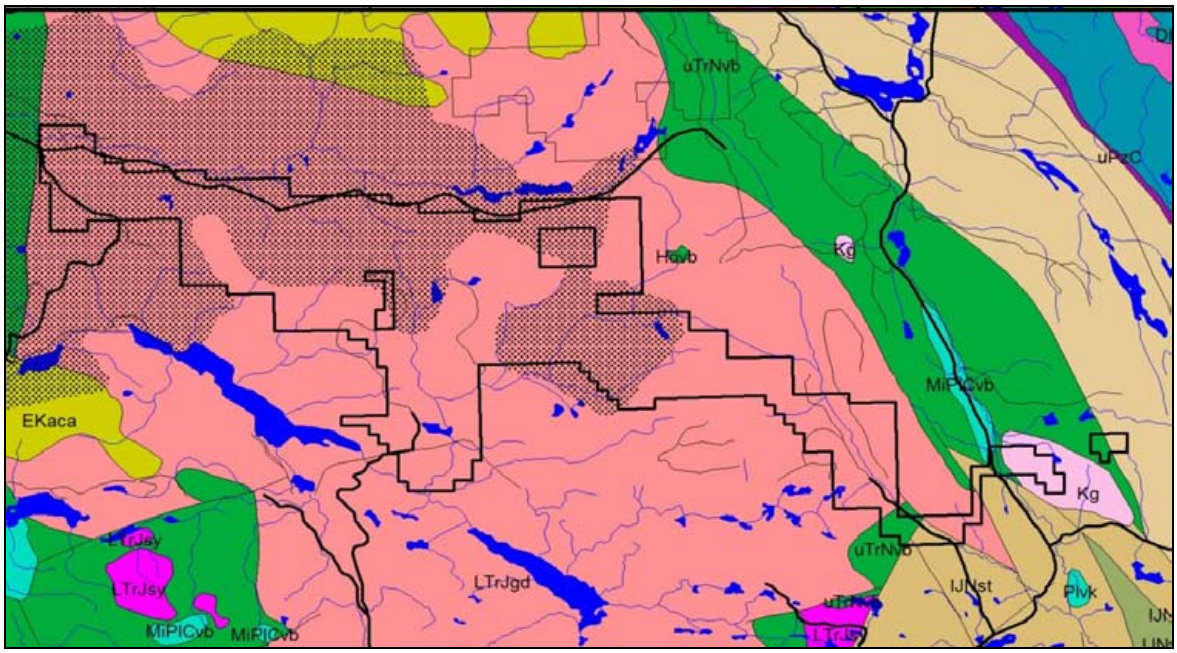

Figure 3: Moffat Property Geology (B.C. Ministry of Energy and Mines (Massey et al, 2003)

containing more sedimentary material. The easternmost portion of the property is intruded by Cretaceous aged intrusives.

4.2 Mineralization

The Harrison Creek MINFILE showing, located in the western portion of the property and discovered by P. Schiarizza (2008), consists of a grab sample analyzed to contain 1671 ppm copper, 105 ppb gold, and 1432 ppb silver. The author was unable to find mineralization at the location of the showing during the property visit. The 2010 program focused mainly on the area to the north of the showing.

During the 2010 property examination 5 grab samples, chipped from 2 magnetic hornblende quartz monzodiorite outcropping, graded 0.29 g/t Au and 0.36% Cu, 0.05% Cu and 0.01 g/t Au, 0.20% Cu and 0.01 g/t Au, 0.29% Cu and 0.01 g/t Au, and 0.09% Cu and 0.01 g/t Au. Mineralization consisted mainly of chalcopyrite.

Mineralization at the Granite Mt MINFILE showing consists of minor amounts of chalcopyrite and malachite that occur in and marginal to thin quartz veins within a number of narrow shear zones (Bailey, 2007).

No other MINFILE occurrences are located on the Property. A 200x250 m copper-in-soils anomaly surrounded by pyrite-chalcopyrite bearing potassic altered diorite float was reported in the south-eastern portion of the property (Ridley, D.W., 1997).

5.0 2011 EXPLORATION PROGRAM

In June 2011 programs consisting of soil geochemistry and IP geophysical surveys were completed on the western portion of the Moffat property. A second program of IP was completed in September 2011. Diamond drilling was completed on the property in November 2011.

Exploration was focused on the western portion of the property in the area of Fjordland's 2010 exploration program (Figure 4).

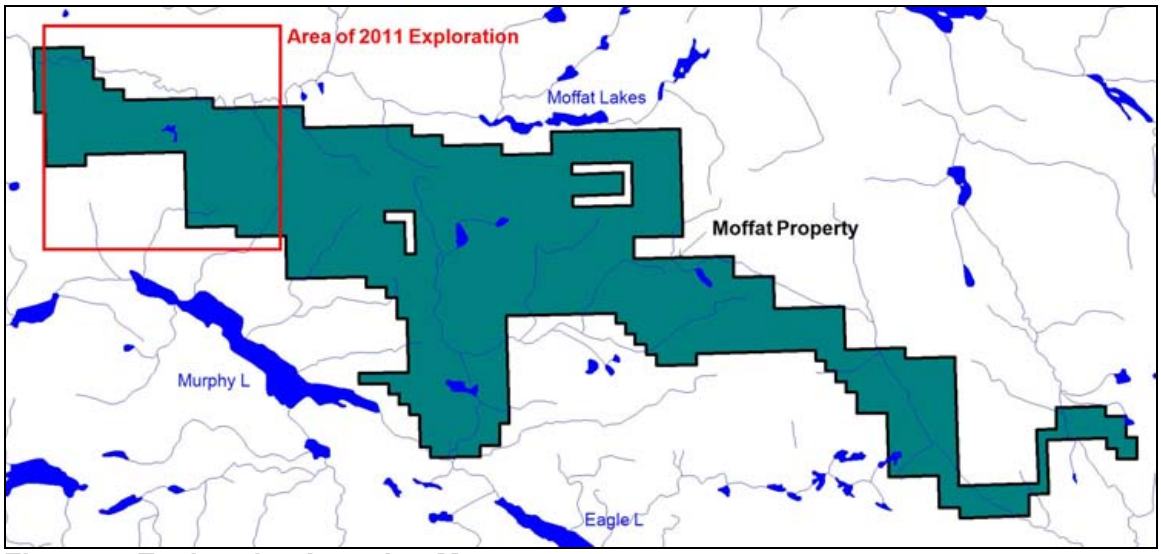

Figure 4: Exploration Location Map

5.1 Soil Geochemistry

From June 26 to 30, 2011 a program of soil sampling was completed on the Moffat Property by Mincord Exploration Consultants of Vancouver, BC. A total of 241 samples were collected at 100 metre intervals along 10 lines set at 400 m intervals (Figure 9). Sample points were determined in the field using a Garmin 62csx GPS. All samples were taken from the enriched "B" horizon approximately 30 centimetres below surface. Soil samples were taken using augers and placed into Kraft paper bags with sample grid locations marked on using a felt pen. Sample locations are displayed on Figure 5.

No sample preparation was conducted by an employee, officer, director or associate of Fjordland prior to delivery to the laboratory for analyses. Samples were shipped to the a sample preparation facility of Acme Laboratories in Smithers, BC and analyzed by Acme

5,773,000 mN

5,774,000 mN

5,775,000 mN

5,776,000 mN

617,000 mE

618,000 mE

619,000 mE

620,000 mE

0 500 1,000 metres

2011 Soil Sample (ID)

2010 Soil Sample

N

FIGURE 5:
2011 SOIL GEOCHEMISTRY
SAMPLE LOCATION MAP

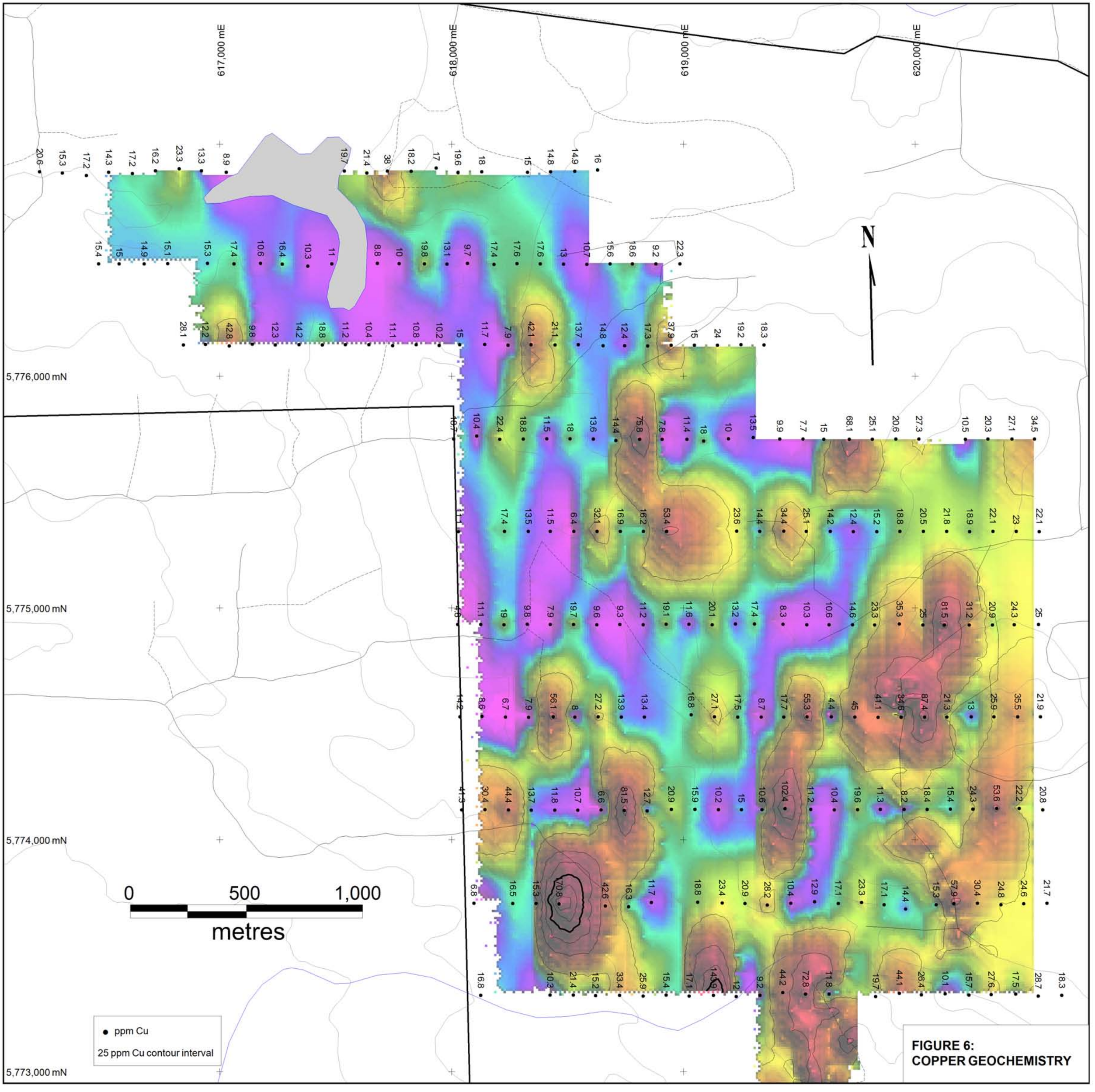

FIGURE 6:
COPPER GEOCHEMISTRY

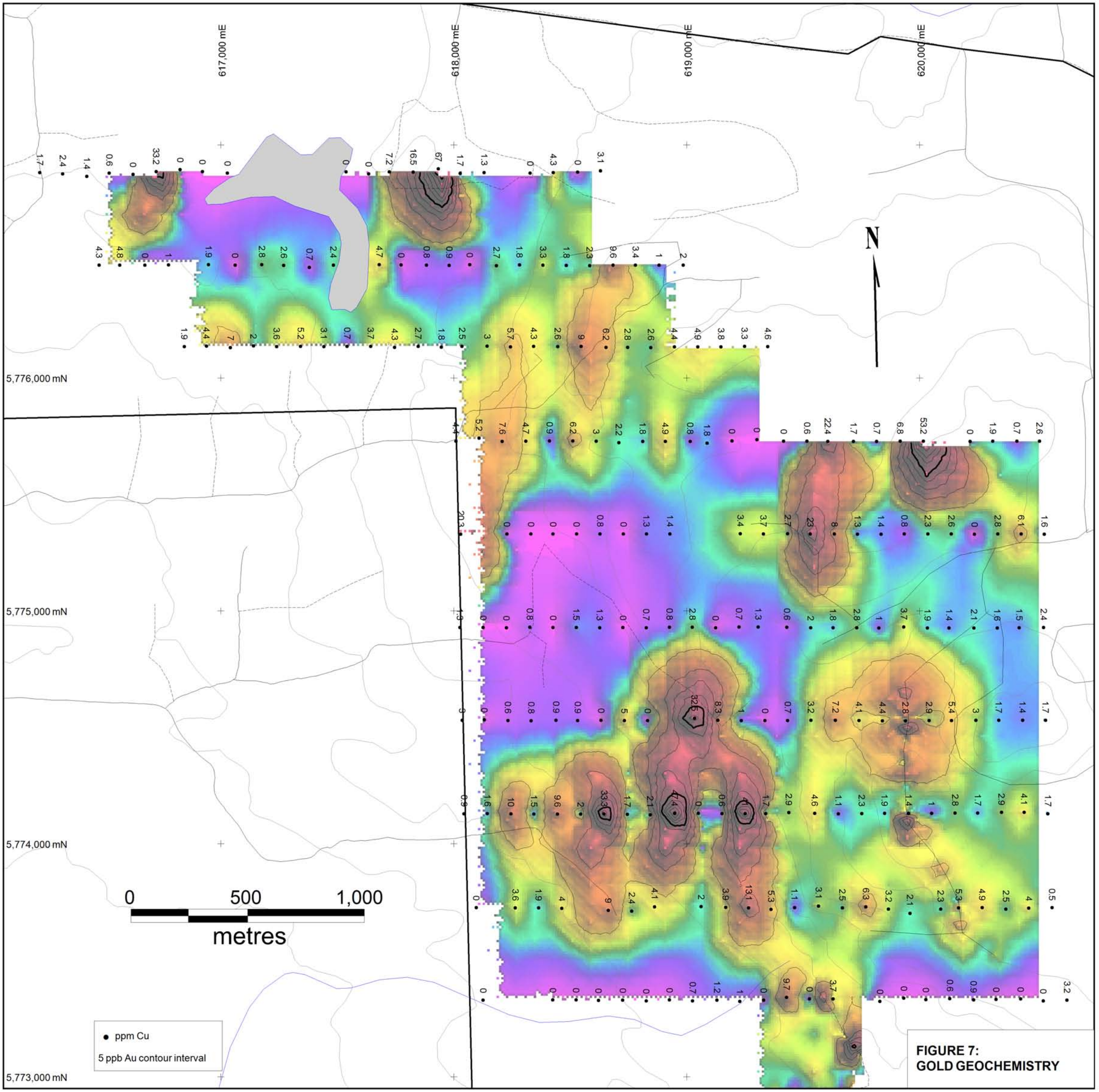

FIGURE 7:
GOLD GEOCHEMISTRY

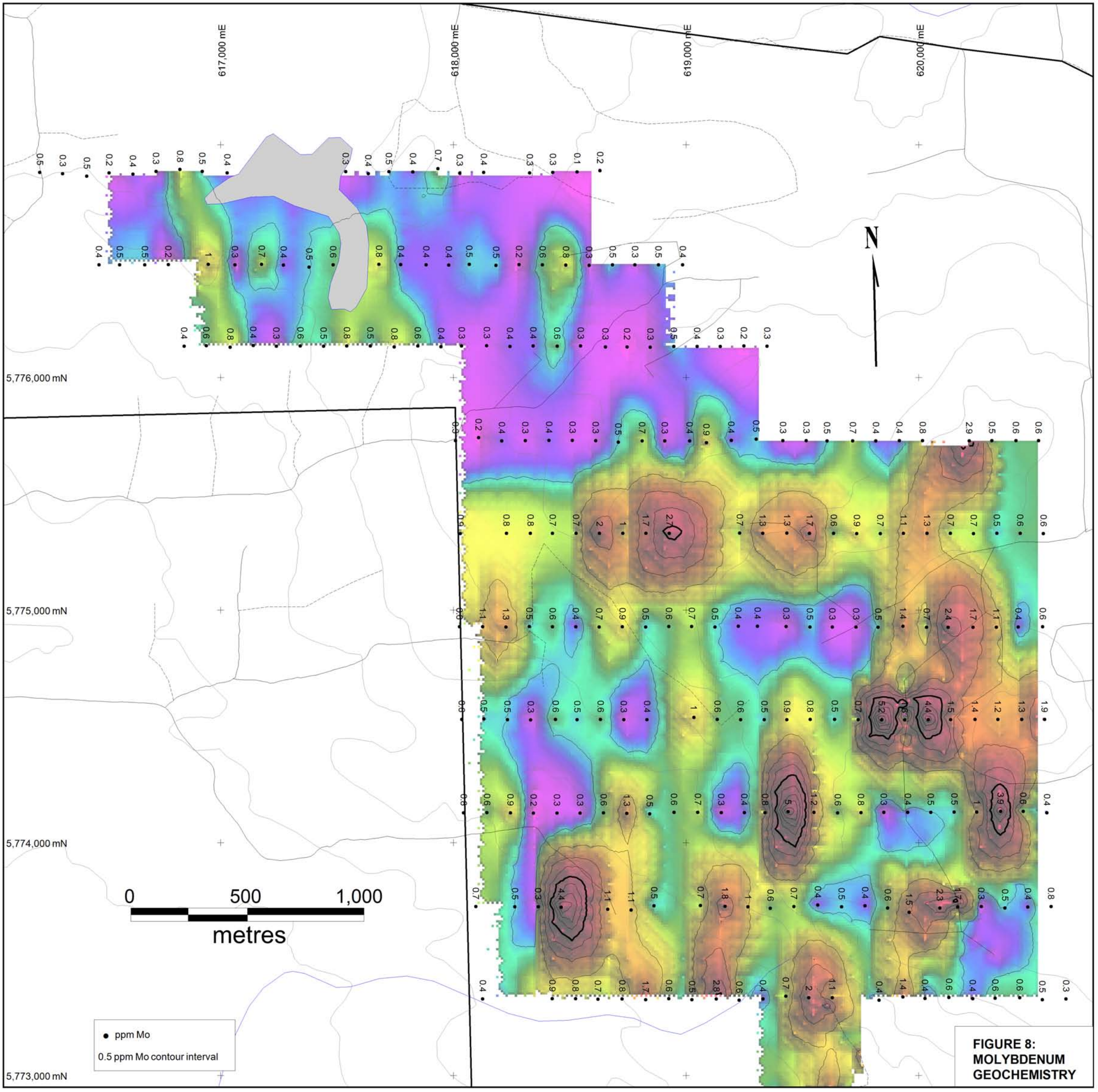

FIGURE 8: MOLYBDENUM GEOCHEMISTRY

in their Vancouver facilities.

Samples were analyzed for a 36-element suite of elements. Sample analytical and preparation methods are described in Appendix D. Analytical certificates are located in Appendix C.

Results for copper, gold and molybdenum were graphically plotted and presented on Figures 6-8. Copper-in-soil values ranged from trace to 160 ppm Cu, molybdenum ranged from trace to 5 ppm Mo, and gold ranged from trace to 55 ppb Au. All strongly anomalous values occur in the southern portion of the sampling grid, where overburden thicknesses are less.

A small copper-molybdenum-gold anomaly was delineated in the area of the Harrison Ck Minfile showing at the south-central portion of the grid area. A strong copper-molybdenum anomaly flanks a copper-gold anomaly at the southwestern portion of the grid coincident with an IP chargeability anomaly. A linear copper-gold-molybdenum anomaly is located between the aforementioned anomalies. Three large, strong copper-molybdenum with weaker gold anomalies occur in the area of prospecting where mineralized outcrop was found in 2010. Additional copper-gold-molybdenum anomalies occur north of this area.

Three small copper-gold anomalies occur in the northwest portion of the grid where heavier overburden of unknown thicknesses occur.

5.2 Induced Polarization Geophysics

In 2010 6 lines (10 line-km) of Induced Polarization (IP) were completed in the western portion of the Moffat Property, testing the edge of a magnetics anomaly from the 2005 GSC Murphy Lake airborne survey. A chargeability anomaly was delineated on the western portion of 3 lines west of the location of previous prospecting where copper mineralization was found in outcrop.

Two IP surveys were completed on the property from June 1 - 8 and September 14 - 18, 2011. A total of 18.8 km of IP was completed along 8 lines. The IP consisted of infill lines from the 2010 survey and extending northward to encompass additional magnetic anomalies.

The IP surveys were contracted to Scott Geophysics Ltd of Vancouver, BC. Descriptions of survey procedures and instrumentation as well as results for chargeability and resistivity are presented in Appendix A. Line locations are presented on Figure 9.

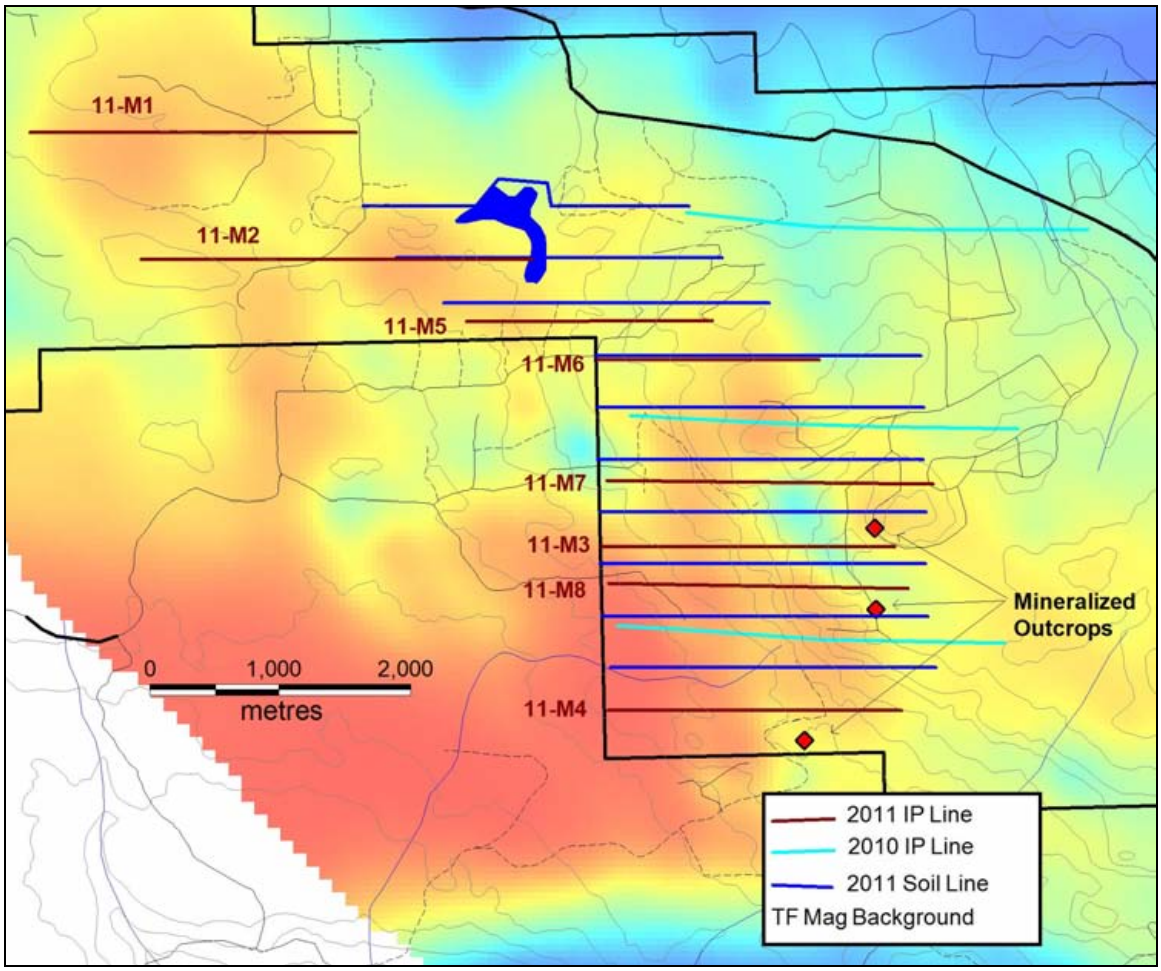

Figure 9: Geochemical and Geophysical Location Map

Results from the survey were incorporated into a database with the results from the 2010 IP lines. Data from the combined IP surveys were inverted and results from chargeability and resistivity at 40, 100, and 200 m depth slices are presented as plan maps on Figures 10 - 11.

A moderate intensity north-westerly trending chargeability anomaly was delineated 2 kilometres west of copper and gold mineralization discovered on surface. The chargeability increases in size and intensity with depth and is currently delineated over a strike length of approximately 7 kilometres at depth. An additional anomaly is beginning to resolve at depth to the east of the northern extent of the trend.

Resistivity appears to form a circular pattern on the 40 and 100 m inverted sections, possibly indicative of an intrusive phase. At the 200 m depth section the resistivity is apparently resolving several northeast trending events.

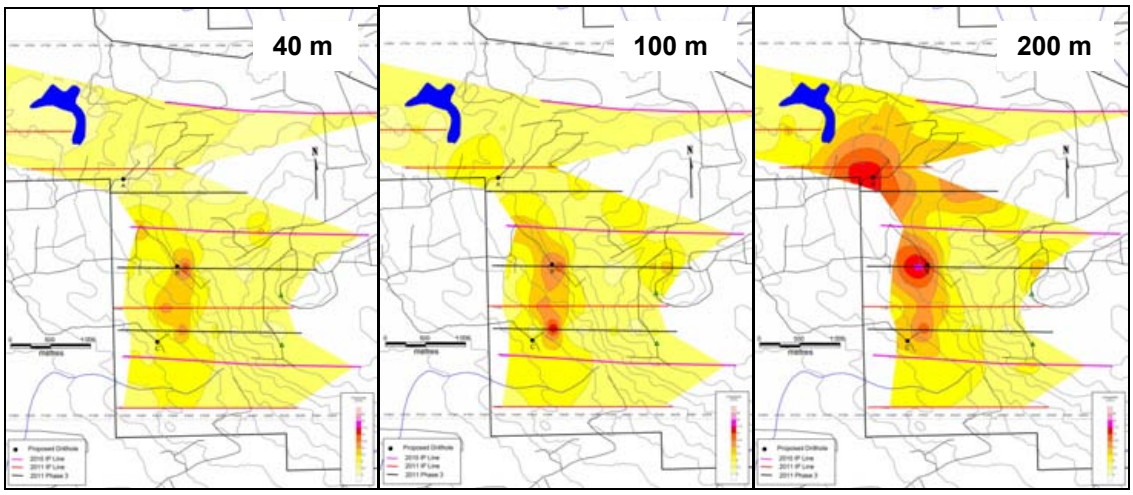

Figure 10: Inverted Chargeability Plan Section

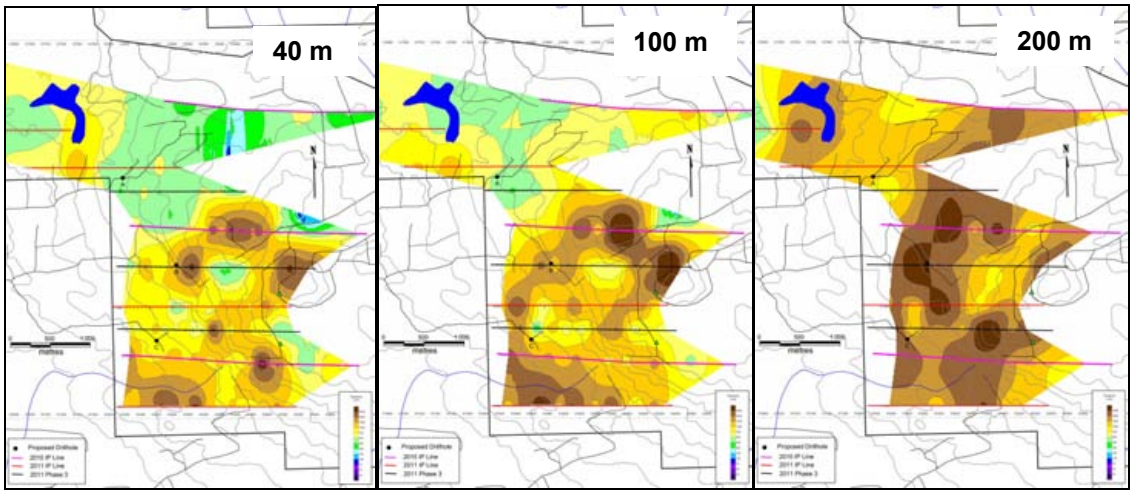

Figure 11: Inverted Resistivity Plan Section

5.3 Diamond Drilling

From 8 to 30 November 2011 a program of diamond drilling was completed on the property. Drilling was contracted to Lyncorp Drilling Services of Smithers, BC and geological logging and sampling of core was contracted to Coast Mountain Geological Ltd of Vancouver, BC. Rich Parish, PGeo of Coast Mountain Geological Ltd supervised the drill project.

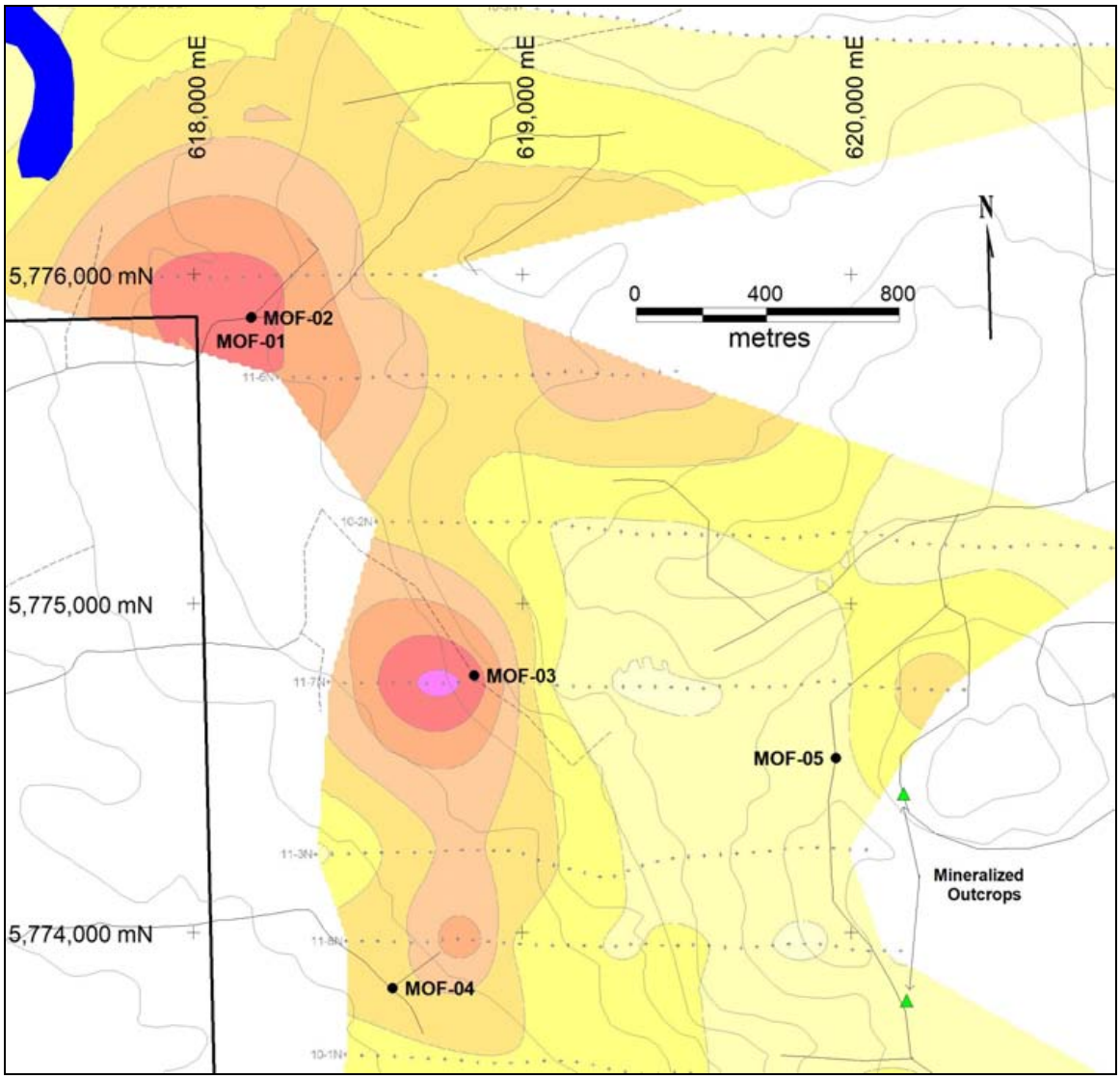

Figure 12: Drillhole Location Map (IP Chargeability Background)

Handling of core prior to sampling consisted of representatives of Lyncorp Drilling moving the core from the drill sites at the end of shift to a camp setting located on the property north off the main forestry service road along Moffat River. The core was then logged, split, and stored on premises. All core handling was done by or under the supervision of Rich Parish or representatives of Coast Mountain Geological. Care was taken to eliminate sampling biases that could impact the analytical results. All jewelry was removed prior to handling core, rocks or soils and the work area was kept clean during splitting and sampling.

A total of 255 intervals from the 977 metres of core obtained were split into halves using a conventional manual core splitter or rock saw, one half placed into plastic sample bags and closed using plastic strap closures. The remaining drill core half was left in labeled core boxes at the core logging facility. Samples were selected at approximately 2 to 3 metre downhole (dh) intervals or less depending on geology and mineralization.

No sample preparation was conducted by an employee, officer, director or associate of Fjordland prior to delivery to the laboratory for analyses. Samples were shipped to and analyzed by Acme in their Vancouver facilities.

Samples were analyzed for a 36-element suite of elements. Sample analytical and preparation methods are described in Appendix D. Analytical certificates are located in Appendix C.

A total of 5 holes were completed totaling 1134.7 metres. Hole locations are shown on a plan map on Figure 12. Drill logs are located in Appendix B. Collar locations are presented on Table 2.

Hole-ID	Easting	Northing	Az	Dip	Depth	Elevation
MOF-01	618175	5775870	0	-90	42.6	1182
MOF-02	618174	5775868	0	-90	262.7	1182
MOF-03	618853	5774782	0	-90	276.45	1190
MOF-04	618606	5773832	45	-50	273.41	1112
MOF-05	619953	5774530	0	-90	279.5	1295

Table 2: Drill Collar Locations

Copper or gold mineralization was encountered in all holes drilled. Notable intersections are listed in Table 3. Cross sections of the drillholes are illustrated on Figures 13 to 16.

Hole	From	To	Interval	Cu (ppm)	Au (ppb)	Mo (ppm)
MOF-2	184.85	190.70	5.85	1500	184	3
MOF-3	138.15	140.55	2.40	2149	908	118
MOF-5	65.2	66.5	1.30	1205	48	21
and	252	261.9	9.90	57	3518	13

Table 3: Notable Drill Grade Averages

Holes MOF-01 to 04 targeted the large chargeability anomaly delineated by the IP survey. MOF-05 was drilled near a mineralized outcrop discovered in 2010. The following descriptions of the holes was completed by Rich Parish, PGeo of Coast Mountain Exploration Ltd.

Hole MOF-01 was lost in overburden at 42.6m and was redrilled as MOF-2 at the same setup. MOF-02 drilled medium to coarse grained, equigranular monzodiorite with euhedral plag xls to 4mm > euhedral to subhedral K feldspar xls to 4mm > lath-like to stubby hornblende phenos to 6mm > gray, anhedral qtz > anhedral magnetite grains to 2mm. Trace to 1% euhedral to subhedral, white-pink elongated diamond shaped sphene (?) phenos to 1mm common throughout.

The hole has generally weak to locally moderate propylitic alteration consisting of weak to moderate replacement of mafic minerals by chlorite+/-epidote+/-actinolite. Narrow to moderately wide vein envelope propylitic alteration consisting of epidote+/-actinolite+calcite+/-qtz+py veinlets surrounded by chlorite+/-epidote+/-K feldspar+/-pyrite alteration envelopes. Locally abundant, sub parallel chlorite veinlets.

The strongest alteration and mineralization occurs from 172.25 to 176.25m and from 184.85m to 190.7m. From 172.25 to 190.7 m the hole averaged 475 ppm Cu, 58 ppb Au and 1 ppm Mo including the interval noted in Table 3.

The interval from 172.25 to 176.25m consists of magmatic breccia consisting of dark gray, rounded, fine-grained equigranular intrusive clasts in typical coarse-grained monzodiorite matrix. Clasts have weak to locally moderate potassic alteration (bio+mt) and veinlet and disseminated pyrite. The interval is cut by numerous qtz+/- cpy vns and epi+qtz+/-cpy veins with broad potassic alteration halos (bio+mt+ksp). 1% disseminated and veinlet pyrite and <0.25% vn hosted and diss cpy.

The interval from 184.85 to 190.7m has strong potassic alteration consisting of almost complete replacement of k- feldspar xls by pink secondary k-feldspar . Abundant black, anastamosing, wispy bio+mt+silica veinlets, often coalescing to form alteration breccia texture. Locally strong silicification. Dark gray quartz veins. 1% disseminated and veinlet pyrite and <0.5% disseminated and veinlet cpy.

The upper portion of MOF-03, to 68.85m is medium grained, equigranular, monzonite to quartz monzonite with weak, pervasive and vein-related propylitic alteration. Local porphyritic textures with coarser feldspar phenocrysts. Alteration consists of partial replacement of hornblende and biotite by chlorite+/-epidote and weak, narrow epidote+chlorite vein envelopes. Albite+hematite alteration envelopes with sharp margins locally common, especially below 110m.

Below 68.5m, rock is dominantly medium to coarse-grained, equigranular to rarely porphyritic monzodiorite. The rock usually has fresh, glassy feldspar xls, though mafic minerals are occasionally altered to chlorite+/-epidote. Local weak to moderate, vein-related chlorite+/-sericite, and k feldspar or albite+hematite alteration adjacent to calcite+pyrite and chlorite veinlets.

Mineralization is weak throughout hole, and is limited to trace disseminated chalcopyrite in fresh monzodiorite and trace amounts of chalcopyrite associated with chlorite veinlets. The rock is magnetic from primary magnetite, and contains generally low (<0.5%) pyrite. The average grade of mineralization from 68.95 to the end of the hole averages 226 ppm Cu, 30 ppb Au and 9 ppm Mo. The one notable intersection is listed in Table 3 grading over 0.2% Cu.

MOF-04 drilled a thick, uniform sequence of Nicola (?) volcaniclastic sediments and very minor intermediate feldspar and pyroxene phyric volcanic flows. The majority of the sequence is thin-bedded, dark and light gray laminated siltstone and sandstone with locally abundant lithic clasts, with bedding and strong compaction foliation at very low angles to core axis. Beds and clasts are often lensoidal in shape, indicating strong compaction or shearing, though mylonitic textures are generally lacking except for local augen-like clasts with gneissic texture and draped enclosing laminations.

A buff colored, feldspar and quartz phyric Tertiary rhyolite dike occurs from 195.5 to 210m.

Darker colored layers have weak to moderate chlorite alteration and lighter gray layers contain carbonate+/-sericite alteration. Most intervals are magnetic. Local white to pale

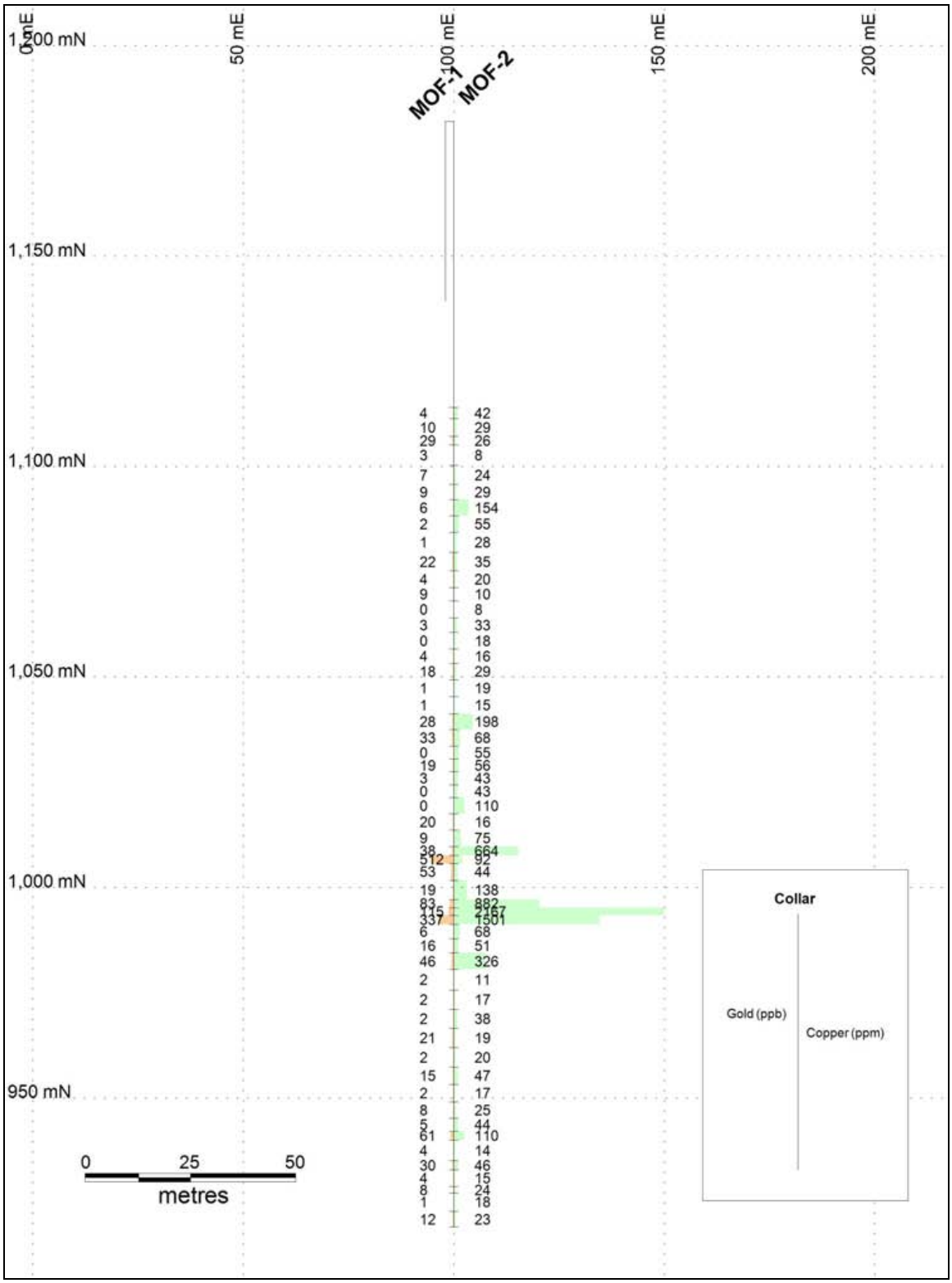

Figure 13: MOF-1+2 X-Section (Looking North)

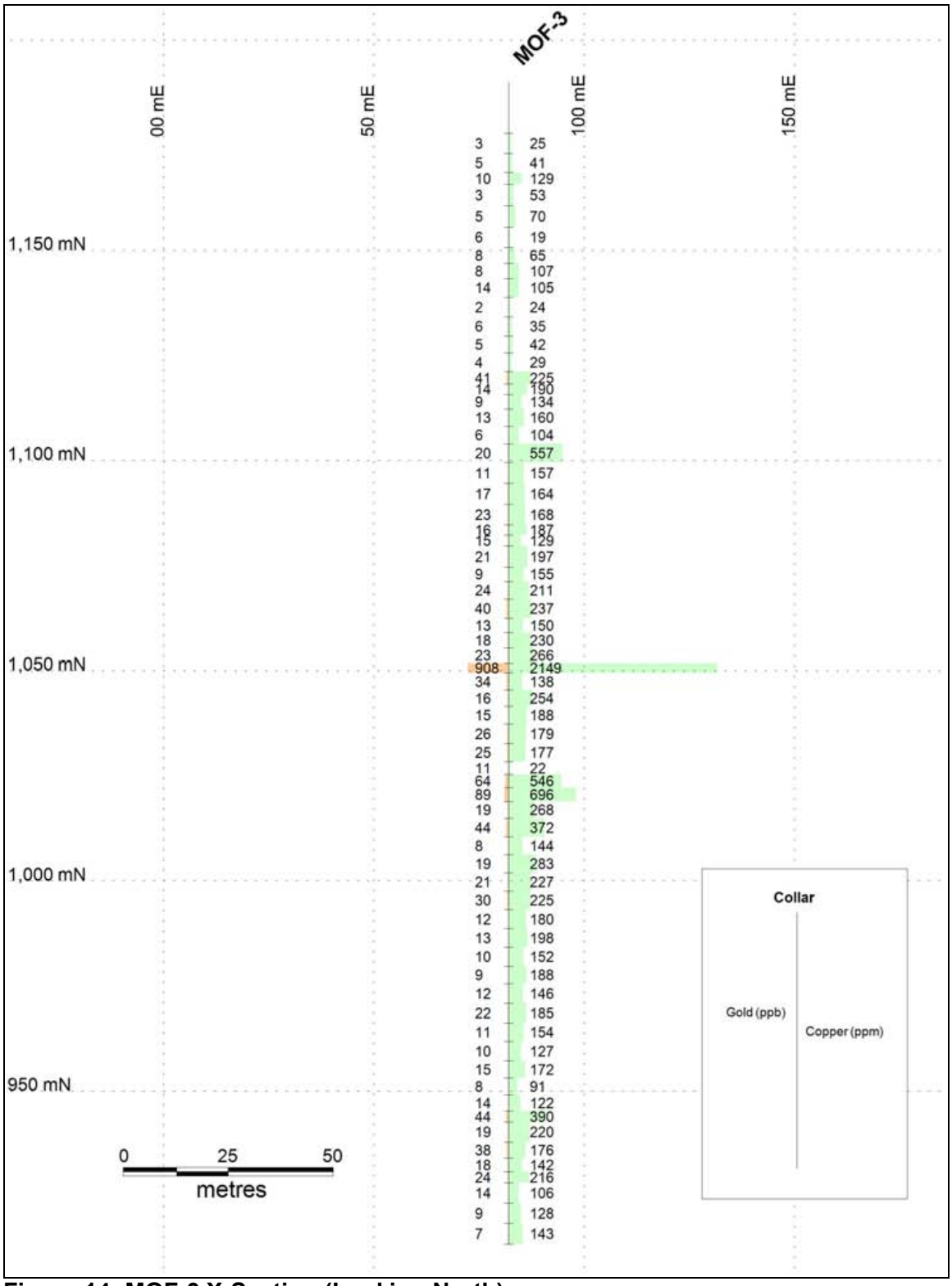

Figure 14: MOF-3 X-Section (Looking North)

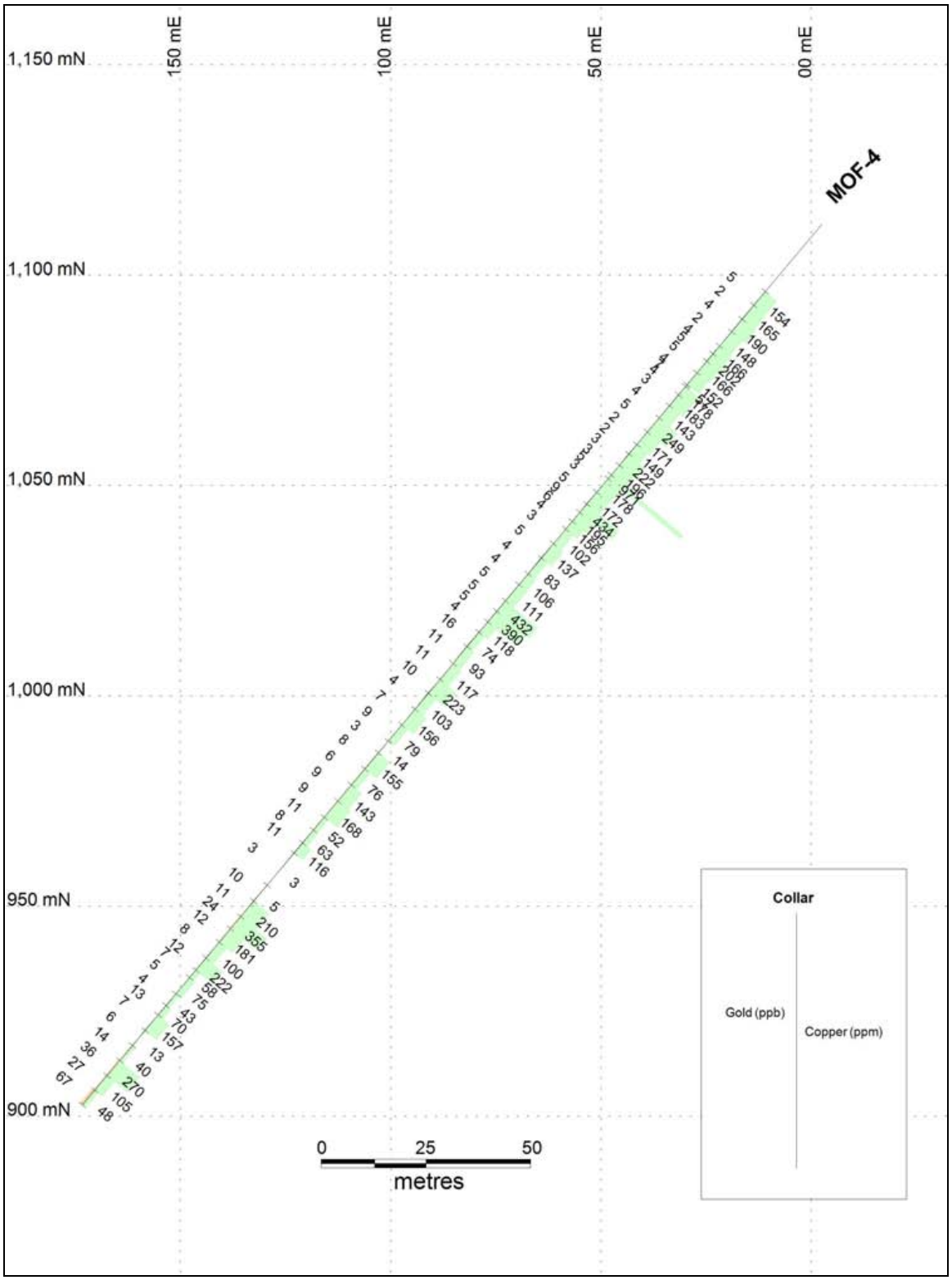

Figure 15: MOF-4 X-Section (Looking Southeast)

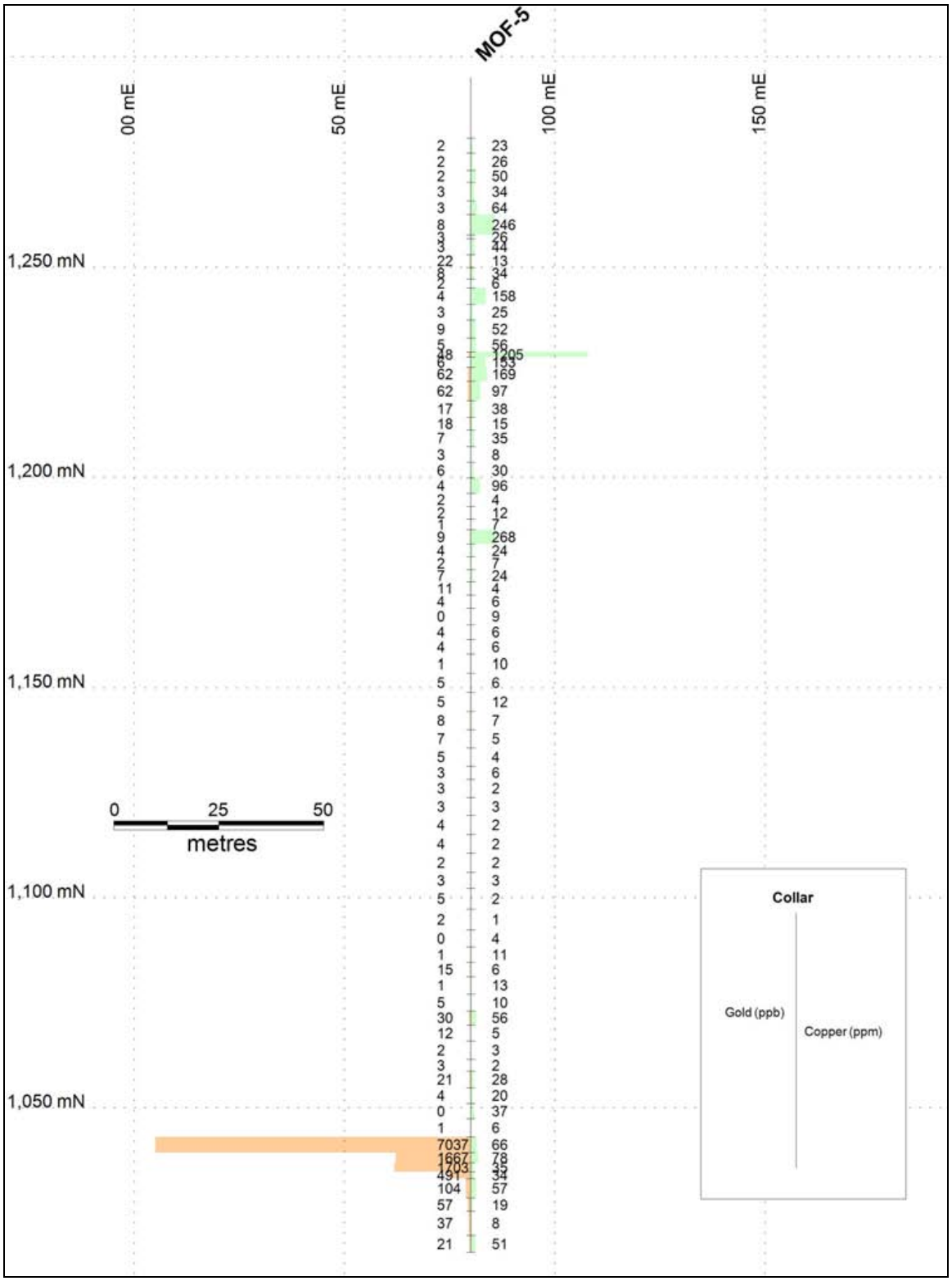

Figure 16: MOF-5 X-Section (Looking North)

pink albite alteration, often favoring coarser, lighter colored layers and clasts, especially below 210m. Veining consist of white albite+qtz veinlets, which are often contorted, and later, calcite+/-epidote+/-hematite veinlets which tend to be conformable with layering. Local chlorite veinlets.

Trace amounts of chalcopyrite occurs generally in later calcite+/-quartz+/-epidote veinlets above 136m, however the interval from 86.8 to 92.9m contains 0.2% veinlet and disseminated chalcopyrite associated with calcite+hematite veinlets. The entire hole averaged 142 ppm Cu, 9 ppb Au and 1 ppm Mo, the copper being well above normal grades encountered in the area.

MOF-05 is unmineralized except for trace veinlet hosted chalcopyrite.

The interval from 14.3 to 83m consists of 75% medium to coarse-grained equigranular monzonite with weak to locally moderate potassic and locally moderate propylitic alteration. Propylitic alteration consists of pervasive, variable chlorite+/-actinolite replacement of mafic mineral and vein halo alteration. Potassic alteration is in form of narrow to locally broad pink K feldspar +silica vein envelopes and local replacement of primary K feldspar xls. The remainder of the interval is fine-grained, non-magnetic feldspar phyric dikes. Trace chalcopyrite in calcite+/-chlorite+/- qtz veinlets, often with k-feldspar and chlorite alteration envelopes. One sample from 65.2 to 66.5 m graded 1205 ppm Cu, 48 ppb Au, and 21 ppm Mo.

From 83 to 192m is dominantly medium to coarse-grained monzonite with weak to moderate potassic alteration consisting of biotite+magnetite replacement of mafic minerals and narrow to locally broad vein and fracture related K feldspar alteration envelopes. 166 to 192m contains weak to moderate propylitic alteration in form of chlorite+actinolite veinlets and replacement of mafic minerals. Locally abundant black biotite+magnetite and chlorite veinlets, and abundant dark gray quartz veins from 91 to 107m. A medium-grained, crowded feldspar+hornblende phyric monzodiorite dike extends from 137 to 167m.

The interval from 192 to 279.5m is 60% fine-grained, non-magnetic, feldspar phyric dikes to 10m thick, intruding medium to coarse grained, magnetic equigranular monzonite. Monzonite has weak to moderate propylitic alteration consisting of chlorite+/-actinolite replacing mafic minerals and as veinlets and vein halos. Locally abundant pink k-feldspar or albite+silica vein and fracture halos. Locally abundant pegmatitic veins to 5cm with coarse euhedral albite+K feldspar crystals with interstitial anhedral quartz.

From 252 to 261.9 m (9.9 m) an interval grading 3.5 g/t Au was encountered in a series of albite-quartz kspar-hematite veins and quartz-calcite veins in brecciated monzonite rock. Within this zone one 3.75 m wide zone graded > 7 g/t Au.

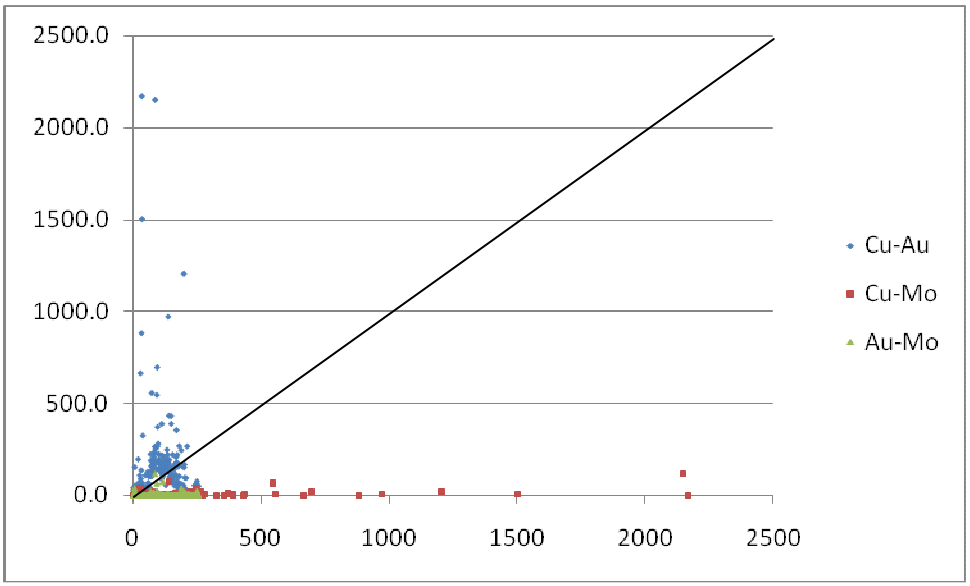

Figure 17: X-Y Plots of Copper-Gold-Molybdenum

X-Y plots of copper-gold, copper-molybdenum, and gold-molybdenum were created for all samples (Figure 17). Copper-gold shows overall affinity at lower grades, however, the high gold values encountered in MOF-5 show no correlation with copper. This and the alteration described in the logs suggests a separate hydrothermal event resulting in the gold deposition. Higher copper grades are elevated in gold at normal levels, however, not at the increases shown by copper. Molybdenum-copper and gold-molybdenum appear unrelated. Molybdenum values are generally low and are likely background.

5.3.1 QAQC

As part of the quality control for sample analyses a total of 13 standards were introduced in the field at a frequency of 1 every 40 samples and shipped to the laboratory for analyses. Two different standards were used. Certification sheets for the standards are located in Appendix C. An additional 9 standards were introduced by Acme as part of their QAQC protocols. Graphical results are presented in Figure 18. All but 2 high copper values fell within statistical parameters.

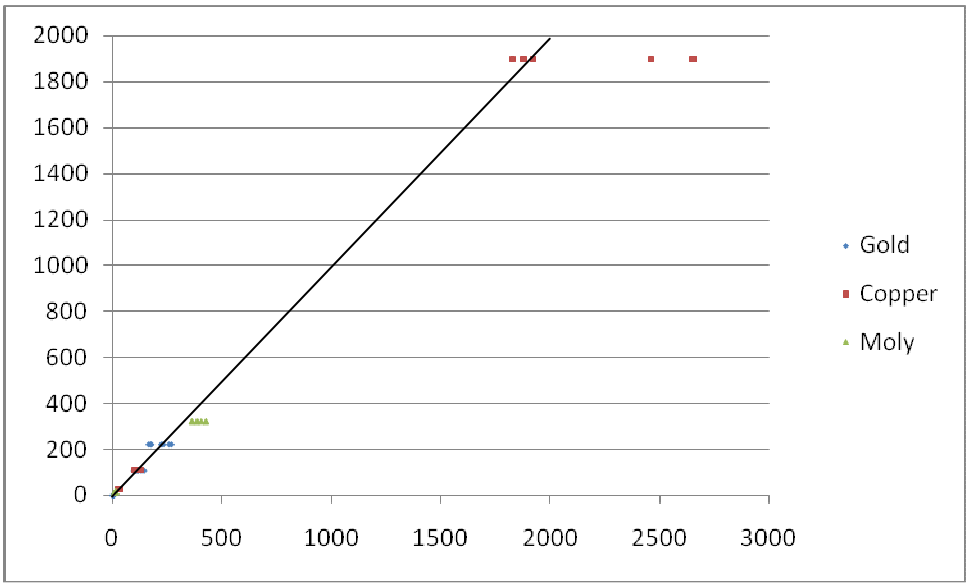

Figure 18: Standards Analyses

As part of Acme's protocols 10 certified blanks were introduced in the sampling run to test for contamination. All values fell within the norm. An additional 10 blanks were introduced into the preparation facility. All but 2 samples were within statistical parameters, the highest 2 samples grading 10 ppm copper.

A total of 22 pulps were reanalyzed for repeatability. Comparative results are graphically displayed on Figure 19. Analyses showed acceptable repeatability of analyses.

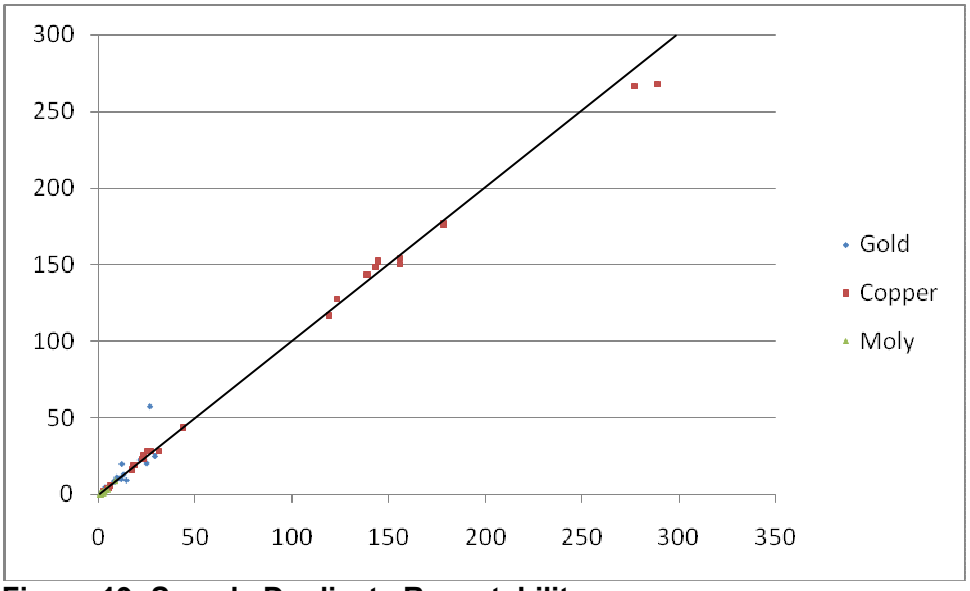

Figure 19: Sample Duplicate Repeatability

6.0 INTERPRETATION AND CONCLUSIONS

Numerous coincident copper-molybdenum-gold in-soil anomalies were delineated by the geochemistry survey (six locations Cu> 80 ppm to a high of 171 ppm). Sample density was 400 x 100 m intervals so any areas outlined by the survey are part of a large footprint. Future, more detailed sampling in the anomalous regions, could compliment future exploration.

An IP chargeability trend was detected in 6 lines over a strike length of 7 kilometres. In the south the anomaly is coincident with a copper-gold-moly anomaly, whereas, the northwest IP anomaly does not correlate with any geochemistry anomaly.

One kilometre to the east of the large chargeability trend another IP chargeability occurs at depth coincident with the showings discovered in 2010 and a large copper-gold-molybdenum soil geochemistry anomaly.

Diamond drilling tested four sites, three along the chargeability anomaly and one in the vicinity of gold-copper mineralization found in outcrop in 2010. All holes intersected quartz monzonite, monzonite and monzodiorite intrusives of the Takomkane batholith except for MOF-04, which intersected Nicola? volcaniclastic sediments throughout its entirety. Chalcopyrite mineralization was encountered in MOF-02, however, not enough sulphides were present in holes MOF-03 and 04 to account for the chargeability anomaly delineated by the IP survey.

Several small zones of copper mineralization were encountered and one gold zone was intersected in MOF-5. Gold and copper mineralization appear unrelated

7.0 RECOMMENDATIONS

More detailed IP is recommended in the east to further delineate an eastern chargeability zone detected by the 2011 program. Additional drilling should be completed to adequately test the large chargeability anomaly outlined by the current surveys. The cost of the next phase of exploration is estimated to be $300,000.

8.0 STATEMENT OF EXPENDITURES

Item	Description		Total
IP Survey	Scott Geophysics	$	58,899.47
Soil Sampling	Mincord	$	10,576.76
Diamond Drilling	Lyncorp Drilling	$	192,494.47
Geological Support	Coast Mt Geological	$	194,274.67
Supervision	L Peters	$	7,350.00
Shipping	Samples to lab	$	94.00
Food/Accommodation		$	960.44
Analytical	Acme Labs	$	11,397.40
Travel		$	1,276.63
Report Writing		$	1,500.00
Management Fee (10%)		$	47,882.38
Total		$	526,706.22
Event 5002727	06-Sep-11	$	28,101.62
Event 5161275	03-Jan-12	$	100,000.00
Event 5164223	11-Jan-12	$	398,604.60

Table 4: Statement of Costs

9.0 REFERENCES

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10.0 AUTHOR'S STATEMENT OF QUALIFICATIONS – L. John Peters

I, **L. John Peters, P.Geo** do hereby certify that:

a. I am a consulting geologist with addresses at 6549 Portland Street, Burnaby, BC, Canada, V5E 1A1.

b. I graduated with a Bachelor of Science degree (Geology) from the University of Western Ontario in 1984.

c. I am a Professional Geoscientist (P.Geo.) in good standing with the Association of Professional Engineers and Geoscientists of British Columbia (#19010).

d. I have worked as a geologist for a total of 27 years since my graduation from university.

e. I am responsible for the preparation of all sections of the technical report titled " Assessment Report on the Moffat Property" and dated 12 January 2012 relating to the Moffat Property. I visited the Moffat Property on numerous times since 2009 and represent Fjordland as the Exploration Manager.

f. I was not involved in any of the historic work programs on the Moffat Property, however, I have been involved in all aspects of Fjordland's exploration activities on the Property since 2009.

g. I am not aware of any material fact or material change with respect to the subject matter of the Technical Report that is not reflected in the Technical Report, the omission to disclose which makes the Technical Report misleading.

Dated this 12th day of January 2012.

"Lawrence John Peters"

Statement of Qualifications

I, Richard C. Parish, residing at 3226 Fuhrman Ave. E., Seattle, WA, USA, do hereby certify that:

1) I received a B. Sc degree in Geology from California State University, Hayward(1984).

2) I have practiced my profession as a minerals exploration geologist since 1985

3) I have worked for Coast Mountain Geological, LTD of Vancouver, B.C. as a Senior Project Geologist since 2005.

4) I am a member in good standing with the American Institute of Professional Geologists with Certified Professional Geologist status (CPG-11173).

5) I supervised the drilling operations at the Moffat property from Nov. to Dec., 2011 and have no direct or indirect interest in the Moffat property, or in Fjordland Exploration Inc.

Richard C Parish

December 23, 2011

Senior Project Geologist
Coast Mountain Geological

Appendix A:
Logistical Report - IP Survey

LOGISTICAL REPORT

INDUCED POLARIZATION SURVEY

MOFFAT PROPERTY

HORSEFLY AREA, B.C.

on behalf of

FJORDLAND EXPLORATION INC.
11th Floor – 1111 Melville Street
Vancouver, B.C. V6E 3V6

Survey performed June 1 to 8, 22 and September 14 to 18, 2011

by

Alan Scott, Geophysicist
SCOTT GEOPHYSICS LTD.
4013 West 14th Avenue
Vancouver, B.C. V6R 2X3

December 12, 2011

TABLE OF CONTENTS

Appendix

Accompanying Maps

Chargeability/Resistivity Pseudosections (1:10000)
South portion: 2011-4N, 2010-1N, 2011-8N, 2011-3N, 2011-7N, and 2010-2N
North portion: 2011-6N, 2011-5N, 2011-2N, 2010-3N, and 2011-1N

Chargeability Contour Plan - Triangular Filtered Values - UTM coordinates (1:10000)
Resistivity Contour Plan - Triangular Filtered Values - UTM coordinates (1:10000)

Accompanying Files

All raw and processed survey data, pseudosections, and plan maps

1. INTRODUCTION

Induced polarization (IP) surveys were performed at the Moffat Property, Horsefly Area, B.C., within the periods June 1-8, 22 and September 14-18, 2011. Four lines were also surveyed in 2010, three of which and are included with this report.

The surveys were performed by Scott Geophysics Ltd. on behalf of Fjordland Exploration Inc. This report describes the instrumentation and procedures, and presents the results of the surveys.

2. SURVEY COVERAGE AND PROCEDURES

A total of 18.8 km of IP survey was performed at the Moffat Property in 2011. An additional 12.5 km was surveyed in 2010. Lines 1N, 2N, and 3N from that 2010 survey are included with this report since they are in the same area as the 2011 survey. The survey lines were established concurrently with the IP surveys in both 2010 and 2011.

The pole dipole array was used for the IP survey with an “a” spacing of 100 metres and at “n” separations of 1 to 6. The on line current electrode was located to the East of the potential electrodes. The chargeability and resistivity results are presented on the accompanying pseudosections and contour plans.

3. PERSONNEL

Lise Gagnon was the crew chief on behalf of Scott Geophysics Ltd. for the June, 2011 survey and Esteban Zaragoza for the September, 2011 survey. John Peters was the representative on behalf of Fjordland Exploration Inc.

4. INSTRUMENTATION

A GDD Grx8 receiver and TxII transmitter were used for the IP survey. Readings were taken in the time domain using a 2 second on/2 second off alternating square wave. The chargeability values plotted on the accompanying pseudosections are for the interval 690 to 1050 msecs after shutoff (mid point 870 msec).

GPS readings were taken with a Garmin 60CSx receiver/altimeter.

Respectfully Submitted,

Alan Scott, Geophysicist

Statement of Qualifications

for

Alan Scott, Geophysicist

of

4013 West 14th Avenue
Vancouver, B.C. V6R 2X3

I hereby certify the following statements regarding my qualifications and involvement in the program of work on behalf of Fjordland Exploration Inc., at the Moffat Property, Horsefly Area, B.C., and as presented in this report of December 12, 2011.

The work was performed by individuals qualified for its performance.

I have no material interest in the property under consideration in this report.

I graduated from the University of British Columbia with a Bachelor of Science degree (Geophysics) in 1970 and with a Master of Business Administration in 1982.

I am a member of the Association of Professional Engineers and Geoscientists of the Province of British Columbia.

I have been practicing my profession as a Geophysicist in the field of Mineral Exploration since 1970.

Respectfully submitted,

Alan Scott, P.Geo.

FJORDLAND EXPLORATION INC.

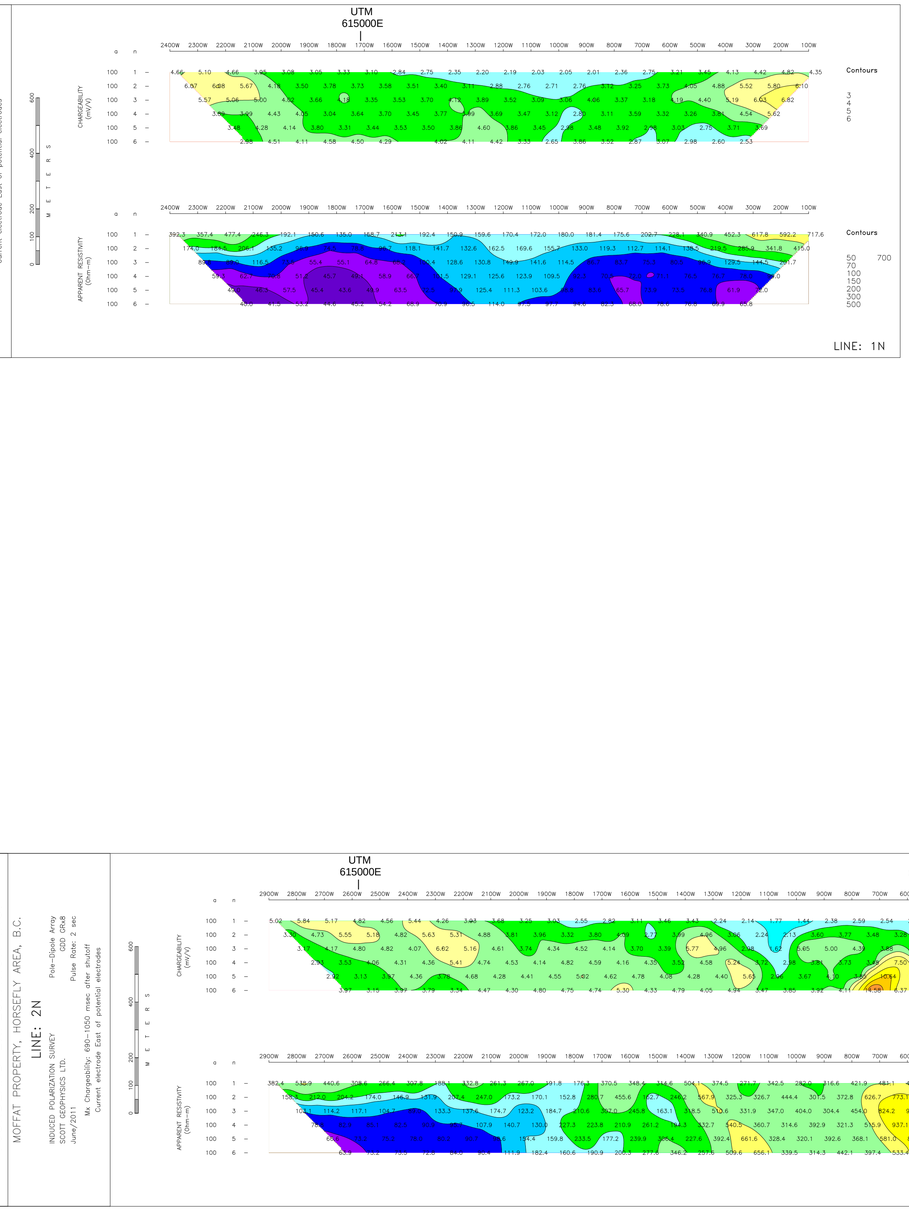
MOFFAT PROPERTY, HORSEFLY AREA, B.C.

LINE: 1N

INDUCED POLARIZATION SURVEY
SCOTT GEOPHYSICS LTD.
June/2011

Pole-Dipole Array
GDD GRx8
Pulse Rate: 2 sec

Mx Chargeability: 690-1050 msec after shutoff
Current electrode East of potential electrodes



LINE: 1N

FJORDLAND EXPLORATION INC.

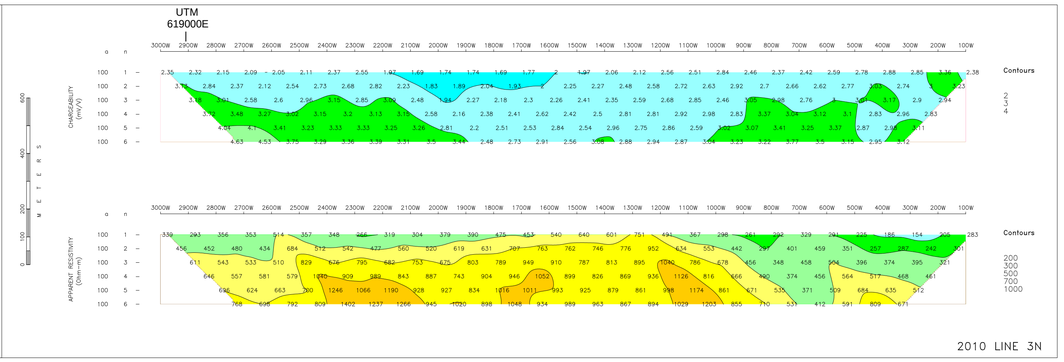
MOFFAT PROPERTY, HORSEFLY AREA, B.C.

2010 LINE 3N

INDUCED POLARIZATION SURVEY
SCOTT GEOPHYSICS LTD.
Oct/2010

Pole-Dipole Array
GDD GRx8
Pulse Rate: 2 sec

Mx Chargeability: 690-1050 msec after shutoff
Current electrode East of potential electrodes



2010 LINE 3N

FJORDLAND EXPLORATION INC.

MOFFAT PROPERTY, HORSEFLY AREA, B.C.

LINE: 2N

INDUCED POLARIZATION SURVEY
SCOTT GEOPHYSICS LTD.
June/2011

Pole-Dipole Array
GDD GRx8
Pulse Rate: 2 sec

Mx Chargeability: 690-1050 msec after shutoff
Current electrode East of potential electrodes

LINE: 2N

FJORDLAND EXPLORATION INC.

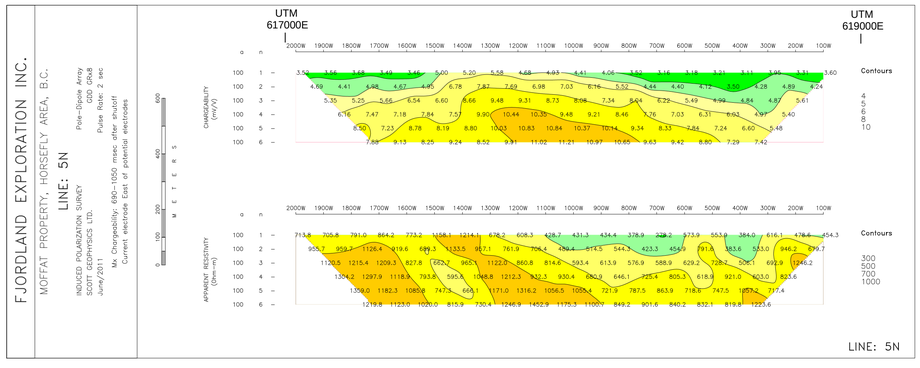
MOFFAT PROPERTY, HORSEFLY AREA, B.C.

LINE: 5N

INDUCED POLARIZATION SURVEY
SCOTT GEOPHYSICS LTD.
June/2011

Pole-Dipole Array
GDD GRx8
Pulse Rate: 2 sec

Mx Chargeability: 690-1050 msec after shutoff
Current electrode East of potential electrodes



LINE: 5N

FJORDLAND EXPLORATION INC.

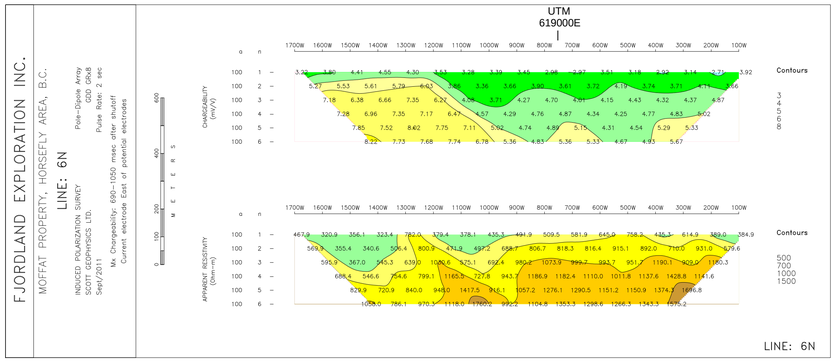
MOFFAT PROPERTY, HORSEFLY AREA, B.C.

LINE: 6N

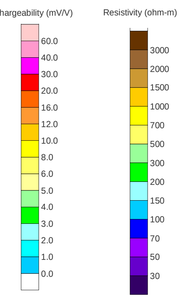
INDUCED POLARIZATION SURVEY
SCOTT GEOPHYSICS LTD.
Sept/2011

Pole-Dipole Array
GDD GRx8
Pulse Rate: 2 sec

Mx Chargeability: 690-1050 msec after shutoff
Current electrode East of potential electrodes



LINE: 6N



FJORDLAND EXPLORATION INC.

MOFFAT PROPERTY, HORSEFLY AREA, B.C.

2010 LINE 2N

INDUCED POLARIZATION SURVEY
SCOTT GEOPHYSICS LTD.
Oct/2010

Pole-Dipole Array
GDD GRx8
Pulse Rate: 2 sec

Mx Chargeability: 690-1050 msec after shutoff
Current electrode East of potential electrodes

UTM
619000E

CHARGEABILITY (mV/V)

APPARENT RESISTIVITY (Ohm-m)

METERS 0 100 200 400 600

Contours

2 3 4 5 6 8

Contours

500 700 1000 1500 2000 3000

2010 LINE 2N

FJORDLAND EXPLORATION INC.

MOFFAT PROPERTY, HORSEFLY AREA, B.C.

LINE: 7N

INDUCED POLARIZATION SURVEY
SCOTT GEOPHYSICS LTD.
Sept/2011

Pole-Dipole Array
GDD GRx8
Pulse Rate: 2 sec

Mx Chargeability: 690-1050 msec after shutoff
Current electrode East of potential electrodes

UTM
619000E

CHARGEABILITY (mV/V)

APPARENT RESISTIVITY (Ohm-m)

METERS 0 100 200 400 600

Contours

1 2 3 4 5 6 8 10

Contours

500 700 1000 1500 2000 3000

LINE: 7N

FJORDLAND EXPLORATION INC.

MOFFAT PROPERTY, HORSEFLY AREA, B.C.

LINE: 3N

INDUCED POLARIZATION SURVEY
SCOTT GEOPHYSICS LTD.
June/2011

Pole-Dipole Array
GDD GRx8
Pulse Rate: 2 sec

Mx Chargeability: 690-1050 msec after shutoff
Current electrode East of potential electrodes

UTM
619000E

CHARGEABILITY (mV/V)

APPARENT RESISTIVITY (Ohm-m)

METERS 0 100 200 400 600

Contours

2 3 4 5 6 8 10

Contours

500 700 1000 1500 2000 3000

LINE: 3N

FJORDLAND EXPLORATION INC.

MOFFAT PROPERTY, HORSEFLY AREA, B.C.

LINE: 8N

INDUCED POLARIZATION SURVEY
SCOTT GEOPHYSICS LTD.
Sept/2011

Pole-Dipole Array
GDD GRx8
Pulse Rate: 2 sec

Mx Chargeability: 690-1050 msec after shutoff
Current electrode East of potential electrodes

UTM
619000E

CHARGEABILITY (mV/V)

APPARENT RESISTIVITY (Ohm-m)

METERS 0 100 200 400 600

Contours

2 3 4 5 6 8 10

Contours

300 500 700 1000 1500 2000 3000

LINE: 8N

FJORDLAND EXPLORATION INC.

MOFFAT PROPERTY, HORSEFLY AREA, B.C.

2010 LINE 1N

INDUCED POLARIZATION SURVEY
SCOTT GEOPHYSICS LTD.
Oct/2010

Pole-Dipole Array
GDD GRx8
Pulse Rate: 2 sec

Mx Chargeability: 690-1050 msec after shutoff
Current electrode East of potential electrodes

UTM
619000E

CHARGEABILITY (mV/V)

APPARENT RESISTIVITY (Ohm-m)

METERS 0 100 200 400 600

Contours

1 2 3 4 5 6

Contours

500 700 1000 1500 2000

2010 LINE 1N

FJORDLAND EXPLORATION INC.

MOFFAT PROPERTY, HORSEFLY AREA, B.C.

LINE: 4N

INDUCED POLARIZATION SURVEY
SCOTT GEOPHYSICS LTD.
June/2011

Pole-Dipole Array
GDD GRx8
Pulse Rate: 2 sec

Mx Chargeability: 690-1050 msec after shutoff
Current electrode East of potential electrodes

UTM
619000E

CHARGEABILITY (mV/V)

APPARENT RESISTIVITY (Ohm-m)

METERS 0 100 200 400 600

Contours

2 3 4 5 6

Contours

700 1000 1500 2000 3000

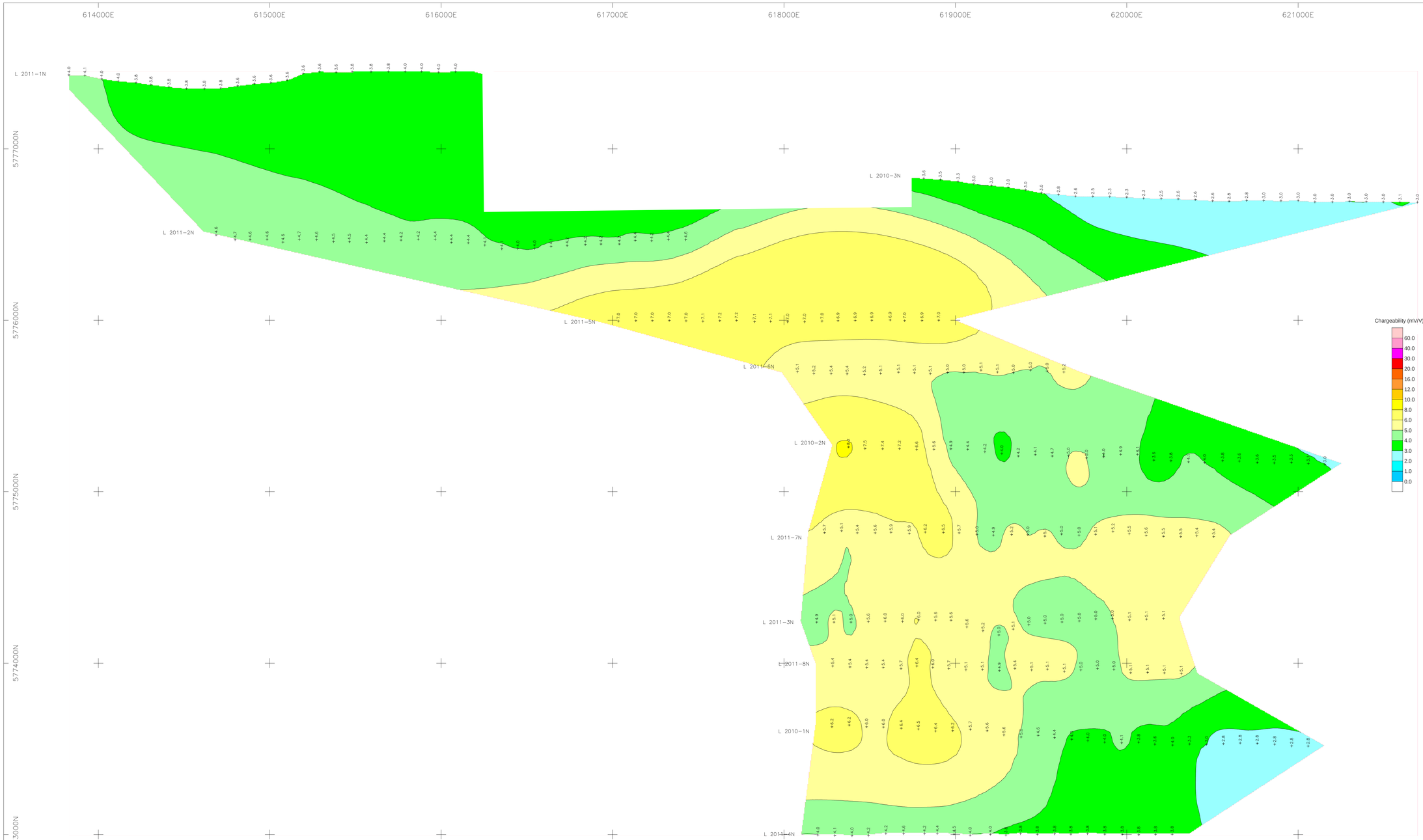
LINE: 4N

Chargeability (mV/V)

60.0 40.0 30.0 20.0 16.0 12.0 10.0 8.0 6.0 5.0 4.0 3.0 2.0 1.0 0.0

Resistivity (ohm-m)

3000 2000 1500 1000 700 500 300 200 150 100 70 50 30



SURVEY SPECIFICATIONS

survey performed	2010 and 2011
receiver	GDD Rx8
transmitter	GDD Tx II
pulse time	2 seconds
Mx receive window	690-1050 msec
mid point	870 msec
array	pole dipole
a spacing	100 metres
n separations	1, 2, 3, 4, 5, 6
current electrode	W of potentials

Contoured value Filtered chargeability
Filtered values n = 1 to 6

Note: The filter applied to this data is the standard Fraser triangular filter whereby one value is selected at n=1, two values at n=2, three values at n=3, etc. The plotted value is the average of the average values of the n separations and is plotted at the n=1 data point.

GPS derived UTM coordinates - WGS84

FJORDLAND EXPLORATION INC.

MOFFAT PROPERTY

HORSEFLY AREA, B.C.
Chargeability Contour Plan
Triangular Filtered Values
First to Sixth Separations

DRAWN BY: ars | DATE: Dec/2011

SCOTT GEOPHYSICS LTD.

614000E 615000E 616000E 617000E 618000E 619000E 620000E 621000E

5777000N 5776000N 5775000N 5774000N 5773000N

L 2011-1N
L 2011-2N
L 2011-5N
L 2011-6N
L 2010-3N
L 2010-2N
L 2011-7N
L 2011-3N
L 2011-8N
L 2010-1N
L 2011-4N

Resistivity (ohm-m)

3000
2000
1500
1000
700
500
300
200
150
100
70
50
30

0 200 400 600 800
METERS

SURVEY SPECIFICATIONS

survey performed	2010 and 2011
receiver	GDD Rx8
transmitter	GDD Tx II
pulse time	2 seconds
Mx receive window	690-1050 msec
mid point	870 msec
array	pole dipole
a spacing	100 metres
n separations	1, 2, 3, 4, 5, 6
current electrode	W of potentials

Contoured value Filtered resistivity
Filtered values n = 1 to 6

Note: The filter applied to this data is the standard Fraser triangular filter whereby one value is selected at n=1, two values at n=2, three values at n=3, etc. The plotted value is the average of the average values of the n separations and is plotted at the n=1 data point.

GPS derived UTM coordinates - WGS84

FJORDLAND EXPLORATION INC.

MOFFAT PROPERTY

HORSEFLY AREA, B.C.
Resistivity Contour Plan
Triangular Filtered Values
First to Sixth Separations

DRAWN BY: ars | DATE: Dec/2011

SCOTT GEOPHYSICS LTD.

Appendix B:
Drill Logs

HOLE ID	METHOD	SAMPLE #	FROM	TO	LENGTH	STANDARD	Sample Type	Cu PPM	Mo PPM	Au PPB
MOF-2	SPLIT	16751	67.90	70.60	2.70		Drill Core	41.5	0.4	3.7
MOF-2	SPLIT	16752	70.60	74.80	4.20		Drill Core	28.5	0.8	10.3
MOF-2	SPLIT	16753	74.80	76.80	2.00		Drill Core	25.5	1.4	28.7
MOF-2	SPLIT	16754	76.80	81.70	4.90		Drill Core	8	0.5	2.8
MOF-2	SPLIT	16755	81.70	86.25	4.55		Drill Core	24.3	16.2	7.2
MOF-2	SPLIT	16756	86.25	89.80	3.55		Drill Core	28.7	38.9	8.8
MOF-2	SPLIT	16757	89.80	93.70	3.90		Drill Core	154.4	0.5	5.5
MOF-2	SPLIT	16758	93.70	97.60	3.90		Drill Core	54.8	0.8	2.2
MOF-2	SPLIT	16759	97.60	102.40	4.80		Drill Core	27.8	0.6	0.7
MOF-2		16760				CU184	Rock Pulp	1879.3	383.8	172.1
MOF-2	SPLIT	16761	102.40	106.75	4.35		Drill Core	35.2	<0.1	22.3
MOF-2	SPLIT	16762	106.75	110.70	3.95		Drill Core	19.9	1.2	4
MOF-2	SPLIT	16763	110.70	113.85	3.15		Drill Core	10.4	0.9	8.8
MOF-2	SPLIT	16764	113.85	117.96	4.11		Drill Core	7.5	0.7	<0.5
MOF-2	SPLIT	16765	117.96	121.40	3.44		Drill Core	33	0.8	2.5
MOF-2	SPLIT	16766	121.40	125.30	3.90		Drill Core	17.5	0.7	<0.5
MOF-2	SPLIT	16767	125.30	128.70	3.40		Drill Core	16	0.5	3.6
MOF-2	SPLIT	16768	128.70	132.70	4.00		Drill Core	29	0.5	17.6
MOF-2	SPLIT	16769	132.70	136.60	3.90		Drill Core	19.1	0.6	0.8
MOF-2	SPLIT	16770	136.60	140.75	4.15		Drill Core	15.1	0.6	0.8
MOF-2	SPLIT	16771	140.75	144.45	3.70		Drill Core	197.5	0.9	28
MOF-2	SPLIT	16772	144.45	148.44	3.99		Drill Core	67.6	0.5	33
MOF-2	SPLIT	16773	148.44	151.49	3.05		Drill Core	54.9	0.5	<0.5
MOF-2	SPLIT	16774	151.49	154.53	3.04		Drill Core	56	0.5	19
MOF-2	SPLIT	16775	154.53	157.58	3.05		Drill Core	43.1	0.5	2.6
MOF-2	SPLIT	16776	157.58	160.63	3.05		Drill Core	42.5	0.5	<0.5
MOF-2	SPLIT	16777	160.63	164.45	3.82		Drill Core	110.1	0.5	<0.5
MOF-2	SPLIT	16778	164.45	168.35	3.90		Drill Core	16.3	0.5	20
MOF-2	SPLIT	16779	168.35	172.25	3.90		Drill Core	75.1	0.7	9.2
MOF-2		16780				BLANK	Rock Pulp	28.7	9.3	<0.5
MOF-2	CUT	16781	172.25	174.35	2.10		Drill Core	664.4	0.7	38.3
MOF-2	CUT	16782	174.35	176.25	1.90		Drill Core	91.8	0.5	511.9
MOF-2	CUT	16783	176.25	180.30	4.05		Drill Core	44.1	0.6	53.2
MOF-2	CUT	16784	180.30	184.85	4.55		Drill Core	138	0.3	18.8
MOF-2	CUT	16785	184.85	186.80	1.95		Drill Core	882.1	1.1	82.5
MOF-2	CUT	16786	186.80	188.60	1.80		Drill Core	2167.3	1.6	114.7
MOF-2	CUT	16787	188.60	190.70	2.10		Drill Core	1500.5	6.2	337.3
MOF-2	CUT	16788	190.70	194.16	3.46		Drill Core	68.1	0.4	5.7
MOF-2	CUT	16789	194.16	197.55	3.39		Drill Core	51.2	0.4	15.7
MOF-2	CUT	16790	197.55	201.45	3.90		Drill Core	326	0.5	45.8
MOF-2	CUT	16791	201.45	206.35	4.90		Drill Core	11.4	0.4	2.2
MOF-2	SPLIT	16792	206.35	210.95	4.60		Drill Core	16.5	0.3	2.2
MOF-2	SPLIT	16793	210.95	215.49	4.54		Drill Core	37.8	0.5	2
MOF-2	SPLIT	16794	215.49	220.00	4.51		Drill Core	18.6	0.4	21.2
MOF-2	SPLIT	16795	220.00	224.64	4.64		Drill Core	19.9	0.4	2
MOF-2	SPLIT	16796	224.64	228.80	4.16		Drill Core	47.3	0.5	15.2
MOF-2	SPLIT	16797	228.80	233.00	4.20		Drill Core	16.7	0.4	2
MOF-2	SPLIT	16798	233.00	236.83	3.83		Drill Core	24.5	0.4	8.3
MOF-2	SPLIT	16799	236.83	239.88	3.05		Drill Core	43.8	0.6	4.7
MOF-2		16800				CU184	Rock Pulp	2656.5	405.1	267.3

HOLE ID	METHOD	SAMPLE #	FROM	TO	LENGTH	STANDARD	Sample Type	Cu PPM	Mo PPM	Au PPB
MOF-2	SPLIT	16801	239.88	242.00	2.12		Drill Core	109.7	0.7	60.5
MOF-2	SPLIT	16802	242.00	246.90	4.90		Drill Core	13.5	0.6	4.2
MOF-2	SPLIT	16803	246.90	249.10	2.20		Drill Core	46.4	0.4	29.7
MOF-2	SPLIT	16804	249.10	253.10	4.00		Drill Core	15	0.5	3.6
MOF-2	SPLIT	16805	253.10	254.60	1.50		Drill Core	24.2	0.3	7.8
MOF-2	SPLIT	16806	254.60	258.90	4.30		Drill Core	17.8	0.5	1
MOF-2	SPLIT	16807	258.90	262.70	3.80		Drill Core	23.4	0.3	11.8
MOF-3	SPLIT	16808	12.10	17.00	4.90		Drill Core	25	0.5	2.9
MOF-3	SPLIT	16809	17.00	21.50	4.50		Drill Core	41.1	0.3	4.7
MOF-3	SPLIT	16810	21.50	24.40	2.90		Drill Core	128.7	0.5	9.8
MOF-3	SPLIT	16811	24.40	29.40	5.00		Drill Core	53	0.3	2.9
MOF-3	SPLIT	16812	29.40	34.60	5.20		Drill Core	70.4	2	5.1
MOF-3	SPLIT	16813	34.60	39.30	4.70		Drill Core	18.9	0.8	6.1
MOF-3	SPLIT	16814	39.30	43.20	3.90		Drill Core	65.3	1.6	7.5
MOF-3	SPLIT	16815	43.20	46.75	3.55		Drill Core	106.9	2.9	7.9
MOF-3	SPLIT	16816	46.75	51.20	4.45		Drill Core	104.9	1.3	13.6
MOF-3	SPLIT	16817	51.20	55.85	4.65		Drill Core	23.5	0.8	1.9
MOF-3	SPLIT	16818	55.85	60.40	4.55		Drill Core	35.2	1.2	6.4
MOF-3	SPLIT	16819	60.40	64.45	4.05		Drill Core	42.2	1	5.2
MOF-3		16820				BLANK	Rock Pulp	31	9.4	<0.5
MOF-3	SPLIT	16821	64.45	68.95	4.50		Drill Core	28.5	1.8	4.1
MOF-3	SPLIT	16822	68.95	71.85	2.90		Drill Core	225.1	22.7	40.8
MOF-3	SPLIT	16823	71.85	74.35	2.50		Drill Core	190.1	2	14
MOF-3	SPLIT	16824	74.35	77.75	3.40		Drill Core	134.3	3.6	9.1
MOF-3	SPLIT	16825	77.75	81.90	4.15		Drill Core	160	2.2	13.3
MOF-3	SPLIT	16826	81.90	86.10	4.20		Drill Core	104	5.1	6.3
MOF-3	SPLIT	16827	86.10	90.53	4.43		Drill Core	557	4	20.2
MOF-3	SPLIT	16828	90.53	95.50	4.97		Drill Core	157.1	4.1	10.9
MOF-3	SPLIT	16829	95.50	100.50	5.00		Drill Core	164.2	10.8	16.8
MOF-3	SPLIT	16830	100.50	105.35	4.85		Drill Core	168.4	3.9	22.8
MOF-3	SPLIT	16831	105.35	107.80	2.45		Drill Core	186.5	5.3	15.7
MOF-3	SPLIT	16832	107.80	110.45	2.65		Drill Core	128.6	2.3	14.9
MOF-3	SPLIT	16833	110.45	115.45	5.00		Drill Core	196.5	17.6	21.3
MOF-3	SPLIT	16834	115.45	118.85	3.40		Drill Core	155.2	2.7	9.3
MOF-3	SPLIT	16835	118.85	123.00	4.15		Drill Core	210.6	13.3	23.6
MOF-3	SPLIT	16836	123.00	127.55	4.55		Drill Core	236.8	4.3	39.6
MOF-3	SPLIT	16837	127.55	131.00	3.45		Drill Core	150.1	3.8	13
MOF-3	SPLIT	16838	131.00	134.70	3.70		Drill Core	229.8	3.8	18.2
MOF-3	SPLIT	16839	134.70	138.15	3.45		Drill Core	265.9	9.1	22.7
MOF-3		16840				CU184	Rock Pulp	1922.8	388.9	229
MOF-3	SPLIT	16841	138.15	140.55	2.40		Drill Core	2148.9	118.3	907.6
MOF-3	SPLIT	16842	140.55	144.55	4.00		Drill Core	137.7	3.2	34.4
MOF-3	SPLIT	16843	144.55	148.44	3.89		Drill Core	253.9	3.6	16.2
MOF-3	SPLIT	16844	148.44	152.60	4.16		Drill Core	187.8	4.2	14.7
MOF-3	SPLIT	16845	152.60	157.25	4.65		Drill Core	179.2	5.3	26.3
MOF-3	SPLIT	16846	157.25	161.65	4.40		Drill Core	176.5	3.6	25.1
MOF-3	SPLIT	16847	161.65	164.65	3.00		Drill Core	21.6	0.3	11.2
MOF-3	SPLIT	16848	164.65	167.80	3.15		Drill Core	546	65.8	63.9
MOF-3	SPLIT	16849	167.80	171.10	3.30		Drill Core	696.2	22	89
MOF-3	SPLIT	16850	171.10	175.10	4.00		Drill Core	267.7	18.4	19

HOLE ID	METHOD	SAMPLE #	FROM	TO	LENGTH	STANDARD	Sample Type	Cu PPM	Mo PPM	Au PPB
MOF-3	SPLIT	16851	175.10	179.50	4.40		Drill Core	372.1	10.2	43.6
MOF-3	SPLIT	16852	179.50	183.75	4.25		Drill Core	143.9	4.8	7.6
MOF-3	SPLIT	16853	183.75	188.05	4.30		Drill Core	282.7	8.3	18.5
MOF-3	SPLIT	16854	188.05	192.40	4.35		Drill Core	226.5	3	20.9
MOF-3	SPLIT	16855	192.40	196.80	4.40		Drill Core	224.5	6.5	29.8
MOF-3	SPLIT	16856	196.80	201.35	4.55		Drill Core	179.6	4.2	11.9
MOF-3	SPLIT	16857	201.35	205.75	4.40		Drill Core	198.2	5.1	12.7
MOF-3	SPLIT	16858	205.75	210.30	4.55		Drill Core	152.1	3.6	10.2
MOF-3	SPLIT	16859	210.30	214.45	4.15		Drill Core	188.1	5.9	9
MOF-3		16860					Rock Pulp	29.5	10.3	3.1
MOF-3	SPLIT	16861	214.45	219.10	4.65		Drill Core	146.4	3.2	12.2
MOF-3	SPLIT	16862	219.10	223.85	4.75		Drill Core	185.4	4.4	21.8
MOF-3	SPLIT	16863	223.85	228.20	4.35		Drill Core	154.1	3.8	10.6
MOF-3	SPLIT	16864	228.20	232.80	4.60		Drill Core	126.7	4.3	10.2
MOF-3	SPLIT	16865	232.80	236.83	4.03		Drill Core	172	4.1	14.5
MOF-3	SPLIT	16866	236.83	240.95	4.12		Drill Core	91.2	7.4	8.2
MOF-3	SPLIT	16867	240.95	244.70	3.75		Drill Core	121.7	4.6	14
MOF-3	SPLIT	16868	244.70	247.40	2.70		Drill Core	390	4.6	43.5
MOF-3	SPLIT	16869	247.40	252.07	4.67		Drill Core	219.9	2.8	18.8
MOF-3	SPLIT	16870	252.07	256.00	3.93		Drill Core	175.7	2.5	37.5
MOF-3	SPLIT	16871	256.00	259.20	3.20		Drill Core	141.6	75.8	17.6
MOF-3	SPLIT	16872	259.20	261.85	2.65		Drill Core	215.5	0.9	23.5
MOF-3	SPLIT	16873	261.85	266.70	4.85		Drill Core	106.2	0.9	14.3
MOF-3	SPLIT	16874	266.70	271.50	4.80		Drill Core	127.8	1.5	8.6
MOF-3	SPLIT	16875	271.50	276.45	4.95	End of hole	Drill Core	142.8	1.8	6.9
MOF-4	SPLIT	16876	20.75	25.00	4.25		Drill Core	153.5	0.3	4.8
MOF-4	SPLIT	16877	25.00	29.35	4.35		Drill Core	165.4	0.2	1.7
MOF-4	SPLIT	16878	29.35	33.25	3.90		Drill Core	189.8	0.7	4.4
MOF-4	SPLIT	16879	33.25	37.70	4.45		Drill Core	147.5	0.4	2.2
MOF-4		16880				CU184	Rock Pulp	1827.5	363.5	162.9
MOF-4	SPLIT	16881	37.70	40.15	2.45		Drill Core	166.2	1.2	3.6
MOF-4	SPLIT	16882	40.15	42.40	2.25		Drill Core	202.4	0.7	4.9
MOF-4	SPLIT	16883	42.40	46.05	3.65		Drill Core	165.8	0.7	4.5
MOF-4	SPLIT	16884	46.05	49.75	3.70		Drill Core	152.2	0.8	3.6
MOF-4	SPLIT	16885	49.75	50.25	0.50		Drill Core	57.1	0.8	6.9
MOF-4	SPLIT	16886	50.25	52.85	2.60		Drill Core	177.9	0.9	3.5
MOF-4	SPLIT	16887	52.85	56.20	3.35		Drill Core	182.8	0.9	2.7
MOF-4	SPLIT	16888	56.20	60.05	3.85		Drill Core	143.3	0.9	3.7
MOF-4	SPLIT	16889	60.05	64.40	4.35		Drill Core	248.9	9.2	4.6
MOF-4	SPLIT	16890	64.40	68.30	3.90		Drill Core	170.6	0.5	2.1
MOF-4	SPLIT	16891	68.30	71.25	2.95		Drill Core	148.8	2.4	2.3
MOF-4	SPLIT	16892	71.25	74.75	3.50		Drill Core	222.3	9.9	2.9
MOF-4	SPLIT	16893	74.75	77.80	3.05		Drill Core	195.8	4.8	3.2
MOF-4	SPLIT	16894	77.80	78.90	1.10		Drill Core	971.2	8.2	4.9
MOF-4	SPLIT	16895	78.90	83.10	4.20		Drill Core	178.4	1	3.2
MOF-4	SPLIT	16896	83.10	86.80	3.70		Drill Core	171.8	1	4.6
MOF-4	SPLIT	16897	86.80	89.40	2.60		Drill Core	434.3	4.3	8.7
MOF-4	SPLIT	16898	89.40	92.20	2.80		Drill Core	194.7	0.9	5.8
MOF-4	SPLIT	16899	92.20	94.60	2.40		Drill Core	156.1	0.4	3.6
MOF-4		16900				BLANK	Rock Pulp	27.1	8.9	0.8

HOLE ID	METHOD	SAMPLE #	FROM	TO	LENGTH	STANDARD	Sample Type	Cu PPM	Mo PPM	Au PPB
MOF-4	SPLIT	16901	94.60	99.15	4.55		Drill Core	102.1	0.4	3
MOF-4	SPLIT	16902	99.15	103.60	4.45		Drill Core	136.6	0.5	4.9
MOF-4	SPLIT	16903	103.60	108.50	4.90		Drill Core	82.5	0.2	3.7
MOF-4	SPLIT	16904	108.50	111.86	3.36		Drill Core	105.8	0.3	3.8
MOF-4	SPLIT	16905	111.86	116.90	5.04		Drill Core	110.6	1.1	5.4
MOF-4	SPLIT	16906	116.90	120.10	3.20		Drill Core	432	1.3	4.7
MOF-4	SPLIT	16907	120.10	123.40	3.30		Drill Core	390.3	0.8	4.9
MOF-4	SPLIT	16908	123.40	126.65	3.25		Drill Core	118.3	0.3	3.8
MOF-4	SPLIT	16909	126.65	131.10	4.45		Drill Core	73.6	0.2	15.6
MOF-4	SPLIT	16910	131.10	136.20	5.10		Drill Core	93	0.2	10.7
MOF-4	SPLIT	16911	136.20	141.10	4.90		Drill Core	116.6	0.3	11.2
MOF-4	SPLIT	16912	141.10	145.39	4.29		Drill Core	222.9	0.2	10.2
MOF-4	SPLIT	16913	145.39	150.40	5.01		Drill Core	103.4	0.2	4.2
MOF-4	SPLIT	16914	150.40	155.25	4.85		Drill Core	156.3	0.3	6.9
MOF-4	SPLIT	16915	155.25	160.25	5.00		Drill Core	79	0.2	9.2
MOF-4	SPLIT	16916	160.25	163.90	3.65		Drill Core	13.9	0.2	2.7
MOF-4	SPLIT	16917	163.90	168.90	5.00		Drill Core	155.4	0.3	7.6
MOF-4	SPLIT	16918	168.90	173.90	5.00		Drill Core	76.3	0.2	6.4
MOF-4	SPLIT	16919	173.90	178.90	5.00		Drill Core	143.3	0.2	8.7
MOF-4		16920				CU184	Rock Pulp	2654.3	426.1	256.2
MOF-4	SPLIT	16921	178.90	183.90	5.00		Drill Core	168.4	0.5	8.6
MOF-4	SPLIT	16922	183.90	187.90	4.00		Drill Core	52.3	0.2	11.4
MOF-4	SPLIT	16923	187.90	191.90	4.00		Drill Core	63.2	0.2	7.7
MOF-4	SPLIT	16924	191.90	195.05	3.15		Drill Core	115.6	1	11.2
MOF-4	SPLIT	16925	195.05	205.05	10.00		Drill Core	2.8	1.6	2.7
MOF-4	SPLIT	16926	205.05	210.00	4.95		Drill Core	4.5	1.9	10.1
MOF-4	SPLIT	16927	210.00	214.80	4.80		Drill Core	209.5	2	10.7
MOF-4	SPLIT	16928	214.80	218.54	3.74		Drill Core	355.4	0.7	24.3
MOF-4	SPLIT	16929	218.54	222.75	4.21		Drill Core	180.9	1.2	12.3
MOF-4	SPLIT	16930	222.75	227.69	4.94		Drill Core	99.6	0.3	7.8
MOF-4	SPLIT	16931	227.69	231.45	3.76		Drill Core	222	1.6	11.9
MOF-4	SPLIT	16932	231.45	233.78	2.33		Drill Core	58.3	1	6.8
MOF-4	SPLIT	16933	233.78	238.80	5.02		Drill Core	75.2	0.3	5.1
MOF-4	SPLIT	16934	238.80	242.45	3.65		Drill Core	43.2	0.1	3.9
MOF-4	SPLIT	16935	242.45	245.40	2.95		Drill Core	70	0.2	13.3
MOF-4	SPLIT	16936	245.40	250.20	4.80		Drill Core	157.2	0.2	6.9
MOF-4	SPLIT	16937	250.20	254.85	4.65		Drill Core	12.8	0.2	6.1
MOF-4	SPLIT	16938	254.85	259.50	4.65		Drill Core	39.7	0.3	13.7
MOF-4	SPLIT	16939	259.50	264.26	4.76		Drill Core	269.7	0.3	36
MOF-4		16940				BLANK	Rock Pulp	27.6	9.2	2.2
MOF-4	SPLIT	16941	264.26	268.75	4.49		Drill Core	105.2	0.1	27.1
MOF-4	SPLIT	16942	268.75	273.41	4.66		Drill Core	48.4	0.2	66.5
MOF-5	SPLIT	16943	14.33	17.90	3.57		Drill Core	22.8	7.6	2.2
MOF-5	SPLIT	16944	17.90	22.00	4.10		Drill Core	26.2	10.2	2.3
MOF-5	SPLIT	16945	22.00	24.80	2.80		Drill Core	50.2	7.8	2.2
MOF-5	SPLIT	16946	24.80	29.30	4.50		Drill Core	33.5	5.2	2.9
MOF-5	SPLIT	16947	29.30	32.50	3.20		Drill Core	64.4	6.5	2.9
MOF-5	SPLIT	16948	32.50	37.40	4.90		Drill Core	246.3	39.6	7.6
MOF-5	SPLIT	16949	37.40	38.30	0.90		Drill Core	26.3	1.7	2.8
MOF-5	SPLIT	16950	38.30	42.10	3.80		Drill Core	44.3	2.3	2.5

HOLE ID	METHOD	SAMPLE #	FROM	TO	LENGTH	STANDARD	Sample Type	Cu PPM	Mo PPM	Au PPB
MOF-5	SPLIT	16951	42.10	45.10	3.00		Drill Core	12.8	1.7	21.9
MOF-5	SPLIT	16952	45.10	47.85	2.75		Drill Core	33.5	2.8	7.6
MOF-5	SPLIT	16953	47.85	50.00	2.15		Drill Core	6.4	1.3	2.2
MOF-5	SPLIT	16954	50.00	53.95	3.95		Drill Core	157.8	5.8	4.4
MOF-5	SPLIT	16955	53.95	57.65	3.70		Drill Core	25.4	2.6	3.2
MOF-5	SPLIT	16956	57.65	61.95	4.30		Drill Core	52	4.9	9.4
MOF-5	SPLIT	16957	61.95	65.20	3.25		Drill Core	55.9	14.5	4.6
MOF-5	SPLIT	16958	65.20	66.50	1.30		Drill Core	1204.5	21	47.7
MOF-5	SPLIT	16959	66.50	68.85	2.35		Drill Core	152.9	5.8	5.8
MOF-5		16960				CU184	Rock Pulp	2462	427.3	220.8
MOF-5	SPLIT	16961	68.85	72.24	3.39		Drill Core	169.1	10.5	62.4
MOF-5	SPLIT	16962	72.24	76.85	4.61		Drill Core	97.3	8.1	61.6
MOF-5	SPLIT	16963	76.85	80.80	3.95		Drill Core	38	8.8	17.4
MOF-5	SPLIT	16964	80.80	83.80	3.00		Drill Core	15.3	17.2	17.7
MOF-5	SPLIT	16965	83.80	87.80	4.00		Drill Core	34.7	2.6	6.9
MOF-5	SPLIT	16966	87.80	91.55	3.75		Drill Core	7.6	1.4	2.6
MOF-5	SPLIT	16967	91.55	95.25	3.70		Drill Core	29.9	1.1	6.2
MOF-5	SPLIT	16968	95.25	98.90	3.65		Drill Core	96.1	1.8	4.2
MOF-5	SPLIT	16969	98.90	102.00	3.10		Drill Core	4.1	2.2	2.3
MOF-5	SPLIT	16970	102.00	105.00	3.00		Drill Core	11.9	1.3	1.7
MOF-5	SPLIT	16971	105.00	107.55	2.55		Drill Core	6.9	1.4	1.3
MOF-5	SPLIT	16972	107.55	110.95	3.40		Drill Core	267.7	1.7	9.3
MOF-5	SPLIT	16973	110.95	114.05	3.10		Drill Core	23.5	1.6	3.6
MOF-5	SPLIT	16974	114.05	117.05	3.00		Drill Core	7.1	1.4	2.4
MOF-5	SPLIT	16975	117.05	120.00	2.95		Drill Core	23.9	7.1	6.9
MOF-5	SPLIT	16976	120.00	123.10	3.10		Drill Core	4.4	0.6	11.1
MOF-5	SPLIT	16977	123.10	126.20	3.10		Drill Core	6	1	3.5
MOF-5	SPLIT	16978	126.20	130.15	3.95		Drill Core	9.4	1.4	<0.5
MOF-5	SPLIT	16979	130.15	133.70	3.55		Drill Core	6.1	1.5	3.7
MOF-5		16980				BLANK	Rock Pulp	22	7.2	3.8
MOF-5	SPLIT	16981	133.70	137.20	3.50		Drill Core	5.9	2.1	3.7
MOF-5	SPLIT	16982	137.20	141.60	4.40		Drill Core	9.6	0.7	1.1
MOF-5	SPLIT	16983	141.60	146.10	4.50		Drill Core	6.4	6.3	4.9
MOF-5	SPLIT	16984	146.10	150.70	4.60		Drill Core	11.6	1.5	5
MOF-5	SPLIT	16985	150.70	155.00	4.30		Drill Core	7.3	0.5	7.8
MOF-5	SPLIT	16986	155.00	159.35	4.35		Drill Core	5.4	0.4	7.2
MOF-5	SPLIT	16987	159.35	163.68	4.33		Drill Core	3.6	0.9	4.8
MOF-5	SPLIT	16988	163.68	166.80	3.12		Drill Core	6.2	1.1	3.3
MOF-5	SPLIT	16989	166.80	171.20	4.40		Drill Core	1.9	0.5	3.4
MOF-5	SPLIT	16990	171.20	175.45	4.25		Drill Core	3.2	0.5	3.2
MOF-5	SPLIT	16991	175.45	180.00	4.55		Drill Core	1.8	0.8	3.9
MOF-5	SPLIT	16992	180.00	184.45	4.45		Drill Core	1.6	0.4	3.6
MOF-5	SPLIT	16993	184.45	188.95	4.50		Drill Core	1.9	0.3	2
MOF-5	SPLIT	16994	188.95	192.80	3.85		Drill Core	2.6	0.8	3.4
MOF-5	SPLIT	16995	192.80	197.75	4.95		Drill Core	1.8	0.4	5
MOF-5	SPLIT	16996	197.75	202.70	4.95		Drill Core	1.3	0.6	1.9
MOF-5	SPLIT	16997	202.70	206.75	4.05		Drill Core	3.6	0.9	<0.5
MOF-5	SPLIT	16998	206.75	210.40	3.65		Drill Core	11.1	1.2	0.6
MOF-5	SPLIT	16999	210.40	213.80	3.40		Drill Core	6.1	0.9	14.8
MOF-5		17000				CU184	Rock Pulp	1829.4	361.6	175.4

HOLE ID	METHOD	SAMPLE #	FROM	TO	LENGTH	STANDARD	Sample Type	Cu PPM	Mo PPM	Au PPB
MOF-5	SPLIT	17001	213.80	218.00	4.20		Drill Core	12.7	1	1.4
MOF-5	SPLIT	17002	218.00	222.00	4.00		Drill Core	10.4	0.5	4.6
MOF-5	SPLIT	17003	222.00	225.35	3.35		Drill Core	55.6	1	30.3
MOF-5	SPLIT	17004	225.35	229.15	3.80		Drill Core	4.9	0.5	12.4
MOF-5	SPLIT	17005	229.15	233.55	4.40		Drill Core	2.8	0.7	1.5
MOF-5	SPLIT	17006	233.55	236.30	2.75		Drill Core	2.2	0.3	3.1
MOF-5	SPLIT	17007	236.30	240.30	4.00		Drill Core	28.4	1.3	20.5
MOF-5	SPLIT	17008	240.30	244.00	3.70		Drill Core	19.5	1.2	4.2
MOF-5	SPLIT	17009	244.00	247.60	3.60		Drill Core	37.3	0.6	<0.5
MOF-5	SPLIT	17010	247.60	252.00	4.40		Drill Core	6	0.6	1.4
MOF-5	SPLIT	17011	252.00	255.75	3.75		Drill Core	65.6	2	7036.5
MOF-5	SPLIT	17012	255.75	258.17	2.42		Drill Core	78	20.3	1666.5
MOF-5	SPLIT	17013	258.17	260.30	2.13		Drill Core	35.3	23.6	1703
MOF-5	SPLIT	17014	260.30	261.90	1.60		Drill Core	33.9	12.9	491
MOF-5	SPLIT	17015	261.90	266.55	4.65		Drill Core	56.5	5.3	103.9
MOF-5	SPLIT	17016	266.55	269.70	3.15		Drill Core	19.3	1.4	57.4
MOF-5	SPLIT	17017	269.70	275.40	5.70		Drill Core	7.5	0.4	37.2
MOF-5	SPLIT	17018	275.40	279.50	4.10		Drill Core	51	5.6	20.5

Core Logging Codes

Lithology

Formation	Code
Colluvium	Qc
Alluvium	Qa
Till	Qt
Chilcotin Basalt	Tmc
Chilcotin Basalt Dikes	Tmcd
Eocene Volcanics/volcaniclastics	Tev
Eocene(?) rhyolite dikes	Ter
Takomkane intrusions	Jri (undiff)
	Jrgd (granodiorite)
	Jrmzd(monzodiorite)
	Jrd (diorite)
	Jrt (tonalite)
Nicola Volcanics	Trnv
Nicola Intrusions	Trni (undiff)
	Trqm (qtz monz)
	Trmz (monz)
	Trpmzd(porphyritic monzonite dike)
	Trmzb(Monzonite breccia)
	Trb (basalt dike)
	Trd (diorite)
Nicola Sedimentary Rocks	Trns

Rock Type	Code
Unconsolidated; overburden, soils	Col
Alluvium	Gvl
Till	Till
Basalt	Bas
Tuff, mafic	Mtf
Tuff, felsic	Ftf
Rhyolite	Rhy
Andesite	And
Dacite	Dac
Granite	Gt
Granodiorite	Gd
Tonalite	Ton
Diorite	Dio
Gabbro	Gb
Quartz Monzonite	Qm
Syenite	Sy
Monzonite	Mz
Monzonite breccia	Mzb
Monzodiorite	Mzd
Monzogabbro	Mzg

Meta-andesite	Mand
Meta-basalt	Mbas
Mafic, meta-volcanic bxa, agglom.	Mvbx
Felsic, meta-volcanic breccia	Mfbx
Conglomerate	Cgl
Sandstone	Ss
Siltstone	St
Mudstone	Sh
Sandstone, volcaniclastic, epiclastic	VSs
Siltstone, volcaniclastic, epiclastic	VSt
Argillite	Arg
Phyllite	Phy
Skarn	Sk
Hornfels	Hf
Breccia	Bxa
Fault Rock	FR
Vein	VN

Texture	Code
Fine groundmass, equigranular	F
Medium groundmass, equigran	M
Coarse groundmass, equigran	C
Fine-Porphyritic	FP
Medium-Porphyritic	MP
Coarse-Porphyritic	CP
Foliated	Fol
Brecciated	Bxa
Clastic	Clst

Structure

	Intensity Code
Fault	1, 2, 3
Breccia	1, 2, 3
Infill/Gouge	e.g., clay
Struct_Graphic	orientation of discontinuities

Veins

"B" type Quartz-Sulfide veins	%
"D" type Pyritic veins/veinlets	%
Vein density	% (avg of vein width) X (no. of veins)/given interval

Alteration Type

Alt_1 (dominant)	QSP1, QSP2, QSP3, POT1, POT2, POT3, ARG1, ARG2, ARG3, SIL1, SIL2, SIL3, QMT1, QMT2, QMT3, PROP1, PROP2, PROP3, SK1, SK2, SK3, CSHF1, 2,
Alt_2 (secondary)	where: QSP=quartz-sericite-pyrite; POT=potassic (bio-mt-ksp); ARG=argillic, SIL=silicification; QMT=qtz-mag; PROP=propylitic; SK=skarn, CSHF=calc-silicate hornfels; HF=horn

Alteration Minerals

Mineral species	Relative Abundance
"XXX"	1, 2, 3

Sulfides

Mineral species	Relative Abundance
"XXX"	1, 2, 3

Weathering

Redox State	Code
Oxidized	Ox
Transitional	Trans
Sulfide	Sf

Limonite/Hematite (secondary)	Intensity
	1, 2, 3

Core Recovery = ratio of length recovered/length of core run (meters or feet)

Standards and Blanks

Cu182

Cu184

BLANK

Coast Mountain Geological Ltd.
Drill Hole Cover Sheet

Property: Moffat **Drill Hole:** MOF-1 **Logged By:** R.Parish

Hole Location (proposed)

Datum: 10 U
Easting: 618175
Northing: 5775870
Elevation:

Hole Orientation

Azimuth: 0
Dip: -90

Drill Hole Length (m)

Proposed: 300
Actual: 42.6

Drill Hole Summary

Hole was lost in overburden at 42.6m and was redrilled as MOF-2

Hole Location (actual)

Datum: 10U
Easting:
Northing:
Elevation:

Drilling Information

Contractor: Lyncorp
Core size: NQ
Date started: 11/11/11
Date finished: 11/11/11

				Lithology					Structure				Alteration Type		Veins					Alteration Minerals											Sulfides						Weathering /Alteration			
Hole ID	From (m)	To (m)	Sample #	Formation	Rock Type	Texture	Sketch	Description	Fault	Breccia	Infill/Gouge	Struct_Graphic	Alt Type 1	Alt Type 2	Qtz Vns (B)	Pyritic (D)	Other Vns1	Other Veins2	Vein Density (%	Hydrotherm Bio	Hydrotherm Ksp	Magnetite	Tourmaline	Silica/Quartz	Sericite	Chlorite	Epidote	Calcite	Other Mins	Other Alter	Tot Sulf (%)	Cpy (%)	Bn (%)	Py (%)	Po (%)	Other Sulf	Redox	Hematite	Limonite	% CuOx
MOF-1	0.00	42.60		Qt	Ob			Casing, Sand and gravel dominant overburden/till.																																

Property: Moffat **Drill Hole:** MOF-2 **Logged By:** R.Parish

Hole Location (proposed)

Datum: 10 U
Easting: 618174
Northing: 5775868
Elevation:

Hole Orientation

Azimuth: 0

Dip: -90

Drill Hole Length (m)

Proposed: 300

Actual: 262.7

Hole Location (actual)

Datum: 10U
Easting:
Northing:
Elevation:

Drilling Information

Contractor: Lyncorp
Core size: NQ
Date started: 11/12/11
Date finished: 11/15/11

				Lithology					Structure				Alteration Type		Veins					Alteration Minerals												Sulfides						Weathering /Alteration			
Hole ID	From (m)	To (m)	Sample #	Formation	Rock Type	Texture	Sketch	Description	Fault	Breccia	Infill/Gouge	Struct_Graphic	Alt Type 1	Alt Type 2	Qtz Vns (B)	Pyritic (D)	Other Vns1	Other Veins2	Vein Density (%	Hydrotherm Bio	Hydrotherm Ksp	Magnetite	Tourmaline	Silica/Quartz	Sericite	Chlorite	Epidote	Calcite	Other Mins	Other Alter	Tot Sulf (%)	Cpy (%)	Bn (%)	Py (%)	Po (%)	Other Sulf	Redox	Hematite	Limonite	% CuOx
MOF-2	0.00	67.90		Qt	Ob			Casing, Sand and gravel dominant overburden/till.																																
MOF-2	67.90	74.80		Jrmzd	Mzd	C		Lt gray, coarse grained equigranular monzodiorite to possible granodiorite. Euhedral plag xls to 4mm> euhedral to subhedral K feldspar xls to 4mm> lath-like to stubby hornblend phenos to 6mm> gray, anhedral qtz> anhedral magnetite grains to 2mm. Trace euhedral to subhedral,white-pink elongated diamond shaped sphene(?) phenos to 1mm Rock is generally fresh except for veinlet and fracture controlled epi+qtz+cc+py alteration as veinlets and selvages. Epidote veins have halo of chlorite replacing primary hornblend xls. Trace chalcopyrite in epidote veinlets at 69.5m. Weak limonite on fractures except from 72.3 to 72.7m with pervasive limonite after veinlet and diss pyrite.				69.5m: epi+cpy+py vnlts at 30 dtca; 72.6m: pyritic str repl by lim at 20 dtca;	Prop1	Sil1	0.1	0.1	epi,chl	lim	2			1				1	1				0.2	0.1		0.1			Trans		1
MOF-2	74.80	76.80		Jrmzd	Mzd	C		Same monzodiorite as above with moderate to strong propylitic alteration consisting of epi+qtz veins with broad ksp+epi+/-hem alteration envelopes. White qtz+py veinlets associated with strongest ksp alteration envelopes. Qtz veins surrounded by broad envelopes where chlorite replaces primary mafic minerals. Strong silicification throughout. Late calcite+chl veinlets.				75.4m: qtz+epi vein at 55 dtca; 76m: qtz+py+epi veinlets at 15 dtca; 77m: qtz+epi veins at 35 dtca.	Prop2	Sil2	2	0.2	epi, ksp, cc		4		2	1		2		2	1			0.2			0.2			Sf		
MOF-2	76.80	86.25		Jrmzd	Mzd	C		Fresh, coarse grained equigranular monzodiorite. Gray, glassy plag>k feldspar phenos and generally less than 10 % interstitial qtz. Fresh, euhedral hbld+bio. <1% magnetite grains and <1% euhedral white to tan sphene phenos. Trace disseminated and veinlet pyrite. Scattered epidote veinlets and veins to 1cm with epi+/-ksp alteration halos. Mafic minerals altered to chlorite adj to epidote veins.				78.35m: epi+qtz+chl vein at 45 dtca; 80.9m: epi+py+ksp veins at 20 dtca; 84m: qtz+py+chl vn at 20 dtca.	Fresh	Prop1	0.1	0.1	epi, ksp, cc	cc	1		1	2	1	1		1	1	tr		0.1			0.1			Sf		
MOF-2	86.25	89.80		Jrmzd	Mzd	C		Same coarse grained equigranular monzodiorite but with moderate propylitic alteration consisting of pervasive ksp alteration of k-feldspar xls and abundant epidote veinlets. Strong silicification. Network of fine, dark green-gray chl veinlets. Mafic mins largely altered to chlorite. Sparse qtz+epi veins. Black tourmaline vein at 87.35m w/ silicified hangingwall .				86.45m: epi+qtz vein at 35 dtca; 87.35m: tourmaline vein at 70 dtca;	Prop2	Sil2	0.1	0.1	epi, chl, tour	cc	5		2	1	1	2		1	2	tr		0.2			0.2			Sf		
MOF-2	89.80	93.70		Jrmzd	Mzd	C		Fresh, coarse grained, equigranular monzodiorite. Gray, glassy plag>k feldspar phenos and generally less than 10 % interstitial qtz. Fresh, euhedral hbld+bio. <1% magnetite grains and <1% euhedral white to tan sphene phenos. Trace disseminated and veinlet pyrite. Rock is quite hards and appears silicified. 91.5 to 91.9m, epi+qtz veinlets with broad dark green-gray chl+/- ksp replacement halos. Chl replaces mafic mins and ksp replaces feldspar xls. Trace disseminated cpy grains at 91.8m. Elsewhere, scattered epidote veinlets and sparse chlorite veinlets.				91.8m: qtz+epi vnlts at 45 dtca.	Sil2	Prop1	0.1	0.1	epi, chl, tour		2			2			tr	1	tr			0.2	0.1		0.1			Sf		
MOF-2	93.70	121.40		Jrmzd	Mzd	C		Gray, coarse grained equigranular monzodiorite. Most of interval is fresh, but up to 20% has moderate vein related propylitic alteration emanating from fracts and epi+qtz veins, generally from 35 to 50 degrees tca. Strongest zones have epi+qtz veins with proximal ksp and more distal epidote alteration, and dark gray-green chl replaced mafic mins. Numerous sub parallel dark gray chl veinlets. Strongest zone of propylitic altn from 95.9 to 97.5m. Elsewhere occurs as 5 to 40 cm wide zones of epi+chl+ksp+ silica+/-py veinlets. 106.75 to 110.7m, 30 % of interval has vein related propylitic alteration consisting of qtz+epi veins surrounded by proximal ksp and distal epi+chl+silica+py alteration halos. 118.95 to 119.120.2m, numerous chlorite+calcite +hematite lined fractures and faults at low core angles.				96.2m: cc vn w/ ksp envelope at 5 dtca; 97.2m: epi+cc+ksp vn at 15 dtca; 99.75m: cc vnlt w/ ksp envelope at 0 dtca; 102.6m: epi+chl+ silica+ py vnlts at 35 dtca; 108.9m: qtz+epi +py vn at 45 dtca: 112.2m: chl+qtz vnlts at 50 dtca; 119.2m: flt/fracts at 5 dtca.	Prop1		0.1	0.1	epi, chl, cc	ksp		4	tr	2	tr	1		1	1	1					0.3			Sf		

				Lithology					Structure				Alteration Type		Veins					Alteration Minerals													Sulfides						Weathering /Alteration			
Hole ID	From (m)	To (m)	Sample #	Formation	Rock Type	Texture	Sketch	Description	Fault	Breccia	Infill/Gouge	Struct_Graphic	Alt Type 1	Alt Type 2	Qtz Vns (B)	Pyritic (D)	Other Vns1	Other Veins2	Vein Density (%	Hydrotherm Bio	Hydrotherm Ksp	Magnetite	Tourmaline	Silica/Quartz	Sericite	Chlorite	Epidote	Calcite	Other Mins	Other Alter	Tot Sulf (%)	Cpy (%)	Bn (%)	Py (%)	Po (%)	Other Sulf	Redox	Hematite	Limonite	% CuOx
MOF-2	121.40	140.75		Jrmzd	Mzd	C		Gray, coarse grained equigranular monzodiorite to possible granodiorite. Euhedral plag xls to 4mm> euhedral to subhedral K feldspar xls to 4mm> lath like to stubby hornblende phenos to 6mm> gray, anhedral qtz> anhedral magnetite grains to 2mm. Trace euhedral to subhedral sphene xls to 1mm and magnetite grains, often associated with hornblende xls. Dark gray mafic xenoliths to 5cm. Rock is generally fresh but has 25% bands of moderate, vein related propylitic alteration consisting of epi+qtz+/-py veins surrounded by black silica+chlorite alteration halos. Ksp alteration immediately adjacent to some epidote veins. Intervening rock has scattered epidote veinlets and minor black chl+silica veinlets and fracture fill. Sparse gray qtz+py veins associated with stronger propylitic alteration. Trace disseminated pyrite except in propylitic bands with locally 2% disseminated and veinlet py. 128.9 to 132.5m, 40% of interval is propylitic altered bands and epidote veins.				123.7m: epi+qtz+py vein at 50 dtca; 129m: epi+qtz+py vnlts at 70 dtca; 137.15m: cc veins w/ broad ksp envl at 25 dtca;	Prop1		0.1	0.2	epi,chl+ silica, cc		4		tr		1		1		2	1	tr				0.3			Sf			
MOF-2	140.75	154.53		Jrmzd	Mzd	C		Same coarse grained monzodiorite as previous interval, but with increased chl+silica veinlets and generally decreased epidote veinlets and envelope alteration. Chlorite veinlets tend to form sheeted fracture fill veinlets, often with pyrite, and increase in density appoaching epi+qtz+/-ksp veins. Increased veinlet and disseminated pyrite. Trace chalcopyrite as blebs in epidote veins and areas of strongest chl alteration. Late calcite veins at low core angles cut chl veins and have ksp alteration envelopes.				143.4m: chl+py+silica vnlts at 40 dtca; 146.25m: chl+epi vns at 55 dtca; 149.1m: epi+cpy vn at 45 dtca; 154.4m: epi+chl vn at 35 dtca.	Prop1			0.2	chl, epi, cc		8	tr		1	1		1		1	1	tr			0.4	0.1	0.3		Sf			
MOF-2	154.53	164.45		Jrmzd	Mzd	C		Generally fresh, gray coarse grained monzodiorite with sparse epidote+/-qtz+/-py>>cpy veins and veinlets. Narrow envelopes of proximal epidote+/-actinolite and more distal chlorite as veinlets and replacement of mafic minerals. Very sparse calcite veinlets with narrow ksp alteration envelopes cut epidote veins. <0.3% disseminated and veinlet pyrite and trace cpy in epidote veins.				156m: epi+py+chl vn at 60 dtca; 160.6m: cc vn w/ ksp env at 25 dtca; 161.6m: epi+chl+py vnlts at 45 dtca.	Prop1		0.1	0.2	epi, chl, cc		3	tr		tr		1			1	1	tr	Actinolite		0.4	0.1	0.3		Sf			
MOF-2	164.45	172.25		Jrmzd	Mzd	C		Same monzodiorite as above but with less abundant epidote+chl+py veins and increased, though still sparse k-feldspar and calcite +/- py veinlets with ksp alteration envelopes to 4cm wide. Trace veinlet chalcopyrite. 165.55m, 4cm wide gray qsp altered envelope adj to qtz+py vein at 65 degrees tca. Below 171.3m several py+qtz+cc vns with texture muted qsp altered envelopes.				165.9m: ksp veinlet at 30 dtca; 171m; cc+ksp vein at 20 dtca; 171.85m: qtz+py vns at 65 dtca.	Prop1	Qsp1	0.1	0.1	epi, chl, ksp, cc		2	tr		1	1		1	1	1	1	tr			0.3	0.1	0.2		Sf			
MOF-2	172.25	176.25		Jrmzd	Mzd	C		Magmatic breccia consisting of dark gray, rounded, fine grained equigranular intrusive clasts in typical coarse grained monzodiorite matrix. Clasts have weak to locally moderate potassic alteration (bio+mt) and veinlet and disseminated pyrite. Both clasts and matrix have euhedral sphene(?) phenos seen in fresh monzodiorite, so may be same magma source. Interval is cut by numerous qtz+/- cpy vns and epi+qtz+/-cpy veins with broad potassic alteration halos(bio+mt+ksp). Broad envelopes of disseminated epidote adj to some qtz+epi veinlets. 1% disseminated and veinlet pyrite and <0.25% vn hosted and diss cpy.				174m: qtz+cpy vn at 35 dtca; 176.1m: py+cc+qtz vnlts at 45 dtca.	Pot2	Prop1	0.2	0.1	bio, epi, cc, chl		6	2	1	1		1			1	1	tr			0.9	0.2	0.7		Sf			
MOF-2	176.25	180.30		Jrmzd	Mzd	C		Greenish gray to gray, coarse grained, equigranular monzodiorite. Pervasive texture muting propylitic alteration (chl+epi+hem) fading below 179m. Below 179m abundant wispy black chl+/-py veinlets with weak disseminated epidote in walls.				177.2m: cc veinlets at 5 dtca; 179m: chl+py vnlts at 20 dtca.	Prop2			0.2	chl, epi, cc		4	1	1	1		1		1	1	tr			0.4		0.4		Sf			
MOF-2	180.30	184.85		Jrmzd	Mzd	C		Gray, equigranular, coarse grained monzodiorite as previous but without pervasive propylitic alteration. Continued, though less abundant wispy black chlorite or biotite +py veinlets and sparse epidote veinlets. Trace chalcopyrite in bio+py+chl veinlets at 184.3m.				182.25m: bio+py vnlts at 20 dtca	Pot1	Prop1		0.1	chl, bio, epi, cc		3	1			1	1			1	tr	tr			0.4	0.1	0.3		Sf			
MOF-2	184.85	190.70		Jrmzd	Mzd	C		Dark gray to pink, coarse grained, equigranular monzodiorite with strong potassic alteration consisting of almost complete replacement of k- feldspar xls by pink secondary k-feldspar . Abundant black, anastamosing, wispy bio+mt+silica veinlets, often coalescing to form alteration breccia texture. Locally strong silicification. Trace epidote as narrow envelopes adj to some py vns. Dark gray quartz veins. 1% disseminated and veinlet pyrite and <0.5% disseminated and veinlet cpy. Abrupt, gradational end to potassic alteration at lower contact.				187m: calcite vein lined fracts at 0 to 5 dtca; 190.6m: qtz+py+cpy vein at 45 dtca w/ str silic'd walls.	Pot3	Sil2	1	0.4	bio+mt cc		15	3	2	2		2		tr	tr	tr			1.4	0.4	1		Sf			

				Lithology					Structure				Alteration Type		Veins				Alteration Minerals														Sulfides						Weathering /Alteration			
Hole ID	From (m)	To (m)	Sample #	Formation	Rock Type	Texture	Sketch	Description	Fault	Breccia	Infil/Gouge	Struct_Graphic	Alt Type 1	Alt Type 2	Qtz Vns (B)	Pyritic (D)	Other Vns1	Other Veins2	Vein Density (%	Hydrotherm Bio	Hydrotherm Ksp	Magnetite	Tourmaline	Silica/Quartz	Sericite	Chlorite	Epidote	Calcite	Other Mins	Other Alter	Tot Sulf (%)	Cpy (%)	Bn (%)	Py (%)	Po (%)	Other Sulf	Redox	Hematite	Limonite	% CuOx
MOF-2	190.70	201.45		Jrmzd	Mzd	C		Gray, coarse grained, equigranular monzodiorite. Rock is fresh except for weak to locally moderate chlorite or bio+/-epi+/-silica+/-py veinlets, often sheeted at 35 to 50 degrees tca. Weak chl+/-epi alteration envelopes around veinlets. Rock is very hard and possibly silicified. 197.4 to 197.5m, sheeted bio+mt or chl veinlets w/ 2% disseminated py and 1% diss cpy. 200.55 to 200.85m, 1cm qtz+ser+py vn at 20 degrees tca with strong foliated bio+m+silica t veinlets in walls.				192m: sheeted chl+py+epi vnlts at 40 dtca; 198m: py+cc+qtz vnlt at 30 dtca w/ silic'd walls. 200.7m: qtz+ser+py vn w/ foliated/ veined walls at 20 dtca.	Pot1	Prop1	0.1	0.1	bio+mt, chl	cc	3		1	1	1	tr	1	tr	tr			0.4	0.1		0.3			Sf			
MOF-2	201.45	239.88		Jrmzd	Mzd	C		Gray, coarse grained, equigranular monzodiorite. Scattered dark gray, fine to medium grained, equigranular intrusive xenoliths to 10cm. Monzodiorite is generally fresh, with glassy feldspar phenos and unaltered mafic minerals except surrounding very sparse chlorite+/- epidote veins where mafic minerals are weakly altered to chlorite, and feldspars locally take on greenish hue. Narrow pink ksp alteration envelopes adjacent to very sparse calcite veinlets. Trace disseminated pyrite except where more abundant adjacent to sparse epi or qtz veins. 218 to 218.7m, abundant black chl+silica veinlets with disseminated py and epidote altered walls. 225.9m, qtz+py vn w/ narrow silica+ sericite+ksp altered envelope and abundant chl+ vnlts in hanging wall with disseminated epidote.				205m: chl+epi+silica veins at 20 dtca; 218.2m: chl+ epi +py vnlts at 15 dtca, 225.9m: qsp altered envelope adj to qtzpy vein at 45 dtca;	Fresh	Prop1	0.1	0.1	chl, epi, cc		1		tr	2	1		tr	tr	tr			0.2			0.2			Sf			
MOF-2	239.88	242.00		Jrmzd	Mzd	C		Greenish and pinkish gray, coarse grained, equigranular monzodiorite with pervasive pink ksp and green epidote alteration. This is locally overprinted by gray, texture muting quartz-sericite-pyrite alteration as broad envelopes adjacent to qtz+py veins, esp at 240.4m. Rock is fractured with pale green chlorite or sericite on fracts.				240.4m: qtz+py+ser vn at 30 dtca; 241.3m: chl lined fracts at 10 dtca.	Prop2	Qsp1	0.2	0.3	chl, cc, epi		2		2	1		1	1	1	1			0.3			0.3			Sf			
MOF-2	242.00	246.90		Jrmzd	Mzd	C		Gray, coarse grained equigranular monzodiorite. Fresh except for partial replacement of mafic minerals by epidote and chlorite. 10 cm wide band of epi+ksp+py alteration forming envelope adj to qtz+py vn at 244.3m Hanging wall to this has calcite+albite vein at low core angle with narrow albitic envelope.				243.8m: calcite+albite+qtz vnlt at 0 dtca; 244.3m; qtz+py vnlts at 30 dtca.	Prop1		0.1		cc, chl, epi, alb		0.5		tr	2			tr	tr	tr	Albite		0.2			0.2			Sf			
MOF-2	246.90	249.10		Jrmzd	Mzd	C		Same coarse grained monzodiorite as above with moderate veinlet controlled propylitic alteration consisting of epi+chl+/-ksp alteration adjacent to cc+py+/-qtz veins. Locally abundant black sheeted chl+py veinlets. Pervasive silication. 0.5% disseminated py in propylitically altered bands.				247m: cc+py vn at 30 dtca; 247.8m: cc+py vn w/ ksp envelope at 40 dtca; 249.1m: 2cm cc vein at 20 dtca.	Prop2	Sil1			cc, chl, epi, alb		7	tr	1	1	1		1	1	1			0.3			0.3			Sf			
MOF-2	249.10	253.10		Jrmzd	Mzd	C		Fresh, coarse grained, equigranular monzodiorite. Local, very weak replacement of mafic minerals by chlorite+/- py. Very minor chl+silica+py veinlets. Magnetic from primary magnetite grains.										chl, cc		0.2		tr	2			tr						0.1			0.1			Sf			
MOF-2	253.10	254.60		Jrmzd	Mzd	C		Coarse grained equigranular monzodiorite with mod to strong ksp alteration as broad envelopes adjacent to cc+/- hematite veins. Trace epidote after hornblend.				254m: cc+hem veins at 25 dtca.	Prop2				cc, hem, chl		2		2	1				tr	tr	tr	Hematite		0.1			0.1			Sf	tr		
MOF-2	254.60	262.70		Jrmzd	Mzd	C		Gray, coarse grained equigranular monzodiorite. Fresh except for narrow ksp+/-epi+/-chl alteration envelopes adjacent to sparse, scattered calcite+/-ksp and chlorite+py veinlets. Ksp alteration favors calcite+ksp veinlets. Primary magnetite grains.				256.4m: ksp vnlt at 30 dtca; 259.6m: chl+py vnlt at 25 dtca; 262m: chl+py+ksp vein at 20 dtca.	Fresh	Prop1			cc, ksp, chl+py		0.5		tr	2			tr	tr	tr			0.2			0.2			Sf			
End of Hole		262.70																																						

HOLE ID	FROM	TO	LENGTH	RECOVERY (m)	RECOVERY %	RQD (m)	RQD %
MOF-2	66.00	67.90	1.90	Overburden			
MOF-2	67.90	69.19	1.29	1.20	93	0.24	20
MOF-2	69.19	72.24	3.05	2.95	97	1.31	44
MOF-2	72.24	75.29	3.05	3.07	101	1.15	37
MOF-2	75.29	78.33	3.04	2.75	90	1.83	67
MOF-2	78.33	81.38	3.05	3.08	101	2.74	89
MOF-2	81.38	84.43	3.05	3.04	100	2.44	80
MOF-2	84.43	87.48	3.05	3.06	100	2.54	83
MOF-2	87.48	90.53	3.05	3.02	99	2.51	83
MOF-2	90.53	93.57	3.04	3.01	99	2.85	95
MOF-2	93.57	96.62	3.05	3.07	101	3.07	100
MOF-2	96.62	99.67	3.05	3.04	100	2.84	93
MOF-2	99.67	102.72	3.05	3.00	98	3.00	100
MOF-2	102.72	105.77	3.05	3.04	100	3.04	100
MOF-2	105.77	108.81	3.04	3.03	100	3.03	100
MOF-2	108.81	111.86	3.05	3.00	98	3.00	100
MOF-2	111.86	114.91	3.05	3.07	101	2.91	95
MOF-2	114.91	117.96	3.05	3.03	99	3.03	100
MOF-2	117.96	121.01	3.05	3.01	99	1.82	60
MOF-2	121.01	124.05	3.04	2.94	97	2.69	91
MOF-2	124.05	127.10	3.05	3.04	100	3.04	100
MOF-2	127.10	130.15	3.05	3.06	100	3.06	100
MOF-2	130.15	133.20	3.05	3.05	100	2.52	83
MOF-2	133.20	136.25	3.05	3.03	99	2.56	84
MOF-2	136.25	139.29	3.04	2.98	98	2.98	100
MOF-2	139.29	142.34	3.05	2.85	93	2.46	86
MOF-2	142.34	145.39	3.05	3.03	99	2.97	98
MOF-2	145.39	148.44	3.05	2.94	96	2.84	97
MOF-2	148.44	151.49	3.05	2.91	95	2.91	100
MOF-2	151.49	154.53	3.04	3.10	102	3.10	100
MOF-2	154.53	157.58	3.05	3.25	107	3.21	99
MOF-2	157.58	160.63	3.05	2.97	97	2.97	100
MOF-2	160.63	163.68	3.05	3.00	98	3.00	100
MOF-2	163.68	166.73	3.05	3.06	100	3.06	100
MOF-2	166.73	169.77	3.04	2.99	98	2.99	100
MOF-2	169.77	172.82	3.05	3.11	102	2.60	84
MOF-2	172.82	175.87	3.05	3.01	99	2.12	70
MOF-2	175.87	178.92	3.05	3.06	100	1.55	51
MOF-2	178.92	181.97	3.05	3.04	100	2.70	89
MOF-2	181.97	185.01	3.04	2.98	98	1.97	66
MOF-2	185.01	188.06	3.05	3.10	102	2.12	68
MOF-2	188.06	191.11	3.05	3.08	101	2.22	72
MOF-2	191.11	194.16	3.05	3.01	99	3.01	100
MOF-2	194.16	197.21	3.05	3.07	101	3.00	98
MOF-2	197.21	200.25	3.04	3.03	100	2.86	94
MOF-2	200.25	203.30	3.05	3.04	100	2.70	89
MOF-2	203.30	206.35	3.05	2.95	97	2.84	96

HOLE ID	FROM	TO	LENGTH	RECOVERY (m)	RECOVERY %	RQD (m)	RQD %
MOF-2	206.35	209.40	3.05	3.18	104	3.18	100
MOF-2	209.40	212.45	3.05	3.05	100	3.05	100
MOF-2	212.45	215.49	3.04	3.07	101	3.07	100
MOF-2	215.49	218.54	3.05	3.08	101	3.08	100
MOF-2	218.54	221.59	3.05	3.02	99	3.02	100
MOF-2	221.59	224.64	3.05	3.06	100	3.06	100
MOF-2	224.64	227.69	3.05	3.04	100	2.88	95
MOF-2	227.69	230.73	3.04	3.07	101	3.00	98
MOF-2	230.73	233.78	3.05	3.00	98	2.94	98
MOF-2	233.78	236.83	3.05	2.97	97	2.97	100
MOF-2	236.83	239.88	3.05	3.10	102	2.96	95
MOF-2	239.88	242.93	3.05	3.00	98	1.85	62
MOF-2	242.93	245.97	3.04	3.02	99	2.18	72
MOF-2	245.97	249.02	3.05	3.02	99	2.61	86
MOF-2	249.02	252.07	3.05	3.01	99	2.51	83
MOF-2	252.07	255.12	3.05	3.08	101	2.55	83
MOF-2	255.12	258.17	3.05	3.06	100	2.81	92
MOF-2	258.17	261.21	3.04	3.05	100	2.96	97
MOF-2	261.21	262.70	1.49	1.61	108	1.55	96

Datum:	10 U	Azimuth:	0	Proposed:	300
Easting:	618853				
Northing:	5774782	Dip:	-90	Actual:	276.45
Elevation:					

Hole Location (actual) **Drill Hole Summary**

Datum:	10U
Easting:	
Northing:	
Elevation:	

Drilling Information

Contractor:	Lyncorp
Core size:	NQ
Date started:	11/16/11
Date finished:	11/19/11

				Lithology					Structure				Alteration Type		Veins					Alteration Minerals											Sulfides						Weathering / Alteration			
Hole ID	From (m)	To (m)	Sample #	Formation	Rock Type	Texture	Sketch	Description	Fault	Breccia	Infil/Gouge	Struct_Graphic	Alt Type 1	Alt Type 2	Qtz Vns (B)	Pyritic (D)	Other Vns1	Other Veins2	Vein Density (%	Hydrotherm Bio	Hydrotherm Ksp	Magnetite	Tourmaline	Silica/Quartz	Sericite	Chlorite	Epidote	Calcite	Other Mins	Other Alter	Tot Sulf (%)	Cpy (%)	Bn (%)	Py (%)	Po (%)	Other Sulf	Redox	Hematite	Limonite	% CuOx
MOF-3	0.00	12.10		Qt	Till			Casing, sand and gravel till.																															
MOF-3	12.10	17.00		Jrmz	Mz	M		Gray, medium grained equigranular intermediate intrusive-probable monzonite to monzodiorite. Roughly equal proportions of gray, euhedral to subhedral plag xls to 4mm and gray to white euhedral k-feldspar xls to 4mm. <10% combined hornblend xls to 3mm and biotite xls to 2mm. Generally less than 10% anhedral gray quartz but often difficult to discern from feldspar crystals. Rock is weakly magnetic from submm primary magnetite grains. Rock appears fresh, but feldspar xls often somewhat clouded. Limonite on fractures.					Fresh		0.1		cc+lim		0.2			1						tr					0.1		0.1			Trans		tr	
MOF-3	17.00	24.40		Jrmz	Mz	M		Same medium grained monzonite but with weak propylitic alteration in form of local epidote replacement of hornblende xls and chlorite replacing biotite . Sparse epi+chl +py veinlets and ksp+cc veinlets at 21.5m. Increased disseminated and veinlet py(0.4%) and trace cpy with epidote veinlet at 24.0m. Abundant brass on core surface from 17.4 to 19.3m due to bit wear ring.				20.5m: chl+cc+py vnlt at 55 dtca; 21.5m: ksp+cc veinlets at45 dtca	Fresh	Prop1		0.1	chl, epi, ksp, cc		0.3		tr	1				tr	tr	tr			0.3		0.3			Trans		tr	
MOF-3	24.40	35.00		Jrmz	Mz	M		Gray, medium grained equigranular monzonite as previous. Fresh except for very rare epidote replaced hornblend xls. <0.5% white euhedral sphene phenos to <1mm. Interval from 27.8 to 32.75m has narrow alb+/ksp+cc veinlets spaced every 35cm, with narrow ksp+/-alb alteration envelopes.				28.2m: ksp+cc vnlts at 30 dtca; 32.6m: ksp+py+cc vn at 15 dtca.	Fresh	Prop1		0.1	ksp, alb, chl, cc		2		tr	1				tr		tr	Alb		0.2		0.2			Sf			
MOF-3	35.00	39.30		Jrmzp	Mzp	MP		Gray, porphyritic quartz monzonite. Medium grained, equigranular groundmass of equal plag and k feldspar xls to 3mm. <5% biotite to 1mm and hornblende xls to 4mm. Up to 15% lt gray, coarser grained k-feldspar and lesser plag phenocrysts to 6mm. 1% disseminated pyrite. Hornblende often altered to epidote+chl+py. Rock textures muted by possible sericite alteration. Non magnetic and lacks sphene phenos. Interval includes several, fine grained plag and hornblende phyric dikes to 30cm, with fine grained to aphanitic groundmass.				39.3m: sharp lower dike ctc at 15 dtca.	Prop1	Ser1		0.1	cc, epi		0.1						1	tr	tr	tr	Ser		0.4		0.4			Sf			
MOF-3	39.30	51.20		Jrmz	Mz	M		Gray, medium grained, equigranular monzonite. Roughly proportional k feldspar and plag xls and <5% interstitial quartz. 10% hornblende, often altered to chl+/-epi and <5% euhedral biotite (weak prop altn). Weakly magnetic from disseminated magnetite grains. <0.3% disseminated and veinlet pyrite and trace disseminated cpy grains seen. Scattered minor chl+py+/-cc +/-epi veinlets with bleached(albite?) envelopes. Texture muting, gray sericite alteration adj to epi+chl+py veinlets at 50.0 to 50.5m.				40.2m: chl+cc vnlts at 5 dtca; 45.1m: chl+epi+py vnlts at 40 dtca;	Prop1	Ser1		0.1	chl, epi, cc	alb	0.3			1		tr	tr	tr	tr	tr	Alb		0.4	0.1	0.3			Sf			
MOF-3	51.20	68.95		Jrmz, Jrmzp	Mz, Mzp	M, MP		Gray, medium grained, equigranular monzonite(?). Roughly equal plag and k feldspar xls to 3mm and <5% hornblende and biotite xls to 2m, but locally to 5mm. Rock becomes gradually porphyritic below 63m with larger feldspar phenos in equigranular groundmass. Phenos become smaller and groundmass finer grained (chilled) approaching lower intrusive contact. Rock is fresh except for partial chlorite+/-epidote alteration of mafic minerals and bronzing of biotite. Very sparse chl+cc+/-py veinlets with somewhat bleached and locally ksp altered walls. Single 1.5cm wide white chalcedonic qtz vein at 60.9m with chl selvages.				54.8m: chl+py+cc vn w/ ksp altered walls at 30 dtca; 60.9m: white qtz vn at 15 dtca; 65.25m: chl +py +epi vnlts at 25 dtca; 68.95m: irregular intrusive ctc at 5 dtca.	Fresh	Prop1	0.1	0.1	chl, epi, cc, alb		0.2		tr	1				tr	tr		Alb		0.2		0.2			Sf			
MOF-3	68.95	77.75		Jrmzd	Mzd	C		Gray, equigranular, medium to coarse grained monzodiorite. Lath shaped to more equant plagioclase phenos and lesser equant K feldspar phenos. 20% aggregates of coarse grained hornblende xls, locally somewhat flow aligned. Minor biotite. Feldspar phenos generally fresh. Hornblende occasionally altered to green actinolite(?) and chlorite and rarely epidote, though feldspar phenos are fresh except in areas of vein envelope alteration. <0.25% disseminated and veinlet pyrite and trace cpy grains, usually associated with chl+epi veins or qtz+ksp veinlets. 70 to 71.2m, several gray qtz+alb veins w/ foliated(50 degrees tca) qsp altered walls and pink cross cutting ksp veinlets. 74.3m to 75.7m, zone of increased propylitic alteration w/ pervasive ksp+chl+/-epi and local silicification.				70.4m: qtz vns w/ foliated walls at 50 dtca;	Prop1	Pot1	0.2	0.1	cc, ksp,alb	chl	3	1	1	1		1	tr	tr		1	tr	Alb		0.3	0.1	0.2			Sf			

				Lithology					Structure				Alteration Type		Veins				Alteration Minerals												Sulfides						Weathering / Alteration			
Hole ID	From (m)	To (m)	Sample #	Formation	Rock Type	Texture	Sketch	Description	Fault	Breccia	Infil/Gouge	Struct_Graphic	Alt Type 1	Alt Type 2	Qtz Vns (B)	Pyritic (D)	Other Vns1	Other Veins2	Vein Density (%	Hydrotherm Bio	Hydrotherm Ksp	Magnetite	Tourmaline	Silica/Quartz	Sericite	Chlorite	Epidote	Calcite	Other Mins	Other Alter	Tot Sulf (%)	Cpy (%)	Bn (%)	Py (%)	Po (%)	Other Sulf	Redox	Hematite	Limonite	% CuOx
MOF-3	77.75	90.53		Jrmzd	Mzd	C		Same coarse grained equigranular monzodiorite. Generally fresh, glassy feldspar xls. Hornblend xls appear fresh to locally replaced by chl. Common (2 to 3 per meter) pink ksp+/-qtz+py vnlts w/ pink ksp+/-alb alteration envelopes. Trace chalcopyrite occurs with qtz+ksp veins and as disseminated grains and veinlets in fresh monzodiorite. 89.7 to 90.5m, 2cm wide py+chl+cc vein at 2 degrees tca w/ 20% pyrite.				78.5m: ksp+qtz+cpy vnlts at 20 dtca; 89.7m; py+chl+cc vn at 2 dtca.	Pot 1		0.1	0.1	ksp, cc, chl		2	1	1	1			tr		tr			0.8	0.2		0.6			Sf			
MOF-3	90.53	105.35		Jrmzd	Mzd	M		Gray, medium to coarse grained monzodiorite. Generally fresh with glassy feldspar phenos though hornblende is usually replaced by chlorite or possibly green biotite. Locally abundant chl+/-epi+py veinlets and with narrow to locally broad, pervasive chl+/-sericite alteration halos. Other veinlets with albite+/-hematite alteration envelopes. Scattered, diffuse margined white quartz veins cut by later chl+py vnlts. Trace disseminated chalcopyrite grains. 90.53 to 92.5m, numerous chl+py vnlts w proximal chl alteration and more broad alb or sericite bleached envelopes. 100.7 to 103.1m, abundant chl+py+/-epi +/-ser+hem veins with bleached envelopes. Trace chalcopyrite.				92m: chl+epi+py vn at 15 dtca; 100.82m: chl+epi+py vns at 30 dtca; 101,8m: chl+qtz+ser+hem vns at 25 dtca.	Prop1	Alb1	0.2	0.1	chl, epi, cc, ser		4	1	tr		1		tr		1	tr	tr	Alb		0.4	0.1		0.3			Sf	tr		
MOF-3	105.35	110.45		Jrmzd	Mzd	M		Gray, medium to coarse grained equigranular monzodiorite. Generally fresh but with intervals of weak albite alteration of feldspar phenos and chlorite altered hornblend xls Feldspar xls still glassy but clouded. Remainder has broad albite and sericite altered halos adj to alb+mt+hem vns and minor epidote veins. Trace disseminated chalcopyrite, often occuring as disseminated grains in fresher monzodiorite. 105.35 to 107.8m, zone of chl+py and ser+hem veinlets and later albite vein with broad albite and sericite altered envelope.				105.8m: alb vn at 0 dtca;	Alb1	Ser1		0.2	Chl, mt+hem, ser, alb		2				1		1	tr	tr	Alb		0.5	0.1		0.4			Sf		1	
MOF-3	110.45	115.45		Jrmzd	Mzd	M		Same monzodiorite as previous but with broad pervasive albite+hematite and more proximal ksp alteration halos adj to cc+chl+py and ksp veinlets. In less altered rock mafic minerals are often altered to chlorite. 113.9m, several sericite+py+cc veins with broad ksp + ser+hem halos.				110.8m: ksp+cc veinlets at 50 dtca; 113.9m: ser+py+cc veins at 60 dtca.	Ser1	Pot1		0.2	ser+py, cc, ksp		4	1	1	1			1	tr		tr			0.3	0.1		0.2			Sf			1
MOF-3	115.45	127.55		Jrmzd	Mzd	M		Medium to coarse grained equigranular monzodiorite. Fresh, with <0.2% disseminated and veinlet py and a few grains of chalcopyrite. Fresh primary biotite and weakly chloritized hornblende xls. Broad intervals of weak to mod propylitic alteration as noted. 123 to 124.1m, weak pervasive chl+ser alteration as broad halo adj to py+chl+cc veinlets. 125.55 to 127.5m, broad pervasive alb+hem and alb alteration as halo around alb+/-qtz+cc veinlets. Two gray quartz veins at 125m cut by later chl+py veinlets.				123.5m chl+py+cc vn at 20 dtca; 125.1m 2cm gray qtz vein at 45 dtca;	Alb1	Ser1	0.1	0.2	alb, cc, chl		3		1	2			1			tr	Alb		0.2			0.2			Sf		tr	
MOF-3	127.55	138.15		Jrmzd	Mzd	M		Gray, medium to coarser grained equigranular monzodiorite. Generally fresh with <0.2% disseminated and veinlet py and a few grains of chalcopyrite. Fresh primary biotite and weakly chloritized hornblende xls. Scattered minor cc+ksp+py veinlets with narrow ksp alteration envelopes.				130.8m: cc vnlt at 0 dtca; 134.3m: py+ser vn at 75 dtca	Fresh	Pot1		0.1	cc, ksp, chl		1		1	2			tr	tr				0.3	0.1		0.2			Sf			
MOF-3	138.15	140.55		Jrmzd	Mzd	M		Medium grained monzodiorite with strong quartz+sericite+py alteration centered on several gray silica bands or veins at 40 degrees to core axis . Strongly sheared/foliated wall rocks with str QSP alteration. Local dark maroon color from hematite alteration. Cross cutting albite veinlets.				Strong shear foliation at 40 degrees tca.	Qsp3			3	ser, chl,alb		5				1	3	1			Alb		0.3			0.3			Sf		1	
MOF-3	140.55	161.65		Jrmzd, Jrmzdp	Mzd, Mzdp	M		Gray, medium to coarse grained, equigranular monzodiorite. Mostly fresh with glassy feldspar xls and unaltered to weakly chloritized hornblende xls. Fresh biotite xls. Trace disseminated and veinlet pyrite and a few grains of disseminated chalcopyrite. Med grained feldspar porphyry dike from 158.55 to 160m with chl+py veinlets and weak sericite alteration. Local minor cc+py veins with narrow pink ksp or albite+hematite alteration envelopes. Local chl+py+cc veinlets and veins with bleached (ser or alb) envelopes and chlorite altered hornblend xls. 146.9 to 147.2m, calcite vein at 10 dtca w/ strong chlorite alt envelope. Several grains of disseminated chalcopyrite from 152.3 to 154m associated with 0.2% disseminated and veinlet pyrite.				141.75m: cc vn at 45 dtca w/ ksp alt halo; 146.7m: chl+py vn at 0 dtca;148.5m: qtz vnlts at 30 dtca;	Fresh	Prop1	0.1	0.1	chl+py, cc, ksp		2		tr	2		1	tr		1	tr			0.3	0.1		0.2			Sf			

				Lithology					Structure				Alteration Type		Veins					Alteration Minerals														Sulfides						Weathering / Alteration			
Hole ID	From (m)	To (m)	Sample #	Formation	Rock Type	Texture	Sketch	Description	Fault	Breccia	Infil/Gouge	Struct_Graphic	Alt Type 1	Alt Type 2	Qtz Vns (B)	Pyritic (D)	Other Vns1	Other Veins2	Vein Density (%	Hydrotherm Bio	Hydrotherm Ksp	Magnetite	Tourmaline	Silica/Quartz	Sericite	Chlorite	Epidote	Calcite	Other Mins	Other Alter	Tot Sulf (%)	Cpy (%)	Bn (%)	Py (%)	Po (%)	Other Sulf	Redox	Hematite	Limonite	% CuOx
MOF-3	161.65	164.65		Jrmzdp	Mzdp	FP		Gray, fine grained porphyry dike consisting of fine grained equigranular feldspar and hornblend groundmass and 20% white rounded to equant feldspar phenos to 3mm. Non magnetic. Weak to moderate texture muting sericite alteration and epi replacing hornblende phenos. Trace disseminated py. Calcite veinlets. Sharp upper and lower contacts with chilled margins.				Sharp upper ctc at 80 dtca, sharp lower ctc at 60 dtca.	Ser1				cc	0.2		tr			1		tr	tr				0.1		0.1			Sf			
MOF-3	164.65	188.06		Jrmzd	Mzd	C		Gray, medium to coarse grained monzodiorite. Feldspar xls fresh and glassy, but hornblende xls partially altered to chl or dark green biotite. Trace to <0.1% disseminated and veinlet chalcopyrite. Sparse chl+py veinlets with narrow chl alteration envelopes and weak, broad ksp or albite alteration halos. 166.73m, 12 cm gray quartz vein, locally brecciated with white calcite matrix and 5% disseminated chalcopyrite grains. 167.5 to 167.6m, white chalcedonic qtz vein at 45 degrees tca. 171.7m calcite and chl+py vnlts w/ albitic alteration halo. Below 175.25m, increased scattered chl+py veinlets. 185 to 185.75m, abundant dark green chlorite+py vnlts w/ green-brn chloritic envelopes. Weak greenish hue to rock from 187m from pervasive chl alteration.				166.7m: 12cm wide qtz+cpy vn at 50 dtca; 169m: chl+cpy vnlt at 45 dtca; 171.2m: chl+cc+cpy+py vnlts at 45 dtca; 180.8m: ser+chl+py shear at 50 dtca; 186.8m: gray qtz vn at 45 dtca.	Pot1	Prop1	0.2	0.1	chl, cc,	2	1	tr	2	1	tr	1	tr	tr	Alb		0.4	0.1	0.3		Sf			
MOF-3	188.06	196.00		Jrmzd	Mzd	M		Medium grained equigranular, gray monzodiorite. Fresh except for narrow chlorite alteration envelopes adjacent to chl+py veinlets and broader albite+chlorite+/-epidote+py alteration halos adj to alb+/-qtz+py veins and veinlets. Sparse qtz micro veinlets with thin albite envelopes. Trace disseminated chalcopyrite grains.				189.8m: chl+py vns at 35 dtca; 195.4m: vuggy cc+py +chl vn at 35 dtca w/ alb halo.	Prop1	Alb1	0.1	0.1	cc, chl, alb,	3		tr	2			1	tr	tr				0.4	0.1	0.3		Sf			
MOF-3	196.00	228.20		Jrmzd	Mzd	M		Same as previous monzodiorite but with decreased albite veins and albitic, vein envelope alteration. Rock is generally fresh, though quite hard and possibly silicified. Minor to locally moderate wispy, chl+py veinlets with increased disseminated pyrite adjacent to veinlets, and mafic minerals often chloritized adj to veinlts. Chl+ser+py alteration envelopes adj to rare qtz+/-cc veins. Trace disseminated pyrite, except adjacent to veins, where locally approaches 2%. 199.75m, 6cm wide qsp altered envelope adj to cc vein at 35 degrees tca. 208.2m , white qtz vein with 2cm brown biotite or qsp selvage. 213.85m, chl+py+qtz vein at 45 dtca w/ broad bleached envelope. 218.9m, 9cm wide silicified band of white to tan silica replacing primary igneous textures. Slightly diffuse margins.				199.75m, cc+ser+silica vein at 35 dtca; 203.2m: qtz+chl+epi vn w/slicks at 50 raking o dtca; 218.9m: silic'd str at 80 dtca; 223.4m: cc vn emplaced along fault at 5 dtca; 223.8m: cc+chl+py vein w/ bleached envlopes at 30 dtca.	Prop1	Ser1	0.1	0.2	chl, cc, ser, bio	4			1	1	tr	1	tr	tr		Alb		0.4	0.1	0.3		Sf			
MOF-3	228.20	259.20		Jrmzd	Mzd	M		Gray, equigranular med to locally crs gr monzodiorite as above. Fresh except for local vein envelope alteration. Trace to <0.2% diss pyrite>> diss chalcopyrite grains in fresh monzodiorite. Mod primary magnetite grains. Local weak flow alignment of mafic minerals. Rock is very hard and possibly silicified. Scattered fine-grained mafic xenoliths to 8cm. 228.2 to 236.5m, lt orange-tan ksp or alb+hem altered envelopes adjacent to cc+py+chl veinlets. 234m, 1cm wide qtz+cc+py vein at 40 degrees tca. 236.45 to 236.85m, several chl+py veinlets with pervasive alb+hem and greenish chl+silica alteration envelopes. 245.75 to 256.2m, epidote+chl veinlets with <0.4% diss and vein hosted chalcopyrite. Surrounding rock for several meters is densely silicified and has <0.3% diss and fracture pyrite. 253 to 253.7m, abundant white and lt gray vuggy calcite veins at 20 and 35 dtca. Pyritic walls w/ str bleaching /sericite alteration. 257.8 to 258.65m, mod propylitic alteration surrrounding 2cm wide qtz vein. Narrow distal sheared qsp alteration and broad chl+ silica +ksp +epi alteration halo.				232.2m: 2cm banded chl+cc+py vein at 35 dtca; 234m: 1cm qtz+cc+py vein at 40 dtca; 236.7m: numerous chl+py vns at 50 dtca; 245.9m: qtz+ epi+ cpy+vnlts at 45 dtca; 253m: cc veins at 30 dtca; 258.5m: qtz vn w/ ser+py altered walls at 55 dtca.	Prop1	Sil1	0.1	0.1	chl, cc, epi,	2		tr	1	1	tr	1	tr	tr				0.3	0.1	0.2		Sf			
MOF-3	259.20	261.85		Jrmzd	Mzd	M		Fault. Fresh, hard gray monzodiorite with abundant gouge consisting of bright green chlorite and ground rock fragments. Fractures at from 0 to 15 degrees to core axis.	2		chl+rock frags	Numerous fault surfaces at 0 to 15 degrees tca.	Chl				chl	1			1	tr		2		tr				0.1		0.1						

				Lithology					Structure				Alteration Type		Veins				Alteration Minerals										Sulfides						Weathering / Alteration			
Hole ID	From (m)	To (m)	Sample #	Formation	Rock Type	Texture	Sketch	Description	Fault	Breccia	Infil/Gouge	Struct_Graphic	Alt Type 1	Alt Type 2	Qtz Vns (B)	Pyritic (D)	Other Vns1	Other Veins2	Vein Density (%	Hydrotherm Bio	Hydrotherm Ksp	Magnetite	Tourmaline	Silica/Quartz	Sericite	Chlorite	Epidote	Calcite	Other Mins	Other Alter	Tot Sulf (%)	Cpy (%)	Bn (%)	Py (%)	Po (%)	Other Sulf	Redox	Hematite	Limonite	% CuOx
MOF-3	261.85	276.45		Jrmzd	Mzd	M		Gray, medium to coarse grained, equigranular monzodiorite. Generally fresh with glassy feldspar xls and unaltered to weakly chloritized hornblende xls. Local pervasive white albite alteration as broad vein envelope alteration, esp frrom 269.6 to 269.9m. Alb+hem+/-ksp alteration envelopes adj to cc+/-qtz+chl +py veinlets. <0.3% disseminated and veinlet py and a few disseminated grains of chalcopyrite.				263.5m: cc+chl+py vein at 10 dtca; 273m: 2cm gray qtz+calcite+py vein at 5 dtca; 276.45m: qtz+py+chl vn at 40 dtca.	Prop1	Alb1	0.5	0.1	cc, chl, alb,epi		4	tr	1		1	tr	tr	tr	Alb		Alb	0.3		0.3		Sf				
End of Hole	276.45																																						

HOLE ID	FROM	TO	LENGTH	RECOVERY (m)	RECOVERY %	RQD (m)	RQD %
MOF-3	12.00	14.33	2.33	2.36	101	0.97	41
MOF-3	14.33	17.37	3.04	2.97	98	1.31	44
MOF-3	17.37	20.42	3.05	2.17	71	0.83	38
MOF-3	20.42	23.47	3.05	3.10	102	2.06	66
MOF-3	23.47	26.52	3.05	2.98	98	2.05	69
MOF-3	26.52	29.57	3.05	2.92	96	2.32	79
MOF-3	29.57	32.61	3.04	3.06	101	1.11	36
MOF-3	32.61	35.66	3.05	3.08	101	1.18	38
MOF-3	35.66	38.71	3.05	3.01	99	1.70	56
MOF-3	38.71	41.76	3.05	3.05	100	2.20	72
MOF-3	41.76	44.81	3.05	3.04	100	2.65	87
MOF-3	44.81	47.85	3.04	3.05	100	2.57	84
MOF-3	47.85	50.90	3.05	2.99	98	2.31	77
MOF-3	50.90	53.95	3.05	3.02	99	2.21	73
MOF-3	53.95	57.00	3.05	3.13	103	3.01	96
MOF-3	57.00	60.05	3.05	2.88	94	1.93	67
MOF-3	60.05	63.09	3.04	3.06	101	2.86	93
MOF-3	63.09	66.14	3.05	3.04	100	2.77	91
MOF-3	66.14	69.19	3.05	3.02	99	2.65	88
MOF-3	69.19	72.24	3.05	3.06	100	2.45	80
MOF-3	72.24	75.29	3.05	3.01	99	2.16	72
MOF-3	75.29	78.33	3.04	3.01	99	2.49	83
MOF-3	78.33	81.38	3.05	2.90	95	2.24	77
MOF-3	81.38	84.43	3.05	3.09	101	2.68	87
MOF-3	84.43	87.48	3.05	3.11	102	2.98	96
MOF-3	87.48	90.53	3.05	3.00	98	1.77	59
MOF-3	90.53	93.57	3.04	3.08	101	2.64	86
MOF-3	93.57	96.62	3.05	3.06	100	2.99	98
MOF-3	96.62	99.67	3.05	2.85	93	2.64	93
MOF-3	99.67	102.72	3.05	3.03	99	2.88	95
MOF-3	102.72	105.77	3.05	2.95	97	2.95	100
MOF-3	105.77	108.81	3.04	2.99	98	2.15	72
MOF-3	108.81	111.86	3.05	3.07	101	2.54	83
MOF-3	111.86	114.91	3.05	2.99	98	1.86	62
MOF-3	114.91	117.96	3.05	3.00	98	2.54	85
MOF-3	117.96	121.01	3.05	3.09	101	2.54	82
MOF-3	121.01	124.05	3.04	2.98	98	2.63	88
MOF-3	124.05	127.10	3.05	3.08	101	2.20	71
MOF-3	127.10	130.15	3.05	3.04	100	2.65	87
MOF-3	130.15	133.20	3.05	3.01	99	2.63	87
MOF-3	133.20	136.25	3.05	3.01	99	2.60	86
MOF-3	136.25	139.29	3.04	3.06	101	2.81	92
MOF-3	139.29	142.34	3.05	3.05	100	2.55	84
MOF-3	142.34	145.39	3.05	3.04	100	2.84	93
MOF-3	145.39	148.44	3.05	3.04	100	2.53	83
MOF-3	148.44	151.49	3.05	3.10	102	2.60	84
MOF-3	151.49	154.53	3.04	3.03	100	3.03	100

HOLE ID	FROM	TO	LENGTH	RECOVERY (m)	RECOVERY %	RQD (m)	RQD %
MOF-3	154.53	157.58	3.05	3.03	99	2.59	85
MOF-3	157.58	160.63	3.05	3.04	100	2.36	78
MOF-3	160.63	163.68	3.05	3.07	101	2.59	84
MOF-3	163.68	166.73	3.05	3.04	100	2.87	94
MOF-3	166.73	169.77	3.04	3.06	101	2.57	84
MOF-3	169.77	172.82	3.05	2.97	97	2.83	95
MOF-3	172.82	175.87	3.05	3.05	100	2.97	97
MOF-3	175.87	178.92	3.05	3.00	98	2.72	91
MOF-3	178.92	181.97	3.05	3.10	102	2.53	82
MOF-3	181.97	185.01	3.04	3.06	101	2.88	94
MOF-3	185.01	188.06	3.05	3.05	100	2.63	86
MOF-3	188.06	191.11	3.05	3.05	100	3.05	100
MOF-3	191.11	194.16	3.05	3.04	100	3.04	100
MOF-3	194.16	197.21	3.05	3.05	100	3.05	100
MOF-3	197.21	200.25	3.04	3.04	100	2.97	98
MOF-3	200.25	203.30	3.05	3.03	99	2.70	89
MOF-3	203.30	206.35	3.05	3.02	99	2.89	96
MOF-3	206.35	209.40	3.05	3.06	100	2.81	92
MOF-3	209.40	212.45	3.05	3.08	101	2.52	82
MOF-3	212.45	215.49	3.04	3.02	99	2.87	95
MOF-3	215.49	218.54	3.05	3.00	98	2.72	91
MOF-3	218.54	221.59	3.05	3.03	99	2.44	81
MOF-3	221.59	224.64	3.05	2.99	98	2.00	67
MOF-3	224.64	227.69	3.05	3.13	103	2.38	76
MOF-3	227.69	230.73	3.04	3.05	100	3.05	100
MOF-3	230.73	233.78	3.05	3.02	99	2.85	94
MOF-3	233.78	236.83	3.05	2.93	96	2.93	100
MOF-3	236.83	239.88	3.05	3.04	100	3.04	100
MOF-3	239.88	242.93	3.05	3.03	99	3.03	100
MOF-3	242.93	245.97	3.04	3.06	101	3.06	100
MOF-3	245.97	249.02	3.05	3.03	99	3.03	100
MOF-3	249.02	252.07	3.05	3.02	99	2.88	95
MOF-3	252.07	255.12	3.05	3.05	100	2.74	90
MOF-3	255.12	258.17	3.05	2.96	97	2.96	100
MOF-3	258.17	261.21	3.04	2.83	93	1.77	63
MOF-3	261.21	264.26	3.05	2.97	97	1.50	51
MOF-3	264.26	267.31	3.05	2.91	95	2.91	100
MOF-3	267.31	270.36	3.05	3.13	103	3.04	97
MOF-3	270.36	273.41	3.05	3.08	101	2.87	93
MOF-3	273.41	276.45	3.04	3.29	108	2.89	88

Drill Hole Cover Sheet

Property: Moffat **Drill Hole:** MOF-4 **Logged By:** R.Parish

Hole Location (proposed)		**Hole Orientation**		**Drill Hole Length (m)**	
Datum:	10 U	Azimuth:	45	Proposed:	300
Easting:	618606				
Northing:	5773832	Dip:	-50	Actual:	273.41
Elevation:					

Hole Location (actual) **Drill Hole Summary**

Datum: 10U
Easting:
Northing:
Elevation:

Drilling Information

Contractor:	Lyncorp
Core size:	NQ
Date started:	11/20/11
Date finished:	11/22/11

				Lithology					Structure				Alteration Type		Veins					Alteration Minerals											Sulfides						Weathering / Alteration			
Hole ID	From (m)	To (m)	Sample #	Formation	Rock Type	Texture	Sketch	Description	Fault	Breccia	Infil/Gouge	Struct_Graphic	Alt Type 1	Alt Type 2	Qtz Vns (B)	Pyritic (D)	Other Vns1	Other Veins2	Vein Density (%	Hydrotherm Bio	Hydrotherm Ksp	Magnetite	Tourmaline	Silica/Quartz	Sericite	Chlorite	Epidote	Calcite	Other Mins	Other Alter	Tot Sulf (%)	Cpy (%)	Bn (%)	Py (%)	Po (%)	Other Sulf	Redox	Hematite	Limonite	% CuOx
MOF-4	0	20.75			Ob			Overburden and casing																															
MOF-4	20.75	49.75		Trns	St		F	Dark gray to black, massive siltstone . Weakly magnetic Fine foliation consisting of darker greenish-gray chloritic layers and lenses, and white, flattened lensoidal layers to 1mm. Possible tuffaceous component. Foliation/bedding at low core angles, from 0 to locally 20 degrees to core axis. No thicker interbeds or other evidence of large scale bedding. Silvery, disseminated, submm sericite(?) xls. Weak to mod pervasive chlorite alteration of select layers and lenses. Lt gray layers and laminae are often calcareous. Trace disseminated chalcopyrite grains in wall rocks to sparse cc+/-epi+/- cpy veinlets. These veins often contain root beer brown mineral in medial cavity. Very sparse white qtz+cc veins or siliceous layers conformable with bedding. Other qtz veins are often contorted. Late cc+chl veins. 40.65 to 41.5m, trace cpy hosted in cc+/-epi veins and as disseminated grains in wall rocks.				22m: bedding at 0 dtca; 26.4m: contorted qtz vn plunging 15 dtca; 32.3m: white qtz vein conformable to bedding at 5 dtca; 33.25m: laminations at 20 dtca; 38.9m: cc+epi veinlet parallel to bedding at 20 dtca; 47.0m, cc+epi veinlet parallel to bedding at 5 dtca.	Chl2	Ser1	0.2	cc, chl, epi				1	tr	1	2	tr			3.9	0.1	0.1		Sf			
MOF-4	49.75	50.25		Trns			M	Pink, medium grained, equigranular intrusive rock completely replaced by pink K feldspar. Wispy chl+cc+py veinlets. Sharp intrusive contacts at high core angles. No evidence of hornfels or baking of wall rocks.				Upper and lower ctcs at 80 dtca.	Pot3				chl+cc+ py		3	3					1		1			0.2		0.2		Sf			
MOF-4	50.25	74.75		Trns		St	F,M	Black to dark gray, fine grained massive to laminated siltstone. Massive, with no signs of bedding other than fine layers defined by dark chl altered, flattened lensoidal layers(pumice) and lighter sericite(?) altered layers. Possible tuffaceous siltstone with compaction foliation. Mod chloritic alteration and weak disseminated silvery sericite flakes. Weakly magnetic. Bedding from 0 to 25 degrees tca. Sparse white calcite+/-cpy>py> spec hem veinlets. Disseminated cpy often occurs in envelopes to calcite veins. Less abundant cremy white qtz or albite veins, often containing chalcopyrite and root beer brown mineral. Albite veins at all angles to core and are occasionally contorted, though calcite veins tend to be conformable with bedding and planar. 58.7m, 5cm breccia conformable to bedding with chl selvages. Bx is calcareous siltst w/ cc+chl vein matrix w/ trace cpy. 67.2m, 2cm wide , contorted qtz+cc vein w/ cc+brown min in medial cavity. 67.6m, qtz+cpy veinlets.				52.3m: cc+cpy veinlet at 20 dtca; 56.1m; cc veinlet at 60 dtca w/ diss cpy in walls; 58.9m: alb vnlt at 15 dtca; 58.7m: 5cm bxa at 25 dtca; 67.6m, qtz+cpy vnlts at 45 dtca; 73.3 to 74.5m: abundant fractures lined with calcite+hem veinlets.	Chl2	Ser1	0.1	cc,chl, alb,	epi, hem	2		1		1	2	tr	Alb		0.2	0.1	0.1		Sf	tr		
MOF-4	74.75	78.90		Trns		St	F	Same dark gray to black tuffaceous siltstone. Increased very fine grained disseminated pyrite and generally trace chalcopyrite. 77.95m, 5cm coarse grained, hem stained qtz vein with 15% chalcopyrite. Footwall to vein has disseminated and veinlet chalcopyrite for 30cm.				76.4m: 1cm cc+chl+hem vein at 10 dtca; 77.95m: 5cm qtz+cpy vein at 30 dtca; 78.8m: 3cm cc+hem vn at 20 dtca.	Chl1	Ser1	1	cc+chl, hem		2		1		1	1		1			0.6	0.2	0.4		Sf	tr		
MOF-4	78.90	86.80		Trns		St	F	Same dark gray to black, fine grained tuffaceous siltstone. Massive, with fine bedding laminations at low core angles. Darker chlorite altered laminations. Lighter green gray layers and bands tend to be calcareous. Rare scattered epi+qtz veins and cc+hem+chl veinlets w/ dark greenish-gray alteeration halo. Trace disseminated chalcopyrite and pyrite.				80.9m: pink gray, qsp altered band parallel to bedding at 10 dtca;	Chl1	Ser1	0.1	cc+chl, qtz+epi		0.5		1		1	1	tr	tr			0.2	0.1	0.1		Sf			
MOF-4	86.80	92.90		Trns		St	F	Dark gray to greenish gray, fine grained, laminated tuffaceous siltstone. Bedding at low core angles. Cc+hem+/-cpy veinlets generally conformable with bedding. Veinlets often with greenish calcareous alteration halos. Upper 1.5m of interval is lighter gray, mottled and calcareous. Entire interval has scattered disseminated and veinlet hosted chalcopyrite and lesser pyrite.				Bedding at 10 dtca, 91.4m: cc+hem+chl vn at 10 dtca.	Chl1	Ser1		cc+hem, chl		1		1		1	1	tr		2		0.3	0.2	0.1		Sf			
MOF-4	92.90	99.95		Trns		St	F	Same dark green-gray siltstone as previous interval, but with only trace disseminated chalcopyrite. Very calcareous. 97.5m, cc+chl vein, locally brecciated with chl matrix. Minor crackle breccia in footwall with epi+hem altered clasts and black chlorite vein matrix.					Chl1	Ser1		cc, chl, epi, hem		2		1		1	1	tr		2		0.1		0.1		Sf			

				Lithology					Structure				Alteration Type		Veins				Alteration Minerals												Sulfides						Weathering / Alteration			
Hole ID	From (m)	To (m)	Sample #	Formation	Rock Type	Texture	Sketch	Description	Fault	Breccia	Infil/Gouge	Struct_Graphic	Alt Type 1	Alt Type 2	Qtz Vns (B)	Pyritic (D)	Other Vns1	Other Veins2	Vein Density (%	Hydrotherm Bio	Hydrotherm Ksp	Magnetite	Tourmaline	Silica/Quartz	Sericite	Chlorite	Epidote	Calcite	Other Mins	Other Alter	Tot Sulf (%)	Cpy (%)	Bn (%)	Py (%)	Po (%)	Other Sulf	Redox	Hematite	Limonite	% CuOx
MOF-4	99.95	126.65		Trns	Lst	C		Lithic tuffaceous siltstone. Dark greenish gray and gray, layered tuffaceous siltstone to lithic tuff . Layering at 0 to 5 degrees to core axis consisting of chlorite altered dark green tuffaceous siltstone, and lighter gray, 1 to 2cm thick, QSP+/-calcite+chl altered tuffaceous siltstone or pumice layers with gneissic texture. Lighter gray layers are often lensoidal and may be pumice clasts elongated by compaction or tectonic foliation. Evidence of compaction foliation in layering that drapes symetrically around some clasts. Calcite+hematite+/- chlorite veins and calcite veinlets. Minor epi+cc+/-qtz +/-cpy veinlets. Weak disseminated pyrite and trace veinlet hosted chalcopyrite. 109.45 to 109.6m, 1% chalcopyrite in epi+cc+qtz veins. 118m, several epi+cc+cpy veinlets at low ca's but cut bedding.				99.67m: foliation/ bedding at 5 dtca; 101.7m: cc+hem vein at 0 dtca; 111.8m: str shear or bedding foliation at 5 dtca; 118m: cc+epi+cpy veinlets at 5 dtca;	Chl2	Qsp2			cc+hem, chl		3		1		2	2	tr	2			0.3	0.1		0.2		Sf	tr		
MOF-4	126.65	136.25		Trns	Lst	C		Laminated to finely bedded dark and light gray tuffaceous, volcaniclastic sediment. Strong shear or compaction foliation. Dark layers possible mafic tuff with stronger chlorite alteration. Light gray layers are thinner, lensoidal and have gneissic texture with chlorite altered xls or pumice vesicle filling. Minor augen like clasts with draped enclosing laminations. Rock is harder than previous and non calcareous, with quartz+albite alteration. Sparse white calcite veinlets with narrow hem+albite or ksp alteration halos. Trace calcite veinlet hosted chalcopyrite. Red hematite on fractures.				129.5m: bedding/ foliation at 10 dtca; 132.9m: 4mm cc+cpy veinlet at 30 dtca.	Q+ser	Chl1			cc+hem,		0.5		tr		1	2	1		tr		Alb	0.2	0.1		0.1		Sf	tr		
MOF-4	136.25	160.25		Trns	Lss	M		Lithic volcaniclastic sandstone. Upper 5m is thin bedded sheared/foliated lithic, tuffaceous siltstone similar to previous unit, but with carbonate+propylitic alteration instead of sericite+qtz alteration. Below 141m rock becomes much more massive, dark greeen-gray, laminated siltstone to sandstone with minor lensoidal lithic clasts. Laminations and bedding continue at very low core angles. Weak to moderate propylitic alteration in form of pervasive chlorite + carbonate and patchy, often bedding controlled epidote alteration. Weak sericite alteration as submm, silvery flakes thruout rock. Weakly magmetic. Below 147m , intervals of increased thin bedded and lensoidal , lt gray tuff beds and pumice clasts. Same strong foliation. Calcite+hematite+chlorite veins and veinlets thruout interval and local epi+calcite veinlets.				138.5m: Bedding at 10 dtca; 139.1m: cc+hem+chl veins at 20 and 30 dtca; 153.5m: bedding at 5 dtca; 160.3m: bedding at 15 dtca.	Prop1	Alb1			cc+hem+ chl	epi+cc	2		1		1	1	1	2			Alb	0.2			0.2		Sf		1	
MOF-4	160.25	163.90		Trnv	And	MP		Intermediate to mafic volcanic flow. Dark gray, pyroxene porphyritic-aphanitic flow with 40% equant pyroxene phenos to 3mm and <10% plag phenos. Phenos vaguely flow aligned at 15 degrees tca. Weak propylitic alteration in form of pervasive chl+/-epi and veinlet epi+chl+hem. Non magnetic. Slightly chilled contacts conformable with layering in enclosing sediments. Probable flow. 161.1 to 161.35m, sheeted calcite+hem+/-qtz veins at 30 dtca w/ 10cm fault gouge consisting of clay and ground vein material.	1			Upper flow ctc at 15 dtca; 161.2m fault gouge at 30 dtca; Sheared lower flow ctc at 35 dtca.	Prop1		0.1		cc+hem, chl		4					1	tr	tr				0.1		0.1		Sf			
MOF-4	163.90	195.50		Trns	Ss	M		Volcaniclastic lithic sandstone with strong tuff component. Gray to green gray, laminated to thin bedded, to locally massive. Lt gray tuffaceous layers and lenses often have gneissic texture, but are possibly pumice clasts with vesicles replaced by chlorite. Strong tectonic or compaction folaition at low core angles. Lensoidal layers and clasts, and abundant augen-like, un deformed clasts with draped enclosing laminations. Augen are often root beer brown garnet(?) often rimmed by calcite+/-qtz. Pervasive weak chlorite+/-calcite alteration and local epidote patches and veinlets. Several feldspar+pyroxene flows to 0.75m thick with strong green chlorite alteration. Calcite +/-hematite veinlets thruout interval. Below 191.1m, light gray, gneissic textured lensoidal clasts and thin layers often have faint pinkish hue and are hard from alb+silica +hem alteration.				164m: bedding at 30 dtca; 165m: chloritic fault gouge at 10 dtca; 172.5m: bedding at 5 dtca; 179m: bedding at 25 dtca; 188m: ep i+cc veinlts at 35 dtca;	Prop1		0.1		cc, epi, hem		2		1			1	1	tr				0.1		0.1		Sf			
MOF-4	195.50	210.00		Ter	Rhy	FP		Rhyolite dike. Buff to greenish gray, porphyritic with fine grained calcareous groundmass. Euhedral equant quartz phenos to 2mm and pale to dark green equant phenos altered to chlorite. Calcite veinlets and chlorite lined fractures.				Upper ctc at 80, Lower ctc at 40 dtca.	Chl1				cc, chl		1							1		tr				0				Sf			

				Lithology					Structure				Alteration Type		Veins					Alteration Minerals														Sulfides						Weathering / Alteration			
Hole ID	From (m)	To (m)	Sample #	Formation	Rock Type	Texture	Sketch	Description	Fault	Breccia	Infil/Gouge	Struct_Graphic	Alt Type 1	Alt Type 2	Qtz Vns (B)	Pyritic (D)	Other Vns1	Other Veins2	Vein Density (%	Hydrotherm Bio	Hydrotherm Ksp	Magnetite	Tourmaline	Silica/Quartz	Sericite	Chlorite	Epidote	Calcite	Other Mins	Other Alter	Tot Sulf (%)	Cpy (%)	Bn (%)	Py (%)	Po (%)	Other Sulf	Redox	Hematite	Limonite	% CuOx
MOF-4	210.00	231.60		Trns	Ss	M		Dark gray to green-gray volcaniclastic siltstone with sandstone interbeds. Bedding generally steeper than before rhyolite dike, averaging 25 degres to core axis. Strong xl tuff component and sparse lensoidal shaped lithic (pumice?) clasts to 1cm. Weak to rarely moderate propylitic alteration consisting of layer preferential to veinlet epidote alteration, pervasive chlorite alteration and hematite on fracts and with veinlets. Rock is magnetic. Very localliz ed k-feldspar alteration as narrow envelopes around cc+py+/-qtz veinlets. Local white albitization of some coarser grained tuffaceous layers. Rare hematite stained silica veinlets. Core is strongly fractured beginning at 227m in hangingwall of fault at lower contact.				214m: Bedding at 30 dtca; 217.25m: epi+cc vein at 25 dtca;	Prop1		0.1	0.1	epi,cc, chl	Silica+ hem		tr	1	tr		1	1	tr			0.2		0.2		Sf			
MOF-4	231.60	233.78		Trns	Sts, Flt	M		Same dark gray siltstone, but strongly faulted consisting of broken rock and chloritic gouge seams and shears. Fabric at low core angles. Includes 40 cm wide breccia with orangeish, silica+hem altered clasts healed with white calcite veins. Narrow veins of same material elsewhere in fault zone.	2	1		Shearing and faulting at 20 dtca.	Chl2	Sil1		0.1	Silica +hem, cc	chl	3			1	1		2		1			0.3		0.3		Sf			
MOF-4	233.78	245.40		Trns	Sts	M		Dark gray to green-gray, volcaniclastic sandstone with lt gray, thin tuffaceous layers. Laminated to thin bedded. Calcareous. Weak to locally mod pervasive and veinlet epidote alteration and pervasive chlorite alteration. Chlorite+/-hematite on fractures. Most of interval is strongly fractured and locally faulted with minor chlorite+py gouge, esp from 237.1 to 238.2m and 243.7 to 245.4m. Locally abundant veinlet and lesser disseminated pyrite. Hematite stained, silica-replaced clasts and veins, and hematite+ calcite veins forming breccias with chl+py vein matrix from 243.7m to 245.3m.	1	1		Strong fracturing and local faulting. 237.8m: py+silica+cc vein at 45 dtca; 241.8m, abdnt cc vnlts and fracts at 0 dtca;	Chl2	Prop1		0.3	Silica+ hem, cc	epi, chl	4	tr	1			2	1	2			0.5		0.5		Sf			
MOF-4	245.40	273.41		Trns	Ss, Sts	F, M		Gray, laminated to thin bedded, siltstone to med grained sandstone. Locally tuffaceus layers and flattened, lensoidal pumice(?) clasts. Bedding generally at 20 dtca. Rock is often calcareous, but locally hardened and decalcified by albite+silica+/-hematite alteration. Albite alteration seems to favor coarser tuffaceous layers, and often forms halos around alb+hem+/-epi+/-mt veinlets. Local pervasive and veinlet epi+calcite. Rock is magnetic. Several coarse grained intrusive dikelets to 25cm strongly altered to secondary k feldspar from 251.7 to 252.1m. Moderate silica+albite alteration of coarse grained tuffaceous lithic sandstone from 270.7 to 272.2m				246.5m: bedding at 25 dtca; 249.75m: alb+alb+hem+mt veins at 20 dtca; 258.3m: bedding at 30 dtca;	Prop1	Alb1			Alb+ hem, cc, chl	epi	5	1	1			1	1	1	Alb	Alb	0.2		0.2		Sf			
End of Hole		273.41																																							

HOLE ID	FROM	TO	LENGTH	RECOVERY (m)	RECOVERY %	RQD (m)	RQD %
MOF-4	20.75	23.47	2.72	2.63	97	2.19	83
MOF-4	23.47	26.52	3.05	3.07	101	2.42	79
MOF-4	26.52	29.57	3.05	3.00	98	2.02	67
MOF-4	29.57	32.61	3.04	3.05	100	1.62	53
MOF-4	32.61	35.66	3.05	2.98	98	2.65	89
MOF-4	35.66	38.71	3.05	2.95	97	1.52	52
MOF-4	38.71	41.76	3.05	2.98	98	1.15	39
MOF-4	41.76	44.81	3.05	3.06	100	2.07	68
MOF-4	44.81	47.85	3.04	3.00	99	1.73	58
MOF-4	47.85	50.90	3.05	3.04	100	2.35	77
MOF-4	50.90	53.95	3.05	3.01	99	1.90	63
MOF-4	53.95	57.00	3.05	3.02	99	2.12	70
MOF-4	57.00	60.05	3.05	2.98	98	1.98	66
MOF-4	60.05	63.09	3.04	3.05	100	1.98	65
MOF-4	63.09	66.14	3.05	3.01	99	2.07	69
MOF-4	66.14	69.19	3.05	3.00	98	2.36	79
MOF-4	69.19	72.24	3.05	2.96	97	1.59	54
MOF-4	72.24	75.29	3.05	2.95	97	1.35	46
MOF-4	75.29	78.33	3.04	3.05	100	2.31	76
MOF-4	78.33	81.38	3.05	2.87	94	1.19	41
MOF-4	81.38	84.43	3.05	3.08	101	1.66	54
MOF-4	84.43	87.48	3.05	2.94	96	2.01	68
MOF-4	87.48	90.53	3.05	2.86	94	2.13	74
MOF-4	90.53	93.57	3.04	3.10	102	1.76	57
MOF-4	93.57	96.62	3.05	2.99	98	1.11	37
MOF-4	96.62	99.67	3.05	2.82	92	1.23	44
MOF-4	99.67	102.72	3.05	2.92	96	1.94	66
MOF-4	102.72	105.77	3.05	2.56	84	1.09	43
MOF-4	105.77	108.81	3.04	2.97	98	1.91	64
MOF-4	108.81	111.86	3.05	2.81	92	1.50	53
MOF-4	111.86	114.91	3.05	2.28	75	0.23	10
MOF-4	114.91	117.96	3.05	2.96	97	1.78	60
MOF-4	117.96	121.01	3.05	3.00	98	1.49	50
MOF-4	121.01	124.05	3.04	3.01	99	2.54	84
MOF-4	124.05	127.10	3.05	3.05	100	2.50	82
MOF-4	127.10	130.15	3.05	3.07	101	2.76	90
MOF-4	130.15	133.20	3.05	3.04	100	2.90	95
MOF-4	133.20	136.25	3.05	2.94	96	1.62	55
MOF-4	136.25	139.29	3.04	2.96	97	1.63	55
MOF-4	139.29	142.34	3.05	3.02	99	2.80	93
MOF-4	142.34	145.39	3.05	3.00	98	2.63	88
MOF-4	145.39	148.44	3.05	3.04	100	1.95	64
MOF-4	148.44	151.49	3.05	3.13	103	2.39	76
MOF-4	151.49	154.53	3.04	3.02	99	2.35	78
MOF-4	154.53	157.58	3.05	2.96	97	1.71	58
MOF-4	157.58	160.63	3.05	2.78	91	1.63	59
MOF-4	160.63	163.68	3.05	3.19	105	2.23	70

HOLE ID	FROM	TO	LENGTH	RECOVERY (m)	RECOVERY %	RQD (m)	RQD %
MOF-4	163.68	166.73	3.05	3.06	100	1.75	57
MOF-4	166.73	169.77	3.04	3.04	100	2.33	77
MOF-4	169.77	172.82	3.05	3.02	99	2.00	66
MOF-4	172.82	175.87	3.05	3.00	98	2.03	68
MOF-4	175.87	178.92	3.05	3.01	99	2.11	70
MOF-4	178.92	181.97	3.05	2.81	92	0.92	33
MOF-4	181.97	185.01	3.04	2.98	98	1.55	52
MOF-4	185.01	188.06	3.05	2.88	94	0.62	22
MOF-4	188.06	191.11	3.05	2.80	92	1.64	59
MOF-4	191.11	194.16	3.05	3.08	101	0.89	29
MOF-4	194.16	197.21	3.05	2.88	94	1.50	52
MOF-4	197.21	200.25	3.04	2.92	96	0.83	28
MOF-4	200.25	203.30	3.05	3.04	100	1.96	64
MOF-4	203.30	206.35	3.05	2.92	96	2.24	77
MOF-4	206.35	209.40	3.05	2.92	96	1.53	52
MOF-4	209.40	212.45	3.05	2.87	94	0.97	34
MOF-4	212.45	215.49	3.04	2.68	88	0.33	12
MOF-4	215.49	218.54	3.05	3.08	101	1.68	55
MOF-4	218.54	221.59	3.05	3.02	99	1.50	50
MOF-4	221.59	224.64	3.05	2.78	91	0.58	21
MOF-4	224.64	227.69	3.05	2.79	91	0.32	11
MOF-4	227.69	230.73	3.04	2.75	90	0.00	0
MOF-4	230.73	233.78	3.05	2.43	80	0.00	0
MOF-4	233.78	236.83	3.05	2.92	96	1.07	37
MOF-4	236.83	239.88	3.05	2.32	76	0.00	0
MOF-4	239.88	242.93	3.05	2.85	93	0.00	0
MOF-4	242.93	245.97	3.04	2.12	70	0.32	15
MOF-4	245.97	249.02	3.05	3.08	101	1.84	60
MOF-4	249.02	252.07	3.05	3.04	100	1.30	43
MOF-4	252.07	255.12	3.05	2.82	92	1.70	60
MOF-4	255.12	258.17	3.05	3.14	103	1.03	33
MOF-4	258.17	261.21	3.04	2.90	95	1.83	63
MOF-4	261.21	264.26	3.05	3.02	99	2.14	71
MOF-4	264.26	267.31	3.05	2.98	98	1.91	64
MOF-4	267.31	270.36	3.05	3.01	99	2.48	82
MOF-4	270.36	273.41	3.05	2.99	98	2.34	78

Hole Location (proposed)

Datum:	10 U
Easting:	619953
Northing:	5774530
Elevation:	

Hole Orientation

Azimuth:	0
Dip:	-90

Drill Hole Length (m)

Proposed:	300
Actual:	279.5

Hole Location (actual)

Datum:	10U
Easting:	
Northing:	
Elevation:	

Drilling Information

Contractor:	Lyncorp
Core size:	NQ
Date started:	11/24/11
Date finished:	11/28/11

				Lithology					Structure				Alteration Type		Veins					Alteration Minerals												Sulfides						Weathering /Alteration			
Hole ID	From (m)	To (m)	Sample #	Formation	Rock Type	Texture	Sketch	Description	Fault	Breccia	Infill/Gouge	Struct_Graphic	Alt Type 1	Alt Type 2	Qtz Vns (B)	Pyritic (D)	Other Vns1	Other Veins2	Vein Density (%	Hydrotherm Bio	Hydrotherm Ksp	Magnetite	Tourmaline	Silica/Quartz	Sericite	Chlorite	Epidote	Calcite	Other Mins	Other Alter	Tot Sulf (%)	Cpy (%)	Bn (%)	Py (%)	Po (%)	Other Sulf	Redox	Hematite	Limonite	% CuOx
MOF-5	0	14.33		Qt	Ob			Casing, Overburden consisting of glacial till, sand, gravel and boulders																																	
MOF-5	14.33	17.90		Jrmz, Jrmzp	Mz, Mzp	C, CP		Gray to pink, coarse grained equigranular to locally porphyritic monzonite to quartz monzonite. White to pink k feldspar xls to 15mm with local inclusions of hornblende. Less abundant white to gray plag to 4mm. Elsewhere, more equigranular texture with k feldspar and plag phenos to 4mm. Generally less than 10% anhedral interstitial quartz xls. <10 to locally 20% hornblende and biotite, largely altered to bio+mt or chlorite. Moderately magnetic. Moderate potassic alteration consisting of broad zones of ksp+silica replacement and bio+mt veinlets w/ narrow bleached envelopes. Replacement of mafic mins by bio+/-mt. Trace veinlet and diss py.				16.8m: bio+mt+chl veinlets at 20 dtca.	Pot2	Sil1	0.1	0.1	bio+mt, chl, cc		3	2	2	2	1		1		tr			0.3	0.1		0.2		Sf		tr
MOF-5	17.90	22.00		Jrmzp	Mzp	FP		Gray, fine grained porphyritic monzonite(?) dike. Muted, fine grained groundmass and coarser euhedral, white to gray feldspar phenos to 2mm. Rock is very hard, partially silicified. Sparse chlorite veinlets. Abundant pinkish gray silica+ksp veins with diffuse margins and alteration envelopes adj to chl+py veinlets. Non magnetic. Sharp intrusive contacts with monzonite.				Sharp upper ctc at 45 dtca; Dominant veinlet set at 20 dtca; Sharp lower ctc at 15 dtca.	Pot1	Sil1	1	0.1	ksp+ silica, chl,		2		1		1		tr					0.1			0.1		Sf		tr
MOF-5	22.00	24.80		Jrmz	Mz	M		Monzonite, gray, medium grained, equigranular. Generally fresh except 40cm zone at upper ctc with pervasive ksp+silica alteration, and elsewhere as ksp and bio+mt replacement of mafic minerals as envelopes to ksp+silica+/-epi veins. Sparse gray qtz veins. Trace veinlet hosted chalcopyrite. Magnetic. Stronger ksp+secondary biotite alteration at lower contact with dike.				22m: str ksp altered envelope adj to qtz vein at 15 dtca; 23.21m: cc+chl+cpy vnlt at 20 dtca.	Pot1		0.3	0.1	cc+chl,		2	1	1	2			tr	tr	tr			0.2			0.2		Sf		tr
MOF-5	24.80	32.50		Jrmzp	Mzp	FP		Gray, fine grained porphyritic monzonite(?) dike. Muted, fine grained groundmass and coarser euhedral white to gray feldspar phenos to 2mm. Rock is very hard with possible albite+silica or silica alteration. Abundant very fine fractures or veinlets at low core angles with weak ksp+silica alteration envelopes. Minor qtz veinlets at 20 to 30 degrees tca with weak ksp alteration halos. Fractured with limonite+calcite fracture coating.				Sharp upper ctc at 25 dtca; 27.5m: microveinlets at 0 dtca; Sharp lower ctc at 25 dtca.	Sil2	Alb1	0.2		cc, chl,		3		1		2		tr		tr		Alb	0.1			0.1		Sf		tr
MOF-5	32.50	37.40		Jrmz	Mz	C		Gray to pink coarse grained equigranular monzonite. Mod to locally strong potassic alteration with mafic mins altered to secondary bio+mt and broad ksp+silica alteration envelopes adj to quartz+/-cpy+cc veins. Locally abundant black qtz+mt veinlets and patchy alteration. Several areas of very soft, strong chl+/-sericite alteration which is locally hardened by vein envelope ksp+silica alteration. 35.5m, 5mm qtz+chalcopyrite+cc vein at 45 dtca with ksp alt halo. Minor cpy veinlets eslewhere in interval.				33m: gray silica veinlets at 20 dtca; 34m: cc+ser altered str at 30 dtca; 35m: qtz+cpy vein at 45 dtca.	Pot2	Chl1	0.3	0.1	chl, qtz+mt, cc		5	1	2	2	1	1	1		tr			0.3	0.2		0.1		Sf		tr
MOF-5	37.40	38.30		Jrmz	Mz	F		Fine grained felsic dike(?) or monzonite completely replaced by salmon pink ksp. Faint relict fine grained porphyritic intrusive textures remain. 3% gray quartz veins and sparse red hematite veinlets and fracture coating. Sharp contacts with surrounding rock. Possible altered dike but seems to be Mesozoic rather than Tertiary because of degree of alteration.				Sharp upper ctc at 20 dtca;	Pot3		2		cc, hem,		3	2	3				tr					0					Sf	tr	
MOF-5	38.30	42.10		Jrmz	Mz	M		Gray, medium grained equigranular monzonite. Weak potasssic alteration in form of secondary bio+mt alteration of hornblende xls and vein envelope and locally pervasive ksp alteration. Chlorite+sericite veinlets and vein envelopes.				41m: chl+ser veinlets at 30 dtca; 41.5m: gray qtz veinlets w/ ksp envelopes at 20 dtca.	Pot1	Chl1	1		cc, chl, ser bio+mt		2	1	1	1	1	1	tr		tr			0.2			0.2		Sf		
MOF-5	42.10	45.10		Jrmzp	Mzp	FP		Gray, fine grained porphyritic monzonite(?) dike. Muted textures due to possible alb+silica alteration. Sparse gray qtz veins w/ narrow ksp envelopes and abundant cross cutting chl+cc veinlets and fracture coating. Sharp upper and lower contacts. Trace veinlet py.				Sharp upper ctc at 20 dtca.	Alb1	Sil1	0.2	0.1	chl+cc,		4		1		1		1			1	Alb	0.1			0.1		Sf		

				Lithology					Structure				Alteration Type		Veins				Alteration Minerals														Sulfides						Weathering /Alteration			
Hole ID	From (m)	To (m)	Sample #	Formation	Rock Type	Texture	Sketch	Description	Fault	Breccia	Infill/Gouge	Struct_Graphic	Alt Type 1	Alt Type 2	Qtz Vns (B)	Pyritic (D)	Other Vns1	Other Veins2	Vein Density (%	Hydrotherm Bio	Hydrotherm Ksp	Magnetite	Tourmaline	Silica/Quartz	Sericite	Chlorite	Epidote	Calcite	Other Mins	Other Alter	Tot Sulf (%)	Cpy (%)	Bn (%)	Py (%)	Po (%)	Other Sulf	Redox	Hematite	Limonite	% CuOx
MOF-5	45.10	50.00		Jrmz	Mz	M		Gray, medium grained equigranular monzonite with moderate pervasive potassic alteration in form of faint ksp alteration of feldspar xls and bio+/-mt+chl alteration of some hornblende xls. Local intervals of strong potassic alteration as broad, salmon pink replacement of monzonite, often associated with qtz+/-cpy veins. Dark gray texture-muting silicification often surrounds these zones and occurs as wispy veinlets into fresher monzonite. Interval has overprint of locally strong, fracture controlled pale green sericite or chlorite+calcite alteration. In areas of strongest alteration rock is soft and completely replaced by chl or sericite+calcite. 47 to 47.4m, str ksp+silica replacement and tr cpy veinlets. 48 to 48.8m, Soft crumbly ser+chl+cc alteration.				47m: Ksp altered str w/cpy vnlts at 45 dtca	Pot2	Chl+ ser1	3		chl+cc, cc	qtz+mt	4	1	2	1		1	1	1		1				0.2	0.1		0.1		Sf			
MOF-5	50.00	69.85		Jrmz	Mz	M		Same monzonite as above, with fracture and veinlet chl+ser+cc alteration and vein envelope ksp alteration. Monzonite often has somewhat muted textures and pinkish hue from pervasive alb+silica or possible weak ksp alteration. 50 to 50.4m, strong replacement of monzonite with salmon pink ksp. 51.05m, 10 cm wide structure at 65 degrees tca with gray qtz+/- cpy veinlets with dense envelope ksp alteration. Strong gray silicification and veinlets in hanging wall and footwalls. 57.5 to 57.95m, strong ksp alteration and abundant gray qtz+/-cpy veinlets. Strong gray silicification in foot and hanging walls. 60.1 to 60.85m, faulting at 30 dtca with str chl+sericite+cc alteration and crumbly gouge seams. 60.85 to 61.6m, Strong, salmon orange pink ksp replacement of monzonite with abundant chl+cc lined fractures. 65.4 to 66.5m, 5mm gray qtz+calcite+chalcopyrite vein at 0 degrees tca and narrow ksp alteration envelope. 67 to 69.85m, abundant fracture to 10cm wide chl+cc+ser alteration gouge zones without obvious shearing or movement.				51m: qtz+cpy veinlets at 65 dtca w/str ksp env; 54m; Abdnt fracts at 5 dtca; 60.6m: chl+cc flt gouge at 30 dtca; 63 to 65m: Abdnt chl on fracts at 25 dtca; 66m: qtz+cpy vn at 0 dtca:	Pot2	Chl1	1	0.1	cc, chl, qtz+mt		3	1	2	2		1		1		1				0.2	0.1		0.1		Sf			
MOF-5	69.85	76.85		Jrmz	Mz	M		Same medium grained monzonite, with vein envelope ksp alteration and local gray quartz veins, but with broad areas of mod to strong, pervasive, pale green sericite or chlorite alteration. Alteration forms broad envelopes around faults at at 70.4 and 75.75m. Str fracture coatings of yellow jarosite+calcite from 72 to 76.85m. 70.1 to 71.1m, Flt zone w/ str chl+ser?+cc+py alteration, brecciation and shears at 25 to 35 dtca. 72.5 to 73m, Numerous gray quartzs veins to 2cm at 5 dtca with str ksp envelopes. 73.3 to 73.8m, str ksp alteration and minor gray qtz veins. 75.4 to 76.5m, str pale green chl+ser+cc alteration in walls to fault at 2 degrees tca. Fault occupied by white cc+gray qtz vein to 3cm thick.	2	1	ser+chl+ cc	70.4m: fault at 30 dtca; 73m: qtz veins at 0 dtca; 76m: white cc+qtz vein at 0 dtca	Chl2	Pot1	2	0.1	chl+cc, cc		3	1	1	1		1	2	2		2				0.3			0.3		Sf		Tr	
MOF-5	76.85	83.80		?	And	FP		Dark maroon-gray to greenish gray, fine grained phyric dike. Possible andesite. Submm green chlorite replaced phenos in fine grained , non magnetic groundmass. Minor pink ksp altered vein and fracture envelopes. Below 81m, rock has mod to str pale green sericite or chlorite alteration. Yellow limonite+ calcite on fracts to 80.75m. 78.4m, Gray qtz and white cc+qtz vein at 20 degrees tca with black pyritic clay selvages. 81 to 83m, strong chl+/-sericite+cc alteration associated with shearing and faulting and qtz/-calcite veins at low core angles. Local clay gouge.	1	1	Ser+chl+ cc clay	78m: fracts at 0 dtca; 78.5m: qtz and cc+qtz vein at 25 dtca; 83m: faults and qtz+cc veins at 0 dtca; 82m: abdnt fracts and faults slips at 15 dtca.	Chl2	Pot1	3	0.2	chl, cc,		5	1	tr				2	2		2				0.2			0.2		Sf		tr	
MOF-5	83.80	91.55		Jrmz	Mz	M		Gray medium grained equigranular monzonite. Abundant euhedral to sub hedral beige sphene xls to 1mm . Weak to moderate pervasive ksp alteration(ksp+ silica+ secondary bio+mt) and minor bands of str salmon pink ksp alteration. Magnetic. Local silicification. Scattered actinolite+chl+/-qtz veins and sparse gray qtz veins all with narrow ksp alteration envelopes. 84.4 to 6m, str crumbly ser+clay alteration adj to ksp vein and shearing at 15 dtca. Chlorite on fractures and strong chl+sericite+/-hematite alteration in bands at 60 degrees tca from 85.65 to 86.65m.				84.5m: fault/shear w/ str ser+chl alt at 15 dtca; 89.2m: actinolite+chl+ qtz vn at 20 dtca.	Pot2	Chl1	0.2		act+chl, cc, hem		3	1	2	2		1	1	1			Actinolite	Sil		0.2			0.2		Sf	tr		
MOF-5	91.55	98.90		Jrmz	Mz	M		Same as previous Monzonite, but with 4% gray quartz veins to 2cm, ave 1cm thick at low core angles and with narrow ksp alteration envelopes. Increased actinolite veins though less than 1%, usually at low core angles. Chlorite limited to fracture coatings and microveinlets.				93.57m: qtz vein at 0 to 10 dtca; 95.7m: qtz vein at 10 dtca; 98.7m: actinolite vein at 15 dtca.	Pot2	Sil1	4		Act, chl, cc		5	1	2	2		1		tr		tr	Actinolite			0.2			0.2		Sf			

				Lithology					Structure				Alteration Type		Veins				Alteration Minerals												Sulfides						Weathering /Alteration			
Hole ID	From (m)	To (m)	Sample #	Formation	Rock Type	Texture	Sketch	Description	Fault	Breccia	Infill/Gouge	Struct_Graphic	Alt Type 1	Alt Type 2	Qtz Vns (B)	Pyritic (D)	Other Vns1	Other Veins2	Vein Density (%	Hydrotherm Bio	Hydrotherm Ksp	Magnetite	Tourmaline	Silica/Quartz	Sericite	Chlorite	Epidote	Calcite	Other Mins	Other Alter	Tot Sulf (%)	Cpy (%)	Bn (%)	Py (%)	Po (%)	Other Sulf	Redox	Hematite	Limonite	% CuOx
MOF-5	98.90	107.55		Jrmz	Mz	M		Same medium grained equigranular monzonite. Weak to locally moderate potassic alteration consisting of bio+mt+chl replacement of mafic mins and micro veinlets of same, and ksp as narrow vein envelope alteration and rare, strong ksp+qtz bands to 15cm. Locally abundant sheeted actinolite+silica veinlets at 20 degrees to core axis, esp from 100.7 to 101.8m. Very narrow albite altered halos adjacent to calcite+chl veinlets. 101.9 to 102.5m, White to lt gray texture-muting Qtz+Ser alteration, silicified zone with narrow ksp veinlets at 50 dtca and sericite on fracts, cut by later gray qtz veinlets.				99.3m: 15cm wide ksp+qtz vein band at 50 dtca; 101.4m: actinolitesilica veinlets at 20 dtca; 107.35m: qtz veins at 5 dtca.	Pot1	Q+Ser1	2		Act+ silica, cc	ksp bio+mt	6	1	2	2		1	1	tr		tr	Actinolite, albite	Sil1	0.2		0.2		Sf			
MOF-5	107.55	110.95		Jrmz	Mz	M		Same gray, medium grained equigranular monzonite with minor qtz veins and narrow ksp altered envelopes. Rock is broken and locally faulted with weak pervasive chlorite alteration and chlorite on fractures. Locally brecciated and partially healed with chl+calcite veinlet matrix. Faulted surfaces generally at low core angles, from 5 to 20 dtca. Trace red-orange, resinous realgar(?) on fractures at 109.1m.	1	1	chl+cc	Faulted surfaces at 10 dtca.	Pot1	Chl1	1		Chl,cc		2	1	1	1			tr		1		1	Realgar?		0.1		0.1		Sf			
MOF-5	110.95	126.20		Jrmz	Mz	M		Gray to pinkish to faint greenish gray, coarse grained equigranular monzonite to quartz monzonite. Weak to moderate potassic alteration consisting of bio+mt repalcement of mafic minerals and local veinlets, and weak to locally strong pervasive and vein related ksp alteration. Locally abundant black bio or chl+/-mt veinlets with silica envelopes. Common ksp+/-qtz +/-actinolite and gray qtz veinlets with ksp alteration halos. Rock is densely silicified below 112m. 114.8 to 115.1m, Brown, vaguely layered granular rock(garnet?) or alteration(hem?) mineral in brecciated monzonite with dense black silica replacement and abdnt crackle veinlets. 117.5 to 119.2m, fairly abundant ksp and silica veinlets with actinolite clots and replacement of mafic minerals in wall rocks. 119.95 to 120.8m, Strong pink ksp+sericite+qtz replacement of monzonite with gray qtz veinlets. Footwall has abundant ksp and qtz veinlets.				112m: 1cm wide ksp vein at 0 dtca; 115m: black silica+hem replacement band at 65 dtca; 117.9m: black bio+mt vnlts at 45 dtca; 122m: ksp+qtz vns at 5 dtca;	Pot2	Sil2	3	0.1	ksp+ qtz, act., chl,	bio+mt	7	2	2	2		2	1	1	tr		Actinolite	Prop	0.1		0.1		Sf	1		
MOF-5	126.20	137.20		Jrmz	Mz	M		Same medium to coarse grained equigranular monzonite as previous but with abundant, bright green actinolite or possible sericite replacing mafic minerals in and adjacent to dull green gray silica+sericite(?) veinlets. Veinlets are sheeted and locally coalesce to form foliation at 20 to 30 degrees tca. Weak potassic alteration and fairly abundant dark green chlorite+silica veinlets. Pale orange-tan ksp or alb+silica veins and replacement associated with stronger silica and silica+sericite veins. 131.75m, 15cm thick band with brown, granular garnet(?) mass brecciated and healed with black silica veins. Same black silica+sericite replaces walls and is foliated at 65 degrees tca. 136.25 to 137.1m, zone of increased chl+bio+mt veins, qsp alteration and kspar altered bands. Strongest altn is 15cm band of brown garnet like mineral, brecciated and healed with gray and black qtz veins. Entire interval is densely silicified.				128.25m: sheeted silica+actinolite+seri cxite veinlets at 25 dtca; 136.25m: black bio+mt+chl veins at 40 dtca;	Prop2	Pot1	4		qtz+ser, Act, chl	Bio+mt	7	1	1	2		2	1	1			Actinolite	Q+ser	0.1		0.1		Sf			
MOF-5	137.20	166.80		Jrmzdp	Mzdp	MP		Dark gray to black crowded feldspar porphyry. Monzodiorite(?). White, euhedral to subhedral plag>k feldspar phenos to 7mm, ave 3mm. 5% euhedral hornblende phenos to 3mm. Phenos comprise 75% of rock. Dark gray to black, fine grained groundmass. Magnetic. Rock is generally fresh except for local vein related alteration. 1% gray qtz veins and veinlets. <5% orange-tan , vein-like alteration bands with sharp margins, composed of alb+silica or ksp. Green actinolite replaces mafic minerals, and locally forms selvages, adjacent to qtz veins and veinlets. 138.7 to 143.5m, >5% of interval is orange-tan albite+silica alteration veins at 20 to 35 degrees tca. 144.5 to 150.3m, <5% gray quartz veins ands veinlets with actinolite replaced mafic minerals in halos and local actinolite selvages. Sharp lower contact at 30 degrees tca.				144m: qtz+actinolite veinlets at 25 dtca; 153.6m: chl lined slip at 20 dtca; 154.5m: 2cm alb+silica or ksp vein at 25 dtca, 160.8m: qtz+act veinlets at 30 dtca; Sharp lower ctc at 30 dtca.	Prop1		1		ksp+silica, act, Qtz+ser	cc	3	tr		2		1	tr	tr			Actinolite		0.1		0.1		Sf			

				Lithology					Structure				Alteration Type		Veins				Vein Density (%	Alteration Minerals												Sulfides						Weathering /Alteration			
Hole ID	From (m)	To (m)	Sample #	Formation	Rock Type	Texture	Sketch	Description	Fault	Breccia	Infill/Gouge	Struct_Graphic	Alt Type 1	Alt Type 2	Qtz Vns (B)	Pyritic (D)	Other Vns1	Other Veins2		Hydrotherm Bio	Hydrotherm Ksp	Magnetite	Tourmaline	Silica/Quartz	Sericite	Chlorite	Epidote	Calcite	Other Mins	Other Alter	Tot Sulf (%)	Cpy (%)	Bn (%)	Py (%)	Po (%)	Other Sulf	Redox	Hematite	Limonite	% CuOx
MOF-5	166.80	192.80		Jrmz	Mz	C		Gray to grn-gray, coarse grained, euhedral monzonite. Magnetic. Greenish hue from replacement of mafic minerals by actinolite and chlorite and local greenish hue to feldspar xls. Several(<60cm) gray, non magnetic, fine feldspar porphyry dikes below 177m. Wk to mod propylitic alteration consisting of chl+actinolite replacing mafic minerals and minor actinolite+silica veins, increasing to mod below 176m. Common orange-tan ksp or alb+silica+hem vein-like alteration bands with visible primary textures. Elsewhere, opaque veins of same material without primary textures. Sparse gray qtz veins with ksp halos. 167 to 167.9m, Abundant green silica+actinolite or sericite veinlets forming foliated, shear-like bands at 20 degrees tca. Strongest shearing at 167.8m with brown f gr granular garnet or hematite stained quartz and black silica vnlts. 173.8 to 174.6m, Very soft, strongly clay altered monzonite with white smectite vnlts and fracture fill at 0 to 15 degrees tca. Below 186m, same veinlet alteration, but feldspar xls and groundmass are white and may be partially albitized.	1		smectite	167.8m: str shear or vnlt foliation at 45 dtca; 171.6m: 2cm gray qtz vein at 0 dtca; 174m: Fault with clay lined slips and low ca's and footwall slip at 25 dtca.	Prop2	Pot1	2		Act+chl+ silica, cc	Alb+sil, bio+mt	6	1	1	2	1	1	tr	Actinolite, smectite		0.1		0.1		Sf	tr		
MOF-5	192.80	202.70		Jrmzp	Mzp	FP		Gray to brownish gray, fine grained porphyritic monzonite(?). Fine grained, mostly equigranular groundmass with feldspar and hornblende xls to 1mm. <10% white euhedral feldspar phenos rarely to 3mm and hornblende and biotite phenos to 2mm. Numerous dark gray, fine grained intrusive inclusions to 3cm. Rock is fresh except for very sparse qtz, ksp and actinolite+py veinlets with ksp alteration halos. Sharp upper and lower contacts with equigranular monzonite at 20 and 35 degrees respectively.				Sharp upper contact at 20 dtca; 192.8m: alb+ silica vn cutting ctc at 10 dtca; Sharp lower ctc at 35 dtca.			0.2	0.1	Alb+silica	Act+py	1	tr	tr				tr		Actinolite		0.1		0.1		Sf			
MOF-5	202.70	213.80		Jrmz Jrmzp	Mz, Mzp	M, FP		Interfingered medium grained, equigranular monzonite(60%) and fine to medium grained porphyritic monzonite dikes(40%). Equigranular monzonite has moderate to strong, sheeted green - gray silica+actinolite veinlets and orange-tan albite+silica alteration veins and patchy alteration. Minor black chl+mt+silica veinlets. Alb+silica veins tend to be alteration veins with sharp walls, rather than open space fill, as relict intrusive textures are often faintly visible. They are often later than the silica+chl+actinolite veinlets. Trace py+chl+cc veinlets at 204.5 and 213m but absent elsewhere. Strong silica+ actinolite +chl alteration as close spaced veinlets from 206 to 210m and locally strong pervasive alb+silica+/-ksp alteration , esp from 207.5 to 208m.				Silica+chl+act veinlets at 25 dtca; 206.4m: Dike ctc at 15 dtca; 209.5m: silica +chl veinlets and dikelets at 15 dtca; 208m: cc+py veinlet at 5 dtca.	Prop2	Alb1	4	0.1	Silica+act+ chl, alb+sil	Chl+mt+bi o	9	tr		1	1	2	1	tr		Alb	0.1		0.1		Sf			
MOF-5	213.80	229.15		Jrmzp Jrmz	Mzp, Mz	Fp,Mp C		Gray to dark brown, fine to medium grained monzonite(?) porphyry with inclusions and thin septa of coarse grained, equigranular monzonite(15%). Porphyry is locally altered (pervasive alb+silica). Equigranular monzonite has weak to mod potassic alteration in form of pervasive ksp and bio+mt replacement of mafic minerals, and minor silica+actinolite veinlets. Coarse pegmatitic veins cut both rock types. consisting of coarse white sodic and pink k-feldspar xls, often growing on wallls and central cavity filled with coarse, euhedral feldspar xls and interstitial gray qtz. Chalcopyrite occurs in single qtz+chl veinlet at 217.25m in large monzonite inclusion. 224.5m to 229.15m, several cc veinlets and veins at low core angles with strong narrow bleached and chlorite altered envelopes.				217.25m: qtz+cpy veinlet at 60 dtca; 218.65m: pegmatite veins at 20 dtca; 225m: cc+chl veins at 5 dtca; 229m: cc vns w/ ksp halo at 25 dtca.	Alb1	Pot1	1	0.1	alb+silica, cc, chl,	Silica+ act	6	tr		1	1	1	tr	tr		Prop	0.2	0.1	0.1		Sf			
MOF-5	229.15	236.30		Jrmzp	Mzp	FP		Gray, fine grained monzonite(?) porphyry. Fine grained (to 1mm), equigranular to aphanitic groundmass and 5 to10% white euhedral feldspar phenos to 3mm. Non to locally very weakly magnetic. Fresh except for sparse orange-tan albite+silica veinlets and chl+cc+limonite veinlets with pink ksp alteration halos. Sparse narrow pegmatite veins with coarse feldspar and qtz xls. A few inclusions of euhedral, propyliticaly altered monzonite near lower contact.				232m: qtz+limonite vnlt at 15 dtca; 233.9m: chl+cc vnlet/ fract at 10 dtca; Lower ctc at 45 dtca.		Pot1		0.1	alb+silica, cc, chl,	ksp	1		tr	tr			tr	tr		Alb	0				Sf		tr	
MOF-5	236.30	247.60		Jrmz	Mz	C		Gray to green-gray, equigranular, medium to coarse grained monzonite. Weak to locally moderate propylitic alteration consisting of replacement of mafic minerals by actinolite, and locally abundant silica+actinolite veinlets and greenish hue to feldspar xls. Weak potassic alteration in form of local repalcement of K-feldspar xls by pink ksp. Common narrow pegmatitic veins to 5cm consisting of coarse sodic and pink k-feldspar xls often growing into central cavity occupied by coarse grained feldspar and interstitial qtz. In some veins central cavity entirely filled by gray qtz. 245.5m, 5mm calcite+white and pink talc vein at 5 dtca w/ strong chl+clay altered walls for 2cm.				239.9m: cc+chl vn w/ str clayalt'd walls; 242.7m: silica+act vnlts at 10 dtca; 245.5m: cc+chl+tacl vnlt at 5 dtca.	Prop2	Pot1	1.2		Silica+act+ chl, alb+sil	cc, chl, talc	4		tr		1	1	tr	tr	talc anhydrite	Alb	0.1		0.1		Sf		tr	

				Lithology					Structure				Alteration Type		Veins					Alteration Minerals												Sulfides						Weathering /Alteration			
Hole ID	From (m)	To (m)	Sample #	Formation	Rock Type	Texture	Sketch	Description	Fault	Breccia	Infill/Gouge	Struct_Graphic	Alt Type 1	Alt Type 2	Qtz Vns (B)	Pyritic (D)	Other Vns1	Other Veins2	Vein Density (%	Hydrotherm Bio	Hydrotherm Ksp	Magnetite	Tourmaline	Silica/Quartz	Sericite	Chlorite	Epidote	Calcite	Other Mins	Other Alter	Tot Sulf (%)	Cpy (%)	Bn (%)	Py (%)	Po (%)	Other Sulf	Redox	Hematite	Limonite	% CuOx
MOF-5	247.60	261.90		Jrmzp	Mzp	FP		Gray, fine grained monzonite(?) porphyry. Fine grained (1mm) equigranular to aphanitic groundmass and 5 to10% white euhedral feldspar phenos to 3mm. Non to locally very weakly magnetic. Fresh except for vein related silica+albite and ksp alteration and propylitic alteration from 258 to 260.5m. Numerous calcite+anhydrite+ clay veins in upper 3m of interval with narrow clay+chl alteration halos. 255 to 258m, numerous red-orange albite+silica or ksp+hem veins at low core angles, often surrounding gray qtz veins and local qtz veins with white calcite filling medial cavity. Chalcopyrite+qtz veinlet at 256m. 258 to 260.5m has strong propylitic alteration (chl+cc+hem) and sericite as abroad alteration halos around qtz/cc veins. Strongest is 8cm hydrothermal textured breccia vein at 258.5m with brecciated and silicified porphyry clasts in crustiform textured calcite with open space filled by gray qtz and calcite. Disseminated pyrite in vein and vein walls.				248.5m: cc + Anhydrite veinlet at 5 dtca; 256m: qtz+cpy veinlet at 45 dtca; 258.5m: qtz+cc bx vn at 25 dtca; 260.3m: 2cm qtz + cc vein at 10 dtca.	Prop1		1	0.1	cc+anh, chl, cc	alb+sil	3		1	tr			1		1	Anhydrite		0.3	0.1	0.2		Sf	tr	tr	
MOF-5	261.90	267.70		Jrmz	Mz	M		Gray, medium grained, equigranular monzonite and fine grained monzonite porphyry from 266.8 to 267.9m. Weak propylitic alteration in monzonite and pinkish-orange ksp or silica+albite veins and alteration veins in both rock types. Abundant low angle veins of white smectite+ calcite.				245.75m: white clay +calcite veinlet at 10 dtca; 266m: numerous white smectite+cc veins at 5 to 15 dtca.	Prop1	Arg1	0.2		alb+silica, ksp, cc	smectite	3		1	1			1		1	Smectite	Pot	0.1		0.1		Sf			
MOF-5	267.70	275.40		Jrmzp	Mzp	FP		Gray, non magnetic, fine grained monzonite(?) porphyry. Fine equigranular to aphanitic groundmass and 10% feldspar phenos to 2mm. Unaltered except for sparse orange-tan ksp alteration veinlets. A few inclusions of equigranular monzonite.				Sharp lower ctc at 55 degrees tca		Pot1	0.1		ksp, alb+silica		2		1						tr			0.1		0.1		Sf			
MOF-5	275.40	279.50		Jrmz	Mz	M		Gray, medium to coarse grained equigranular monzonite. Weak propylitic alteration consisting of chl+/-actinolite alteration of mafic minerals and minor silica+chl+act veinlets. Sparse ksp or alb+silica alteration veins. Abundant low angle fractures filled with soft calcite + white smectite+chlorite.				247.25m: white smectite+cc veins at 5 dtca.	Prop1	Arg1			Silica+act+ chl, alb+sil	Ksp	3	tr					1			Smectite, actinolite		0.1		0.1		Sf			
End of Hole		279.50																																					

HOLE ID	FROM	TO	LENGTH	RECOVERY (m)	RECOVERY %	RQD (m)	RQD
MOF-5	14.33	17.37	3.04	3.04	100	2.18	72
MOF-5	17.37	20.42	3.05	3.05	100	1.57	51
MOF-5	20.42	23.47	3.05	3.05	100	1.55	51
MOF-5	23.47	26.52	3.05	3.05	100	1.37	45
MOF-5	26.52	29.57	3.05	3.09	101	0.13	4
MOF-5	29.57	32.61	3.04	2.96	97	1.91	65
MOF-5	32.61	35.66	3.05	3.13	103	1.89	60
MOF-5	35.66	38.71	3.05	3.05	100	1.02	33
MOF-5	38.71	41.76	3.05	3.05	100	1.76	58
MOF-5	41.76	44.81	3.05	2.95	97	0.45	15
MOF-5	44.81	47.85	3.04	2.71	89	0.00	0
MOF-5	47.85	50.90	3.05	2.91	95	0.40	14
MOF-5	50.90	53.95	3.05	2.90	95	1.04	36
MOF-5	53.95	57.00	3.05	2.99	98	0.82	27
MOF-5	57.00	60.05	3.05	3.09	101	1.42	46
MOF-5	60.05	63.09	3.04	2.40	79	0.00	0
MOF-5	63.09	66.14	3.05	3.05	100	0.47	15
MOF-5	66.14	69.19	3.05	2.48	81	0.14	6
MOF-5	69.19	72.24	3.05	3.04	100	0.42	14
MOF-5	72.24	75.29	3.05	2.97	97	0.56	19
MOF-5	75.29	78.33	3.04	2.87	94	0.11	4
MOF-5	78.33	81.38	3.05	2.20	72	0.00	0
MOF-5	81.38	84.43	3.05	2.86	94	0.60	21
MOF-5	84.43	87.48	3.05	3.10	102	1.90	61
MOF-5	87.48	90.53	3.05	3.04	100	2.01	66
MOF-5	90.53	93.57	3.04	2.95	97	1.11	38
MOF-5	93.57	96.62	3.05	3.07	101	1.56	51
MOF-5	96.62	99.67	3.05	3.08	101	2.38	77
MOF-5	99.67	102.72	3.05	3.04	100	2.52	83
MOF-5	102.72	105.77	3.05	3.10	102	2.50	81
MOF-5	105.77	108.81	3.04	2.95	97	1.39	47
MOF-5	108.81	111.86	3.05	3.00	98	0.54	18
MOF-5	111.86	114.91	3.05	3.03	99	2.59	85
MOF-5	114.91	117.96	3.05	3.08	101	2.39	78
MOF-5	117.96	121.01	3.05	3.15	103	1.96	62
MOF-5	121.01	124.05	3.04	2.93	96	2.00	68
MOF-5	124.05	127.10	3.05	3.05	100	2.81	92
MOF-5	127.10	130.15	3.05	3.05	100	2.88	94
MOF-5	130.15	133.20	3.05	3.04	100	2.89	95
MOF-5	133.20	136.25	3.05	3.04	100	2.82	93
MOF-5	136.25	139.29	3.04	3.04	100	3.04	100
MOF-5	139.29	142.34	3.05	3.03	99	2.90	96
MOF-5	142.34	145.39	3.05	3.09	101	3.09	100
MOF-5	145.39	148.44	3.05	3.01	99	2.81	93
MOF-5	148.44	151.49	3.05	3.06	100	2.75	90
MOF-5	151.49	154.53	3.04	3.08	101	1.65	54
MOF-5	154.53	157.58	3.05	2.99	98	2.30	77

HOLE ID	FROM	TO	LENGTH	RECOVERY (m)	RECOVERY %	RQD (m)	RQD
MOF-5	157.58	160.63	3.05	3.05	100	2.48	81
MOF-5	160.63	163.68	3.05	3.07	101	2.92	95
MOF-5	163.68	166.73	3.05	3.05	100	2.62	86
MOF-5	166.73	169.77	3.04	2.99	98	2.40	80
MOF-5	169.77	172.82	3.05	3.05	100	2.67	88
MOF-5	172.82	175.87	3.05	3.13	103	1.84	59
MOF-5	175.87	178.92	3.05	3.01	99	2.88	96
MOF-5	178.92	181.97	3.05	3.08	101	2.72	88
MOF-5	181.97	185.01	3.04	3.00	99	2.78	93
MOF-5	185.01	188.06	3.05	3.03	99	3.03	100
MOF-5	188.06	191.11	3.05	3.07	101	2.71	88
MOF-5	191.11	194.16	3.05	3.06	100	2.85	93
MOF-5	194.16	197.21	3.05	3.15	103	3.15	100
MOF-5	197.21	200.25	3.04	3.07	101	2.60	85
MOF-5	200.25	203.30	3.05	2.87	94	2.74	95
MOF-5	203.30	206.35	3.05	3.10	102	3.00	97
MOF-5	206.35	209.40	3.05	3.06	100	2.99	98
MOF-5	209.40	212.45	3.05	3.07	101	2.85	93
MOF-5	212.45	215.49	3.04	3.03	100	2.53	83
MOF-5	215.49	218.54	3.05	2.97	97	2.72	92
MOF-5	218.54	221.59	3.05	3.11	102	2.96	95
MOF-5	221.59	224.64	3.05	3.02	99	2.38	79
MOF-5	224.64	227.69	3.05	3.07	101	1.42	46
MOF-5	227.69	230.73	3.04	3.01	99	2.11	70
MOF-5	230.73	233.78	3.05	3.10	102	2.65	85
MOF-5	233.78	236.83	3.05	2.91	95	2.21	76
MOF-5	236.83	239.88	3.05	3.07	101	2.43	79
MOF-5	239.88	242.93	3.05	2.90	95	2.01	69
MOF-5	242.93	245.97	3.04	3.06	101	1.56	51
MOF-5	245.97	249.02	3.05	3.00	98	2.16	72
MOF-5	249.02	252.07	3.05	3.03	99	2.10	69
MOF-5	252.07	255.12	3.05	3.04	100	2.06	68
MOF-5	255.12	258.17	3.05	3.12	102	2.32	74
MOF-5	258.17	261.21	3.04	3.04	100	2.03	67
MOF-5	261.21	264.26	3.05	3.10	102	2.03	65
MOF-5	264.26	267.31	3.05	3.07	101	1.43	47
MOF-5	267.31	270.36	3.05	3.11	102	1.42	46
MOF-5	270.36	273.41	3.05	3.01	99	2.54	84
MOF-5	273.41	276.45	3.04	3.04	100	2.20	72
MOF-5	276.45	279.50	3.05	3.06	100	1.52	50

Appendix C:
Laboratory Analytical Certificates

Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada

www.acmelab.com

Client: **Coast Mountain Geological**
620 - 650 W. Georgia St.
PO Box 11604
Vancouver BC V6B 4N9 Canada

Submitted By: Rich Parish
Receiving Lab: Canada-Vancouver
Received: December 05, 2011
Report Date: January 06, 2012
Page: 1 of 4

CERTIFICATE OF ANALYSIS VAN11006713.1

CLIENT JOB INFORMATION

Project: Moffat
Shipment ID: #4
P.O. Number
Number of Samples: 76

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	73	Crush, split and pulverize 250 g rock to 200 mesh			VAN
1DX2	76	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

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

ADDITIONAL COMMENTS

Invoice To: Coast Mountain Geological
620 - 650 W. Georgia St.
PO Box 11604
Vancouver BC V6B 4N9
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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.

Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716
www.acmelab.com

Client: **Coast Mountain Geological**
620 - 650 W. Georgia St.
PO Box 11604
Vancouver BC V6B 4N9 Canada

Project: Moffat
Report Date: January 06, 2012

CERTIFICATE OF ANALYSIS VAN11006713.1

Method		WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
16943	Drill Core	7.13	7.6	22.8	5.3	12	0.2	2.5	5.1	182	1.63	0.8	2.2	2.8	37	<0.1	<0.1	<0.1	48	0.83	0.065
16944	Drill Core	7.62	10.2	26.2	4.3	11	0.1	3.6	2.9	122	0.96	<0.5	2.3	4.5	23	<0.1	<0.1	<0.1	23	0.42	0.041
16945	Drill Core	5.75	7.8	50.2	3.0	9	0.2	1.7	3.8	179	1.71	0.6	2.2	1.8	28	<0.1	<0.1	<0.1	56	0.97	0.076
16946	Drill Core	8.08	5.2	33.5	2.7	10	0.1	3.5	3.0	137	0.89	0.8	2.9	4.4	21	<0.1	0.1	<0.1	22	0.60	0.043
16947	Drill Core	5.50	6.5	64.4	3.0	9	0.1	3.7	3.1	157	1.03	0.8	2.9	4.8	25	<0.1	0.1	<0.1	22	0.87	0.041
16948	Drill Core	9.71	39.6	246.3	2.6	13	0.6	2.5	6.0	338	1.97	6.5	7.6	2.6	54	<0.1	0.9	0.1	56	2.10	0.073
16949	Drill Core	1.44	1.7	26.3	3.2	5	<0.1	1.0	1.5	110	0.72	<0.5	2.8	6.7	20	<0.1	0.2	<0.1	14	0.60	0.018
16950	Drill Core	7.63	2.3	44.3	2.0	11	<0.1	1.9	5.7	314	2.25	<0.5	2.5	4.1	73	<0.1	0.2	<0.1	66	1.22	0.092
16951	Drill Core	4.62	1.7	12.8	3.0	14	<0.1	4.2	2.9	242	1.14	0.5	21.9	5.0	80	<0.1	0.2	<0.1	24	1.03	0.045
16952	Drill Core	4.38	2.8	33.5	1.7	13	<0.1	2.6	7.2	357	2.56	0.8	7.6	4.5	54	<0.1	0.2	<0.1	76	1.56	0.092
16953	Drill Core	4.52	1.3	6.4	1.9	13	<0.1	2.3	7.2	445	2.72	1.0	2.2	4.9	140	<0.1	0.2	<0.1	75	2.86	0.090
16954	Drill Core	7.30	5.8	157.8	2.6	13	0.2	2.2	5.3	398	2.47	0.8	4.4	3.4	67	<0.1	0.3	<0.1	71	1.65	0.079
16955	Drill Core	6.55	2.6	25.4	2.2	17	<0.1	2.0	5.8	387	2.42	0.6	3.2	2.4	43	<0.1	0.1	0.1	68	1.10	0.086
16956	Drill Core	7.60	4.9	52.0	2.4	14	0.1	1.8	5.8	326	2.11	0.6	9.4	3.1	46	<0.1	0.2	<0.1	53	1.51	0.067
16957	Drill Core	6.13	14.5	55.9	1.8	12	<0.1	2.7	6.0	350	2.38	0.9	4.6	3.0	40	<0.1	0.2	<0.1	73	1.47	0.092
16958	Drill Core	2.83	21.0	1204	2.8	12	2.5	1.9	6.9	447	2.12	4.7	47.7	2.8	59	0.2	1.1	0.4	50	2.82	0.082
16959	Drill Core	5.37	5.8	152.9	2.3	14	0.1	2.4	6.1	404	2.22	1.1	5.8	2.9	58	<0.1	0.5	<0.1	60	2.47	0.077
16960	Rock Pulp	0.09	427.3	2462	25.1	47	13.9	15.0	7.2	457	2.77	15.5	220.8	2.0	144	<0.1	31.7	1.6	49	1.18	0.046
16961	Drill Core	5.42	10.5	169.1	20.7	33	0.8	1.9	7.0	499	1.94	11.7	62.4	2.7	68	0.3	26.8	0.2	35	3.32	0.076
16962	Drill Core	8.86	8.1	97.3	3.4	12	0.2	1.9	5.6	558	1.78	1.5	61.6	2.7	62	<0.1	1.1	<0.1	38	4.17	0.070
16963	Drill Core	5.55	8.8	38.0	5.3	19	0.2	9.8	5.2	352	1.24	2.6	17.4	6.9	58	0.1	3.7	<0.1	18	2.74	0.053
16964	Drill Core	6.04	17.2	15.3	4.4	20	<0.1	8.5	5.4	498	1.29	1.5	17.7	6.9	66	<0.1	0.6	<0.1	18	4.22	0.051
16965	Drill Core	9.10	2.6	34.7	2.4	13	<0.1	3.5	6.5	269	2.36	1.0	6.9	4.1	59	<0.1	0.8	<0.1	63	1.53	0.080
16966	Drill Core	7.58	1.4	7.6	1.9	11	<0.1	2.0	5.0	314	2.37	0.9	2.6	2.9	78	<0.1	0.1	<0.1	77	1.17	0.101
16967	Drill Core	8.27	1.1	29.9	1.9	10	<0.1	3.0	4.9	276	2.37	1.1	6.2	2.0	79	<0.1	0.2	<0.1	76	1.19	0.096
16968	Drill Core	8.15	1.8	96.1	2.3	9	0.1	2.9	5.0	238	2.32	0.7	4.2	2.2	48	<0.1	0.1	<0.1	74	1.06	0.099
16969	Drill Core	6.49	2.2	4.1	1.6	10	<0.1	3.4	5.4	284	2.34	0.6	2.3	2.6	90	<0.1	0.2	<0.1	79	1.23	0.103
16970	Drill Core	6.99	1.3	11.9	1.4	8	<0.1	2.0	4.6	259	2.15	0.5	1.7	2.8	80	<0.1	0.1	<0.1	66	1.00	0.092
16971	Drill Core	5.59	1.4	6.9	1.3	8	<0.1	2.3	3.7	226	1.84	0.6	1.3	2.3	84	<0.1	0.1	<0.1	63	1.01	0.088
16972	Drill Core	7.17	1.7	267.7	1.5	9	0.3	2.4	5.0	242	2.09	1.0	9.3	2.6	110	<0.1	0.2	<0.1	67	1.38	0.097

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Project: Moffat
Report Date: January 06, 2012

CERTIFICATE OF ANALYSIS VAN11006713.1

Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
16943	Drill Core	6	9	0.39	84	0.103	<1	0.76	0.097	0.22	4.0	<0.01	1.5	<0.1	<0.05	3	<0.5	<0.2
16944	Drill Core	14	16	0.33	66	0.082	1	0.45	0.082	0.17	0.7	<0.01	1.0	<0.1	<0.05	3	<0.5	<0.2
16945	Drill Core	7	6	0.26	75	0.095	<1	0.48	0.070	0.12	1.9	<0.01	1.1	<0.1	<0.05	3	<0.5	<0.2
16946	Drill Core	14	15	0.35	51	0.074	<1	0.45	0.079	0.11	2.3	0.01	1.1	<0.1	0.05	3	<0.5	<0.2
16947	Drill Core	16	13	0.38	55	0.067	1	0.49	0.079	0.15	0.6	0.03	1.5	<0.1	0.09	3	<0.5	<0.2
16948	Drill Core	8	8	0.40	86	0.055	3	0.81	0.072	0.13	6.7	0.09	2.9	<0.1	<0.05	4	<0.5	<0.2
16949	Drill Core	8	7	0.14	49	0.017	<1	0.30	0.050	0.10	0.4	0.21	0.6	<0.1	<0.05	1	<0.5	<0.2
16950	Drill Core	9	7	0.49	272	0.121	3	0.72	0.091	0.15	2.5	0.03	2.1	<0.1	<0.05	4	<0.5	<0.2
16951	Drill Core	15	13	0.41	171	0.065	<1	0.58	0.072	0.17	0.5	0.17	1.5	<0.1	<0.05	3	<0.5	<0.2
16952	Drill Core	8	6	0.88	83	0.104	2	0.97	0.098	0.16	5.7	0.06	3.2	<0.1	<0.05	4	<0.5	<0.2
16953	Drill Core	8	5	0.68	83	0.058	<1	1.35	0.053	0.14	0.6	0.17	3.2	<0.1	<0.05	5	<0.5	<0.2
16954	Drill Core	8	8	0.55	125	0.110	2	1.00	0.100	0.15	8.2	0.06	2.7	<0.1	<0.05	5	<0.5	<0.2
16955	Drill Core	8	5	0.49	111	0.113	<1	0.70	0.100	0.15	3.5	0.05	2.0	0.1	<0.05	4	<0.5	<0.2
16956	Drill Core	7	7	0.44	83	0.066	2	0.82	0.071	0.16	5.7	0.09	2.2	<0.1	<0.05	4	<0.5	<0.2
16957	Drill Core	9	7	0.60	79	0.098	1	0.78	0.079	0.13	29.9	0.23	2.7	<0.1	<0.05	4	<0.5	<0.2
16958	Drill Core	9	5	0.41	88	0.031	3	0.88	0.046	0.17	86.7	0.49	2.9	<0.1	0.28	3	0.5	0.4
16959	Drill Core	8	5	0.53	45	0.036	2	1.12	0.047	0.12	3.1	1.48	3.4	<0.1	<0.05	4	<0.5	<0.2
16960	Rock Pulp	6	21	0.46	212	0.088	2	1.18	0.143	0.24	0.6	0.59	1.7	<0.1	0.40	4	<0.5	0.7
16961	Drill Core	6	4	0.35	137	0.002	5	1.08	0.016	0.26	3.3	0.40	3.2	<0.1	0.53	3	<0.5	0.3
16962	Drill Core	8	5	0.36	73	0.008	5	1.07	0.020	0.19	3.3	0.31	3.0	<0.1	0.16	3	<0.5	<0.2
16963	Drill Core	14	19	0.35	76	0.005	4	0.89	0.029	0.23	1.2	0.70	2.5	<0.1	0.14	2	<0.5	<0.2
16964	Drill Core	17	14	0.39	100	0.004	3	1.06	0.018	0.17	0.3	0.23	2.4	<0.1	0.06	3	<0.5	<0.2
16965	Drill Core	7	6	0.50	166	0.059	1	1.21	0.054	0.19	4.0	0.14	2.6	<0.1	<0.05	5	0.6	<0.2
16966	Drill Core	7	7	0.51	376	0.108	2	0.77	0.100	0.11	1.7	0.03	2.0	<0.1	<0.05	4	<0.5	<0.2
16967	Drill Core	7	7	0.55	148	0.097	<1	0.79	0.099	0.12	2.8	0.04	1.8	<0.1	<0.05	3	0.6	<0.2
16968	Drill Core	7	4	0.47	91	0.105	2	0.69	0.103	0.12	3.6	0.02	1.8	<0.1	<0.05	3	<0.5	<0.2
16969	Drill Core	7	8	0.47	81	0.135	1	1.05	0.123	0.20	3.3	<0.01	1.8	<0.1	<0.05	5	<0.5	<0.2
16970	Drill Core	6	4	0.36	149	0.115	1	0.90	0.137	0.14	2.2	<0.01	1.4	<0.1	<0.05	4	<0.5	<0.2
16971	Drill Core	6	7	0.34	116	0.104	1	0.65	0.101	0.10	1.1	<0.01	1.1	<0.1	<0.05	3	<0.5	<0.2
16972	Drill Core	7	4	0.46	180	0.076	2	0.72	0.073	0.12	4.9	0.02	2.0	<0.1	<0.05	3	0.6	<0.2

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CERTIFICATE OF ANALYSIS VAN11006713.1

Method		WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
16973	Drill Core	7.73	1.6	23.5	2.7	10	<0.1	2.6	5.6	296	2.49	0.8	3.6	3.0	66	<0.1	0.1	<0.1	84	1.04	0.092
16974	Drill Core	8.17	1.4	7.1	1.8	8	<0.1	2.6	6.5	299	2.24	0.9	2.4	3.5	77	<0.1	0.2	0.1	71	1.27	0.089
16975	Drill Core	6.90	7.1	23.9	2.4	14	<0.1	2.3	6.4	364	2.43	0.7	6.9	3.4	58	<0.1	0.2	<0.1	73	1.73	0.090
16976	Drill Core	6.15	0.6	4.4	1.4	7	<0.1	1.5	2.5	166	1.41	0.9	11.1	2.4	26	0.1	0.2	<0.1	39	0.71	0.042
16977	Drill Core	7.32	1.0	6.0	1.1	8	<0.1	1.8	4.0	218	1.91	0.8	3.5	2.5	59	<0.1	0.2	<0.1	59	0.76	0.061
16978	Drill Core	8.73	1.4	9.4	1.1	7	<0.1	1.9	3.2	148	1.78	<0.5	<0.5	2.1	46	<0.1	<0.1	<0.1	61	0.60	0.069
16979	Drill Core	7.83	1.5	6.1	1.0	6	<0.1	1.5	3.1	157	1.86	0.9	3.7	2.0	33	<0.1	<0.1	<0.1	64	0.62	0.064
16980	Rock Pulp	0.09	7.2	22.0	1.8	22	<0.1	10.4	2.6	359	1.93	1.4	3.8	2.6	8	<0.1	0.2	<0.1	15	0.12	0.017
16981	Drill Core	7.62	2.1	5.9	1.3	6	<0.1	1.4	3.1	121	1.55	0.6	3.7	2.2	24	<0.1	<0.1	<0.1	49	0.44	0.049
16982	Drill Core	9.53	0.7	9.6	1.4	7	<0.1	1.8	2.7	108	1.49	1.0	1.1	3.2	33	<0.1	<0.1	<0.1	52	0.48	0.052
16983	Drill Core	9.60	6.3	6.4	1.4	6	<0.1	1.6	2.8	117	1.61	0.6	4.9	2.5	82	<0.1	<0.1	<0.1	55	0.69	0.057
16984	Drill Core	9.28	1.5	11.6	1.1	6	<0.1	1.5	2.7	132	1.61	<0.5	5.0	1.9	36	<0.1	<0.1	<0.1	59	0.63	0.056
16985	Drill Core	8.90	0.5	7.3	1.5	7	<0.1	1.8	3.5	144	1.80	1.3	7.8	2.0	34	<0.1	0.1	<0.1	59	0.87	0.059
16986	Drill Core	8.80	0.4	5.4	1.5	6	<0.1	1.7	3.0	112	1.75	1.0	7.2	3.6	35	<0.1	<0.1	<0.1	58	0.61	0.060
16987	Drill Core	9.21	0.9	3.6	1.6	6	<0.1	1.5	2.4	96	1.52	0.9	4.8	2.5	26	<0.1	<0.1	<0.1	58	0.42	0.055
16988	Drill Core	6.94	1.1	6.2	1.5	8	<0.1	1.9	2.5	107	1.52	0.9	3.3	2.6	49	<0.1	<0.1	<0.1	49	0.43	0.050
16989	Drill Core	8.91	0.5	1.9	0.9	5	<0.1	1.0	2.5	117	1.44	1.0	3.4	2.7	44	<0.1	<0.1	<0.1	52	0.65	0.057
16990	Drill Core	8.79	0.5	3.2	1.2	7	<0.1	2.4	3.1	210	1.33	0.7	3.2	3.2	66	<0.1	0.1	<0.1	43	1.12	0.057
16991	Drill Core	9.57	0.8	1.8	1.1	6	<0.1	2.2	2.8	181	1.51	0.9	3.9	4.1	33	<0.1	<0.1	<0.1	51	0.81	0.059
16992	Drill Core	9.30	0.4	1.6	1.0	6	<0.1	3.1	2.5	117	1.33	<0.5	3.6	3.2	20	<0.1	<0.1	<0.1	47	0.40	0.054
16993	Drill Core	9.25	0.3	1.9	1.3	5	<0.1	2.5	2.3	114	1.34	<0.5	2.0	3.8	22	<0.1	<0.1	<0.1	46	0.36	0.051
16994	Drill Core	8.22	0.8	2.6	1.1	5	<0.1	2.1	2.7	115	1.42	<0.5	3.4	3.8	24	<0.1	0.1	<0.1	51	0.41	0.058
16995	Drill Core	10.34	0.4	1.8	1.5	9	<0.1	6.9	2.2	102	0.86	0.6	5.0	7.2	28	<0.1	<0.1	<0.1	23	0.40	0.055
16996	Drill Core	9.85	0.6	1.3	1.5	11	<0.1	8.3	2.5	110	0.88	<0.5	1.9	8.0	37	<0.1	<0.1	<0.1	20	0.40	0.049
16997	Drill Core	8.53	0.9	3.6	1.5	5	<0.1	2.9	2.5	129	1.61	<0.5	<0.5	5.2	25	<0.1	<0.1	<0.1	55	0.45	0.061
16998	Drill Core	7.37	1.2	11.1	1.5	6	<0.1	3.3	2.3	130	1.40	0.5	0.6	7.2	21	<0.1	<0.1	<0.1	42	0.38	0.043
16999	Drill Core	7.23	0.9	6.1	2.6	7	<0.1	3.3	2.3	136	1.28	<0.5	14.8	6.9	20	<0.1	<0.1	<0.1	38	0.42	0.048
17000	Rock Pulp	0.09	361.6	1829	22.0	42	12.2	12.9	6.6	447	2.64	14.5	175.4	1.9	127	0.8	27.9	1.9	52	1.09	0.047
17001	Drill Core	8.47	1.0	12.7	2.1	10	<0.1	7.7	2.8	155	1.08	0.8	1.4	6.7	38	<0.1	0.1	<0.1	29	0.61	0.054
17002	Drill Core	8.43	0.5	10.4	2.4	6	<0.1	4.5	2.2	127	1.24	0.5	4.6	8.7	36	<0.1	0.1	<0.1	32	0.49	0.053

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	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
16973	Drill Core	7	6	0.38	78	0.134	<1	0.78	0.112	0.14	3.0	<0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
16974	Drill Core	8	6	0.41	106	0.134	<1	0.97	0.123	0.20	1.6	<0.01	2.2	0.1	<0.05	4	<0.5	<0.2
16975	Drill Core	8	5	0.46	160	0.090	<1	0.65	0.085	0.14	2.3	<0.01	3.0	<0.1	<0.05	3	<0.5	<0.2
16976	Drill Core	4	6	0.19	57	0.049	<1	0.37	0.067	0.10	0.5	0.02	1.1	<0.1	<0.05	2	<0.5	<0.2
16977	Drill Core	5	4	0.27	74	0.068	<1	0.62	0.080	0.12	0.8	0.01	1.5	<0.1	<0.05	3	<0.5	<0.2
16978	Drill Core	5	8	0.20	48	0.068	<1	0.39	0.081	0.10	1.1	<0.01	1.0	<0.1	<0.05	2	<0.5	<0.2
16979	Drill Core	4	5	0.17	46	0.057	<1	0.37	0.071	0.08	0.7	<0.01	1.1	<0.1	<0.05	2	<0.5	<0.2
16980	Rock Pulp	6	19	0.23	147	0.083	<1	0.51	0.070	0.36	0.3	<0.01	2.8	0.1	<0.05	2	<0.5	<0.2
16981	Drill Core	5	8	0.15	63	0.066	<1	0.28	0.059	0.10	0.4	<0.01	0.8	<0.1	<0.05	2	<0.5	<0.2
16982	Drill Core	6	6	0.14	59	0.055	<1	0.29	0.054	0.06	0.5	<0.01	0.8	<0.1	<0.05	2	<0.5	<0.2
16983	Drill Core	6	7	0.19	94	0.060	<1	0.37	0.070	0.08	0.5	<0.01	1.1	<0.1	<0.05	2	<0.5	<0.2
16984	Drill Core	5	6	0.20	184	0.056	<1	0.31	0.063	0.07	0.5	0.02	1.2	<0.1	<0.05	2	<0.5	<0.2
16985	Drill Core	5	8	0.27	56	0.056	<1	0.41	0.064	0.07	0.4	0.02	1.5	<0.1	<0.05	2	<0.5	<0.2
16986	Drill Core	7	7	0.16	88	0.061	<1	0.32	0.062	0.07	0.4	<0.01	0.9	<0.1	<0.05	2	<0.5	<0.2
16987	Drill Core	5	9	0.10	51	0.058	<1	0.26	0.063	0.06	0.6	<0.01	0.8	<0.1	<0.05	2	<0.5	<0.2
16988	Drill Core	5	6	0.14	55	0.055	<1	0.31	0.058	0.05	0.3	<0.01	0.9	<0.1	<0.05	2	<0.5	<0.2
16989	Drill Core	5	6	0.16	66	0.057	<1	0.42	0.074	0.07	0.6	<0.01	0.9	<0.1	<0.05	2	<0.5	<0.2
16990	Drill Core	6	5	0.27	87	0.041	<1	0.48	0.043	0.07	0.6	0.02	1.3	<0.1	<0.05	2	<0.5	<0.2
16991	Drill Core	7	9	0.24	56	0.065	<1	0.37	0.074	0.08	3.3	<0.01	1.4	<0.1	<0.05	2	<0.5	<0.2
16992	Drill Core	8	7	0.18	40	0.058	<1	0.26	0.053	0.09	0.3	<0.01	0.8	<0.1	<0.05	2	<0.5	<0.2
16993	Drill Core	6	8	0.14	42	0.065	<1	0.26	0.066	0.09	0.2	<0.01	0.7	<0.1	<0.05	2	<0.5	<0.2
16994	Drill Core	6	6	0.14	45	0.065	<1	0.27	0.071	0.11	0.3	<0.01	0.7	<0.1	<0.05	2	<0.5	<0.2
16995	Drill Core	18	23	0.25	68	0.064	<1	0.28	0.070	0.13	0.2	<0.01	0.9	<0.1	<0.05	2	<0.5	<0.2
16996	Drill Core	22	20	0.30	94	0.072	<1	0.36	0.085	0.17	0.2	<0.01	1.2	<0.1	<0.05	2	<0.5	<0.2
16997	Drill Core	8	11	0.12	49	0.073	<1	0.24	0.079	0.10	0.3	<0.01	0.7	<0.1	<0.05	2	<0.5	<0.2
16998	Drill Core	8	8	0.12	43	0.059	<1	0.23	0.067	0.10	0.8	<0.01	0.8	<0.1	<0.05	2	<0.5	<0.2
16999	Drill Core	9	12	0.15	49	0.062	<1	0.25	0.073	0.11	0.4	<0.01	0.8	<0.1	<0.05	2	<0.5	<0.2
17000	Rock Pulp	6	20	0.46	205	0.082	<1	1.11	0.131	0.23	0.6	0.45	2.0	<0.1	0.29	3	<0.5	1.1
17001	Drill Core	17	18	0.32	79	0.065	<1	0.41	0.073	0.12	0.9	<0.01	1.1	<0.1	<0.05	2	<0.5	<0.2
17002	Drill Core	13	17	0.16	111	0.065	<1	0.30	0.075	0.11	0.3	0.02	0.8	<0.1	<0.05	2	<0.5	<0.2

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CERTIFICATE OF ANALYSIS VAN11006713.1

Method		WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
17003	Drill Core	7.46	1.0	55.6	3.1	10	0.1	5.2	4.7	310	2.61	0.9	30.3	8.4	104	<0.1	0.3	0.2	81	1.19	0.069
17004	Drill Core	8.26	0.5	4.9	3.9	7	<0.1	4.8	3.1	201	1.29	0.7	12.4	5.7	101	<0.1	0.1	<0.1	36	1.15	0.062
17005	Drill Core	9.33	0.7	2.8	2.5	13	<0.1	10.8	3.2	161	1.03	0.5	1.5	9.0	41	<0.1	<0.1	<0.1	25	0.57	0.057
17006	Drill Core	5.55	0.3	2.2	2.1	14	<0.1	10.6	3.7	178	1.34	0.9	3.1	8.9	57	<0.1	<0.1	<0.1	34	0.58	0.064
17007	Drill Core	8.58	1.3	28.4	1.8	8	0.1	4.0	3.2	262	1.70	0.6	20.5	4.7	47	<0.1	0.2	<0.1	57	1.09	0.073
17008	Drill Core	7.77	1.2	19.5	1.3	6	0.2	2.8	3.1	146	1.74	<0.5	4.2	2.1	25	<0.1	<0.1	<0.1	62	0.50	0.071
17009	Drill Core	7.86	0.6	37.3	1.5	7	<0.1	2.1	3.0	191	1.55	0.5	<0.5	3.6	88	<0.1	0.2	<0.1	48	1.04	0.058
17010	Drill Core	8.83	0.6	6.0	3.0	13	<0.1	10.8	3.3	285	1.02	<0.5	1.4	8.3	102	<0.1	0.2	<0.1	24	1.33	0.052
17011	Drill Core	7.80	2.0	65.6	4.9	17	0.9	10.5	3.9	220	1.05	4.2	7036	10.2	85	0.2	17.6	<0.1	63	1.11	0.056
17012	Drill Core	5.22	20.3	78.0	10.9	14	0.5	4.5	4.8	384	1.58	12.9	1666	3.3	60	0.1	22.1	<0.1	170	2.56	0.073
17013	Drill Core	4.70	23.6	35.3	18.3	15	0.5	5.7	6.4	385	1.87	19.0	1703	4.4	62	0.1	2.5	<0.1	119	3.17	0.071
17014	Drill Core	3.54	12.9	33.9	16.4	19	0.2	12.4	5.3	346	1.19	3.5	491.0	9.6	96	0.1	5.9	<0.1	52	2.21	0.053
17015	Drill Core	10.22	5.3	56.5	2.4	9	<0.1	4.5	3.5	217	1.70	1.0	103.9	6.0	94	<0.1	1.3	<0.1	58	1.39	0.072
17016	Drill Core	6.01	1.4	19.3	3.3	11	<0.1	6.2	3.3	147	1.35	<0.5	57.4	7.8	55	<0.1	0.3	<0.1	48	0.57	0.067
17017	Drill Core	10.08	0.4	7.5	4.2	12	<0.1	11.3	3.1	150	1.06	<0.5	37.2	6.6	36	<0.1	<0.1	<0.1	32	0.59	0.067
17018	Drill Core	7.83	5.6	51.0	2.7	9	<0.1	5.0	4.3	183	1.71	1.0	20.5	4.7	75	<0.1	2.0	<0.1	62	0.96	0.077

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Vancouver BC V6B 4N9 Canada

Project: Moffat
Report Date: January 06, 2012

CERTIFICATE OF ANALYSIS VAN11006713.1

Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
17003	Drill Core	10	10	0.21	119	0.064	<1	0.43	0.067	0.10	0.8	0.07	1.5	<0.1	<0.05	3	<0.5	0.2
17004	Drill Core	12	14	0.27	170	0.070	<1	0.54	0.080	0.11	0.5	0.04	1.5	<0.1	<0.05	2	<0.5	<0.2
17005	Drill Core	25	25	0.42	134	0.078	<1	0.47	0.073	0.19	0.4	0.02	1.3	<0.1	<0.05	3	<0.5	<0.2
17006	Drill Core	23	23	0.42	165	0.087	<1	0.57	0.079	0.20	0.2	0.01	1.4	<0.1	<0.05	3	<0.5	<0.2
17007	Drill Core	9	9	0.23	88	0.072	<1	0.37	0.064	0.09	1.7	0.04	1.2	<0.1	<0.05	2	<0.5	<0.2
17008	Drill Core	6	7	0.19	54	0.072	<1	0.29	0.072	0.08	2.0	<0.01	1.0	<0.1	<0.05	2	<0.5	<0.2
17009	Drill Core	6	5	0.26	111	0.057	<1	0.45	0.056	0.07	1.5	0.02	1.2	<0.1	<0.05	2	<0.5	<0.2
17010	Drill Core	20	26	0.36	153	0.063	<1	0.49	0.064	0.14	0.9	0.11	1.3	<0.1	<0.05	2	<0.5	<0.2
17011	Drill Core	22	27	0.45	136	0.071	<1	0.54	0.068	0.15	1.7	3.28	1.9	<0.1	0.07	2	<0.5	9.1
17012	Drill Core	8	8	0.28	56	0.029	2	0.59	0.042	0.19	2.6	6.69	3.3	<0.1	0.47	2	<0.5	5.8
17013	Drill Core	8	8	0.29	57	0.001	2	0.96	0.011	0.21	0.6	9.41	3.5	<0.1	0.44	3	<0.5	6.4
17014	Drill Core	22	20	0.34	160	0.017	2	0.65	0.041	0.22	0.4	1.72	2.6	<0.1	0.21	2	<0.5	1.2
17015	Drill Core	12	10	0.26	138	0.095	<1	0.47	0.072	0.11	3.1	0.50	1.2	<0.1	<0.05	2	<0.5	0.2
17016	Drill Core	16	15	0.25	104	0.110	<1	0.46	0.075	0.14	0.8	0.08	0.7	<0.1	<0.05	2	<0.5	<0.2
17017	Drill Core	20	23	0.34	90	0.102	<1	0.45	0.092	0.14	0.5	0.03	1.1	<0.1	<0.05	2	<0.5	<0.2
17018	Drill Core	12	13	0.28	126	0.107	<1	0.52	0.076	0.12	1.1	0.17	1.0	<0.1	<0.05	2	<0.5	<0.2

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Report Date: January 06, 2012

QUALITY CONTROL REPORT VAN11006713.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
16955	Drill Core	6.55	2.6	25.4	2.2	17	<0.1	2.0	5.8	387	2.42	0.6	3.2	2.4	43	<0.1	0.1	0.1	68	1.10	0.086
REP 16955	QC		2.5	23.3	2.2	16	<0.1	1.9	5.3	361	2.34	0.6	4.5	2.3	42	<0.1	0.2	<0.1	66	1.01	0.084
16973	Drill Core	7.73	1.6	23.5	2.7	10	<0.1	2.6	5.6	296	2.49	0.8	3.6	3.0	66	<0.1	0.1	<0.1	84	1.04	0.092
REP 16973	QC		1.4	22.7	2.1	10	<0.1	2.6	5.5	287	2.48	0.7	3.1	3.1	63	<0.1	<0.1	<0.1	83	1.03	0.092
16977	Drill Core	7.32	1.0	6.0	1.1	8	<0.1	1.8	4.0	218	1.91	0.8	3.5	2.5	59	<0.1	0.2	<0.1	59	0.76	0.061
REP 16977	QC		0.9	5.6	1.2	8	<0.1	1.6	3.7	213	1.85	0.7	3.2	2.4	57	<0.1	0.1	<0.1	59	0.74	0.061
16994	Drill Core	8.22	0.8	2.6	1.1	5	<0.1	2.1	2.7	115	1.42	<0.5	3.4	3.8	24	<0.1	0.1	<0.1	51	0.41	0.058
REP 16994	QC		0.6	2.6	1.1	6	<0.1	2.6	2.6	118	1.47	0.7	2.7	3.9	24	<0.1	<0.1	<0.1	51	0.42	0.059
17016	Drill Core	6.01	1.4	19.3	3.3	11	<0.1	6.2	3.3	147	1.35	<0.5	57.4	7.8	55	<0.1	0.3	<0.1	48	0.57	0.067
REP 17016	QC		1.3	18.6	4.6	10	<0.1	6.3	3.1	138	1.33	0.7	26.1	7.5	51	<0.1	0.3	<0.1	47	0.50	0.059
Core Reject Duplicates																					
16972	Drill Core	7.17	1.7	267.7	1.5	9	0.3	2.4	5.0	242	2.09	1.0	9.3	2.6	110	<0.1	0.2	<0.1	67	1.38	0.097
DUP 16972	QC		1.8	288.5	1.8	9	0.3	2.5	4.9	243	2.02	0.7	14.1	3.1	94	<0.1	0.2	0.1	68	1.35	0.088
17007	Drill Core	8.58	1.3	28.4	1.8	8	0.1	4.0	3.2	262	1.70	0.6	20.5	4.7	47	<0.1	0.2	<0.1	57	1.09	0.073
DUP 17007	QC		1.1	25.0	1.9	7	<0.1	3.1	3.3	269	1.74	0.6	24.4	4.6	51	<0.1	0.1	<0.1	57	1.15	0.074
Reference Materials																					
STD DS8	Standard		13.5	114.3	126.9	318	1.8	39.6	7.9	617	2.54	25.8	115.8	8.2	77	2.4	5.6	5.5	43	0.77	0.075
STD DS8	Standard		12.3	108.3	126.5	309	1.8	37.0	7.3	595	2.53	26.2	129.9	7.1	70	2.6	6.2	7.2	40	0.67	0.082
STD DS8	Standard		14.3	124.4	124.4	315	1.8	39.5	8.0	646	2.52	26.2	104.7	7.9	72	2.7	5.4	6.6	43	0.74	0.071
STD DS8	Standard		11.3	95.7	109.2	275	1.6	32.2	6.4	543	2.16	22.1	96.8	5.9	59	1.7	5.1	6.1	38	0.63	0.065
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
BLK	Blank		<0.1	<0.1	0.2	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	0.7	<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	2.1	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
Prep Wash																					
G1	Prep Blank	<0.01	<0.1	2.3	18.2	62	0.9	2.7	3.8	564	2.04	0.9	2.7	6.4	67	<0.1	<0.1	<0.1	37	0.52	0.073
G1	Prep Blank	<0.01	0.2	2.3	17.5	68	0.5	3.1	3.8	553	1.96	<0.5	0.9	6.3	70	<0.1	<0.1	<0.1	36	0.49	0.070

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Project: Moffat
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QUALITY CONTROL REPORT VAN11006713.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																		
16955	Drill Core	8	5	0.49	111	0.113	<1	0.70	0.100	0.15	3.5	0.05	2.0	0.1	<0.05	4	<0.5	<0.2
REP 16955	QC	7	7	0.47	107	0.107	<1	0.72	0.099	0.15	3.3	0.04	1.7	<0.1	<0.05	4	<0.5	<0.2
16973	Drill Core	7	6	0.38	78	0.134	<1	0.78	0.112	0.14	3.0	<0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
REP 16973	QC	6	6	0.38	76	0.136	1	0.77	0.109	0.14	3.0	<0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
16977	Drill Core	5	4	0.27	74	0.068	<1	0.62	0.080	0.12	0.8	0.01	1.5	<0.1	<0.05	3	<0.5	<0.2
REP 16977	QC	5	4	0.26	68	0.065	<1	0.59	0.076	0.11	0.8	0.01	1.4	<0.1	<0.05	3	<0.5	<0.2
16994	Drill Core	6	6	0.14	45	0.065	<1	0.27	0.071	0.11	0.3	<0.01	0.7	<0.1	<0.05	2	<0.5	<0.2
REP 16994	QC	6	6	0.15	46	0.069	<1	0.28	0.075	0.12	0.3	<0.01	0.7	<0.1	<0.05	2	<0.5	<0.2
17016	Drill Core	16	15	0.25	104	0.110	<1	0.46	0.075	0.14	0.8	0.08	0.7	<0.1	<0.05	2	<0.5	<0.2
REP 17016	QC	15	15	0.24	97	0.102	<1	0.45	0.073	0.13	0.7	0.07	0.6	<0.1	<0.05	2	<0.5	<0.2
Core Reject Duplicates																		
16972	Drill Core	7	4	0.46	180	0.076	2	0.72	0.073	0.12	4.9	0.02	2.0	<0.1	<0.05	3	0.6	<0.2
DUP 16972	QC	7	5	0.48	180	0.100	<1	0.76	0.071	0.12	4.1	0.02	2.0	<0.1	<0.05	3	<0.5	<0.2
17007	Drill Core	9	9	0.23	88	0.072	<1	0.37	0.064	0.09	1.7	0.04	1.2	<0.1	<0.05	2	<0.5	<0.2
DUP 17007	QC	9	8	0.24	94	0.074	<1	0.38	0.068	0.09	1.3	0.02	1.2	<0.1	<0.05	2	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	19	122	0.65	286	0.131	3	1.02	0.099	0.43	2.8	0.19	2.2	5.3	0.17	5	5.6	4.7
STD DS8	Standard	16	118	0.61	263	0.128	5	0.90	0.087	0.42	2.8	0.21	2.4	5.2	0.16	5	5.8	4.8
STD DS8	Standard	18	124	0.62	282	0.143	2	0.94	0.090	0.42	2.8	0.18	2.4	5.2	0.17	5	4.4	4.8
STD DS8	Standard	14	103	0.53	246	0.101	<1	0.81	0.076	0.37	2.7	0.16	2.3	4.6	0.15	4	5.0	3.7
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
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	0.02	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	2	<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	15	7	0.50	131	0.128	2	0.94	0.089	0.45	<0.1	0.01	1.8	0.3	<0.05	5	<0.5	<0.2
G1	Prep Blank	15	8	0.49	139	0.124	1	0.92	0.089	0.44	<0.1	0.01	1.9	0.3	<0.05	5	<0.5	<0.2

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Submitted By: Rich Parish
Receiving Lab: Canada-Vancouver
Received: November 29, 2011
Report Date: January 06, 2012
Page: 1 of 4

CERTIFICATE OF ANALYSIS VAN11006585.1

CLIENT JOB INFORMATION

Project: Moffat
Shipment ID: #3
P.O. Number
Number of Samples: 67

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	63	Crush, split and pulverize 250 g rock to 200 mesh			VAN
1DX2	67	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

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

ADDITIONAL COMMENTS

Invoice To: Fjordland Exploration Inc.
11th Floor, 1111 Melville Street
Vancouver BC V6E 3V6
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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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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PO Box 11604
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Project: Moffat
Report Date: January 06, 2012

CERTIFICATE OF ANALYSIS VAN11006585.1

Method		WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
16876	Drill Core	9.63	0.3	153.5	0.6	66	<0.1	2.0	17.9	992	4.12	1.4	4.8	0.9	55	<0.1	<0.1	<0.1	146	2.41	0.321
16877	Drill Core	10.23	0.2	165.4	0.5	65	<0.1	2.0	17.8	906	4.04	1.2	1.7	1.0	50	<0.1	<0.1	<0.1	139	2.12	0.342
16878	Drill Core	8.83	0.7	189.8	1.1	71	0.2	2.1	22.6	1236	4.86	1.4	4.4	0.9	92	<0.1	<0.1	<0.1	172	2.93	0.328
16879	Drill Core	10.12	0.4	147.5	0.4	74	0.1	2.5	22.9	1188	4.84	1.2	2.2	0.9	45	<0.1	<0.1	<0.1	163	2.23	0.330
16880	Rock Pulp	0.05	363.5	1827	20.6	42	13.1	13.2	6.6	430	2.63	13.9	162.9	1.7	119	0.6	26.9	1.8	49	1.03	0.046
16881	Drill Core	5.39	1.2	166.2	3.0	82	0.2	2.3	24.4	1529	5.50	2.4	3.6	0.9	74	0.1	4.1	<0.1	187	3.18	0.320
16882	Drill Core	5.44	0.7	202.4	1.1	82	0.1	2.4	23.4	1354	5.34	1.9	4.9	1.0	61	<0.1	<0.1	<0.1	180	2.95	0.335
16883	Drill Core	8.70	0.7	165.8	0.8	75	0.1	2.6	21.3	1173	4.67	2.0	4.5	1.1	56	<0.1	<0.1	<0.1	160	2.26	0.322
16884	Drill Core	9.11	0.8	152.2	0.9	81	0.1	2.4	23.2	1201	4.85	2.5	3.6	1.1	57	<0.1	<0.1	<0.1	160	2.35	0.346
16885	Drill Core	0.95	0.8	57.1	1.8	23	<0.1	0.4	1.5	407	1.00	0.6	6.9	8.9	28	0.1	0.2	<0.1	33	1.49	0.005
16886	Drill Core	6.02	0.9	177.9	1.0	89	0.2	3.0	24.1	1345	5.60	2.8	3.5	1.0	63	<0.1	<0.1	<0.1	196	2.84	0.341
16887	Drill Core	9.34	0.9	182.8	1.1	77	0.1	2.4	25.1	1226	5.17	2.7	2.7	1.0	62	0.1	0.1	<0.1	177	2.68	0.353
16888	Drill Core	6.93	0.9	143.3	2.9	97	0.1	2.5	26.5	1526	5.98	2.2	3.7	1.1	84	<0.1	0.1	<0.1	210	3.51	0.328
16889	Drill Core	10.29	9.2	248.9	2.5	108	0.2	2.7	24.3	1364	5.38	2.5	4.6	1.0	63	0.2	0.1	<0.1	184	2.65	0.345
16890	Drill Core	9.37	0.5	170.6	1.1	76	0.1	2.5	22.4	1219	4.87	2.5	2.1	1.2	60	0.1	<0.1	<0.1	167	2.73	0.359
16891	Drill Core	6.46	2.4	148.8	1.7	82	0.1	2.7	25.5	1513	5.50	2.6	2.3	1.0	109	<0.1	0.2	<0.1	185	4.66	0.329
16892	Drill Core	7.90	9.9	222.3	1.2	83	0.2	2.4	32.1	1510	5.75	3.2	2.9	0.9	87	0.1	0.2	0.1	196	3.82	0.333
16893	Drill Core	7.10	4.8	195.8	0.9	72	0.2	2.9	28.7	1429	5.73	2.6	3.2	1.0	99	<0.1	0.2	0.1	205	3.85	0.335
16894	Drill Core	3.28	8.2	971.2	1.2	77	0.7	2.0	28.9	1709	4.97	2.4	4.9	2.1	119	1.1	0.3	0.2	156	5.40	0.270
16895	Drill Core	10.21	1.0	178.4	1.2	81	0.1	2.1	22.3	1294	4.75	2.3	3.2	1.0	74	0.1	<0.1	<0.1	167	3.20	0.334
16896	Drill Core	8.78	1.0	171.8	1.9	80	0.2	2.7	25.5	1295	5.27	3.3	4.6	1.1	74	<0.1	0.2	<0.1	185	3.06	0.336
16897	Drill Core	5.94	4.3	434.3	2.1	80	0.4	2.8	23.8	1323	5.56	5.9	8.7	1.2	122	0.2	0.3	<0.1	199	3.83	0.340
16898	Drill Core	6.78	0.9	194.7	1.5	83	0.2	2.5	24.2	1392	5.42	3.9	5.8	1.1	65	<0.1	0.2	<0.1	184	2.87	0.355
16899	Drill Core	5.74	0.4	156.1	1.6	99	0.1	2.5	25.8	1592	5.94	3.6	3.6	1.0	64	<0.1	0.1	<0.1	207	2.69	0.328
16900	Rock Pulp	0.05	8.9	27.1	1.4	24	<0.1	12.5	3.4	401	2.18	1.3	0.8	2.9	11	<0.1	0.2	<0.1	17	0.14	0.021
16901	Drill Core	9.69	0.4	102.1	1.0	80	<0.1	5.5	25.7	1626	5.88	3.8	3.0	0.9	97	<0.1	0.1	<0.1	205	3.84	0.309
16902	Drill Core	9.59	0.5	136.6	1.2	78	0.2	5.4	21.1	1429	4.61	4.0	4.9	0.9	113	<0.1	0.1	0.1	169	3.97	0.272
16903	Drill Core	9.59	0.2	82.5	1.1	80	<0.1	6.4	22.3	1291	4.44	3.9	3.7	0.9	83	<0.1	0.1	<0.1	158	3.05	0.282
16904	Drill Core	6.68	0.3	105.8	1.9	85	<0.1	6.1	23.7	1532	5.07	4.9	3.8	0.9	169	<0.1	0.2	<0.1	189	3.74	0.280
16905	Drill Core	8.83	1.1	110.6	2.9	85	0.1	5.9	22.2	1364	4.89	4.8	5.4	1.0	74	<0.1	0.1	<0.1	176	3.02	0.281

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Project: Moffat
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CERTIFICATE OF ANALYSIS VAN11006585.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
16876	Drill Core	11	3	1.39	212	0.178	5	1.86	0.378	0.69	<0.1	<0.01	5.0	<0.1	<0.05	7	<0.5	<0.2
16877	Drill Core	11	2	1.44	243	0.161	4	1.76	0.282	0.70	<0.1	<0.01	4.3	<0.1	<0.05	6	<0.5	<0.2
16878	Drill Core	9	2	1.69	252	0.210	4	2.21	0.348	0.93	0.2	<0.01	5.6	<0.1	0.12	8	<0.5	<0.2
16879	Drill Core	9	2	1.71	295	0.177	2	2.05	0.215	1.11	0.1	0.01	4.9	0.1	0.14	8	<0.5	<0.2
16880	Rock Pulp	6	19	0.45	197	0.087	1	1.04	0.119	0.21	0.6	0.42	1.6	<0.1	0.31	3	<0.5	0.9
16881	Drill Core	9	2	2.03	320	0.208	2	2.62	0.302	0.97	0.2	0.05	6.7	0.2	0.10	9	<0.5	<0.2
16882	Drill Core	10	2	1.80	177	0.169	1	2.26	0.157	0.80	0.2	<0.01	5.7	<0.1	0.08	10	<0.5	<0.2
16883	Drill Core	10	3	1.72	206	0.209	3	2.07	0.305	0.73	0.1	0.01	5.1	<0.1	0.15	8	<0.5	<0.2
16884	Drill Core	11	2	1.82	243	0.200	2	2.21	0.227	0.89	0.1	0.01	5.3	<0.1	0.16	8	<0.5	<0.2
16885	Drill Core	3	2	0.17	36	0.015	1	0.41	0.041	0.24	0.6	0.02	0.5	<0.1	0.06	<1	<0.5	<0.2
16886	Drill Core	12	2	1.87	260	0.220	3	2.44	0.314	1.01	<0.1	0.01	6.4	<0.1	0.11	9	<0.5	<0.2
16887	Drill Core	10	2	1.88	227	0.187	2	2.28	0.195	0.95	0.2	0.01	5.9	0.1	0.16	8	<0.5	<0.2
16888	Drill Core	12	2	2.14	323	0.241	2	2.63	0.246	1.06	0.2	0.02	7.7	<0.1	0.24	10	<0.5	<0.2
16889	Drill Core	11	3	1.96	303	0.194	2	2.26	0.207	0.93	0.1	0.02	6.4	<0.1	0.17	9	<0.5	<0.2
16890	Drill Core	12	2	1.79	260	0.213	4	2.19	0.384	0.73	<0.1	0.02	5.5	<0.1	0.18	8	<0.5	<0.2
16891	Drill Core	11	2	1.99	127	0.173	2	2.43	0.123	0.63	0.3	0.02	5.6	<0.1	0.30	10	<0.5	<0.2
16892	Drill Core	10	2	2.07	155	0.217	3	2.55	0.229	0.75	0.5	0.03	7.1	0.1	0.32	10	0.5	<0.2
16893	Drill Core	12	4	2.04	204	0.152	1	2.42	0.075	0.90	0.4	0.03	8.0	0.2	0.23	10	<0.5	<0.2
16894	Drill Core	13	2	1.68	342	0.117	2	1.89	0.145	0.45	0.4	0.08	5.9	<0.1	0.42	8	1.0	<0.2
16895	Drill Core	11	2	1.82	211	0.185	4	2.18	0.251	0.85	0.1	0.01	5.7	0.1	0.19	8	<0.5	<0.2
16896	Drill Core	11	3	1.94	291	0.218	3	2.35	0.266	0.87	0.2	<0.01	6.4	0.1	0.19	9	<0.5	<0.2
16897	Drill Core	11	3	2.15	221	0.199	3	2.43	0.217	0.64	0.3	0.01	6.8	<0.1	0.18	10	<0.5	<0.2
16898	Drill Core	11	2	2.15	332	0.183	3	2.43	0.186	0.99	0.1	<0.01	6.0	<0.1	0.10	9	<0.5	<0.2
16899	Drill Core	10	2	2.34	326	0.232	3	2.71	0.257	1.37	0.1	<0.01	6.9	0.2	0.06	10	0.5	<0.2
16900	Rock Pulp	7	23	0.25	167	0.109	<1	0.56	0.077	0.38	0.3	<0.01	2.9	0.1	<0.05	3	<0.5	<0.2
16901	Drill Core	8	16	2.45	229	0.194	1	2.84	0.104	1.15	0.3	<0.01	8.5	0.2	0.07	10	<0.5	<0.2
16902	Drill Core	10	15	1.93	116	0.193	6	2.39	0.273	0.87	0.1	<0.01	7.4	0.1	0.08	8	<0.5	<0.2
16903	Drill Core	10	23	2.00	125	0.178	5	2.27	0.194	1.01	0.1	<0.01	6.1	0.1	<0.05	8	<0.5	<0.2
16904	Drill Core	10	16	2.19	286	0.225	8	2.86	0.328	0.96	0.2	<0.01	7.7	<0.1	0.06	10	<0.5	<0.2
16905	Drill Core	11	15	2.07	129	0.229	6	2.40	0.285	1.20	0.3	<0.01	7.0	0.1	0.06	8	<0.5	<0.2

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Method		WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
16906	Drill Core	7.75	1.3	432.0	1.9	87	0.3	6.0	21.6	1351	4.60	3.6	4.7	0.8	76	<0.1	<0.1	<0.1	162	3.03	0.282
16907	Drill Core	7.55	0.8	390.3	3.1	121	0.3	6.9	27.4	1813	5.77	2.7	4.9	0.9	97	0.1	0.1	0.1	227	3.84	0.300
16908	Drill Core	7.38	0.3	118.3	1.5	74	0.1	5.3	16.5	1101	3.79	3.2	3.8	0.9	77	<0.1	<0.1	<0.1	149	2.92	0.218
16909	Drill Core	10.00	0.2	73.6	1.7	63	<0.1	5.3	14.6	874	3.49	4.2	15.6	1.2	60	0.1	<0.1	0.1	138	2.14	0.182
16910	Drill Core	11.47	0.2	93.0	1.9	68	0.1	5.3	16.3	967	3.97	4.4	10.7	1.1	74	<0.1	0.1	0.1	155	2.57	0.181
16911	Drill Core	10.15	0.3	116.6	1.9	84	0.1	5.5	18.3	1459	4.35	3.7	11.2	1.3	90	0.1	0.2	0.1	162	3.95	0.186
16912	Drill Core	10.93	0.2	222.9	1.9	100	0.2	6.9	29.0	1436	5.28	7.1	10.2	1.0	107	0.2	0.2	0.1	233	4.38	0.296
16913	Drill Core	12.22	0.2	103.4	2.8	86	0.1	6.4	27.6	1335	5.29	6.4	4.2	1.1	89	0.1	0.4	0.1	211	4.63	0.276
16914	Drill Core	11.58	0.3	156.3	2.8	86	0.2	5.5	17.2	1250	4.07	4.6	6.9	1.1	76	0.1	0.2	<0.1	173	3.93	0.184
16915	Drill Core	10.81	0.2	79.0	3.0	97	0.1	6.6	18.4	1388	4.39	5.5	9.2	1.2	71	0.1	0.1	<0.1	190	3.62	0.179
16916	Drill Core	9.51	0.2	13.9	3.9	75	<0.1	24.7	24.0	1235	4.52	6.5	2.7	3.0	149	<0.1	0.4	<0.1	187	5.74	0.281
16917	Drill Core	10.56	0.3	155.4	2.3	93	0.1	7.0	18.7	1471	4.34	4.3	7.6	1.2	97	<0.1	0.2	<0.1	177	3.94	0.196
16918	Drill Core	11.84	0.2	76.3	3.8	109	0.1	11.8	19.8	1401	4.21	8.6	6.4	1.2	69	0.2	0.1	<0.1	174	3.91	0.220
16919	Drill Core	11.46	0.2	143.3	2.7	100	0.1	11.6	18.7	1258	4.33	5.4	8.7	1.2	72	0.2	0.1	<0.1	174	3.17	0.182
16920	Rock Pulp	0.05	426.1	2654	25.1	44	15.2	13.8	6.8	419	2.61	17.2	256.2	1.8	122	0.8	33.3	2.0	46	1.05	0.044
16921	Drill Core	10.92	0.5	168.4	3.3	102	0.2	3.6	24.4	1406	5.02	6.7	8.6	1.1	65	0.1	<0.1	<0.1	168	3.44	0.271
16922	Drill Core	7.52	0.2	52.3	4.2	129	<0.1	2.4	23.8	1707	5.26	11.8	11.4	0.8	88	0.2	0.2	<0.1	175	3.39	0.307
16923	Drill Core	9.77	0.2	63.2	3.1	80	<0.1	4.1	19.6	1329	4.61	9.2	7.7	1.0	77	<0.1	0.5	<0.1	168	3.57	0.272
16924	Drill Core	7.11	1.0	115.6	2.9	99	0.2	5.9	18.2	1423	4.46	4.9	11.2	1.3	114	<0.1	0.4	0.3	180	4.36	0.196
16925	Drill Core	18.92	1.6	2.8	16.1	25	<0.1	2.5	3.0	351	0.94	1.3	2.7	6.7	78	<0.1	0.2	0.1	5	1.87	0.072
16926	Drill Core	8.88	1.9	4.5	16.7	25	<0.1	1.9	2.8	411	0.85	1.4	10.1	6.2	73	<0.1	0.2	0.1	5	2.01	0.067
16927	Drill Core	8.15	2.0	209.5	3.2	95	0.2	5.8	18.3	1549	4.44	4.2	10.7	1.3	66	<0.1	0.3	0.6	177	3.69	0.190
16928	Drill Core	9.25	0.7	355.4	4.2	98	0.5	5.6	19.2	1604	4.54	5.1	24.3	1.0	66	<0.1	0.3	0.2	198	3.53	0.212
16929	Drill Core	7.77	1.2	180.9	2.5	113	0.3	3.1	23.2	1697	5.48	7.3	12.3	1.0	60	<0.1	0.2	<0.1	245	2.89	0.276
16930	Drill Core	8.72	0.3	99.6	2.3	91	0.2	6.7	19.0	1179	4.80	5.7	7.8	0.6	72	0.3	0.3	<0.1	190	2.87	0.191
16931	Drill Core	7.00	1.6	222.0	3.4	79	0.3	6.2	17.1	1178	4.91	4.2	11.9	0.9	61	0.1	0.2	0.2	185	3.04	0.172
16932	Drill Core	4.87	1.0	58.3	4.5	94	0.1	6.5	18.0	1375	4.65	3.9	6.8	0.8	56	0.1	0.2	<0.1	175	3.78	0.192
16933	Drill Core	10.19	0.3	75.2	3.4	89	0.1	7.8	17.9	1621	4.63	3.0	5.1	0.9	76	<0.1	0.2	<0.1	196	4.43	0.166
16934	Drill Core	6.79	0.1	43.2	4.8	132	<0.1	17.9	26.2	1728	6.16	3.9	3.9	1.1	58	<0.1	0.5	<0.1	459	2.07	0.178
16935	Drill Core	4.84	0.2	70.0	4.1	122	0.2	7.2	22.2	1547	4.84	4.1	13.3	1.1	52	<0.1	0.3	<0.1	219	2.91	0.201

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Project: Moffat
Report Date: January 06, 2012

CERTIFICATE OF ANALYSIS VAN11006585.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
16906	Drill Core	9	18	1.93	127	0.209	4	2.26	0.240	1.27	0.2	<0.01	6.1	0.2	0.07	8	0.6	<0.2
16907	Drill Core	11	23	2.44	112	0.274	5	2.92	0.429	1.51	0.3	<0.01	9.8	0.2	0.08	10	<0.5	<0.2
16908	Drill Core	8	15	1.44	67	0.179	4	1.84	0.243	0.94	0.1	<0.01	6.3	0.1	0.05	7	<0.5	<0.2
16909	Drill Core	10	14	1.33	60	0.178	6	1.77	0.350	0.66	0.1	<0.01	6.9	<0.1	<0.05	7	<0.5	<0.2
16910	Drill Core	9	14	1.47	52	0.171	5	1.78	0.259	0.64	0.1	0.01	7.6	<0.1	<0.05	7	<0.5	<0.2
16911	Drill Core	11	13	1.65	317	0.127	4	2.02	0.177	0.69	0.2	0.02	8.9	<0.1	<0.05	8	0.5	<0.2
16912	Drill Core	11	14	2.28	258	0.207	7	2.79	0.260	1.46	0.1	0.03	10.7	0.1	<0.05	10	<0.5	<0.2
16913	Drill Core	12	12	1.81	189	0.161	6	2.50	0.192	1.27	0.1	0.03	11.0	<0.1	<0.05	8	<0.5	<0.2
16914	Drill Core	10	14	1.69	168	0.192	3	2.04	0.205	0.84	0.2	0.02	9.4	<0.1	<0.05	8	0.7	<0.2
16915	Drill Core	9	15	1.86	149	0.215	4	2.23	0.240	1.09	0.2	0.02	10.1	<0.1	<0.05	9	<0.5	<0.2
16916	Drill Core	26	78	2.69	272	0.170	5	2.65	0.289	1.17	0.3	0.01	17.8	<0.1	<0.05	7	<0.5	<0.2
16917	Drill Core	9	18	1.81	135	0.196	3	2.24	0.186	0.97	0.4	<0.01	9.3	0.1	<0.05	8	<0.5	<0.2
16918	Drill Core	10	59	1.97	129	0.193	3	2.25	0.258	0.82	0.3	0.02	9.7	<0.1	<0.05	8	<0.5	<0.2
16919	Drill Core	9	42	1.91	133	0.200	3	2.17	0.214	1.07	0.3	0.01	9.0	<0.1	<0.05	9	<0.5	<0.2
16920	Rock Pulp	6	19	0.41	207	0.078	1	0.98	0.112	0.22	0.6	0.67	1.6	<0.1	0.43	3	<0.5	1.4
16921	Drill Core	11	5	1.86	105	0.171	2	2.20	0.144	1.03	0.3	<0.01	6.7	<0.1	<0.05	8	<0.5	<0.2
16922	Drill Core	11	2	1.96	178	0.200	2	2.56	0.120	1.59	0.3	0.02	5.6	0.2	<0.05	9	<0.5	<0.2
16923	Drill Core	9	10	1.78	89	0.167	3	2.15	0.213	0.84	0.3	<0.01	6.3	<0.1	<0.05	8	<0.5	<0.2
16924	Drill Core	10	14	1.74	1005	0.159	3	2.10	0.153	0.81	0.4	<0.01	9.6	0.1	<0.05	9	<0.5	<0.2
16925	Drill Core	24	3	0.31	1307	0.002	2	0.47	0.066	0.28	0.4	<0.01	1.8	<0.1	<0.05	1	<0.5	<0.2
16926	Drill Core	23	3	0.22	1189	0.002	2	0.57	0.073	0.31	0.1	<0.01	1.7	<0.1	<0.05	2	<0.5	<0.2
16927	Drill Core	10	13	1.72	104	0.148	2	2.03	0.129	0.85	0.4	<0.01	8.6	0.1	0.06	8	<0.5	<0.2
16928	Drill Core	8	10	1.80	94	0.193	2	2.22	0.193	0.93	0.5	<0.01	9.2	<0.1	0.06	9	0.5	<0.2
16929	Drill Core	8	2	2.31	139	0.211	1	2.70	0.154	1.67	0.2	0.01	9.9	0.2	<0.05	10	<0.5	<0.2
16930	Drill Core	5	16	1.93	88	0.200	2	2.23	0.176	1.08	0.3	<0.01	9.0	0.1	<0.05	8	<0.5	<0.2
16931	Drill Core	8	10	1.68	115	0.163	1	1.94	0.088	1.06	0.3	0.01	9.7	0.1	0.07	9	<0.5	<0.2
16932	Drill Core	9	13	1.58	120	0.143	<1	2.07	0.088	0.99	0.4	<0.01	9.1	0.1	0.20	9	<0.5	<0.2
16933	Drill Core	9	17	1.78	143	0.179	<1	2.45	0.067	1.49	0.3	<0.01	9.5	0.2	0.11	9	<0.5	<0.2
16934	Drill Core	9	39	2.44	128	0.224	<1	2.74	0.077	1.92	0.8	<0.01	11.9	0.4	<0.05	13	<0.5	<0.2
16935	Drill Core	10	18	2.03	118	0.196	1	2.38	0.081	1.38	0.4	<0.01	10.0	0.2	0.28	10	<0.5	<0.2

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CERTIFICATE OF ANALYSIS VAN11006585.1

Method		WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
16936	Drill Core	10.84	0.2	157.2	1.8	60	0.2	7.3	16.9	973	4.70	10.8	6.9	1.0	81	<0.1	0.2	0.4	140	2.00	0.188
16937	Drill Core	9.51	0.2	12.8	1.1	59	<0.1	7.9	17.2	1033	4.71	5.6	6.1	1.2	50	<0.1	0.1	<0.1	141	2.13	0.199
16938	Drill Core	10.80	0.3	39.7	1.6	65	<0.1	7.7	16.8	1064	4.70	4.6	13.7	0.7	57	<0.1	0.2	<0.1	160	2.27	0.203
16939	Drill Core	10.98	0.3	269.7	2.3	111	0.4	5.8	21.7	1472	4.85	6.1	36.0	0.9	50	0.1	0.1	<0.1	196	2.86	0.220
16940	Rock Pulp	0.05	9.2	27.6	2.1	24	<0.1	12.8	3.5	415	2.32	2.1	2.2	3.2	10	<0.1	0.3	<0.1	18	0.15	0.022
16941	Drill Core	9.72	0.1	105.2	3.2	119	0.2	7.9	22.5	1584	4.98	7.0	27.1	0.9	53	0.3	0.2	<0.1	196	3.57	0.203
16942	Drill Core	10.40	0.2	48.4	3.3	118	0.1	7.7	21.5	1559	4.65	6.3	66.5	0.8	54	0.3	0.1	<0.1	205	3.37	0.207

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CERTIFICATE OF ANALYSIS VAN11006585.1

Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
16936	Drill Core	6	12	1.32	83	0.190	2	1.55	0.140	0.91	0.2	<0.01	4.3	0.1	<0.05	6	<0.5	<0.2
16937	Drill Core	8	15	1.39	70	0.166	<1	1.56	0.119	1.06	0.2	<0.01	5.3	0.2	<0.05	6	<0.5	<0.2
16938	Drill Core	8	15	1.32	76	0.173	2	1.60	0.172	0.81	0.4	<0.01	6.1	0.1	<0.05	7	<0.5	<0.2
16939	Drill Core	8	9	2.03	171	0.192	2	2.20	0.158	1.27	0.2	<0.01	10.2	0.1	<0.05	8	<0.5	<0.2
16940	Rock Pulp	6	23	0.27	183	0.107	<1	0.62	0.091	0.42	0.3	<0.01	2.9	0.1	<0.05	3	<0.5	<0.2
16941	Drill Core	8	13	2.00	272	0.189	2	2.26	0.139	1.35	0.2	<0.01	10.8	0.1	<0.05	8	<0.5	<0.2
16942	Drill Core	8	16	1.82	215	0.203	3	2.24	0.177	1.24	0.2	<0.01	11.7	0.1	<0.05	9	<0.5	<0.2

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QUALITY CONTROL REPORT VAN11006585.1

Method		WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
REP G1	QC		0.4	3.3	2.1	44	<0.1	3.4	3.9	546	1.82	<0.5	1.5	5.2	68	<0.1	<0.1	<0.1	36	0.45	0.078
16891	Drill Core	6.46	2.4	148.8	1.7	82	0.1	2.7	25.5	1513	5.50	2.6	2.3	1.0	109	<0.1	0.2	<0.1	185	4.66	0.329
REP 16891	QC		2.3	142.7	1.6	79	0.1	2.2	23.9	1450	5.21	2.1	2.7	1.0	103	<0.1	0.2	<0.1	176	4.49	0.322
16911	Drill Core	10.15	0.3	116.6	1.9	84	0.1	5.5	18.3	1459	4.35	3.7	11.2	1.3	90	0.1	0.2	0.1	162	3.95	0.186
REP 16911	QC		0.3	118.9	2.2	85	0.1	5.9	18.3	1404	4.26	3.6	9.2	1.2	87	0.1	0.2	0.1	158	3.86	0.187
16926	Drill Core	8.88	1.9	4.5	16.7	25	<0.1	1.9	2.8	411	0.85	1.4	10.1	6.2	73	<0.1	0.2	0.1	5	2.01	0.067
REP 16926	QC		2.0	4.9	17.0	25	<0.1	2.1	2.9	425	0.89	1.4	11.5	6.5	77	<0.1	0.2	0.2	5	2.08	0.069
Core Reject Duplicates																					
16884	Drill Core	9.11	0.8	152.2	0.9	81	0.1	2.4	23.2	1201	4.85	2.5	3.6	1.1	57	<0.1	<0.1	<0.1	160	2.35	0.346
DUP 16884	QC		0.6	144.0	1.0	77	0.1	2.4	22.7	1186	4.77	2.3	3.4	1.0	57	<0.1	<0.1	<0.1	157	2.30	0.335
16919	Drill Core	11.46	0.2	143.3	2.7	100	0.1	11.6	18.7	1258	4.33	5.4	8.7	1.2	72	0.2	0.1	<0.1	174	3.17	0.182
DUP 16919	QC		0.2	138.6	3.0	95	0.1	10.6	18.4	1242	4.28	5.0	7.8	1.2	73	0.2	0.1	<0.1	173	3.19	0.175
Reference Materials																					
STD DS8	Standard		14.1	114.6	123.7	304	1.8	38.4	7.7	621	2.53	27.4	100.7	7.1	67	2.5	5.1	6.8	43	0.73	0.076
STD DS8	Standard		13.0	107.5	116.6	298	1.7	37.5	7.4	584	2.46	24.8	97.6	6.6	65	2.3	5.2	6.2	42	0.71	0.076
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	<0.01	0.4	3.8	2.2	46	<0.1	2.9	4.2	564	2.01	<0.5	2.4	5.1	62	<0.1	<0.1	0.1	39	0.45	0.077
G1	Prep Blank	<0.01																			
G1	Prep Blank		0.4	3.4	2.3	46	<0.1	3.5	4.2	564	1.87	<0.5	1.5	5.4	70	<0.1	<0.1	<0.1	37	0.47	0.079

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QUALITY CONTROL REPORT VAN11006585.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																		
REP G1	QC	12	10	0.49	156	0.131	1	0.88	0.093	0.46	<0.1	<0.01	2.2	0.3	<0.05	4	<0.5	<0.2
16891	Drill Core	11	2	1.99	127	0.173	2	2.43	0.123	0.63	0.3	0.02	5.6	<0.1	0.30	10	<0.5	<0.2
REP 16891	QC	10	2	1.90	124	0.171	2	2.34	0.119	0.60	0.3	0.03	5.4	<0.1	0.29	10	<0.5	<0.2
16911	Drill Core	11	13	1.65	317	0.127	4	2.02	0.177	0.69	0.2	0.02	8.9	<0.1	<0.05	8	0.5	<0.2
REP 16911	QC	11	13	1.59	318	0.124	5	1.94	0.165	0.69	0.2	0.01	8.9	<0.1	<0.05	8	<0.5	<0.2
16926	Drill Core	23	3	0.22	1189	0.002	2	0.57	0.073	0.31	0.1	<0.01	1.7	<0.1	<0.05	2	<0.5	<0.2
REP 16926	QC	24	4	0.23	1241	0.002	2	0.59	0.076	0.32	0.1	<0.01	1.8	<0.1	<0.05	2	<0.5	<0.2
Core Reject Duplicates																		
16884	Drill Core	11	2	1.82	243	0.200	2	2.21	0.227	0.89	0.1	0.01	5.3	<0.1	0.16	8	<0.5	<0.2
DUP 16884	QC	10	2	1.79	236	0.191	2	2.18	0.233	0.87	0.1	<0.01	5.4	<0.1	0.16	8	<0.5	<0.2
16919	Drill Core	9	42	1.91	133	0.200	3	2.17	0.214	1.07	0.3	0.01	9.0	<0.1	<0.05	9	<0.5	<0.2
DUP 16919	QC	9	39	1.87	131	0.208	3	2.17	0.222	1.05	0.3	0.02	9.1	<0.1	<0.05	8	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	16	122	0.63	283	0.125	3	0.94	0.092	0.44	3.1	0.20	2.3	5.4	0.17	5	5.2	5.3
STD DS8	Standard	16	116	0.61	269	0.123	2	0.92	0.088	0.41	2.7	0.19	2.2	5.0	0.17	4	5.3	4.7
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	12	10	0.52	163	0.134	1	0.86	0.077	0.47	<0.1	<0.01	2.1	0.3	<0.05	5	<0.5	<0.2
G1	Prep Blank																	
G1	Prep Blank	13	10	0.50	160	0.131	1	0.91	0.096	0.48	<0.1	<0.01	2.3	0.3	<0.05	5	<0.5	<0.2

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Report Date: January 06, 2012
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CERTIFICATE OF ANALYSIS VAN11006563.1

CLIENT JOB INFORMATION

Project: Moffat
Shipment ID: #2
P.O. Number
Number of Samples: 68

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	65	Crush, split and pulverize 250 g rock to 200 mesh			VAN
1DX2	68	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

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

ADDITIONAL COMMENTS

Invoice To: Fjordland Exploration Inc.
11th Floor, 1111 Melville Street
Vancouver BC V6E 3V6
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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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Phone (604) 253-3158 Fax (604) 253-1716
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Client: **Coast Mountain Geological**
620 - 650 W. Georgia St.
PO Box 11604
Vancouver BC V6B 4N9 Canada

Project: Moffat
Report Date: January 06, 2012

CERTIFICATE OF ANALYSIS VAN11006563.1

Method		WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
16875	Drill Core	11.39	1.8	142.8	1.8	19	0.1	8.2	12.6	353	3.16	<0.5	6.9	2.8	57	<0.1	0.1	0.1	104	1.62	0.136
16874	Drill Core	11.42	1.5	127.8	1.7	22	<0.1	7.3	11.1	381	3.04	1.7	8.6	2.7	67	<0.1	0.1	<0.1	106	1.47	0.132
16873	Drill Core	10.08	0.9	106.2	1.7	21	<0.1	6.7	10.1	383	3.02	1.6	14.3	2.8	86	<0.1	0.1	<0.1	107	1.50	0.130
16872	Drill Core	2.23	0.9	215.5	2.1	30	0.2	6.1	11.1	380	3.09	0.9	23.5	1.9	72	<0.1	0.2	<0.1	111	1.40	0.130
16871	Drill Core	9.22	75.8	141.6	1.6	22	0.1	7.6	11.4	418	3.21	0.9	17.6	2.1	117	<0.1	0.2	0.1	111	1.60	0.132
16870	Drill Core	9.01	2.5	175.7	2.1	19	0.1	9.1	14.7	379	3.38	3.4	37.5	1.8	45	<0.1	0.1	1.1	104	1.76	0.128
16869	Drill Core	10.64	2.8	219.9	1.6	28	0.2	7.4	10.7	388	3.20	1.0	18.8	3.2	40	<0.1	0.1	<0.1	111	1.10	0.126
16868	Drill Core	5.87	4.6	390.0	1.9	31	0.4	8.8	12.4	423	3.43	0.8	43.5	2.8	56	<0.1	0.1	<0.1	117	1.19	0.139
16867	Drill Core	8.61	4.6	121.7	1.9	22	<0.1	7.4	10.9	358	3.14	<0.5	14.0	4.6	40	<0.1	0.1	<0.1	105	1.04	0.133
16866	Drill Core	9.05	7.4	91.2	2.1	31	<0.1	6.4	10.4	430	3.21	<0.5	8.2	3.3	42	<0.1	<0.1	<0.1	102	0.97	0.118
16865	Drill Core	9.76	4.1	172.0	2.8	24	0.2	5.8	11.8	345	2.94	2.7	14.5	3.4	47	<0.1	0.1	<0.1	81	1.29	0.104
16864	Drill Core	10.30	4.3	126.7	3.8	37	0.1	6.0	10.1	442	3.25	2.3	10.2	4.7	39	<0.1	0.1	<0.1	107	1.14	0.118
16863	Drill Core	9.67	3.8	154.1	3.1	31	0.1	6.3	11.0	383	3.17	2.7	10.6	3.7	38	<0.1	0.1	<0.1	96	1.08	0.126
16862	Drill Core	11.88	4.4	185.4	2.8	28	0.2	6.7	12.3	423	3.26	3.1	21.8	4.2	71	<0.1	0.1	<0.1	98	2.01	0.116
16861	Drill Core	10.63	3.2	146.4	2.6	22	0.1	6.0	10.7	302	2.82	1.0	12.2	9.2	58	<0.1	0.1	0.1	75	0.99	0.107
16860	Rock Pulp	0.05	10.3	29.5	2.4	27	<0.1	12.9	3.5	441	2.36	0.7	3.1	3.3	11	<0.1	0.3	<0.1	18	0.15	0.023
16859	Drill Core	9.33	5.9	188.1	2.7	25	0.1	6.9	13.0	346	3.15	1.4	9.0	5.4	52	<0.1	0.1	<0.1	84	1.12	0.116
16858	Drill Core	10.08	3.6	152.1	2.8	26	0.1	6.4	10.5	349	3.06	1.0	10.2	5.1	36	<0.1	<0.1	<0.1	87	1.22	0.123
16857	Drill Core	9.39	5.1	198.2	3.3	30	0.1	6.3	10.8	378	3.07	1.8	12.7	7.9	40	<0.1	0.1	<0.1	89	1.13	0.121
16856	Drill Core	10.03	4.2	179.6	2.8	25	0.1	5.9	11.4	376	3.06	1.8	11.9	5.6	37	<0.1	0.1	<0.1	88	1.25	0.126
16855	Drill Core	10.25	6.5	224.5	3.1	29	0.2	6.5	12.0	389	3.23	1.9	29.8	6.8	46	<0.1	0.2	<0.1	99	1.22	0.124
16854	Drill Core	9.77	3.0	226.5	2.7	29	0.2	6.8	11.2	372	3.20	1.6	20.9	3.6	33	<0.1	0.2	<0.1	92	0.93	0.121
16853	Drill Core	9.86	8.3	282.7	2.2	25	0.2	6.8	12.4	352	3.32	1.4	18.5	5.5	44	<0.1	0.1	<0.1	90	1.07	0.119
16852	Drill Core	9.84	4.8	143.9	3.3	32	0.1	5.4	10.7	401	3.11	1.7	7.6	4.2	37	<0.1	0.2	<0.1	93	1.06	0.117
16851	Drill Core	9.88	10.2	372.1	2.7	32	0.3	6.5	13.1	435	3.35	1.9	43.6	4.5	43	<0.1	0.2	<0.1	101	1.19	0.123
16850	Drill Core	8.93	18.4	267.7	2.8	32	0.2	5.4	13.1	406	3.10	0.9	19.0	7.6	33	<0.1	0.1	<0.1	91	1.08	0.120
16849	Drill Core	7.13	22.0	696.2	2.9	41	0.9	6.1	10.9	466	3.28	1.1	89.0	4.1	34	<0.1	0.2	<0.1	102	1.04	0.119
16848	Drill Core	7.22	65.8	546.0	3.1	34	0.6	5.7	11.6	429	3.11	2.1	63.9	6.6	36	0.1	0.2	0.3	96	1.27	0.120
16847	Drill Core	6.77	0.3	21.6	3.3	15	<0.1	13.4	6.0	242	1.48	<0.5	11.2	7.3	49	<0.1	<0.1	0.3	33	1.00	0.066
16846	Drill Core	10.43	3.6	176.5	2.6	24	0.2	7.6	9.4	347	2.64	1.3	25.1	7.0	47	<0.1	0.1	0.2	70	1.09	0.102

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Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
16875	Drill Core	7	16	0.63	63	0.152	3	1.24	0.109	0.21	0.8	<0.01	3.6	<0.1	0.77	6	<0.5	<0.2
16874	Drill Core	7	12	0.68	71	0.160	2	1.22	0.113	0.21	0.4	<0.01	3.1	<0.1	0.46	6	<0.5	<0.2
16873	Drill Core	7	12	0.65	62	0.142	2	1.23	0.101	0.15	0.8	<0.01	3.2	<0.1	0.37	6	<0.5	<0.2
16872	Drill Core	6	13	0.65	56	0.137	2	1.38	0.091	0.14	0.6	<0.01	3.2	<0.1	0.17	6	<0.5	<0.2
16871	Drill Core	7	14	0.68	65	0.153	2	1.26	0.110	0.23	5.9	<0.01	3.7	0.1	0.50	5	<0.5	<0.2
16870	Drill Core	7	13	0.70	65	0.182	3	1.45	0.129	0.21	0.9	<0.01	4.1	<0.1	0.94	7	<0.5	1.1
16869	Drill Core	7	18	0.63	88	0.165	4	1.01	0.114	0.29	1.1	<0.01	2.9	<0.1	0.32	5	<0.5	<0.2
16868	Drill Core	7	15	0.67	111	0.187	3	1.13	0.131	0.35	0.5	<0.01	2.9	<0.1	0.39	5	<0.5	<0.2
16867	Drill Core	8	12	0.56	85	0.157	3	0.92	0.105	0.30	0.6	<0.01	2.5	<0.1	0.43	5	<0.5	<0.2
16866	Drill Core	8	12	0.67	100	0.184	3	0.96	0.120	0.41	0.9	<0.01	2.8	<0.1	0.21	5	<0.5	<0.2
16865	Drill Core	8	7	0.54	57	0.153	3	1.17	0.098	0.21	3.7	<0.01	3.1	<0.1	0.75	6	<0.5	<0.2
16864	Drill Core	9	10	0.66	97	0.187	6	1.19	0.129	0.37	1.3	<0.01	3.0	<0.1	0.21	6	<0.5	<0.2
16863	Drill Core	9	8	0.56	91	0.168	4	0.99	0.111	0.35	0.8	<0.01	2.5	<0.1	0.49	5	<0.5	<0.2
16862	Drill Core	10	7	0.65	64	0.184	4	1.53	0.109	0.20	3.0	<0.01	3.4	<0.1	0.69	7	<0.5	<0.2
16861	Drill Core	9	8	0.47	66	0.141	3	0.94	0.107	0.24	0.9	<0.01	2.6	<0.1	0.73	5	<0.5	<0.2
16860	Rock Pulp	7	25	0.27	182	0.116	<1	0.62	0.088	0.43	0.3	<0.01	3.1	<0.1	<0.05	3	<0.5	<0.2
16859	Drill Core	9	9	0.51	77	0.157	4	1.00	0.127	0.31	6.1	<0.01	2.7	<0.1	0.85	5	<0.5	<0.2
16858	Drill Core	9	8	0.52	71	0.163	4	1.11	0.114	0.26	2.7	<0.01	2.6	<0.1	0.61	5	<0.5	<0.2
16857	Drill Core	10	9	0.56	82	0.171	5	1.04	0.125	0.34	2.1	<0.01	3.0	<0.1	0.57	5	<0.5	<0.2
16856	Drill Core	9	8	0.54	71	0.167	4	1.16	0.120	0.26	2.5	<0.01	3.2	<0.1	0.51	6	<0.5	<0.2
16855	Drill Core	10	8	0.62	84	0.181	4	1.28	0.134	0.34	3.0	<0.01	3.8	<0.1	0.63	6	<0.5	<0.2
16854	Drill Core	9	8	0.56	93	0.176	4	0.94	0.108	0.39	2.9	<0.01	2.2	<0.1	0.60	5	<0.5	<0.2
16853	Drill Core	10	9	0.61	83	0.174	3	1.13	0.137	0.40	2.3	<0.01	3.0	<0.1	0.96	6	<0.5	<0.2
16852	Drill Core	9	8	0.59	87	0.168	3	1.02	0.120	0.38	2.1	<0.01	3.0	<0.1	0.38	5	<0.5	<0.2
16851	Drill Core	10	10	0.65	86	0.169	3	1.04	0.124	0.33	5.3	<0.01	3.6	<0.1	0.54	5	<0.5	<0.2
16850	Drill Core	10	9	0.60	80	0.162	3	1.02	0.109	0.34	2.4	<0.01	3.0	<0.1	0.47	5	<0.5	<0.2
16849	Drill Core	10	10	0.65	81	0.179	4	1.04	0.132	0.31	2.1	<0.01	3.4	<0.1	0.22	5	<0.5	<0.2
16848	Drill Core	10	9	0.63	79	0.181	4	1.09	0.103	0.33	1.4	<0.01	2.8	<0.1	0.36	6	<0.5	0.3
16847	Drill Core	23	25	0.58	68	0.120	<1	0.95	0.104	0.13	0.7	<0.01	2.0	<0.1	0.51	5	<0.5	<0.2
16846	Drill Core	13	12	0.59	67	0.148	2	1.02	0.119	0.24	1.5	<0.01	3.1	<0.1	0.65	5	<0.5	<0.2

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Method		WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
16845	Drill Core	10.71	5.3	179.2	3.4	32	0.1	5.7	11.0	426	3.07	1.3	26.3	4.0	39	<0.1	0.1	<0.1	92	1.04	0.110
16844	Drill Core	10.11	4.2	187.8	3.0	29	0.1	5.9	10.3	380	2.93	4.5	14.7	4.7	34	<0.1	0.1	<0.1	88	1.12	0.116
16843	Drill Core	9.49	3.6	253.9	3.7	30	0.2	13.7	11.9	423	3.25	5.2	16.2	3.0	45	<0.1	0.2	0.1	94	1.70	0.112
16842	Drill Core	9.29	3.2	137.7	4.0	40	0.2	5.2	9.2	464	3.05	1.6	34.4	2.9	43	<0.1	0.2	0.1	106	1.20	0.122
16841	Drill Core	6.10	118.3	2149	2.5	36	3.5	8.2	23.0	339	4.17	3.9	907.6	4.9	46	0.4	0.3	0.7	74	1.63	0.102
16840	Rock Pulp	0.05	388.9	1923	24.8	44	12.9	13.8	7.1	450	2.74	13.1	229.0	2.2	122	0.6	30.3	2.2	55	1.12	0.054
16839	Drill Core	7.97	9.1	265.9	2.9	37	0.3	5.8	10.1	452	3.30	1.3	22.7	3.9	42	<0.1	0.2	0.2	110	1.16	0.113
16838	Drill Core	8.74	3.8	229.8	3.1	38	0.2	5.5	9.7	449	3.10	1.4	18.2	5.5	40	<0.1	0.2	0.1	106	1.07	0.114
16837	Drill Core	8.20	3.8	150.1	3.1	35	0.1	5.4	8.5	403	2.91	1.9	13.0	7.7	32	<0.1	0.1	<0.1	96	1.03	0.105
16836	Drill Core	10.38	4.3	236.8	2.6	20	0.2	5.9	10.4	348	2.69	2.2	39.6	13.6	44	<0.1	0.2	0.2	75	1.46	0.104
16835	Drill Core	9.55	13.3	210.6	2.5	34	0.2	5.9	10.1	439	3.25	1.5	23.6	4.4	40	<0.1	0.1	0.1	106	1.14	0.121
16834	Drill Core	7.97	2.7	155.2	4.1	40	0.1	5.4	9.3	425	2.97	1.8	9.3	5.1	45	<0.1	0.2	<0.1	104	0.97	0.104
16833	Drill Core	11.40	17.6	196.5	3.4	25	0.2	6.2	9.7	422	2.91	4.4	21.3	6.1	55	<0.1	0.2	0.1	89	1.37	0.103
16832	Drill Core	6.07	2.3	128.6	3.7	38	0.1	5.5	9.5	446	3.13	3.0	14.9	3.7	51	<0.1	0.3	<0.1	115	1.03	0.103
16831	Drill Core	5.62	5.3	186.5	3.3	21	0.2	7.0	12.1	326	2.90	3.3	15.7	6.7	62	<0.1	0.2	0.2	84	1.34	0.102
16830	Drill Core	10.81	3.9	168.4	2.9	24	0.2	7.4	11.9	372	3.00	1.1	22.8	5.4	71	<0.1	0.2	0.2	92	1.33	0.112
16829	Drill Core	10.80	10.8	164.2	2.9	30	0.2	6.3	9.2	374	2.89	1.4	16.8	6.1	40	<0.1	0.1	<0.1	95	1.07	0.115
16828	Drill Core	11.17	4.1	157.1	2.6	23	0.1	5.4	11.0	347	2.60	0.9	10.9	5.4	48	<0.1	0.2	0.1	83	1.11	0.105
16827	Drill Core	10.50	4.0	557.0	3.5	27	0.6	10.4	14.5	419	3.88	2.3	20.2	6.1	67	<0.1	0.2	0.3	94	2.09	0.098
16826	Drill Core	9.53	5.1	104.0	2.2	28	<0.1	4.5	9.0	466	3.07	<0.5	6.3	2.8	71	<0.1	<0.1	<0.1	109	1.38	0.100
16825	Drill Core	8.47	2.2	160.0	1.3	22	0.1	4.2	8.2	364	2.96	<0.5	13.3	3.0	73	<0.1	0.1	<0.1	101	1.11	0.096
16824	Drill Core	8.46	3.6	134.3	1.8	23	<0.1	5.7	10.3	452	3.24	1.5	9.1	4.1	85	<0.1	0.1	0.1	109	1.38	0.102
16823	Drill Core	5.55	2.0	190.1	1.9	22	0.1	7.5	11.8	454	3.37	1.1	14.0	3.5	99	<0.1	0.1	0.1	120	1.54	0.125
16822	Drill Core	6.98	22.7	225.1	2.0	24	0.2	6.1	10.6	554	3.21	0.7	40.8	3.2	111	<0.1	0.2	0.2	113	1.91	0.103
16821	Drill Core	9.95	1.8	28.5	1.3	17	<0.1	2.8	4.5	317	2.03	<0.5	4.1	2.5	74	<0.1	0.2	<0.1	55	0.86	0.061
16820	Rock Pulp	0.05	9.4	31.0	2.2	26	<0.1	13.4	3.6	440	2.38	0.9	<0.5	3.6	10	<0.1	0.3	<0.1	19	0.16	0.022
16819	Drill Core	8.43	1.0	42.2	2.2	13	<0.1	2.0	4.2	326	1.84	<0.5	5.2	2.4	52	<0.1	0.1	<0.1	50	0.77	0.055
16818	Drill Core	9.17	1.2	35.2	0.8	11	<0.1	2.6	3.8	276	1.78	<0.5	6.4	2.4	69	<0.1	0.2	<0.1	48	0.72	0.060
16817	Drill Core	10.30	0.8	23.5	0.9	12	<0.1	2.1	4.3	291	1.78	<0.5	1.9	2.4	93	<0.1	0.1	<0.1	50	0.81	0.055
16816	Drill Core	8.18	1.3	104.9	0.8	9	<0.1	2.9	7.6	212	1.95	<0.5	13.6	2.3	68	<0.1	<0.1	6.1	45	0.76	0.049

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Project: Moffat
Report Date: January 06, 2012

CERTIFICATE OF ANALYSIS VAN11006563.1

Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
16845	Drill Core	10	11	0.61	89	0.187	4	1.07	0.147	0.37	1.1	<0.01	3.2	<0.1	0.37	5	<0.5	<0.2
16844	Drill Core	10	7	0.55	69	0.173	4	1.06	0.110	0.31	15.0	<0.01	2.9	<0.1	0.38	5	<0.5	<0.2
16843	Drill Core	9	25	0.63	59	0.179	4	1.43	0.107	0.22	1.0	<0.01	3.7	<0.1	0.55	7	<0.5	<0.2
16842	Drill Core	9	7	0.64	94	0.171	6	1.24	0.132	0.33	1.7	<0.01	2.9	<0.1	0.11	6	<0.5	<0.2
16841	Drill Core	9	7	0.67	46	0.139	2	1.62	0.087	0.21	2.4	0.02	3.8	0.1	2.61	8	1.2	0.6
16840	Rock Pulp	6	19	0.48	217	0.089	1	1.16	0.131	0.23	0.7	0.46	1.6	<0.1	0.30	3	<0.5	1.1
16839	Drill Core	9	8	0.67	98	0.179	5	1.20	0.125	0.36	3.5	<0.01	2.3	<0.1	0.32	6	<0.5	<0.2
16838	Drill Core	9	8	0.65	112	0.176	5	1.13	0.156	0.42	0.8	<0.01	2.8	0.1	0.21	6	<0.5	<0.2
16837	Drill Core	9	8	0.56	75	0.149	4	0.99	0.119	0.28	0.6	<0.01	2.7	<0.1	0.16	5	<0.5	<0.2
16836	Drill Core	11	6	0.50	63	0.165	2	1.30	0.123	0.20	0.9	<0.01	3.1	0.1	0.74	7	0.6	<0.2
16835	Drill Core	9	9	0.61	81	0.170	4	1.01	0.109	0.30	0.9	<0.01	2.3	0.1	0.34	5	<0.5	<0.2
16834	Drill Core	8	9	0.61	107	0.174	7	1.09	0.160	0.42	0.7	<0.01	2.6	<0.1	0.12	5	<0.5	<0.2
16833	Drill Core	9	8	0.57	56	0.156	4	1.22	0.099	0.18	0.8	0.02	2.7	<0.1	0.45	7	<0.5	<0.2
16832	Drill Core	7	9	0.67	124	0.199	5	1.23	0.161	0.43	0.8	<0.01	2.5	<0.1	0.13	6	<0.5	<0.2
16831	Drill Core	9	8	0.61	53	0.164	3	1.42	0.131	0.18	1.1	<0.01	3.5	<0.1	0.91	7	<0.5	<0.2
16830	Drill Core	10	9	0.53	84	0.171	4	1.18	0.164	0.27	2.0	<0.01	2.7	<0.1	0.76	6	<0.5	<0.2
16829	Drill Core	8	8	0.55	84	0.141	5	1.06	0.132	0.32	0.6	<0.01	2.5	<0.1	0.28	5	<0.5	<0.2
16828	Drill Core	9	7	0.51	79	0.157	4	1.01	0.137	0.29	1.4	<0.01	2.7	0.1	0.54	5	0.5	<0.2
16827	Drill Core	10	7	0.60	61	0.150	4	1.22	0.097	0.21	3.5	<0.01	3.2	<0.1	1.60	6	1.4	<0.2
16826	Drill Core	8	7	0.69	88	0.171	4	1.30	0.176	0.26	5.6	<0.01	3.8	<0.1	0.09	6	<0.5	<0.2
16825	Drill Core	7	7	0.52	68	0.135	3	0.92	0.123	0.16	3.6	<0.01	2.6	<0.1	0.17	4	<0.5	<0.2
16824	Drill Core	10	8	0.78	87	0.183	3	1.31	0.146	0.28	2.2	<0.01	4.5	<0.1	0.35	6	<0.5	<0.2
16823	Drill Core	7	11	0.76	100	0.172	3	1.31	0.135	0.22	1.8	<0.01	3.8	<0.1	0.65	6	0.7	<0.2
16822	Drill Core	8	11	0.79	74	0.184	3	1.85	0.150	0.24	2.8	<0.01	4.8	<0.1	0.69	8	0.8	0.2
16821	Drill Core	6	10	0.37	86	0.094	1	0.76	0.113	0.17	0.6	<0.01	1.8	<0.1	0.17	3	<0.5	<0.2
16820	Rock Pulp	7	24	0.27	178	0.117	1	0.63	0.087	0.43	0.3	<0.01	3.0	0.2	<0.05	3	<0.5	<0.2
16819	Drill Core	6	8	0.39	81	0.106	2	0.77	0.132	0.17	0.5	<0.01	1.9	<0.1	0.14	3	<0.5	<0.2
16818	Drill Core	7	9	0.34	73	0.090	1	0.71	0.113	0.14	1.0	<0.01	1.6	<0.1	0.08	3	<0.5	<0.2
16817	Drill Core	6	9	0.38	90	0.090	<1	0.83	0.134	0.16	0.5	<0.01	1.8	<0.1	0.08	3	<0.5	<0.2
16816	Drill Core	5	8	0.38	79	0.084	<1	0.80	0.113	0.15	1.6	<0.01	1.8	<0.1	0.60	3	<0.5	3.2

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Project: Moffat
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CERTIFICATE OF ANALYSIS VAN11006563.1

Method		WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
16815	Drill Core	8.92	2.9	106.9	1.4	10	<0.1	2.5	7.7	251	2.09	<0.5	7.9	2.5	123	<0.1	0.1	0.4	52	0.98	0.054
16814	Drill Core	9.39	1.6	65.3	2.4	12	<0.1	3.6	5.3	276	1.93	<0.5	7.5	2.5	70	<0.1	0.1	0.2	51	1.01	0.052
16813	Drill Core	10.38	0.8	18.9	3.5	15	<0.1	13.7	6.2	217	1.56	0.7	6.1	7.3	55	<0.1	<0.1	0.2	35	0.96	0.071
16812	Drill Core	11.62	2.0	70.4	1.2	12	<0.1	3.2	6.3	307	2.09	<0.5	5.1	2.6	75	<0.1	0.1	0.4	52	1.07	0.060
16811	Drill Core	10.64	0.3	53.0	0.8	14	<0.1	2.0	5.5	358	1.89	<0.5	2.9	2.3	53	<0.1	0.1	<0.1	52	0.76	0.057
16810	Drill Core	6.51	0.5	128.7	0.7	13	0.2	3.1	5.3	346	2.05	<0.5	9.8	2.2	52	<0.1	0.1	<0.1	53	0.79	0.060
16809	Drill Core	7.45	0.3	41.1	1.0	13	<0.1	2.3	5.4	340	2.01	<0.5	4.7	2.6	76	<0.1	0.1	<0.1	55	0.74	0.060
16808	Drill Core	10.16	0.5	25.0	0.8	16	<0.1	3.2	5.0	355	1.96	<0.5	2.9	2.8	72	<0.1	0.1	<0.1	50	0.48	0.058

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CERTIFICATE OF ANALYSIS VAN11006563.1

Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
16815	Drill Core	6	9	0.46	100	0.103	1	1.10	0.162	0.19	1.7	<0.01	2.7	<0.1	0.52	4	<0.5	0.4
16814	Drill Core	6	9	0.40	67	0.099	2	0.96	0.107	0.13	1.5	<0.01	2.6	<0.1	0.25	4	<0.5	<0.2
16813	Drill Core	20	23	0.57	103	0.123	<1	0.96	0.136	0.19	0.4	<0.01	2.1	<0.1	0.56	5	<0.5	<0.2
16812	Drill Core	6	9	0.40	70	0.098	1	0.99	0.100	0.13	0.9	<0.01	2.1	<0.1	0.33	4	<0.5	0.2
16811	Drill Core	5	10	0.42	89	0.101	<1	0.86	0.132	0.21	0.3	<0.01	1.9	<0.1	0.06	4	<0.5	<0.2
16810	Drill Core	5	9	0.44	72	0.095	1	0.79	0.100	0.19	1.1	<0.01	2.0	<0.1	0.18	4	<0.5	<0.2
16809	Drill Core	6	10	0.42	91	0.107	1	0.85	0.130	0.20	0.5	<0.01	2.0	<0.1	0.10	4	<0.5	<0.2
16808	Drill Core	6	9	0.37	97	0.093	1	0.72	0.097	0.18	0.6	<0.01	1.6	<0.1	<0.05	3	<0.5	<0.2

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QUALITY CONTROL REPORT VAN11006563.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
16863	Drill Core	9.67	3.8	154.1	3.1	31	0.1	6.3	11.0	383	3.17	2.7	10.6	3.7	38	<0.1	0.1	<0.1	96	1.08	0.126
REP 16863	QC		4.0	155.5	3.0	30	0.1	6.5	11.5	402	3.21	3.1	10.7	3.9	39	<0.1	0.1	<0.1	96	1.10	0.128
16846	Drill Core	10.43	3.6	176.5	2.6	24	0.2	7.6	9.4	347	2.64	1.3	25.1	7.0	47	<0.1	0.1	0.2	70	1.09	0.102
REP 16846	QC		3.7	178.2	2.7	22	0.2	7.5	9.5	344	2.62	1.1	28.6	7.1	46	<0.1	0.2	0.2	70	1.09	0.098
16837	Drill Core	8.20	3.8	150.1	3.1	35	0.1	5.4	8.5	403	2.91	1.9	13.0	7.7	32	<0.1	0.1	<0.1	96	1.03	0.105
REP 16837	QC		4.3	155.4	3.7	37	0.2	5.6	9.2	420	3.04	2.3	12.7	8.6	36	<0.1	0.1	<0.1	100	1.07	0.118
16821	Drill Core	9.95	1.8	28.5	1.3	17	<0.1	2.8	4.5	317	2.03	<0.5	4.1	2.5	74	<0.1	0.2	<0.1	55	0.86	0.061
REP 16821	QC		1.8	27.0	1.2	16	<0.1	2.9	4.5	312	2.01	<0.5	3.5	2.3	70	<0.1	0.1	<0.1	53	0.84	0.061
Core Reject Duplicates																					
16874	Drill Core	11.42	1.5	127.8	1.7	22	<0.1	7.3	11.1	381	3.04	1.7	8.6	2.7	67	<0.1	0.1	<0.1	106	1.47	0.132
DUP 16874	QC		2.4	123.0	1.5	22	<0.1	7.6	11.6	357	3.03	1.7	8.2	3.0	72	<0.1	0.1	<0.1	103	1.42	0.129
16839	Drill Core	7.97	9.1	265.9	2.9	37	0.3	5.8	10.1	452	3.30	1.3	22.7	3.9	42	<0.1	0.2	0.2	110	1.16	0.113
DUP 16839	QC		8.5	276.6	2.4	33	0.2	5.7	9.7	402	3.09	1.5	21.2	3.7	38	<0.1	0.2	0.1	99	1.07	0.111
Reference Materials																					
STD DS8	Standard		12.7	105.7	108.3	285	1.6	34.9	6.9	568	2.33	22.6	111.8	6.8	62	2.1	5.3	6.1	41	0.70	0.070
STD DS8	Standard		13.8	112.9	127.1	314	1.9	39.2	7.7	606	2.52	25.3	142.1	7.0	68	2.2	5.3	6.6	42	0.72	0.082
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	<0.01	0.2	3.4	3.2	46	<0.1	3.2	4.2	570	1.93	<0.5	1.5	6.3	69	<0.1	<0.1	<0.1	38	0.49	0.078
G1	Prep Blank	<0.01	0.2	3.7	3.2	47	<0.1	3.0	4.0	553	1.94	<0.5	1.4	6.2	75	<0.1	<0.1	<0.1	38	0.52	0.075

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QUALITY CONTROL REPORT VAN11006563.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																		
16863	Drill Core	9	8	0.56	91	0.168	4	0.99	0.111	0.35	0.8	<0.01	2.5	<0.1	0.49	5	<0.5	<0.2
REP 16863	QC	10	8	0.58	95	0.175	4	1.01	0.116	0.35	0.8	<0.01	2.7	<0.1	0.49	5	<0.5	<0.2
16846	Drill Core	13	12	0.59	67	0.148	2	1.02	0.119	0.24	1.5	<0.01	3.1	<0.1	0.65	5	<0.5	<0.2
REP 16846	QC	13	12	0.58	68	0.153	2	1.02	0.120	0.24	1.5	<0.01	3.1	<0.1	0.64	5	<0.5	0.3
16837	Drill Core	9	8	0.56	75	0.149	4	0.99	0.119	0.28	0.6	<0.01	2.7	<0.1	0.16	5	<0.5	<0.2
REP 16837	QC	10	8	0.58	81	0.154	4	1.03	0.123	0.29	0.6	<0.01	2.4	<0.1	0.17	6	<0.5	<0.2
16821	Drill Core	6	10	0.37	86	0.094	1	0.76	0.113	0.17	0.6	<0.01	1.8	<0.1	0.17	3	<0.5	<0.2
REP 16821	QC	6	9	0.37	80	0.091	2	0.76	0.112	0.17	0.6	<0.01	1.7	<0.1	0.17	3	<0.5	<0.2
Core Reject Duplicates																		
16874	Drill Core	7	12	0.68	71	0.160	2	1.22	0.113	0.21	0.4	<0.01	3.1	<0.1	0.46	6	<0.5	<0.2
DUP 16874	QC	7	13	0.63	66	0.156	3	1.13	0.105	0.20	0.5	<0.01	3.1	<0.1	0.55	5	<0.5	<0.2
16839	Drill Core	9	8	0.67	98	0.179	5	1.20	0.125	0.36	3.5	<0.01	2.3	<0.1	0.32	6	<0.5	<0.2
DUP 16839	QC	8	8	0.61	77	0.170	5	1.07	0.099	0.31	2.3	<0.01	2.1	<0.1	0.32	6	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	15	111	0.58	253	0.118	3	0.90	0.085	0.40	2.7	0.17	2.0	4.6	0.16	4	4.8	4.4
STD DS8	Standard	16	119	0.62	276	0.126	2	0.92	0.088	0.42	2.8	0.20	2.2	5.4	0.16	5	4.9	4.9
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	14	10	0.52	176	0.132	<1	0.89	0.077	0.48	<0.1	<0.01	2.1	0.3	<0.05	5	<0.5	<0.2
G1	Prep Blank	14	10	0.50	168	0.128	2	0.92	0.080	0.47	<0.1	<0.01	2.1	0.2	<0.05	5	<0.5	<0.2

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Client: **Coast Mountain Geological**
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PO Box 11604
Vancouver BC V6B 4N9 Canada

Submitted By: Rich Parish
Receiving Lab: Canada-Vancouver
Received: November 22, 2011
Report Date: January 06, 2012
Page: 1 of 3

CERTIFICATE OF ANALYSIS VAN11006426.1

CLIENT JOB INFORMATION

Project: Moffat
Shipment ID: #1
P.O. Number
Number of Samples: 57

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	54	Crush, split and pulverize 250 g rock to 200 mesh			VAN
1DX2	57	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

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

ADDITIONAL COMMENTS

Invoice To: Fjordland Exploration Inc.
11th Floor, 1111 Melville Street
Vancouver BC V6E 3V6
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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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PO Box 11604
Vancouver BC V6B 4N9 Canada

Project: Moffat
Report Date: January 06, 2012

CERTIFICATE OF ANALYSIS VAN11006426.1

Method		WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
16751	Drill Core	5.31	0.4	41.5	3.5	15	<0.1	3.8	5.7	319	2.67	1.3	3.7	2.5	42	<0.1	0.5	0.2	71	0.63	0.077
16752	Drill Core	8.15	0.8	28.5	3.8	13	<0.1	2.1	6.3	304	2.73	1.4	10.3	2.4	34	<0.1	0.4	0.2	71	0.88	0.074
16753	Drill Core	4.13	1.4	25.5	1.1	12	<0.1	2.7	6.8	355	2.62	1.0	28.7	2.6	65	<0.1	0.3	0.2	64	2.03	0.071
16754	Drill Core	10.13	0.5	8.0	1.4	14	<0.1	2.0	4.7	320	2.36	1.9	2.8	2.7	38	<0.1	0.2	<0.1	69	1.15	0.073
16755	Drill Core	9.74	16.2	24.3	1.7	12	<0.1	2.6	4.8	329	2.41	1.3	7.2	2.8	40	<0.1	0.2	0.2	68	1.19	0.080
16756	Drill Core	7.75	38.9	28.7	1.3	12	<0.1	3.1	5.7	348	2.76	1.3	8.8	1.8	56	<0.1	0.2	0.2	66	1.54	0.075
16757	Drill Core	8.74	0.5	154.4	1.0	14	<0.1	2.3	5.3	311	2.70	0.6	5.5	1.7	42	<0.1	0.2	<0.1	72	0.93	0.078
16758	Drill Core	8.60	0.8	54.8	1.2	12	<0.1	2.5	5.3	328	2.55	0.7	2.2	1.7	54	<0.1	0.3	<0.1	67	1.42	0.079
16759	Drill Core	10.28	0.6	27.8	1.5	12	<0.1	2.5	5.1	287	2.33	0.9	0.7	1.9	40	<0.1	0.1	0.1	69	1.18	0.078
16760	Rock Pulp	0.05	383.8	1879	23.9	47	12.6	14.6	7.2	494	2.82	14.7	172.1	2.0	153	<0.1	29.3	2.0	55	1.13	0.050
16761	Drill Core	9.44	<0.1	35.2	1.1	13	0.1	2.1	4.9	329	2.51	0.7	22.3	1.6	43	<0.1	<0.1	0.2	72	0.97	0.078
16762	Drill Core	8.15	1.2	19.9	0.9	11	<0.1	2.7	4.8	327	2.64	0.9	4.0	1.5	47	<0.1	0.1	<0.1	75	1.00	0.079
16763	Drill Core	6.88	0.9	10.4	1.0	10	<0.1	2.2	6.6	308	2.68	0.9	8.8	1.6	49	<0.1	0.1	0.1	71	1.11	0.078
16764	Drill Core	8.93	0.7	7.5	0.8	10	<0.1	2.0	4.4	277	2.40	<0.5	<0.5	1.5	34	<0.1	<0.1	<0.1	70	0.81	0.082
16765	Drill Core	7.21	0.8	33.0	1.2	13	2.1	2.5	7.1	346	2.89	0.7	2.5	1.8	64	<0.1	0.1	0.1	72	1.19	0.083
16766	Drill Core	7.98	0.7	17.5	0.8	11	<0.1	2.5	6.2	280	2.63	<0.5	<0.5	1.5	38	<0.1	0.2	<0.1	74	0.94	0.075
16767	Drill Core	7.20	0.5	16.0	1.1	12	<0.1	2.3	5.6	301	2.51	0.7	3.6	1.3	39	<0.1	0.2	<0.1	71	0.89	0.078
16768	Drill Core	8.87	0.5	29.0	1.1	10	<0.1	3.2	7.1	313	2.79	0.7	17.6	1.5	63	<0.1	0.2	<0.1	77	1.27	0.082
16769	Drill Core	8.50	0.6	19.1	0.9	11	<0.1	2.9	5.5	285	2.61	0.8	0.8	1.5	53	<0.1	0.2	<0.1	72	1.10	0.078
16770	Drill Core	8.67	0.6	15.1	1.1	12	<0.1	2.5	6.4	318	2.70	0.9	0.8	1.6	54	<0.1	0.2	<0.1	80	1.15	0.086
16771	Drill Core	7.99	0.9	197.5	1.2	9	0.2	3.0	5.4	293	3.50	1.9	28.0	1.7	42	<0.1	0.1	0.4	83	0.97	0.078
16772	Drill Core	8.11	0.5	67.6	1.2	13	0.1	3.1	3.6	351	3.39	0.9	33.0	1.6	49	<0.1	0.1	0.3	81	1.13	0.080
16773	Drill Core	6.34	0.5	54.9	0.8	15	<0.1	2.8	3.7	344	3.47	<0.5	<0.5	1.7	44	<0.1	0.1	0.2	85	0.81	0.079
16774	Drill Core	6.94	0.5	56.0	0.9	14	<0.1	2.5	5.0	316	2.78	0.6	19.0	1.7	37	<0.1	<0.1	0.1	78	0.93	0.080
16775	Drill Core	7.04	0.5	43.1	0.8	12	<0.1	2.3	4.5	287	2.85	<0.5	2.6	1.6	37	<0.1	<0.1	1.0	79	0.79	0.077
16776	Drill Core	6.83	0.5	42.5	1.0	13	<0.1	2.3	4.1	307	2.83	0.7	<0.5	1.7	40	<0.1	0.1	<0.1	81	0.89	0.082
16777	Drill Core	9.39	0.5	110.1	1.0	14	<0.1	3.0	6.2	332	3.33	0.6	<0.5	1.8	47	<0.1	0.1	0.2	87	1.01	0.086
16778	Drill Core	9.53	0.5	16.3	1.4	11	<0.1	2.0	5.9	308	2.78	0.9	20.0	1.7	52	<0.1	0.2	0.4	80	1.16	0.082
16779	Drill Core	9.33	0.7	75.1	1.7	12	<0.1	2.8	6.2	341	2.93	0.9	9.2	1.7	43	<0.1	0.1	0.2	78	1.30	0.085
16780	Rock Pulp	0.05	9.3	28.7	2.3	24	<0.1	12.5	3.4	446	2.41	1.5	<0.5	3.4	12	<0.1	0.3	<0.1	20	0.16	0.022

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Project: Moffat
Report Date: January 06, 2012

CERTIFICATE OF ANALYSIS VAN11006426.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
16751	Drill Core	5	6	0.56	79	0.081	2	0.91	0.092	0.21	0.7	0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
16752	Drill Core	5	5	0.49	91	0.063	3	0.80	0.080	0.13	0.4	0.01	2.3	<0.1	0.08	4	0.6	<0.2
16753	Drill Core	5	5	0.70	64	0.051	2	1.39	0.117	0.18	1.3	0.02	3.1	<0.1	0.42	6	0.5	<0.2
16754	Drill Core	6	5	0.38	95	0.081	3	0.82	0.097	0.10	0.2	<0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
16755	Drill Core	6	5	0.36	75	0.073	3	0.74	0.089	0.09	0.2	<0.01	1.9	<0.1	0.22	4	<0.5	<0.2
16756	Drill Core	5	5	0.70	61	0.077	2	1.18	0.094	0.19	0.7	0.01	2.3	<0.1	0.31	5	0.5	<0.2
16757	Drill Core	5	5	0.46	66	0.094	2	0.89	0.111	0.22	1.2	<0.01	1.8	0.1	0.06	4	<0.5	<0.2
16758	Drill Core	5	6	0.42	55	0.087	3	1.11	0.119	0.13	1.1	0.01	1.5	<0.1	0.08	4	<0.5	<0.2
16759	Drill Core	6	5	0.34	69	0.090	2	0.89	0.120	0.11	0.7	<0.01	2.1	<0.1	0.17	4	<0.5	<0.2
16760	Rock Pulp	6	21	0.48	226	0.089	2	1.17	0.136	0.23	0.5	0.52	1.8	<0.1	0.30	4	0.9	1.1
16761	Drill Core	5	5	0.37	61	0.084	2	0.75	0.102	0.11	0.3	<0.01	1.8	<0.1	0.10	4	<0.5	<0.2
16762	Drill Core	4	5	0.57	65	0.103	3	1.10	0.109	0.27	0.4	<0.01	2.0	0.1	0.06	5	<0.5	<0.2
16763	Drill Core	4	5	0.45	76	0.086	3	1.05	0.135	0.20	1.1	<0.01	2.5	<0.1	0.32	5	0.9	<0.2
16764	Drill Core	4	5	0.30	60	0.074	1	0.57	0.093	0.09	0.2	<0.01	1.3	<0.1	0.06	3	0.5	<0.2
16765	Drill Core	5	6	0.45	104	0.099	2	0.82	0.099	0.11	5.4	0.01	2.1	<0.1	0.23	4	<0.5	<0.2
16766	Drill Core	4	5	0.48	52	0.090	2	0.91	0.094	0.21	0.5	<0.01	1.9	0.1	0.15	4	1.0	<0.2
16767	Drill Core	4	6	0.38	50	0.086	2	0.74	0.099	0.14	0.3	<0.01	1.7	<0.1	0.08	3	0.7	<0.2
16768	Drill Core	4	5	0.62	50	0.105	3	1.25	0.104	0.21	0.4	0.01	2.3	<0.1	0.18	5	0.7	<0.2
16769	Drill Core	4	5	0.50	52	0.101	2	0.92	0.097	0.17	0.5	<0.01	1.9	<0.1	0.21	4	<0.5	<0.2
16770	Drill Core	5	8	0.39	53	0.098	3	0.86	0.110	0.12	0.2	0.02	2.2	<0.1	0.13	4	<0.5	<0.2
16771	Drill Core	5	8	0.73	68	0.119	2	1.14	0.089	0.34	0.4	0.01	2.5	0.2	0.47	5	0.8	<0.2
16772	Drill Core	5	5	0.71	70	0.119	2	1.26	0.097	0.38	0.4	<0.01	2.6	0.2	0.31	6	<0.5	0.3
16773	Drill Core	5	6	0.64	84	0.130	<1	1.14	0.119	0.51	0.4	<0.01	2.6	0.3	0.09	5	<0.5	<0.2
16774	Drill Core	5	5	0.42	58	0.106	<1	0.85	0.109	0.20	0.3	<0.01	2.1	<0.1	0.13	4	<0.5	0.2
16775	Drill Core	4	5	0.44	55	0.099	2	0.80	0.104	0.26	0.3	<0.01	1.8	0.1	0.12	4	0.5	1.0
16776	Drill Core	5	6	0.42	64	0.101	1	0.80	0.117	0.19	0.2	<0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
16777	Drill Core	5	6	0.61	61	0.122	2	1.08	0.123	0.27	0.5	<0.01	2.4	0.1	0.16	5	0.6	<0.2
16778	Drill Core	5	4	0.42	51	0.106	2	0.99	0.096	0.10	0.4	<0.01	1.8	0.3	0.13	5	0.8	<0.2
16779	Drill Core	6	5	0.50	71	0.103	1	0.94	0.132	0.17	0.6	0.02	3.0	<0.1	0.45	5	1.1	<0.2
16780	Rock Pulp	7	24	0.28	186	0.110	<1	0.65	0.090	0.43	0.3	<0.01	3.0	0.1	<0.05	3	<0.5	<0.2

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Project: Moffat
Report Date: January 06, 2012

CERTIFICATE OF ANALYSIS VAN11006426.1

Method		WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
16781	Drill Core	4.77	0.7	664.4	1.3	20	0.7	5.9	16.0	491	5.94	2.1	38.3	1.3	49	<0.1	0.1	0.6	167	1.55	0.119
16782	Drill Core	4.23	0.5	91.8	1.3	14	0.2	4.4	13.3	415	4.19	2.3	511.9	1.4	58	<0.1	0.2	4.6	108	2.27	0.105
16783	Drill Core	8.66	0.6	44.1	1.5	11	<0.1	3.0	6.7	357	3.05	1.4	53.2	1.8	49	<0.1	0.1	0.7	78	1.65	0.081
16784	Drill Core	9.67	0.3	138.0	1.1	11	0.2	2.1	3.6	212	2.65	0.8	18.8	1.1	28	<0.1	<0.1	0.7	64	0.88	0.071
16785	Drill Core	3.77	1.1	882.1	1.0	21	1.2	2.3	10.6	261	3.23	1.8	82.5	1.2	26	<0.1	<0.1	3.0	71	0.99	0.066
16786	Drill Core	3.94	1.6	2167	0.7	27	2.7	2.7	16.8	241	3.38	1.8	114.7	1.1	21	0.1	0.1	10.0	60	0.59	0.070
16787	Drill Core	4.24	6.2	1500	1.2	18	2.2	2.6	50.1	191	3.57	4.6	337.3	1.1	22	<0.1	<0.1	16.8	59	0.61	0.069
16788	Drill Core	7.03	0.4	68.1	1.0	11	<0.1	2.1	3.7	210	2.60	1.4	5.7	1.1	26	<0.1	<0.1	0.3	61	0.63	0.079
16789	Drill Core	7.21	0.4	51.2	1.4	10	<0.1	2.0	4.3	208	2.52	2.4	15.7	1.3	38	<0.1	<0.1	0.2	61	0.99	0.080
16790	Drill Core	8.37	0.5	326.0	1.0	12	0.4	2.4	3.5	212	2.78	2.0	45.8	1.3	33	<0.1	<0.1	0.2	66	0.76	0.077
16791	Drill Core	9.94	0.4	11.4	1.0	10	<0.1	1.6	3.8	175	2.03	2.2	2.2	1.4	35	<0.1	<0.1	<0.1	57	0.59	0.075
16792	Drill Core	11.62	0.3	16.5	0.8	9	<0.1	1.9	3.7	173	1.97	2.0	2.2	1.3	32	<0.1	<0.1	<0.1	57	0.53	0.077
16793	Drill Core	10.92	0.5	37.8	1.0	10	<0.1	1.6	4.0	185	2.03	1.7	2.0	1.4	42	<0.1	<0.1	<0.1	57	0.63	0.080
16794	Drill Core	9.73	0.4	18.6	1.0	9	<0.1	1.9	4.8	167	2.18	1.9	21.2	1.3	37	<0.1	<0.1	<0.1	56	0.69	0.071
16795	Drill Core	10.00	0.4	19.9	1.1	10	<0.1	1.5	4.0	174	2.02	1.8	2.0	1.4	40	<0.1	<0.1	<0.1	56	0.68	0.071
16796	Drill Core	9.14	0.5	47.3	1.3	12	<0.1	2.2	4.9	212	2.31	2.7	15.2	1.4	38	<0.1	<0.1	1.3	60	0.79	0.075
16797	Drill Core	8.69	0.4	16.7	1.1	12	<0.1	1.8	4.0	209	1.91	1.9	2.0	1.3	47	<0.1	<0.1	<0.1	54	0.72	0.074
16798	Drill Core	8.48	0.4	24.5	1.0	9	<0.1	1.6	3.5	168	1.90	1.8	8.3	1.4	30	<0.1	<0.1	0.2	52	0.62	0.073
16799	Drill Core	6.65	0.6	43.8	1.0	10	<0.1	1.8	4.1	206	2.03	2.1	4.7	1.5	36	<0.1	<0.1	<0.1	57	0.69	0.077
16800	Rock Pulp	0.05	405.1	2656	23.2	43	15.3	13.6	6.4	378	2.51	16.7	267.3	1.4	102	0.9	30.7	1.6	39	0.90	0.039
16801	Drill Core	4.22	0.7	109.7	1.3	10	0.2	2.9	10.2	284	2.48	2.8	60.5	1.2	57	<0.1	<0.1	0.7	48	2.07	0.066
16802	Drill Core	10.18	0.6	13.5	1.1	11	<0.1	1.8	3.7	210	2.00	1.9	4.2	1.4	43	<0.1	<0.1	<0.1	56	0.87	0.069
16803	Drill Core	4.99	0.4	46.4	1.3	10	0.1	2.6	6.2	270	2.30	2.6	29.7	1.4	52	<0.1	<0.1	0.1	53	1.69	0.070
16804	Drill Core	9.19	0.5	15.0	1.4	11	<0.1	1.8	4.1	223	2.08	1.9	3.6	1.5	34	<0.1	<0.1	<0.1	57	0.84	0.070
16805	Drill Core	3.73	0.3	24.2	2.3	14	<0.1	2.2	6.1	288	2.01	1.2	7.8	1.2	69	<0.1	<0.1	<0.1	52	2.20	0.064
16806	Drill Core	9.32	0.5	17.8	1.2	13	<0.1	1.8	4.4	263	2.10	2.6	1.0	1.6	43	<0.1	<0.1	<0.1	57	0.88	0.069
16807	Drill Core	8.30	0.3	23.4	1.1	10	<0.1	1.6	3.7	212	2.01	2.6	11.8	1.5	35	<0.1	<0.1	<0.1	60	0.66	0.075

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Project: Moffat
Report Date: January 06, 2012

CERTIFICATE OF ANALYSIS VAN11006426.1

Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
16781	Drill Core	5	19	1.33	72	0.192	1	1.72	0.107	0.62	1.3	<0.01	6.6	0.4	1.34	10	0.6	0.3
16782	Drill Core	6	8	0.79	51	0.103	1	1.18	0.077	0.29	0.4	<0.01	4.0	0.2	1.27	6	0.7	2.2
16783	Drill Core	6	5	0.63	59	0.077	<1	1.01	0.085	0.23	0.2	<0.01	3.1	0.1	0.35	6	<0.5	0.5
16784	Drill Core	3	6	0.52	46	0.076	1	0.85	0.068	0.23	0.3	<0.01	2.3	0.1	0.14	4	<0.5	0.6
16785	Drill Core	3	5	0.88	64	0.105	1	1.21	0.037	0.43	0.4	<0.01	3.2	0.2	0.63	7	<0.5	2.3
16786	Drill Core	3	6	0.75	68	0.096	<1	1.08	0.034	0.60	3.2	<0.01	2.5	0.3	0.96	6	<0.5	7.7
16787	Drill Core	3	5	0.84	62	0.073	<1	1.03	0.028	0.49	12.1	<0.01	2.8	0.2	1.44	6	<0.5	11.4
16788	Drill Core	3	6	0.50	49	0.067	1	0.77	0.076	0.29	0.3	<0.01	1.7	0.1	0.10	4	<0.5	<0.2
16789	Drill Core	3	6	0.47	59	0.079	1	0.95	0.100	0.21	0.5	<0.01	1.8	<0.1	0.43	4	<0.5	<0.2
16790	Drill Core	3	6	0.64	60	0.084	<1	1.05	0.089	0.45	3.7	<0.01	2.5	0.3	0.26	4	<0.5	0.2
16791	Drill Core	4	6	0.22	57	0.060	1	0.50	0.102	0.11	0.2	<0.01	1.4	<0.1	<0.05	3	<0.5	<0.2
16792	Drill Core	3	7	0.19	45	0.049	<1	0.41	0.083	0.09	0.2	<0.01	1.1	<0.1	<0.05	2	<0.5	<0.2
16793	Drill Core	3	6	0.22	49	0.052	1	0.50	0.092	0.09	0.2	<0.01	1.2	<0.1	<0.05	2	<0.5	<0.2
16794	Drill Core	3	6	0.36	50	0.066	<1	0.66	0.080	0.19	0.2	<0.01	1.5	<0.1	0.14	3	<0.5	<0.2
16795	Drill Core	3	6	0.23	52	0.055	<1	0.49	0.101	0.09	0.6	<0.01	1.2	<0.1	0.08	2	<0.5	<0.2
16796	Drill Core	3	7	0.36	42	0.064	<1	0.66	0.082	0.11	0.3	<0.01	1.7	<0.1	0.31	3	<0.5	0.8
16797	Drill Core	3	6	0.25	46	0.055	<1	0.53	0.090	0.07	1.1	<0.01	1.4	<0.1	<0.05	2	<0.5	<0.2
16798	Drill Core	3	6	0.17	41	0.051	<1	0.44	0.086	0.06	0.2	<0.01	1.0	<0.1	0.10	2	<0.5	0.2
16799	Drill Core	4	6	0.30	52	0.059	<1	0.56	0.091	0.10	0.6	<0.01	1.4	<0.1	0.07	3	<0.5	<0.2
16800	Rock Pulp	5	19	0.38	159	0.054	<1	0.79	0.086	0.19	0.6	0.66	1.2	<0.1	0.44	2	<0.5	1.7
16801	Drill Core	3	5	0.56	41	0.040	<1	1.04	0.075	0.13	5.8	<0.01	3.2	<0.1	0.89	4	0.6	0.4
16802	Drill Core	3	6	0.26	50	0.050	<1	0.59	0.091	0.07	0.1	<0.01	1.3	<0.1	0.06	3	<0.5	<0.2
16803	Drill Core	3	6	0.62	43	0.054	<1	1.09	0.102	0.14	0.9	<0.01	2.6	<0.1	0.47	5	<0.5	<0.2
16804	Drill Core	4	8	0.27	44	0.054	1	0.58	0.093	0.07	0.3	<0.01	1.6	<0.1	0.11	3	<0.5	<0.2
16805	Drill Core	4	6	0.31	32	0.031	<1	1.43	0.069	0.06	0.2	<0.01	2.1	<0.1	0.20	5	<0.5	<0.2
16806	Drill Core	4	7	0.27	65	0.058	<1	0.71	0.127	0.10	0.1	<0.01	2.7	<0.1	0.06	3	<0.5	<0.2
16807	Drill Core	3	7	0.21	47	0.047	<1	0.52	0.087	0.07	0.1	<0.01	1.6	<0.1	<0.05	3	<0.5	<0.2

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Project: Moffat
Report Date: January 06, 2012

QUALITY CONTROL REPORT VAN11006426.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
16752	Drill Core	8.15	0.8	28.5	3.8	13	<0.1	2.1	6.3	304	2.73	1.4	10.3	2.4	34	<0.1	0.4	0.2	71	0.88	0.074
REP 16752	QC		0.9	30.8	4.2	13	0.1	3.0	6.5	322	2.91	1.2	9.7	2.5	37	<0.1	0.5	0.2	76	0.93	0.077
16769	Drill Core	8.50	0.6	19.1	0.9	11	<0.1	2.9	5.5	285	2.61	0.8	0.8	1.5	53	<0.1	0.2	<0.1	72	1.10	0.078
REP 16769	QC		0.7	18.1	0.9	11	<0.1	2.6	5.8	289	2.68	0.6	1.3	1.5	53	<0.1	0.2	0.1	74	1.11	0.078
16799	Drill Core	6.65	0.6	43.8	1.0	10	<0.1	1.8	4.1	206	2.03	2.1	4.7	1.5	36	<0.1	<0.1	<0.1	57	0.69	0.077
REP 16799	QC		0.5	43.4	1.1	10	<0.1	1.7	4.3	208	2.09	2.4	3.4	1.5	37	<0.1	<0.1	<0.1	58	0.70	0.074
Core Reject Duplicates																					
16778	Drill Core	9.53	0.5	16.3	1.4	11	<0.1	2.0	5.9	308	2.78	0.9	20.0	1.7	52	<0.1	0.2	0.4	80	1.16	0.082
DUP 16778	QC		0.5	17.3	1.4	11	<0.1	2.3	5.6	313	2.82	1.0	11.8	1.8	51	<0.1	0.2	0.2	79	1.14	0.081
Reference Materials																					
STD DS8	Standard		13.4	106.0	126.4	307	1.6	37.4	7.4	620	2.53	25.6	96.5	7.4	78	2.0	5.6	5.9	44	0.75	0.078
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	0.02	<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	<0.01	0.9	10.8	4.6	47	<0.1	3.7	4.0	592	2.00	<0.5	<0.5	5.5	74	<0.1	0.7	0.3	41	0.47	0.073
G1	Prep Blank	<0.01	0.4	10.1	6.2	45	<0.1	2.9	3.8	563	2.08	<0.5	<0.5	4.8	70	<0.1	0.8	0.2	40	0.46	0.070

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Project: Moffat
Report Date: January 06, 2012

QUALITY CONTROL REPORT VAN11006426.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																		
16752	Drill Core	5	5	0.49	91	0.063	3	0.80	0.080	0.13	0.4	0.01	2.3	<0.1	0.08	4	0.6	<0.2
REP 16752	QC	6	6	0.52	93	0.067	3	0.84	0.084	0.13	0.6	0.02	2.6	<0.1	0.09	4	<0.5	<0.2
16769	Drill Core	4	5	0.50	52	0.101	2	0.92	0.097	0.17	0.5	<0.01	1.9	<0.1	0.21	4	<0.5	<0.2
REP 16769	QC	5	6	0.51	51	0.105	3	0.94	0.100	0.17	0.4	<0.01	1.9	<0.1	0.21	4	0.6	<0.2
16799	Drill Core	4	6	0.30	52	0.059	<1	0.56	0.091	0.10	0.6	<0.01	1.4	<0.1	0.07	3	<0.5	<0.2
REP 16799	QC	4	6	0.31	54	0.061	<1	0.58	0.094	0.10	0.7	<0.01	1.3	<0.1	0.07	3	<0.5	<0.2
Core Reject Duplicates																		
16778	Drill Core	5	4	0.42	51	0.106	2	0.99	0.096	0.10	0.4	<0.01	1.8	0.3	0.13	5	0.8	<0.2
DUP 16778	QC	5	6	0.41	52	0.102	1	0.99	0.098	0.10	0.4	<0.01	1.9	<0.1	0.13	5	<0.5	<0.2
Reference Materials																		
STD DS8	Standard	18	119	0.61	298	0.123	2	0.95	0.093	0.42	3.0	0.21	2.2	5.0	0.17	5	6.3	5.7
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	13	8	0.52	180	0.113	2	0.93	0.085	0.50	<0.1	<0.01	2.1	0.3	<0.05	5	<0.5	<0.2
G1	Prep Blank	13	8	0.50	167	0.103	1	0.90	0.084	0.47	<0.1	<0.01	2.1	0.3	<0.05	5	<0.5	<0.2

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Client: **Fjordland Exploration Inc.**
11th Floor, 1111 Melville Street
Vancouver BC V6E 3V6 Canada

Submitted By: John Peters
Receiving Lab: Canada-Smithers
Received: August 02, 2011
Report Date: September 17, 2011
Page: 1 of 10

CERTIFICATE OF ANALYSIS SMI11000217.1

CLIENT JOB INFORMATION

Project: Horsefly
Shipment ID:
P.O. Number
Number of Samples: 256

SAMPLE DISPOSAL

RTRN-PLP Return
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.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	241	Dry at 60C			SMI
SS80	241	Dry at 60C sieve 100g to -80 mesh			SMI
1DX2	241	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Fjordland Exploration Inc.
11th Floor, 1111 Melville Street
Vancouver BC V6E 3V6
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

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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Client: **Fjordland Exploration Inc.**
11th Floor, 1111 Melville Street
Vancouver BC V6E 3V6 Canada

Project: Horsefly
Report Date: September 17, 2011

CERTIFICATE OF ANALYSIS SMI11000217.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	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
M20000E	Soil	0.3	18.3	3.1	21	<0.1	9.0	5.0	156	1.74	1.2	3.2	1.4	25	<0.1	0.2	<0.1	59	0.30	0.029	6
M20100E	Soil	0.5	28.7	3.4	55	0.2	19.8	8.4	200	3.69	2.3	<0.5	2.1	20	<0.1	0.2	<0.1	124	0.27	0.253	5
M20200E	Soil	0.6	17.5	4.6	33	<0.1	14.5	7.6	255	2.34	1.2	<0.5	1.2	19	<0.1	0.3	<0.1	80	0.25	0.115	4
M20300E	Soil	0.6	27.6	4.1	43	0.1	22.1	10.9	607	2.80	1.4	<0.5	1.5	42	0.1	0.3	<0.1	84	0.48	0.053	6
M20400E	Soil	0.4	15.7	3.2	27	<0.1	11.8	5.8	195	2.18	1.1	0.9	1.2	24	<0.1	0.3	<0.1	81	0.32	0.024	5
M20500E	Soil	0.6	10.1	4.5	32	<0.1	7.7	4.9	177	1.46	0.6	0.6	0.8	12	<0.1	0.1	<0.1	47	0.17	0.086	3
M20600E	Soil	0.4	26.4	3.7	26	<0.1	17.0	8.5	240	2.64	2.0	<0.5	1.3	28	<0.1	0.3	<0.1	87	0.36	0.071	4
M20700E	Soil	1.4	44.1	4.7	42	0.1	18.6	8.7	179	3.13	2.5	<0.5	1.7	20	<0.1	0.3	<0.1	100	0.28	0.137	5
M20800E	Soil	0.4	19.7	3.5	30	<0.1	16.8	7.6	188	2.54	1.4	<0.5	1.3	29	<0.1	0.2	<0.1	88	0.35	0.098	3
M20900E	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.
M21000E	Soil	1.1	11.8	4.4	29	<0.1	11.9	6.9	242	2.50	0.7	3.7	1.2	17	<0.1	0.2	<0.1	80	0.24	0.110	3
M21100E	Soil	2.0	72.8	6.5	53	0.4	29.4	8.6	634	3.26	1.7	<0.5	3.4	50	<0.1	0.4	0.1	92	0.63	0.024	12
M21200E	Soil	0.7	44.2	4.1	23	0.2	17.6	5.9	430	2.61	2.0	9.7	2.5	36	<0.1	0.3	<0.1	78	0.38	0.025	8
M21300E	Soil	0.4	9.2	1.9	45	<0.1	16.0	6.9	116	2.71	0.6	<0.5	1.5	20	<0.1	0.1	<0.1	89	0.24	0.169	3
M21400E	Soil	0.6	12.0	4.9	49	0.1	20.9	8.4	294	3.98	0.9	1.0	1.7	24	<0.1	0.1	<0.1	130	0.23	0.247	3
M21500E	Soil	2.8	143.9	5.5	37	0.2	17.4	7.3	438	2.11	0.9	1.2	2.0	33	<0.1	0.2	<0.1	66	0.32	0.030	18
M21600E	Soil	0.5	17.1	3.0	26	<0.1	14.8	7.0	136	2.44	<0.5	0.7	1.3	21	<0.1	0.2	<0.1	75	0.23	0.101	3
M21700E	Soil	0.6	15.4	3.2	26	<0.1	13.8	6.4	178	2.11	0.8	<0.5	1.5	21	<0.1	0.2	<0.1	64	0.24	0.090	4
M21800E	Soil	1.7	25.9	3.5	24	<0.1	13.5	9.7	458	2.16	<0.5	<0.5	1.8	36	<0.1	0.2	<0.1	69	0.40	0.016	7
M21900E	Soil	0.8	33.4	3.4	22	<0.1	12.1	6.4	309	1.70	0.7	<0.5	2.0	35	<0.1	0.2	<0.1	47	0.49	0.045	7
M22000E	Soil	0.7	15.2	2.0	9	<0.1	5.2	2.0	77	0.91	<0.5	<0.5	0.8	25	<0.1	0.1	<0.1	26	0.26	0.010	3
M22100E	Soil	0.8	21.4	4.4	37	<0.1	13.6	6.1	108	2.25	1.3	<0.5	2.1	20	<0.1	0.2	<0.1	62	0.21	0.139	6
M22200E	Soil	0.9	10.3	4.4	55	<0.1	10.2	6.3	140	2.41	0.6	<0.5	1.5	18	<0.1	0.2	<0.1	68	0.21	0.186	4
M22300E	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.
M22400E	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.
M22500E	Soil	0.4	16.8	3.0	26	0.1	8.6	4.4	134	1.70	<0.5	<0.5	1.2	17	<0.1	<0.1	<0.1	54	0.20	0.092	3
M30000E	Soil	0.7	6.8	4.6	38	<0.1	7.8	4.0	94	2.12	<0.5	<0.5	1.0	19	0.1	0.1	<0.1	67	0.19	0.120	3
M30100E	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.
M30200E	Soil	0.5	16.5	3.4	29	<0.1	9.1	5.2	239	1.54	1.1	3.6	1.3	39	<0.1	0.2	<0.1	43	0.53	0.061	6
M30300E	Soil	0.3	15.3	3.7	29	<0.1	8.0	5.9	234	1.25	0.7	1.9	1.0	32	<0.1	0.2	<0.1	39	0.43	0.041	5

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Project: Horsefly
Report Date: September 17, 2011

CERTIFICATE OF ANALYSIS SMI11000217.1

		Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		MDL	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
M20000E	Soil		18	0.24	61	0.093	2	1.06	0.015	0.04	<0.1	0.02	1.6	<0.1	<0.05	4	<0.5	<0.2
M20100E	Soil		26	0.30	83	0.071	<1	1.84	0.010	0.04	0.4	0.04	1.9	<0.1	<0.05	5	<0.5	<0.2
M20200E	Soil		22	0.22	134	0.083	1	1.26	0.013	0.05	0.2	0.02	1.5	<0.1	<0.05	5	<0.5	<0.2
M20300E	Soil		29	0.45	153	0.105	1	2.16	0.020	0.07	0.3	0.03	3.0	<0.1	<0.05	6	<0.5	<0.2
M20400E	Soil		21	0.30	67	0.110	<1	1.00	0.014	0.04	<0.1	<0.01	1.6	<0.1	<0.05	3	<0.5	<0.2
M20500E	Soil		14	0.13	141	0.062	<1	0.76	0.011	0.05	<0.1	0.02	1.1	<0.1	<0.05	4	<0.5	<0.2
M20600E	Soil		28	0.38	146	0.101	<1	1.87	0.014	0.08	0.2	0.02	1.9	<0.1	<0.05	5	<0.5	<0.2
M20700E	Soil		25	0.28	116	0.104	1	2.19	0.016	0.06	0.2	0.03	2.4	<0.1	<0.05	6	<0.5	<0.2
M20800E	Soil		24	0.29	95	0.105	<1	1.46	0.020	0.06	0.1	0.02	1.8	<0.1	<0.05	5	<0.5	<0.2
M20900E	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.
M21000E	Soil		19	0.22	82	0.083	<1	1.19	0.013	0.06	0.1	0.02	1.3	<0.1	<0.05	5	<0.5	<0.2
M21100E	Soil		43	0.45	197	0.125	<1	2.58	0.023	0.10	0.1	0.03	4.5	<0.1	<0.05	7	<0.5	<0.2
M21200E	Soil		34	0.31	136	0.091	<1	1.64	0.017	0.08	0.1	0.02	4.2	<0.1	<0.05	4	<0.5	<0.2
M21300E	Soil		24	0.16	124	0.050	<1	0.88	0.009	0.03	0.1	<0.01	1.5	<0.1	<0.05	3	<0.5	<0.2
M21400E	Soil		34	0.21	136	0.067	1	1.64	0.010	0.04	0.1	0.04	1.4	<0.1	<0.05	6	<0.5	<0.2
M21500E	Soil		23	0.31	178	0.087	<1	2.10	0.017	0.05	0.3	0.02	2.5	<0.1	<0.05	6	<0.5	<0.2
M21600E	Soil		22	0.21	147	0.071	<1	1.51	0.014	0.05	0.1	0.02	1.5	<0.1	<0.05	5	<0.5	<0.2
M21700E	Soil		24	0.22	109	0.076	<1	1.38	0.013	0.05	0.1	0.02	1.5	<0.1	<0.05	4	<0.5	<0.2
M21800E	Soil		25	0.34	112	0.115	<1	1.14	0.026	0.06	0.2	0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
M21900E	Soil		20	0.33	111	0.104	<1	1.02	0.025	0.07	0.2	0.01	2.8	<0.1	<0.05	3	<0.5	<0.2
M22000E	Soil		14	0.16	56	0.057	<1	0.53	0.013	0.03	<0.1	<0.01	1.2	<0.1	<0.05	2	<0.5	<0.2
M22100E	Soil		26	0.16	66	0.081	<1	2.00	0.012	0.03	0.1	0.03	2.8	<0.1	<0.05	5	<0.5	<0.2
M22200E	Soil		20	0.20	74	0.081	<1	1.67	0.015	0.05	0.2	0.03	1.9	<0.1	<0.05	5	0.6	<0.2
M22300E	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.
M22400E	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.
M22500E	Soil		16	0.15	66	0.070	<1	0.96	0.013	0.03	0.1	0.01	1.3	<0.1	<0.05	4	<0.5	<0.2
M30000E	Soil		16	0.14	129	0.073	<1	0.92	0.010	0.04	0.1	<0.01	1.3	<0.1	<0.05	5	<0.5	<0.2
M30100E	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.
M30200E	Soil		20	0.39	93	0.104	4	1.08	0.023	0.07	0.1	0.02	2.1	<0.1	<0.05	4	<0.5	<0.2
M30300E	Soil		16	0.33	83	0.103	3	1.00	0.019	0.06	0.1	0.02	1.7	<0.1	<0.05	4	<0.5	<0.2

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Project: Horsefly
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CERTIFICATE OF ANALYSIS SMI11000217.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	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
M30400E	Soil	4.4	170.8	7.7	79	0.8	47.3	26.5	1803	5.89	5.3	4.0	3.6	97	0.2	0.3	0.2	150	1.08	0.085	15
M30500E	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.
M30600E	Soil	1.1	42.6	3.7	37	0.2	22.9	11.7	385	4.41	3.5	9.0	2.3	50	<0.1	0.3	<0.1	132	0.52	0.120	8
M30700E	Soil	1.1	16.3	3.0	20	<0.1	10.2	7.1	277	1.98	1.3	2.4	1.6	32	<0.1	0.2	<0.1	66	0.42	0.017	5
M30800E	Soil	0.5	11.7	2.9	30	<0.1	15.9	9.2	174	3.17	1.4	4.1	1.5	22	<0.1	0.1	<0.1	97	0.26	0.129	4
M30900E	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.
M31000E	Soil	0.7	18.8	5.2	62	0.1	25.8	9.8	484	3.55	1.8	2.0	1.7	39	<0.1	0.2	0.1	102	0.36	0.183	5
M31100E	Soil	1.8	23.4	3.0	21	<0.1	16.0	6.1	158	3.24	1.7	3.9	1.7	24	<0.1	0.2	<0.1	118	0.29	0.029	6
M31200E	Soil	1.0	20.9	6.7	52	0.1	24.6	9.1	242	4.00	3.2	13.1	2.1	28	<0.1	0.2	0.1	113	0.27	0.332	4
M31300E	Soil	0.6	28.2	5.9	38	<0.1	17.4	8.9	245	2.42	1.3	5.3	1.2	25	<0.1	0.2	<0.1	80	0.31	0.031	5
M31400E	Soil	0.7	10.4	11.3	98	0.3	7.8	5.6	236	1.97	2.4	1.1	2.0	19	0.1	0.1	0.2	44	0.18	0.375	4
M31500E	Soil	0.4	12.9	2.7	31	<0.1	19.2	6.6	142	2.53	2.2	3.1	1.4	23	<0.1	0.2	<0.1	87	0.31	0.144	4
M31600E	Soil	0.5	17.1	3.0	26	<0.1	12.7	6.4	277	2.28	1.3	2.5	1.0	34	<0.1	0.2	<0.1	82	0.42	0.055	4
M31700E	Soil	0.4	23.3	2.5	23	<0.1	16.4	6.8	188	2.58	2.3	6.3	1.3	24	<0.1	0.2	<0.1	93	0.33	0.046	5
M31800E	Soil	0.6	17.1	2.8	26	<0.1	13.8	5.3	163	2.33	1.1	3.2	1.1	24	<0.1	0.2	<0.1	76	0.29	0.049	5
M31900E	Soil	1.5	14.4	4.1	29	0.1	12.2	5.1	112	2.22	1.8	2.1	0.9	23	<0.1	0.2	<0.1	70	0.28	0.093	4
M32000E	Soil	2.3	15.3	2.6	19	<0.1	12.2	4.6	140	1.69	1.0	2.3	1.0	25	<0.1	0.2	<0.1	55	0.31	0.032	6
M32100E	Soil	1.7	57.9	5.5	57	0.1	17.5	9.9	215	3.85	4.6	5.3	1.6	32	<0.1	0.3	0.2	107	0.46	0.252	5
M32200E	Soil	0.3	30.4	4.0	28	<0.1	19.6	8.0	241	2.31	3.6	4.9	2.1	29	<0.1	0.4	<0.1	78	0.41	0.068	7
M32300E	Soil	0.5	24.8	6.2	43	<0.1	17.0	8.5	194	2.06	1.5	2.5	1.7	29	<0.1	0.2	0.1	63	0.33	0.039	7
M32400E	Soil	0.4	24.6	2.9	30	<0.1	20.2	8.2	203	2.70	2.4	4.0	1.4	28	<0.1	0.2	<0.1	89	0.37	0.066	5
M32500E	Soil	0.8	21.7	4.3	21	<0.1	10.2	5.5	162	1.87	0.9	0.5	1.3	27	<0.1	0.1	<0.1	68	0.35	0.021	6
M40000E	Soil	0.4	20.8	5.8	21	<0.1	10.6	4.8	133	1.59	1.9	1.7	1.2	23	<0.1	0.2	<0.1	55	0.31	0.053	5
M40100E	Soil	0.6	22.2	4.8	29	<0.1	13.7	7.9	278	1.67	1.3	4.1	1.3	28	<0.1	0.3	<0.1	51	0.36	0.047	6
M40200E	Soil	3.9	53.6	5.0	51	<0.1	20.1	12.3	577	2.69	2.7	2.9	2.1	43	<0.1	0.3	<0.1	94	0.57	0.056	10
M40300E	Soil	1.0	24.3	3.9	29	<0.1	15.3	8.3	308	1.66	1.5	1.7	1.4	30	<0.1	0.2	<0.1	52	0.41	0.062	7
M40400E	Soil	0.5	15.4	4.7	27	<0.1	10.3	6.1	179	1.75	1.4	2.8	1.1	22	<0.1	0.2	<0.1	59	0.29	0.039	4
M40500E	Soil	0.5	18.4	4.7	25	<0.1	14.9	6.9	183	2.23	2.0	1.0	1.3	25	<0.1	0.2	<0.1	72	0.29	0.048	6
M40600E	Soil	0.4	8.2	4.7	24	<0.1	15.8	5.5	116	2.17	1.6	1.4	1.3	16	<0.1	0.1	<0.1	61	0.20	0.089	4
M40700E	Soil	0.3	11.3	3.8	23	<0.1	10.8	5.3	160	1.50	1.0	1.9	1.0	29	<0.1	0.2	<0.1	50	0.32	0.029	6

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	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	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
M30400E	Soil	56	0.90	414	0.163	4	3.85	0.027	0.21	<0.1	0.03	9.0	<0.1	<0.05	11	<0.5	<0.2
M30500E	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.
M30600E	Soil	38	0.42	168	0.087	4	1.78	0.015	0.13	0.2	0.02	2.7	<0.1	<0.05	5	<0.5	<0.2
M30700E	Soil	23	0.31	84	0.112	3	0.86	0.022	0.06	<0.1	0.01	2.2	<0.1	<0.05	3	<0.5	<0.2
M30800E	Soil	30	0.23	113	0.070	2	1.19	0.010	0.05	0.1	0.01	1.3	<0.1	<0.05	4	<0.5	<0.2
M30900E	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.
M31000E	Soil	39	0.34	184	0.096	2	2.13	0.015	0.06	0.2	0.05	1.8	<0.1	<0.05	8	<0.5	<0.2
M31100E	Soil	30	0.27	83	0.074	1	1.05	0.012	0.03	0.2	0.02	1.5	<0.1	<0.05	4	<0.5	<0.2
M31200E	Soil	39	0.31	149	0.080	1	2.79	0.014	0.05	0.3	0.06	2.0	<0.1	<0.05	9	<0.5	<0.2
M31300E	Soil	24	0.31	110	0.102	2	1.84	0.017	0.06	0.1	0.02	1.8	<0.1	<0.05	5	<0.5	<0.2
M31400E	Soil	16	0.17	265	0.092	3	1.40	0.013	0.06	0.1	0.04	1.5	<0.1	<0.05	7	<0.5	<0.2
M31500E	Soil	23	0.24	95	0.073	2	1.26	0.012	0.04	0.1	0.02	1.7	<0.1	<0.05	4	<0.5	<0.2
M31600E	Soil	22	0.28	91	0.104	2	0.96	0.016	0.05	<0.1	0.02	1.5	<0.1	<0.05	3	<0.5	<0.2
M31700E	Soil	25	0.33	99	0.105	2	1.14	0.016	0.05	<0.1	0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
M31800E	Soil	22	0.24	92	0.078	2	1.05	0.013	0.04	0.1	0.01	1.3	<0.1	<0.05	4	<0.5	<0.2
M31900E	Soil	25	0.22	103	0.085	2	1.43	0.014	0.04	<0.1	0.02	1.6	<0.1	<0.05	5	<0.5	<0.2
M32000E	Soil	19	0.26	68	0.086	2	1.21	0.014	0.03	0.1	0.02	1.3	<0.1	<0.05	4	<0.5	<0.2
M32100E	Soil	28	0.47	86	0.133	2	3.06	0.014	0.06	0.2	0.07	2.5	<0.1	<0.05	9	<0.5	<0.2
M32200E	Soil	29	0.44	154	0.127	2	1.91	0.018	0.07	0.1	0.02	2.6	<0.1	<0.05	5	<0.5	<0.2
M32300E	Soil	26	0.43	131	0.130	1	2.33	0.018	0.04	<0.1	0.03	2.6	<0.1	<0.05	7	<0.5	<0.2
M32400E	Soil	27	0.40	121	0.115	2	1.72	0.017	0.05	0.1	0.02	1.9	<0.1	<0.05	5	<0.5	<0.2
M32500E	Soil	20	0.30	99	0.109	2	1.30	0.016	0.03	<0.1	0.01	1.7	<0.1	<0.05	5	<0.5	<0.2
M40000E	Soil	21	0.29	89	0.114	3	1.80	0.014	0.04	<0.1	0.02	1.9	<0.1	<0.05	6	<0.5	<0.2
M40100E	Soil	22	0.40	103	0.105	2	1.72	0.015	0.04	<0.1	0.03	2.1	<0.1	<0.05	5	<0.5	<0.2
M40200E	Soil	31	0.54	182	0.147	3	2.22	0.024	0.06	0.1	0.03	3.6	<0.1	<0.05	6	<0.5	<0.2
M40300E	Soil	21	0.39	120	0.117	2	1.77	0.016	0.05	<0.1	0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
M40400E	Soil	19	0.28	69	0.107	<1	1.37	0.014	0.04	<0.1	0.02	1.6	<0.1	<0.05	5	<0.5	<0.2
M40500E	Soil	22	0.32	108	0.100	1	1.70	0.014	0.04	0.1	0.01	1.9	<0.1	<0.05	5	<0.5	<0.2
M40600E	Soil	23	0.20	83	0.077	<1	1.80	0.010	0.03	0.1	0.04	1.6	<0.1	<0.05	6	<0.5	<0.2
M40700E	Soil	18	0.30	84	0.097	<1	1.27	0.013	0.03	<0.1	<0.01	1.5	<0.1	<0.05	4	<0.5	<0.2

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11th Floor, 1111 Melville Street
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Project: Horsefly
Report Date: September 17, 2011

CERTIFICATE OF ANALYSIS SMI11000217.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	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
M40800E	Soil	0.8	19.6	4.7	31	<0.1	16.8	7.3	279	2.50	2.3	2.3	1.8	15	<0.1	0.2	<0.1	79	0.18	0.068	5
M40900E	Soil	0.6	10.4	5.3	27	<0.1	10.8	4.8	362	1.91	1.4	1.1	0.9	26	<0.1	0.1	<0.1	59	0.29	0.168	3
M41000E	Soil	1.2	11.2	3.8	23	<0.1	13.6	6.1	247	2.19	1.5	4.6	1.1	23	<0.1	0.2	<0.1	74	0.28	0.073	4
M41100E	Soil	5.0	102.4	5.1	34	0.2	26.3	13.7	699	2.94	2.1	2.9	3.1	42	<0.1	0.2	<0.1	80	0.53	0.040	15
M41200E	Soil	0.8	10.6	3.3	20	<0.1	9.2	5.7	219	2.09	1.9	1.7	1.0	29	<0.1	0.2	<0.1	74	0.40	0.065	5
M41300E	Soil	0.4	15.0	3.2	24	<0.1	14.6	7.2	170	2.36	1.9	41.0	1.2	20	<0.1	0.2	<0.1	83	0.30	0.077	4
M41400E	Soil	0.3	10.2	3.8	24	<0.1	8.4	4.4	135	1.42	1.2	0.6	1.1	18	<0.1	0.1	0.2	51	0.22	0.032	4
M41500E	Soil	0.7	15.9	3.6	29	<0.1	16.3	6.7	154	2.82	2.0	<0.5	1.4	16	<0.1	0.1	0.1	83	0.17	0.195	3
M41600E	Soil	0.6	20.9	2.2	20	<0.1	20.4	7.4	212	3.78	2.2	47.4	1.9	18	<0.1	0.2	<0.1	125	0.21	0.132	4
M41700E	Soil	0.5	12.7	3.6	55	<0.1	22.9	8.3	235	3.06	1.5	2.1	1.5	33	<0.1	0.1	0.1	93	0.27	0.133	4
M41800E	Soil	1.3	81.5	7.2	31	0.1	21.3	6.0	217	1.94	3.0	1.7	2.9	43	<0.1	0.3	0.1	51	0.42	0.022	32
M41900E	Soil	0.6	6.6	3.6	24	<0.1	8.2	4.2	151	2.39	1.0	33.3	1.1	14	<0.1	0.1	<0.1	73	0.13	0.167	2
M42000E	Soil	0.3	10.7	2.5	18	<0.1	7.4	4.1	192	1.14	1.2	2.0	0.9	19	<0.1	0.2	<0.1	42	0.26	0.023	4
M42100E	Soil	0.3	11.8	2.9	22	<0.1	8.2	3.3	125	1.12	1.3	9.6	1.1	21	<0.1	0.2	<0.1	40	0.27	0.031	4
M42200E	Soil	0.2	13.7	3.3	20	<0.1	7.7	4.2	148	1.09	1.3	1.5	1.2	24	<0.1	0.2	<0.1	36	0.35	0.051	6
M42300E	Soil	0.9	44.4	7.0	33	0.2	23.7	9.6	318	3.83	4.5	10.0	2.7	44	<0.1	0.2	0.1	117	0.44	0.031	10
M42400E	Soil	0.6	30.4	4.5	50	<0.1	21.9	8.1	256	2.27	2.1	1.6	1.1	23	<0.1	0.2	0.1	68	0.29	0.062	5
M42500E	Soil	0.8	41.3	5.4	42	<0.1	22.8	13.3	400	3.14	3.4	0.9	1.6	35	<0.1	0.2	<0.1	95	0.39	0.071	8
M50000E	Soil	0.6	14.2	4.1	26	<0.1	10.3	6.0	212	1.39	1.8	3.0	1.2	23	<0.1	0.2	<0.1	49	0.30	0.051	6
M50100E	Soil	0.5	8.6	3.7	33	<0.1	15.0	6.4	143	2.89	1.9	<0.5	1.6	16	<0.1	0.1	<0.1	87	0.16	0.185	3
M50200E	Soil	0.5	6.7	4.3	40	0.2	7.7	5.2	543	2.00	1.4	0.6	0.9	19	<0.1	0.1	<0.1	58	0.16	0.212	3
M50300E	Soil	0.3	7.9	2.2	9	<0.1	5.0	1.6	53	0.75	<0.5	0.8	0.4	23	<0.1	<0.1	<0.1	25	0.32	0.010	2
M50400E	Soil	0.6	56.1	2.5	36	<0.1	13.1	8.8	272	3.03	1.1	0.9	0.9	25	<0.1	0.1	<0.1	107	0.36	0.019	6
M50500E	Soil	0.5	8.0	3.6	41	<0.1	14.0	6.1	143	3.21	2.0	0.9	1.4	27	<0.1	0.1	<0.1	96	0.28	0.234	3
M50600E	Soil	0.6	27.2	3.9	58	<0.1	26.9	8.8	150	2.84	1.9	<0.5	2.0	20	<0.1	0.1	<0.1	71	0.21	0.181	4
M50700E	Soil	0.3	13.9	3.3	18	<0.1	8.6	4.4	176	1.30	1.6	5.0	1.3	24	<0.1	0.2	<0.1	45	0.30	0.041	5
M50800E	Soil	0.4	13.4	2.4	29	<0.1	10.5	4.4	139	1.78	1.0	<0.5	0.8	19	<0.1	0.1	<0.1	59	0.21	0.022	4
M50900E	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.
M51000E	Soil	1.0	16.8	4.9	51	<0.1	14.5	7.6	656	2.58	1.7	32.5	1.6	25	<0.1	<0.1	<0.1	69	0.27	0.307	4
M51100E	Soil	0.6	27.1	3.8	34	<0.1	16.9	7.5	251	2.57	2.0	8.3	2.2	39	<0.1	0.2	<0.1	78	0.32	0.180	7

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	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	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
M40800E	Soil	27	0.27	93	0.110	2	2.12	0.012	0.03	0.5	0.03	1.8	<0.1	<0.05	6	<0.5	<0.2
M40900E	Soil	18	0.16	158	0.070	2	1.19	0.012	0.06	0.3	0.03	1.1	<0.1	<0.05	5	<0.5	<0.2
M41000E	Soil	23	0.22	86	0.085	2	1.21	0.012	0.04	0.2	0.02	1.3	<0.1	<0.05	4	<0.5	<0.2
M41100E	Soil	43	0.50	186	0.119	1	2.31	0.018	0.10	1.0	0.02	5.7	<0.1	<0.05	7	<0.5	<0.2
M41200E	Soil	23	0.28	92	0.103	2	0.75	0.015	0.06	0.1	0.02	1.5	<0.1	<0.05	3	<0.5	<0.2
M41300E	Soil	24	0.29	91	0.099	2	1.21	0.013	0.05	0.1	0.03	1.6	<0.1	<0.05	4	<0.5	<0.2
M41400E	Soil	18	0.19	63	0.079	2	0.91	0.010	0.03	0.1	0.01	1.2	<0.1	<0.05	4	<0.5	<0.2
M41500E	Soil	26	0.21	87	0.063	2	1.75	0.009	0.03	0.4	0.04	1.5	<0.1	<0.05	6	0.6	<0.2
M41600E	Soil	29	0.23	84	0.048	2	1.42	0.008	0.02	0.2	0.03	1.3	<0.1	<0.05	4	<0.5	<0.2
M41700E	Soil	32	0.26	127	0.068	2	1.58	0.009	0.06	0.2	0.02	1.2	<0.1	<0.05	5	0.7	<0.2
M41800E	Soil	37	0.30	166	0.086	<1	1.89	0.016	0.05	0.2	0.08	6.4	<0.1	<0.05	5	0.8	<0.2
M41900E	Soil	25	0.12	73	0.057	<1	0.94	0.008	0.03	<0.1	0.01	1.2	<0.1	<0.05	5	0.5	<0.2
M42000E	Soil	17	0.23	60	0.080	<1	0.76	0.011	0.03	<0.1	0.02	1.2	<0.1	<0.05	3	0.6	<0.2
M42100E	Soil	17	0.26	66	0.098	1	0.88	0.014	0.03	<0.1	<0.01	1.3	<0.1	<0.05	3	<0.5	<0.2
M42200E	Soil	17	0.30	79	0.097	1	0.91	0.014	0.04	0.1	0.01	1.6	<0.1	<0.05	3	0.5	<0.2
M42300E	Soil	43	0.45	184	0.124	<1	2.43	0.016	0.11	0.1	0.03	3.9	<0.1	<0.05	7	<0.5	<0.2
M42400E	Soil	27	0.39	119	0.101	1	2.17	0.013	0.06	0.1	0.02	1.9	<0.1	<0.05	6	0.5	<0.2
M42500E	Soil	34	0.52	144	0.107	2	2.69	0.020	0.07	0.1	0.02	2.9	<0.1	<0.05	7	0.5	<0.2
M50000E	Soil	22	0.29	71	0.092	<1	1.02	0.013	0.04	0.1	0.03	1.7	<0.1	<0.05	3	<0.5	<0.2
M50100E	Soil	26	0.17	105	0.061	1	1.70	0.008	0.03	0.2	0.03	1.7	<0.1	<0.05	5	<0.5	<0.2
M50200E	Soil	22	0.10	112	0.052	<1	1.04	0.009	0.03	0.1	0.02	1.1	<0.1	<0.05	5	0.6	<0.2
M50300E	Soil	12	0.07	68	0.041	<1	0.47	0.010	0.03	<0.1	0.01	0.7	<0.1	<0.05	2	<0.5	<0.2
M50400E	Soil	26	0.50	69	0.099	<1	1.09	0.022	0.07	0.1	0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
M50500E	Soil	28	0.19	87	0.064	<1	1.62	0.010	0.05	0.5	0.02	1.6	<0.1	<0.05	5	<0.5	<0.2
M50600E	Soil	29	0.22	133	0.074	<1	2.23	0.010	0.05	0.1	0.03	2.1	<0.1	<0.05	6	<0.5	<0.2
M50700E	Soil	18	0.27	77	0.099	1	1.08	0.013	0.04	0.1	0.01	1.6	<0.1	<0.05	3	<0.5	<0.2
M50800E	Soil	21	0.19	56	0.067	<1	0.84	0.010	0.03	0.1	<0.01	1.1	<0.1	<0.05	3	0.5	<0.2
M50900E	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.
M51000E	Soil	22	0.22	184	0.075	1	1.58	0.009	0.05	0.2	0.03	1.3	<0.1	<0.05	5	<0.5	<0.2
M51100E	Soil	27	0.33	146	0.080	1	1.50	0.013	0.07	0.3	0.02	1.8	<0.1	<0.05	5	<0.5	<0.2

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	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	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
M51200E	Soil	0.6	17.5	3.4	23	<0.1	13.5	6.1	248	1.95	1.9	1.0	1.8	34	<0.1	0.2	<0.1	61	0.36	0.072	8
M51300E	Soil	0.5	8.7	3.8	29	0.1	9.8	4.8	151	2.30	1.1	<0.5	0.8	27	<0.1	0.2	<0.1	73	0.24	0.131	3
M51400E	Soil	0.9	17.7	5.4	42	0.2	11.5	7.9	184	3.50	2.3	0.7	1.4	31	<0.1	0.2	<0.1	112	0.36	0.196	4
M51500E	Soil	0.8	55.3	3.8	40	<0.1	32.0	10.5	262	3.64	2.8	3.2	3.1	52	<0.1	0.3	<0.1	116	0.41	0.041	10
M51600E	Soil	0.5	4.4	4.4	21	<0.1	6.4	3.3	101	2.60	1.0	7.2	0.9	18	<0.1	0.1	<0.1	90	0.19	0.121	3
M51700E	Soil	0.7	45.0	4.3	28	<0.1	19.7	8.9	207	2.56	3.6	4.1	2.1	28	<0.1	0.3	<0.1	81	0.31	0.058	6
M51800E	Soil	5.2	41.1	6.9	48	<0.1	11.3	5.3	162	3.62	5.6	4.4	2.7	37	<0.1	0.5	<0.1	81	0.13	0.244	5
M51900E	Soil	1.6	34.6	3.8	23	<0.1	9.5	5.6	234	1.49	2.5	2.8	1.4	29	<0.1	0.3	<0.1	51	0.46	0.056	6
M52000E	Soil	4.4	87.4	3.2	16	<0.1	7.7	4.7	164	1.40	1.8	2.9	1.3	26	<0.1	0.3	<0.1	54	0.31	0.009	5
M52100E	Soil	1.5	21.3	4.8	35	0.3	14.1	7.5	153	2.66	2.7	5.4	1.4	18	<0.1	0.2	<0.1	77	0.22	0.101	4
M52200E	Soil	1.4	13.0	4.5	31	0.2	11.2	5.3	201	2.29	2.8	3.0	1.5	18	<0.1	0.2	<0.1	67	0.23	0.137	4
M52300E	Soil	1.2	25.9	7.4	37	<0.1	17.0	9.0	201	3.00	4.0	1.7	1.8	18	<0.1	0.4	<0.1	92	0.23	0.084	4
M52400E	Soil	1.3	35.5	4.8	30	<0.1	17.7	8.7	221	2.65	3.9	1.4	1.9	19	<0.1	0.3	<0.1	81	0.26	0.098	4
M52500E	Soil	1.9	21.9	4.6	46	<0.1	24.5	8.8	224	2.83	2.9	1.7	1.4	17	<0.1	0.2	<0.1	89	0.25	0.069	5
M60000E	Soil	0.6	25.0	4.9	28	<0.1	15.5	6.4	211	2.25	3.1	2.4	1.4	21	<0.1	0.3	<0.1	79	0.34	0.054	6
M60100E	Soil	0.4	24.3	3.8	30	<0.1	15.5	7.0	296	2.21	3.3	1.5	1.4	21	<0.1	0.3	<0.1	76	0.37	0.054	5
M60200E	Soil	1.1	20.9	4.1	34	<0.1	23.0	9.2	215	2.71	2.8	1.6	1.7	20	<0.1	0.2	<0.1	89	0.32	0.060	5
M60300E	Soil	1.7	31.2	5.5	36	<0.1	14.6	9.1	719	2.31	1.7	2.1	1.3	29	<0.1	0.3	<0.1	84	0.39	0.029	8
M60400E	Soil	2.4	81.5	6.1	46	0.1	30.7	16.6	1169	3.41	2.8	1.4	2.0	83	<0.1	0.3	<0.1	109	0.86	0.059	19
M60500E	Soil	0.7	25.0	3.8	38	<0.1	15.4	6.2	257	2.07	1.9	1.9	1.4	27	<0.1	0.2	<0.1	68	0.38	0.029	6
M60600E	Soil	1.4	35.3	3.6	44	0.1	21.2	8.5	252	2.54	2.1	3.7	1.5	39	0.1	0.2	<0.1	90	0.51	0.081	13
M60700E	Soil	0.5	23.3	4.3	36	<0.1	20.0	12.3	454	2.33	2.1	1.0	1.5	23	<0.1	0.2	<0.1	76	0.33	0.056	8
M60800E	Soil	0.3	14.6	3.6	25	<0.1	12.2	5.4	235	1.74	1.8	2.8	1.2	23	<0.1	0.2	<0.1	65	0.39	0.049	6
M60900E	Soil	0.3	10.6	3.3	20	<0.1	11.7	4.6	169	1.50	1.3	1.8	1.1	23	<0.1	0.2	<0.1	49	0.33	0.030	6
M61000E	Soil	0.5	10.3	2.7	19	<0.1	12.2	5.0	167	1.72	1.1	2.0	1.2	23	<0.1	0.2	<0.1	64	0.32	0.033	6
M61100E	Soil	0.3	8.3	2.9	20	<0.1	11.2	4.7	162	1.63	1.0	0.6	1.1	22	<0.1	0.1	<0.1	53	0.32	0.043	5
M61200E	Soil	0.4	17.4	3.3	36	<0.1	16.3	6.5	225	1.84	1.0	1.3	1.1	23	<0.1	0.1	<0.1	51	0.28	0.029	6
M61300E	Soil	0.4	13.2	3.0	24	<0.1	17.8	6.3	185	2.31	1.7	0.7	1.2	19	<0.1	0.2	<0.1	76	0.29	0.050	4
M61400E	Soil	0.5	20.1	4.1	44	<0.1	23.0	8.6	227	2.65	1.5	<0.5	1.3	45	<0.1	0.2	<0.1	85	0.43	0.048	9
M61500E	Soil	0.7	11.6	5.5	56	<0.1	21.5	8.0	314	4.22	2.9	2.8	1.5	43	0.1	0.2	<0.1	136	0.46	0.371	5

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11th Floor, 1111 Melville Street
Vancouver BC V6E 3V6 Canada

Project: Horsefly
Report Date: September 17, 2011

CERTIFICATE OF ANALYSIS SMI11000217.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	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
M51200E	Soil	25	0.30	107	0.091	<1	1.09	0.014	0.05	0.1	0.02	2.0	<0.1	<0.05	3	<0.5	<0.2
M51300E	Soil	23	0.15	88	0.064	1	1.12	0.008	0.05	0.1	0.03	1.1	<0.1	<0.05	4	<0.5	<0.2
M51400E	Soil	30	0.41	104	0.114	<1	1.58	0.013	0.07	0.3	0.02	1.8	<0.1	<0.05	8	<0.5	<0.2
M51500E	Soil	39	0.63	210	0.142	<1	1.98	0.018	0.06	0.3	0.01	2.6	<0.1	<0.05	6	<0.5	<0.2
M51600E	Soil	22	0.09	82	0.063	<1	0.84	0.009	0.03	0.2	0.03	1.0	<0.1	<0.05	5	<0.5	<0.2
M51700E	Soil	28	0.38	195	0.107	1	2.30	0.014	0.06	0.2	0.04	3.0	<0.1	<0.05	5	0.6	<0.2
M51800E	Soil	24	0.30	136	0.088	1	3.54	0.008	0.05	3.2	0.09	3.0	<0.1	<0.05	10	0.8	<0.2
M51900E	Soil	18	0.36	94	0.109	<1	1.05	0.020	0.05	0.1	0.02	2.0	<0.1	<0.05	3	<0.5	<0.2
M52000E	Soil	18	0.27	108	0.117	<1	0.85	0.016	0.03	0.3	0.02	1.8	<0.1	<0.05	3	<0.5	<0.2
M52100E	Soil	24	0.21	134	0.102	1	2.19	0.011	0.04	0.2	0.06	2.0	<0.1	<0.05	6	<0.5	<0.2
M52200E	Soil	22	0.20	67	0.092	<1	1.89	0.013	0.04	0.2	0.06	1.9	<0.1	<0.05	6	<0.5	<0.2
M52300E	Soil	29	0.34	104	0.132	1	2.80	0.014	0.05	0.2	0.03	2.4	<0.1	<0.05	7	<0.5	<0.2
M52400E	Soil	27	0.37	133	0.107	1	2.66	0.013	0.06	0.2	0.04	2.4	<0.1	<0.05	6	0.6	<0.2
M52500E	Soil	24	0.29	113	0.114	1	2.78	0.014	0.05	0.2	0.04	1.6	<0.1	<0.05	7	<0.5	<0.2
M60000E	Soil	23	0.33	90	0.112	1	1.75	0.016	0.05	0.2	0.02	1.7	<0.1	<0.05	5	<0.5	<0.2
M60100E	Soil	23	0.38	100	0.114	1	1.64	0.016	0.06	0.1	0.02	1.7	<0.1	<0.05	5	<0.5	<0.2
M60200E	Soil	29	0.34	108	0.123	1	2.64	0.016	0.05	0.1	0.04	2.1	<0.1	<0.05	6	<0.5	<0.2
M60300E	Soil	25	0.34	136	0.114	1	1.56	0.018	0.04	0.1	0.02	1.7	<0.1	<0.05	6	<0.5	<0.2
M60400E	Soil	38	0.64	249	0.117	1	3.13	0.023	0.08	0.1	0.05	3.9	<0.1	<0.05	9	<0.5	<0.2
M60500E	Soil	24	0.39	94	0.115	<1	1.81	0.017	0.04	<0.1	0.02	1.8	<0.1	<0.05	6	<0.5	<0.2
M60600E	Soil	28	0.39	131	0.102	1	1.90	0.017	0.05	0.1	0.03	2.6	<0.1	<0.05	5	<0.5	<0.2
M60700E	Soil	27	0.40	109	0.121	1	2.28	0.018	0.06	<0.1	0.03	2.1	<0.1	<0.05	7	<0.5	<0.2
M60800E	Soil	21	0.31	76	0.112	1	1.16	0.016	0.05	0.2	<0.01	1.5	<0.1	<0.05	4	<0.5	<0.2
M60900E	Soil	19	0.27	61	0.115	<1	1.10	0.015	0.03	0.1	<0.01	1.3	<0.1	<0.05	4	<0.5	<0.2
M61000E	Soil	21	0.28	73	0.111	1	1.10	0.017	0.03	0.1	<0.01	1.2	<0.1	<0.05	4	<0.5	<0.2
M61100E	Soil	20	0.25	57	0.098	<1	1.16	0.014	0.03	<0.1	<0.01	1.2	<0.1	<0.05	4	<0.5	<0.2
M61200E	Soil	20	0.34	83	0.105	<1	1.54	0.015	0.04	0.1	<0.01	1.5	<0.1	<0.05	5	<0.5	<0.2
M61300E	Soil	24	0.30	73	0.109	<1	1.55	0.014	0.04	0.1	0.02	1.3	<0.1	<0.05	5	<0.5	<0.2
M61400E	Soil	30	0.42	139	0.130	1	1.82	0.016	0.06	0.1	0.03	1.6	<0.1	<0.05	6	<0.5	<0.2
M61500E	Soil	31	0.24	143	0.069	1	2.07	0.012	0.07	0.3	0.05	1.4	<0.1	<0.05	7	<0.5	<0.2

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Project: Horsefly
Report Date: September 17, 2011

CERTIFICATE OF ANALYSIS SMI11000217.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	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
M61600E	Soil	0.6	19.1	5.2	44	<0.1	30.4	10.6	320	3.32	2.2	0.8	1.5	26	<0.1	0.2	<0.1	94	0.29	0.094	5
M61700E	Soil	0.5	11.2	6.0	65	0.1	16.5	6.0	377	2.73	1.4	0.7	1.6	20	0.1	0.1	0.1	74	0.22	0.281	5
M61800E	Soil	0.9	9.3	5.2	53	0.2	17.7	6.2	174	3.32	1.8	<0.5	1.4	21	<0.1	0.1	0.2	99	0.24	0.208	4
M61900E	Soil	0.7	9.6	3.9	42	0.1	16.7	6.6	195	4.64	1.6	1.3	1.9	21	<0.1	<0.1	<0.1	151	0.24	0.290	3
M62000E	Soil	0.4	19.7	4.8	25	<0.1	12.2	7.8	294	1.51	1.3	1.5	1.2	33	<0.1	0.2	<0.1	50	0.35	0.018	9
M62100E	Soil	0.6	7.9	5.8	65	0.1	13.0	5.6	228	2.88	2.5	<0.5	1.4	18	<0.1	0.3	<0.1	83	0.19	0.302	4
M62200E	Soil	0.5	9.8	3.4	29	<0.1	16.6	5.9	130	2.98	2.4	0.8	1.3	20	<0.1	0.1	<0.1	91	0.24	0.237	4
M62300E	Soil	1.3	19.0	5.0	60	0.2	30.9	9.9	221	4.68	2.4	<0.5	2.2	19	<0.1	0.1	<0.1	146	0.20	0.180	6
M62400E	Soil	1.1	11.1	4.3	54	0.2	17.0	6.9	182	3.75	2.4	<0.5	1.6	20	<0.1	0.1	<0.1	109	0.23	0.465	4
M62500E	Soil	0.6	4.8	7.0	26	<0.1	6.4	1.8	67	1.07	0.8	1.3	0.7	24	<0.1	<0.1	<0.1	36	0.25	0.043	4
M70000E	Soil	0.9	11.1	4.1	50	0.2	21.1	9.6	364	5.67	1.6	20.3	1.7	15	<0.1	0.1	<0.1	195	0.17	0.261	3
M70100E	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.
M70200E	Soil	0.8	17.4	3.8	81	0.2	75.9	12.9	245	3.55	1.5	<0.5	1.6	20	<0.1	<0.1	<0.1	108	0.19	0.220	6
M70300E	Soil	0.8	13.5	4.8	36	0.4	17.5	6.5	213	4.81	2.2	<0.5	1.9	22	<0.1	0.1	<0.1	159	0.26	0.428	4
M70400E	Soil	0.7	11.5	4.4	52	<0.1	17.1	6.0	198	3.78	2.2	<0.5	1.5	20	<0.1	0.1	<0.1	113	0.19	0.215	4
M70500E	Soil	0.7	6.4	6.4	46	0.1	8.2	3.6	101	2.16	1.5	<0.5	1.0	12	<0.1	<0.1	0.1	65	0.12	0.141	3
M70600E	Soil	2.0	32.1	6.7	59	0.2	37.1	13.4	865	3.52	3.0	0.8	2.0	52	<0.1	0.2	0.1	109	0.52	0.052	9
M70700E	Soil	1.0	16.9	6.3	106	0.1	23.4	9.1	182	4.22	2.0	<0.5	2.1	50	0.1	0.1	0.1	117	0.51	0.356	7
M70800E	Soil	1.7	16.2	4.0	26	<0.1	12.9	6.1	269	1.63	2.0	1.3	1.4	31	<0.1	0.2	<0.1	62	0.46	0.057	8
M70900E	Soil	2.7	53.4	4.3	29	0.2	21.0	6.8	353	1.98	1.8	1.4	1.6	53	<0.1	0.2	<0.1	61	0.63	0.040	13
M71000E	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.
M71100E	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.
M71200E	Soil	0.7	23.6	3.3	28	<0.1	18.0	6.8	169	2.07	2.0	3.4	1.4	22	<0.1	0.2	<0.1	66	0.26	0.058	5
M71300E	Soil	1.3	14.4	4.9	29	0.1	16.3	6.6	219	2.20	2.5	3.7	1.5	20	<0.1	0.2	<0.1	67	0.24	0.101	5
M71400E	Soil	1.3	34.4	4.8	43	<0.1	32.1	11.6	202	2.93	4.5	2.7	1.9	28	<0.1	0.3	<0.1	76	0.29	0.091	5
M71500E	Soil	1.7	25.1	4.8	28	<0.1	17.8	8.8	209	2.33	3.5	23.0	1.9	22	<0.1	0.3	<0.1	71	0.22	0.074	5
M71600E	Soil	0.6	14.2	3.6	29	<0.1	12.6	6.4	163	1.88	1.9	8.0	1.3	20	<0.1	0.2	<0.1	60	0.26	0.062	4
M71700E	Soil	0.9	12.4	6.0	44	<0.1	13.9	6.5	152	2.38	2.0	1.3	1.5	17	<0.1	0.2	<0.1	59	0.20	0.211	4
M71800E	Soil	0.7	15.2	5.1	27	0.1	13.6	5.9	174	2.28	2.7	1.4	1.2	17	<0.1	0.2	<0.1	65	0.20	0.133	4
M71900E	Soil	1.1	18.8	4.3	28	<0.1	18.6	8.4	157	2.59	3.2	0.8	2.0	18	<0.1	0.2	<0.1	69	0.21	0.123	4

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	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	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
M61600E	Soil	32	0.33	154	0.106	<1	2.40	0.015	0.06	0.1	0.02	1.6	<0.1	<0.05	8	<0.5	<0.2
M61700E	Soil	28	0.18	157	0.076	<1	1.62	0.011	0.05	0.1	0.04	1.2	<0.1	<0.05	7	<0.5	<0.2
M61800E	Soil	31	0.22	91	0.091	<1	2.06	0.012	0.05	0.2	0.04	1.3	<0.1	<0.05	8	<0.5	<0.2
M61900E	Soil	34	0.19	68	0.056	<1	1.84	0.011	0.05	0.3	0.03	1.2	<0.1	<0.05	7	<0.5	<0.2
M62000E	Soil	22	0.33	112	0.114	<1	1.32	0.016	0.05	0.1	0.01	1.6	<0.1	<0.05	4	<0.5	<0.2
M62100E	Soil	27	0.15	125	0.056	<1	1.86	0.011	0.04	0.1	0.02	1.2	<0.1	<0.05	6	<0.5	<0.2
M62200E	Soil	26	0.19	79	0.064	<1	2.06	0.011	0.03	0.2	0.04	1.2	<0.1	<0.05	6	<0.5	<0.2
M62300E	Soil	42	0.28	101	0.111	<1	2.94	0.013	0.05	0.2	0.04	1.8	<0.1	<0.05	9	<0.5	<0.2
M62400E	Soil	30	0.19	87	0.058	<1	2.92	0.011	0.04	0.3	0.06	1.4	<0.1	<0.05	7	<0.5	<0.2
M62500E	Soil	16	0.10	53	0.074	<1	0.89	0.011	0.03	<0.1	0.03	0.8	<0.1	<0.05	7	<0.5	<0.2
M70000E	Soil	39	0.18	60	0.060	<1	2.25	0.011	0.03	0.2	0.06	1.2	<0.1	<0.05	7	<0.5	<0.2
M70100E	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.
M70200E	Soil	96	0.63	96	0.121	<1	3.41	0.014	0.05	0.1	0.04	1.4	<0.1	<0.05	8	<0.5	<0.2
M70300E	Soil	37	0.21	101	0.067	<1	2.27	0.012	0.04	0.2	0.07	1.6	<0.1	<0.05	8	<0.5	<0.2
M70400E	Soil	30	0.19	113	0.061	<1	1.91	0.011	0.04	0.2	0.03	1.3	<0.1	<0.05	8	<0.5	<0.2
M70500E	Soil	19	0.12	69	0.073	<1	1.21	0.012	0.03	0.1	0.03	1.0	<0.1	<0.05	7	<0.5	<0.2
M70600E	Soil	40	0.50	204	0.126	<1	3.36	0.020	0.08	<0.1	0.02	2.8	<0.1	<0.05	9	<0.5	<0.2
M70700E	Soil	44	0.33	270	0.111	<1	2.31	0.015	0.07	0.2	0.03	2.3	<0.1	<0.05	10	<0.5	<0.2
M70800E	Soil	23	0.35	90	0.111	<1	1.16	0.018	0.05	<0.1	<0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
M70900E	Soil	30	0.43	140	0.104	<1	1.76	0.020	0.06	0.1	0.02	2.5	<0.1	<0.05	5	<0.5	<0.2
M71000E	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.
M71100E	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.
M71200E	Soil	24	0.32	122	0.087	<1	1.24	0.014	0.04	0.1	0.02	1.5	<0.1	<0.05	4	<0.5	<0.2
M71300E	Soil	25	0.26	97	0.084	1	1.39	0.015	0.04	0.3	0.04	1.6	<0.1	<0.05	5	<0.5	<0.2
M71400E	Soil	30	0.41	184	0.095	<1	2.87	0.014	0.06	0.2	0.04	2.3	<0.1	<0.05	6	<0.5	<0.2
M71500E	Soil	26	0.33	116	0.091	<1	1.96	0.012	0.04	0.3	0.04	1.8	<0.1	<0.05	5	<0.5	<0.2
M71600E	Soil	21	0.33	90	0.093	1	1.19	0.013	0.03	0.2	<0.01	1.5	<0.1	<0.05	4	<0.5	<0.2
M71700E	Soil	22	0.23	99	0.084	1	2.03	0.011	0.04	0.2	0.05	1.7	<0.1	<0.05	7	<0.5	<0.2
M71800E	Soil	23	0.24	89	0.080	1	1.29	0.011	0.04	0.2	0.04	1.5	<0.1	<0.05	5	<0.5	<0.2
M71900E	Soil	26	0.30	115	0.095	1	2.46	0.013	0.05	0.2	0.04	2.3	<0.1	<0.05	6	<0.5	<0.2

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11th Floor, 1111 Melville Street
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Project: Horsefly
Report Date: September 17, 2011

CERTIFICATE OF ANALYSIS SMI11000217.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	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
M72000E	Soil	1.3	20.5	5.0	28	<0.1	18.6	9.1	146	2.76	4.0	2.3	2.2	14	<0.1	0.3	<0.1	74	0.16	0.115	4
M72100E	Soil	0.7	21.8	5.0	33	<0.1	22.8	9.1	186	2.72	4.3	2.6	1.5	27	<0.1	0.2	<0.1	74	0.31	0.120	4
M72200E	Soil	0.7	18.9	5.9	44	<0.1	24.6	9.8	170	3.05	3.7	<0.5	1.8	17	<0.1	0.2	<0.1	75	0.24	0.231	4
M72300E	Soil	0.5	22.1	4.6	27	<0.1	17.7	9.5	201	2.74	4.4	2.8	1.5	17	<0.1	0.4	<0.1	82	0.26	0.143	4
M72400E	Soil	0.6	23.0	5.2	33	<0.1	17.3	7.7	186	2.42	3.3	6.1	1.5	26	<0.1	0.3	<0.1	73	0.31	0.066	6
M72500E	Soil	0.6	22.1	4.2	27	<0.1	15.3	7.1	176	2.10	3.1	1.6	1.5	23	<0.1	0.3	<0.1	70	0.30	0.074	5
M80000E	Soil	0.6	34.5	6.3	40	0.1	20.1	7.8	230	2.29	2.9	2.6	1.7	30	<0.1	0.3	<0.1	65	0.32	0.080	8
M80100E	Soil	0.6	27.1	5.7	35	<0.1	15.9	8.3	261	1.92	2.9	0.7	1.8	30	<0.1	0.3	<0.1	62	0.35	0.047	9
M80200E	Soil	0.5	20.3	5.2	30	<0.1	18.9	7.5	193	2.22	3.0	1.9	1.6	26	<0.1	0.2	<0.1	66	0.30	0.078	6
M80300E	Soil	2.9	10.5	5.4	40	<0.1	14.3	6.7	153	2.99	3.6	<0.5	1.2	16	<0.1	0.2	<0.1	74	0.23	0.160	4
M80400E	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.
M80500E	Soil	0.8	27.3	5.2	34	0.1	21.7	8.5	242	2.54	3.3	53.2	1.8	19	<0.1	0.3	<0.1	69	0.24	0.084	5
M80600E	Soil	0.4	20.6	3.3	29	<0.1	16.2	6.3	166	2.56	1.5	6.8	1.4	24	<0.1	0.2	<0.1	89	0.28	0.058	5
M80700E	Soil	0.4	25.1	5.4	38	<0.1	18.1	8.5	251	2.49	3.7	0.7	2.2	32	<0.1	0.3	<0.1	76	0.35	0.057	6
M80800E	Soil	0.7	68.1	8.9	63	0.3	35.0	12.7	218	4.12	5.4	1.7	2.2	49	<0.1	0.3	0.2	92	0.38	0.109	12
M80900E	Soil	0.5	15.0	6.5	34	0.2	18.4	6.5	128	2.64	2.8	22.4	2.2	20	0.1	0.2	0.1	71	0.20	0.169	5
M81000E	Soil	0.3	7.7	5.9	25	<0.1	8.1	3.7	121	1.28	0.7	0.6	1.3	22	<0.1	0.1	<0.1	39	0.24	0.036	5
M81100E	Soil	0.3	9.9	3.1	26	<0.1	24.7	8.7	161	2.50	1.9	<0.5	1.9	25	<0.1	0.1	<0.1	69	0.27	0.180	6
M81200E	Soil	0.5	13.5	4.6	31	0.1	13.6	7.0	217	2.21	2.4	<0.5	1.5	29	<0.1	0.2	<0.1	72	0.31	0.081	6
M81300E	Soil	0.4	10.0	3.7	50	<0.1	15.3	7.3	292	2.49	2.5	<0.5	1.9	20	<0.1	0.2	<0.1	68	0.23	0.221	5
M81400E	Soil	0.9	18.0	6.1	61	0.1	20.1	9.7	237	4.20	3.9	1.8	2.5	16	0.1	0.2	0.1	117	0.20	0.251	5
M81500E	Soil	0.4	11.4	2.9	29	<0.1	20.2	8.1	125	3.21	2.3	0.8	1.7	20	<0.1	0.1	<0.1	97	0.20	0.184	4
M81600E	Soil	0.3	7.8	2.8	17	<0.1	9.4	3.6	101	1.52	1.5	4.9	1.4	25	<0.1	0.1	<0.1	57	0.27	0.057	5
M81700E	Soil	0.7	75.8	7.6	44	0.3	35.8	14.1	801	3.47	4.1	1.8	2.3	87	0.1	0.3	0.1	104	0.62	0.042	23
M81800E	Soil	0.5	14.4	4.3	29	<0.1	16.0	7.3	245	2.44	2.5	2.2	1.4	32	0.1	0.3	<0.1	80	0.33	0.122	5
M81900E	Soil	0.3	13.6	5.4	23	<0.1	9.8	4.3	143	1.29	1.7	3.0	1.4	27	<0.1	0.2	<0.1	44	0.29	0.036	6
M82000E	Soil	0.3	18.0	5.1	22	<0.1	12.6	4.6	163	1.68	2.8	6.2	2.6	31	<0.1	0.3	<0.1	54	0.37	0.077	8
M82100E	Soil	0.4	11.5	5.8	64	<0.1	19.0	7.6	418	1.90	1.5	0.9	2.1	21	<0.1	0.2	<0.1	44	0.23	0.258	6
M82200E	Soil	0.3	18.8	4.2	25	<0.1	14.7	6.5	181	1.94	2.7	4.7	1.9	30	<0.1	0.3	<0.1	65	0.35	0.070	7
M82300E	Soil	0.4	22.4	5.0	32	0.2	19.2	5.8	137	2.55	2.0	7.6	1.3	41	<0.1	0.2	<0.1	60	0.32	0.079	13

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	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	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
M72000E	Soil	25	0.27	97	0.092	1	3.22	0.011	0.04	0.2	0.04	2.3	<0.1	<0.05	6	<0.5	<0.2
M72100E	Soil	25	0.33	144	0.094	1	2.29	0.014	0.05	0.2	0.03	1.9	<0.1	<0.05	5	<0.5	<0.2
M72200E	Soil	28	0.29	130	0.103	1	2.96	0.013	0.05	0.2	0.05	2.5	<0.1	<0.05	8	<0.5	<0.2
M72300E	Soil	26	0.33	114	0.099	1	1.98	0.014	0.04	0.2	0.02	2.0	<0.1	<0.05	5	<0.5	<0.2
M72400E	Soil	26	0.33	148	0.099	2	1.75	0.015	0.05	0.1	0.03	2.1	<0.1	<0.05	5	<0.5	<0.2
M72500E	Soil	24	0.34	112	0.096	1	1.67	0.014	0.04	0.1	0.02	1.7	<0.1	<0.05	5	<0.5	<0.2
M80000E	Soil	32	0.41	131	0.104	1	2.33	0.016	0.06	<0.1	0.04	2.7	<0.1	<0.05	7	<0.5	<0.2
M80100E	Soil	27	0.39	111	0.109	2	1.60	0.015	0.05	<0.1	0.02	2.4	<0.1	<0.05	5	<0.5	<0.2
M80200E	Soil	27	0.35	136	0.099	1	1.75	0.016	0.04	0.1	0.03	1.9	<0.1	<0.05	5	<0.5	<0.2
M80300E	Soil	26	0.22	122	0.087	1	2.52	0.012	0.03	0.2	0.05	2.0	<0.1	<0.05	6	<0.5	<0.2
M80400E	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.
M80500E	Soil	28	0.30	105	0.102	2	2.23	0.013	0.04	0.1	0.03	1.9	<0.1	<0.05	6	<0.5	<0.2
M80600E	Soil	25	0.31	103	0.087	<1	1.11	0.014	0.03	<0.1	0.02	1.4	<0.1	<0.05	4	<0.5	<0.2
M80700E	Soil	31	0.48	108	0.124	1	1.82	0.018	0.05	0.1	0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
M80800E	Soil	49	0.65	228	0.097	1	4.86	0.014	0.10	0.1	0.04	4.3	<0.1	<0.05	13	<0.5	<0.2
M80900E	Soil	29	0.23	112	0.092	1	2.26	0.012	0.04	0.1	0.04	2.4	<0.1	<0.05	7	<0.5	<0.2
M81000E	Soil	18	0.18	84	0.089	<1	0.84	0.012	0.03	<0.1	0.02	1.3	<0.1	<0.05	4	<0.5	<0.2
M81100E	Soil	32	0.25	137	0.088	2	1.68	0.013	0.03	0.2	0.03	1.9	<0.1	<0.05	4	<0.5	<0.2
M81200E	Soil	25	0.27	107	0.103	1	1.40	0.016	0.04	0.1	0.03	1.9	<0.1	<0.05	5	<0.5	<0.2
M81300E	Soil	27	0.23	147	0.080	<1	1.95	0.012	0.03	0.1	0.03	2.1	<0.1	<0.05	5	<0.5	<0.2
M81400E	Soil	34	0.28	85	0.095	<1	2.32	0.013	0.04	0.2	0.05	2.1	<0.1	<0.05	8	<0.5	<0.2
M81500E	Soil	27	0.19	80	0.065	<1	1.70	0.010	0.03	0.2	0.03	1.8	<0.1	<0.05	4	<0.5	<0.2
M81600E	Soil	21	0.23	80	0.084	<1	0.89	0.012	0.02	<0.1	<0.01	1.2	<0.1	<0.05	3	<0.5	<0.2
M81700E	Soil	48	0.55	243	0.107	2	3.21	0.024	0.09	0.1	0.05	5.4	<0.1	<0.05	9	<0.5	<0.2
M81800E	Soil	27	0.28	114	0.090	<1	1.45	0.013	0.05	0.1	0.03	1.6	<0.1	<0.05	5	<0.5	<0.2
M81900E	Soil	20	0.31	78	0.108	1	1.22	0.015	0.03	<0.1	0.02	1.7	<0.1	<0.05	4	<0.5	<0.2
M82000E	Soil	25	0.33	100	0.124	1	1.32	0.015	0.05	<0.1	0.02	2.3	<0.1	<0.05	4	<0.5	<0.2
M82100E	Soil	27	0.25	124	0.092	1	1.99	0.014	0.05	0.1	0.03	2.8	<0.1	<0.05	5	<0.5	<0.2
M82200E	Soil	26	0.34	94	0.110	<1	1.27	0.015	0.04	0.1	0.02	2.0	<0.1	<0.05	4	<0.5	<0.2
M82300E	Soil	27	0.24	169	0.075	2	2.13	0.013	0.05	<0.1	0.04	2.8	<0.1	<0.05	6	<0.5	<0.2

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Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
MDL		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
M82400E	Soil	0.2	10.4	4.0	24	<0.1	9.6	4.1	122	1.19	1.0	5.2	1.1	23	<0.1	0.2	<0.1	34	0.27	0.032	5
M82500E	Soil	0.3	18.7	3.6	27	<0.1	16.1	5.6	205	1.93	2.4	4.4	1.5	28	<0.1	0.2	<0.1	61	0.34	0.062	7
M90000E	Soil	0.3	18.3	3.1	27	<0.1	19.6	8.2	172	3.28	2.3	4.6	1.7	21	<0.1	0.1	<0.1	78	0.28	0.147	6
M90100E	Soil	0.2	19.2	5.7	31	<0.1	15.9	6.1	176	1.68	2.3	3.3	2.0	31	<0.1	0.2	<0.1	50	0.38	0.065	8
M90200E	Soil	0.3	24.0	5.2	45	<0.1	25.1	8.6	183	3.03	2.8	3.8	2.0	26	<0.1	0.3	<0.1	70	0.29	0.085	6
M90300E	Soil	0.4	15.0	4.5	30	<0.1	18.8	7.8	153	2.79	3.3	4.9	1.6	21	<0.1	0.3	<0.1	70	0.25	0.114	6
M90400E	Soil	0.5	37.9	7.0	54	0.2	36.0	14.3	504	4.12	3.0	4.4	1.7	56	<0.1	0.3	0.1	77	0.47	0.094	15
M90500E	Soil	0.3	17.3	5.5	39	0.2	19.7	6.8	139	2.83	2.5	2.6	1.6	29	<0.1	0.2	<0.1	63	0.26	0.169	6
M90600E	Soil	0.2	12.4	4.1	26	0.2	12.8	6.6	291	1.98	1.8	2.8	1.1	40	0.2	0.2	<0.1	58	0.37	0.078	5
M90700E	Soil	0.3	14.8	4.1	28	<0.1	15.5	7.5	146	2.58	2.4	6.2	1.7	25	<0.1	0.2	<0.1	72	0.32	0.071	5
M90800E	Soil	0.3	13.7	4.2	34	<0.1	19.1	6.9	157	2.74	1.8	9.0	1.4	33	<0.1	0.2	<0.1	64	0.30	0.131	5
M90900E	Soil	0.6	21.1	4.5	48	<0.1	40.0	10.2	152	2.82	2.5	2.6	1.6	32	<0.1	0.2	<0.1	57	0.36	0.106	5
M91000E	Soil	0.4	42.1	6.3	57	0.2	38.5	10.8	467	3.89	2.6	4.3	2.1	42	0.1	0.2	<0.1	80	0.39	0.081	11
M91100E	Soil	0.4	7.9	4.7	32	<0.1	10.5	4.9	141	2.34	0.9	5.7	1.6	43	<0.1	0.2	<0.1	51	0.30	0.371	4
M91200E	Soil	0.3	11.7	5.9	30	<0.1	11.3	4.8	152	1.34	0.9	3.0	1.2	27	0.1	0.1	<0.1	42	0.27	0.033	6
M91300E	Soil	0.3	15.0	4.8	42	0.2	21.0	6.9	168	3.25	2.3	2.5	2.1	32	<0.1	0.2	<0.1	69	0.28	0.382	9
M91400E	Soil	0.4	10.2	3.9	31	<0.1	13.9	4.8	102	2.06	1.5	1.8	1.4	18	<0.1	0.1	<0.1	54	0.21	0.148	4
M91500E	Soil	0.6	10.8	5.5	60	0.2	14.8	5.9	425	3.61	1.9	2.7	1.5	28	0.1	0.1	<0.1	88	0.29	0.297	3
M91600E	Soil	0.8	11.1	6.1	39	0.2	16.3	5.8	115	4.08	3.4	4.3	1.6	29	0.1	0.2	<0.1	90	0.22	0.345	4
M91700E	Soil	0.5	10.4	2.4	44	<0.1	15.6	8.5	357	4.32	0.5	3.7	1.5	25	<0.1	0.1	<0.1	133	0.24	0.028	4
M91800E	Soil	0.8	11.2	6.5	44	0.3	21.3	8.2	188	4.69	3.7	0.7	2.0	32	<0.1	0.1	<0.1	114	0.24	0.446	5
M91900E	Soil	0.5	18.8	5.4	35	<0.1	21.6	8.9	256	2.89	1.8	3.1	2.0	33	<0.1	0.3	<0.1	71	0.30	0.121	8
M92000E	Soil	0.6	14.2	3.5	39	<0.1	27.5	8.3	144	3.30	2.0	5.2	1.5	19	<0.1	0.2	<0.1	79	0.21	0.148	4
M92100E	Soil	0.3	12.3	4.5	42	<0.1	16.8	5.2	160	2.69	1.3	3.6	1.4	27	<0.1	0.1	<0.1	63	0.23	0.220	4
M92200E	Soil	0.4	9.8	3.9	30	0.1	15.1	4.7	150	2.08	2.7	2.0	1.3	28	<0.1	0.1	<0.1	56	0.25	0.211	4
M92300E	Soil	0.8	42.8	6.5	93	0.3	41.3	15.6	1580	5.16	3.8	7.0	2.6	55	0.2	0.2	0.2	134	0.36	0.127	12
M92400E	Soil	0.6	12.2	5.5	36	0.1	15.5	6.0	131	2.96	1.1	4.4	1.3	18	<0.1	0.2	<0.1	70	0.19	0.212	4
M92500E	Soil	0.4	28.1	6.9	42	0.2	34.5	8.5	108	3.26	2.5	1.9	2.3	36	0.1	0.2	0.1	67	0.25	0.116	9
M100000E	Soil	0.4	22.3	5.3	40	<0.1	26.4	9.1	164	2.91	3.0	2.0	2.1	32	<0.1	0.2	<0.1	62	0.29	0.104	8
M100100E	Soil	0.5	9.2	4.2	30	<0.1	13.0	5.0	125	3.12	1.3	1.0	1.3	24	<0.1	0.1	<0.1	75	0.23	0.371	4

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11th Floor, 1111 Melville Street
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Project: Horsefly
Report Date: September 17, 2011

CERTIFICATE OF ANALYSIS SMI11000217.1

Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		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
M82400E	Soil	17	0.23	85	0.078	1	0.96	0.011	0.03	<0.1	0.02	1.6	<0.1	<0.05	3	<0.5	<0.2
M82500E	Soil	24	0.33	110	0.082	2	1.24	0.012	0.06	<0.1	0.02	2.1	<0.1	0.05	4	<0.5	<0.2
M90000E	Soil	33	0.31	127	0.073	2	1.81	0.011	0.04	0.1	<0.01	2.1	<0.1	<0.05	5	<0.5	0.2
M90100E	Soil	23	0.41	119	0.118	1	1.36	0.016	0.05	<0.1	0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
M90200E	Soil	32	0.37	164	0.096	1	2.44	0.013	0.06	0.1	0.02	2.6	<0.1	<0.05	7	<0.5	<0.2
M90300E	Soil	28	0.26	132	0.085	1	1.81	0.011	0.05	0.1	0.05	2.3	<0.1	<0.05	5	0.5	<0.2
M90400E	Soil	49	0.52	278	0.102	1	4.01	0.016	0.10	0.1	0.05	3.9	<0.1	<0.05	11	<0.5	<0.2
M90500E	Soil	28	0.23	125	0.075	1	2.35	0.011	0.04	0.1	0.04	2.3	<0.1	<0.05	7	<0.5	<0.2
M90600E	Soil	21	0.21	129	0.075	1	1.02	0.011	0.04	<0.1	0.02	1.6	<0.1	<0.05	4	<0.5	<0.2
M90700E	Soil	27	0.29	95	0.100	1	1.48	0.012	0.06	<0.1	0.01	1.9	<0.1	<0.05	5	<0.5	<0.2
M90800E	Soil	28	0.27	115	0.083	1	1.86	0.011	0.03	<0.1	0.02	1.9	<0.1	<0.05	5	<0.5	<0.2
M90900E	Soil	29	0.31	219	0.090	2	2.89	0.012	0.05	0.1	0.04	2.5	<0.1	<0.05	6	0.8	<0.2
M91000E	Soil	41	0.49	243	0.098	1	3.90	0.015	0.10	0.1	0.04	3.6	<0.1	<0.05	10	0.5	<0.2
M91100E	Soil	23	0.17	240	0.064	1	1.39	0.010	0.05	0.1	0.01	1.9	<0.1	<0.05	5	<0.5	<0.2
M91200E	Soil	17	0.19	96	0.077	<1	1.12	0.012	0.03	<0.1	0.02	1.4	<0.1	<0.05	4	<0.5	<0.2
M91300E	Soil	32	0.26	208	0.076	<1	1.96	0.011	0.06	0.1	0.04	2.7	<0.1	<0.05	6	0.6	<0.2
M91400E	Soil	20	0.12	80	0.059	<1	1.47	0.009	0.03	0.1	0.02	1.6	<0.1	<0.05	4	<0.5	0.2
M91500E	Soil	28	0.16	141	0.071	2	1.73	0.010	0.04	0.2	0.05	1.6	<0.1	<0.05	7	<0.5	<0.2
M91600E	Soil	34	0.18	86	0.082	<1	3.16	0.011	0.03	0.1	0.05	2.8	<0.1	<0.05	9	0.5	<0.2
M91700E	Soil	33	0.24	101	0.078	1	1.06	0.010	0.05	<0.1	0.02	1.3	<0.1	<0.05	4	0.7	<0.2
M91800E	Soil	37	0.22	188	0.090	<1	3.46	0.011	0.05	0.2	0.05	2.9	<0.1	<0.05	9	0.6	<0.2
M91900E	Soil	39	0.27	217	0.111	1	1.87	0.013	0.04	0.1	0.03	2.3	<0.1	<0.05	5	<0.5	<0.2
M92000E	Soil	32	0.21	109	0.079	1	2.32	0.011	0.03	0.2	0.03	2.6	<0.1	<0.05	5	<0.5	<0.2
M92100E	Soil	26	0.20	117	0.076	1	2.03	0.010	0.04	0.2	0.02	1.8	<0.1	<0.05	6	<0.5	<0.2
M92200E	Soil	25	0.15	129	0.066	<1	1.61	0.009	0.03	0.1	0.02	1.4	<0.1	<0.05	4	<0.5	<0.2
M92300E	Soil	46	0.29	256	0.081	<1	3.65	0.014	0.08	0.2	0.04	4.0	0.2	<0.05	9	0.9	<0.2
M92400E	Soil	28	0.18	116	0.076	<1	1.43	0.009	0.03	0.1	0.03	1.7	<0.1	<0.05	6	<0.5	0.2
M92500E	Soil	37	0.21	217	0.103	<1	2.88	0.010	0.06	0.2	0.05	2.6	<0.1	<0.05	9	0.6	<0.2
M100000E	Soil	33	0.32	213	0.104	<1	2.54	0.014	0.05	0.1	0.01	2.5	<0.1	<0.05	7	<0.5	<0.2
M100100E	Soil	35	0.13	141	0.078	1	2.02	0.010	0.03	0.2	0.04	2.7	<0.1	<0.05	6	0.8	<0.2

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Project: Horsefly
Report Date: September 17, 2011

CERTIFICATE OF ANALYSIS SMI11000217.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	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
M100200E	Soil	0.3	18.6	3.6	30	<0.1	18.4	7.8	222	2.80	2.0	3.4	2.1	32	<0.1	0.3	<0.1	76	0.28	0.071	6
M100300E	Soil	0.5	15.6	4.6	38	<0.1	26.3	8.8	152	2.84	2.7	9.6	1.5	34	<0.1	0.2	<0.1	64	0.30	0.147	5
M100400E	Soil	0.3	10.7	8.1	34	<0.1	10.3	4.0	113	1.41	<0.5	2.3	1.0	24	<0.1	0.2	0.1	41	0.21	0.034	5
M100500E	Soil	0.8	13.0	9.8	54	0.3	14.7	7.0	210	3.83	2.5	1.8	1.5	26	0.2	0.1	0.1	76	0.21	0.419	5
M100600E	Soil	0.6	17.6	4.2	36	0.1	26.4	10.1	185	2.54	2.1	3.3	1.7	28	0.1	0.2	<0.1	60	0.28	0.100	6
M100700E	Soil	0.2	17.6	3.7	27	<0.1	15.8	5.0	139	1.44	1.6	1.8	1.7	31	<0.1	0.2	0.1	37	0.29	0.063	7
M100800E	Soil	0.5	17.4	5.2	37	0.2	32.1	8.8	131	3.21	3.8	2.7	1.7	25	0.2	0.2	0.1	73	0.21	0.190	5
M100900E	Soil	0.5	9.7	7.3	27	<0.1	13.1	4.8	279	1.77	1.6	<0.5	0.9	36	0.1	0.1	0.1	52	0.24	0.070	5
M101000E	Soil	0.4	13.1	4.8	29	<0.1	14.5	4.5	110	1.81	1.6	0.9	1.3	28	0.1	0.1	<0.1	57	0.21	0.046	4
M101100E	Soil	0.4	19.8	5.0	37	<0.1	24.6	7.8	161	2.95	3.4	0.8	1.8	35	0.1	0.3	<0.1	68	0.33	0.195	5
M101200E	Soil	0.4	10.0	5.0	34	0.2	19.6	7.1	192	2.82	2.6	<0.5	1.6	20	<0.1	0.2	<0.1	60	0.17	0.445	4
M101300E	Soil	0.8	8.8	6.0	38	0.1	17.7	5.1	89	3.06	2.6	4.7	1.8	25	<0.1	0.1	0.1	67	0.17	0.399	4
M101400E	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.
M101500E	Soil	0.6	11.0	3.6	45	0.1	23.0	8.8	167	3.82	2.0	2.4	1.7	18	<0.1	0.1	<0.1	95	0.18	0.197	4
M101600E	Soil	0.5	10.3	5.2	80	<0.1	23.2	8.2	286	2.24	1.5	0.7	1.4	24	0.2	0.1	0.1	53	0.21	0.204	5
M101700E	Soil	0.4	16.4	7.2	59	<0.1	11.3	5.8	142	1.63	1.5	2.6	2.0	43	<0.1	0.2	0.2	43	0.33	0.043	7
M101800E	Soil	0.7	10.6	7.4	76	<0.1	13.1	7.2	217	1.81	1.8	2.8	1.6	21	<0.1	0.1	0.1	40	0.17	0.301	5
M101900E	Soil	0.3	17.4	6.7	60	0.1	20.8	7.3	126	2.99	2.3	<0.5	1.8	34	0.1	0.2	0.1	61	0.23	0.246	7
M102000E	Soil	1.0	15.3	5.0	59	<0.1	19.1	7.6	910	2.58	1.2	1.9	1.0	43	<0.1	0.2	<0.1	67	0.31	0.050	6
M102100E	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.
M102200E	Soil	0.2	15.1	6.1	47	<0.1	17.1	5.7	140	1.91	1.5	1.0	1.7	35	<0.1	0.2	<0.1	57	0.24	0.041	7
M102300E	Soil	0.5	14.9	7.9	57	0.2	22.0	6.0	168	2.06	1.5	<0.5	1.5	42	<0.1	0.1	0.1	50	0.28	0.095	8
M102400E	Soil	0.5	15.0	8.5	88	0.2	20.3	11.1	481	1.65	1.1	4.8	1.0	46	0.2	0.1	0.1	41	0.29	0.078	7
M102500E	Soil	0.4	15.4	6.7	84	0.1	21.3	7.4	378	2.22	1.5	4.3	1.3	53	0.2	0.2	0.1	57	0.33	0.112	6
M110000E	Soil	0.5	20.6	5.0	54	<0.1	28.5	8.2	173	2.49	1.9	1.7	1.7	30	0.1	0.2	<0.1	55	0.25	0.249	5
M110100E	Soil	0.3	15.3	4.8	51	<0.1	20.7	6.9	165	3.12	2.2	2.4	1.4	32	<0.1	0.2	<0.1	73	0.26	0.237	5
M110200E	Soil	0.5	17.2	8.6	120	0.2	25.0	11.0	390	2.90	2.2	1.4	1.4	47	0.2	0.2	0.1	66	0.37	0.209	6
M110300E	Soil	0.2	14.3	7.0	34	<0.1	17.6	5.5	135	1.46	1.4	0.6	1.2	47	0.1	0.1	<0.1	38	0.33	0.042	8
M110400E	Soil	0.4	17.2	5.7	91	0.1	33.0	12.1	282	3.57	2.6	<0.5	1.8	26	0.2	0.2	<0.1	78	0.24	0.263	6
M110500E	Soil	0.3	16.2	8.1	27	<0.1	9.7	2.8	72	1.01	0.6	33.2	1.2	37	<0.1	<0.1	<0.1	32	0.24	0.022	16

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	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	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
M100200E	Soil	35	0.31	127	0.105	<1	1.47	0.012	0.05	0.1	0.02	1.8	<0.1	<0.05	4	0.6	<0.2
M100300E	Soil	32	0.25	140	0.091	2	2.42	0.012	0.04	0.2	0.05	2.7	<0.1	<0.05	5	<0.5	<0.2
M100400E	Soil	16	0.16	119	0.090	<1	1.22	0.010	0.03	<0.1	0.02	1.2	<0.1	<0.05	7	<0.5	<0.2
M100500E	Soil	37	0.22	126	0.109	1	2.45	0.011	0.05	0.2	0.04	2.3	<0.1	<0.05	12	1.5	<0.2
M100600E	Soil	30	0.28	161	0.089	<1	2.05	0.013	0.04	0.1	0.04	1.9	<0.1	<0.05	5	0.7	<0.2
M100700E	Soil	24	0.30	150	0.095	<1	1.56	0.012	0.04	<0.1	<0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
M100800E	Soil	32	0.21	153	0.094	2	3.02	0.011	0.04	0.2	0.04	2.2	<0.1	<0.05	7	0.7	<0.2
M100900E	Soil	25	0.13	134	0.088	1	1.16	0.010	0.03	0.1	0.03	1.4	<0.1	<0.05	7	0.6	<0.2
M101000E	Soil	22	0.20	115	0.083	<1	1.54	0.011	0.03	<0.1	0.02	1.4	<0.1	<0.05	5	<0.5	<0.2
M101100E	Soil	32	0.25	121	0.088	<1	2.29	0.011	0.04	0.2	0.04	2.4	<0.1	<0.05	6	1.1	<0.2
M101200E	Soil	27	0.17	141	0.070	<1	2.32	0.009	0.03	0.1	0.04	2.2	<0.1	<0.05	6	0.9	<0.2
M101300E	Soil	37	0.13	96	0.099	<1	3.16	0.009	0.04	0.2	0.03	2.9	<0.1	<0.05	8	0.8	<0.2
M101400E	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.
M101500E	Soil	34	0.20	86	0.079	1	2.28	0.009	0.04	0.2	0.04	2.4	<0.1	<0.05	6	0.6	<0.2
M101600E	Soil	26	0.20	158	0.070	<1	1.46	0.009	0.06	0.1	0.03	1.4	<0.1	<0.05	5	0.6	<0.2
M101700E	Soil	20	0.26	156	0.068	<1	1.54	0.009	0.06	<0.1	0.02	1.6	0.2	<0.05	4	<0.5	<0.2
M101800E	Soil	20	0.14	160	0.059	<1	1.75	0.009	0.05	<0.1	0.03	1.7	<0.1	<0.05	6	0.7	<0.2
M101900E	Soil	29	0.20	174	0.078	<1	2.06	0.009	0.05	0.1	0.04	1.9	<0.1	<0.05	7	<0.5	<0.2
M102000E	Soil	32	0.28	144	0.073	<1	1.30	0.011	0.07	<0.1	0.04	1.5	<0.1	<0.05	5	<0.5	<0.2
M102100E	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.
M102200E	Soil	29	0.26	173	0.083	<1	1.24	0.010	0.06	0.1	<0.01	1.5	<0.1	<0.05	4	0.6	<0.2
M102300E	Soil	30	0.21	193	0.086	<1	1.71	0.011	0.08	<0.1	0.02	1.7	<0.1	<0.05	7	<0.5	<0.2
M102400E	Soil	34	0.25	164	0.078	<1	1.57	0.012	0.07	<0.1	0.03	1.5	<0.1	<0.05	6	<0.5	<0.2
M102500E	Soil	33	0.29	283	0.087	<1	1.47	0.010	0.06	<0.1	0.02	1.7	<0.1	<0.05	5	<0.5	<0.2
M110000E	Soil	31	0.30	125	0.086	<1	1.73	0.010	0.07	0.1	0.02	1.6	<0.1	<0.05	5	<0.5	<0.2
M110100E	Soil	32	0.25	122	0.082	1	1.58	0.009	0.05	0.1	0.01	1.6	<0.1	<0.05	5	<0.5	<0.2
M110200E	Soil	37	0.35	181	0.085	<1	1.66	0.011	0.11	<0.1	0.03	1.6	<0.1	<0.05	6	0.5	<0.2
M110300E	Soil	25	0.34	194	0.088	<1	1.60	0.013	0.04	0.1	0.02	1.6	<0.1	<0.05	4	<0.5	<0.2
M110400E	Soil	35	0.31	158	0.090	<1	2.33	0.009	0.06	0.2	0.03	2.1	<0.1	<0.05	6	<0.5	<0.2
M110500E	Soil	22	0.12	132	0.091	<1	0.96	0.011	0.03	<0.1	0.04	1.8	<0.1	<0.05	5	<0.5	<0.2

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Project: Horsefly
Report Date: September 17, 2011

CERTIFICATE OF ANALYSIS SMI11000217.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	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
M110600E	Soil	0.8	23.3	9.7	99	0.2	23.7	12.8	538	2.76	2.3	<0.5	1.3	43	0.1	<0.1	0.1	62	0.35	0.105	10
M110700E	Soil	0.5	13.3	4.8	56	<0.1	29.5	10.7	183	3.16	2.7	<0.5	1.5	28	0.2	0.2	<0.1	73	0.24	0.212	5
M110800E	Soil	0.4	8.9	4.7	49	<0.1	21.2	6.8	100	2.68	2.0	<0.5	1.7	26	<0.1	0.2	<0.1	58	0.24	0.241	5
M110900E	Soil	0.3	19.7	6.4	57	0.1	28.8	8.5	179	2.85	2.9	<0.5	2.2	48	<0.1	0.2	<0.1	62	0.31	0.135	8
M111000E	Soil	0.4	21.4	6.6	92	<0.1	21.4	7.4	179	2.49	3.0	<0.5	2.0	32	<0.1	0.2	<0.1	52	0.29	0.243	6
M111100E	Soil	0.5	38.0	5.7	59	<0.1	28.7	7.6	170	2.68	3.1	7.2	2.0	32	<0.1	0.2	<0.1	61	0.23	0.109	6
M111200E	Soil	0.4	18.2	7.1	97	0.1	23.7	8.5	213	2.77	2.5	16.5	1.7	37	<0.1	0.2	0.1	55	0.31	0.251	7
M111300E	Soil	0.7	17.0	5.4	30	<0.1	23.5	9.1	159	3.52	3.5	67.0	1.4	31	<0.1	0.3	<0.1	99	0.24	0.033	4
M111400E	Soil	0.3	19.6	7.0	61	<0.1	28.7	10.1	288	2.72	2.2	1.7	1.8	59	<0.1	0.1	0.1	59	0.37	0.095	9
M111500E	Soil	0.4	18.0	4.0	37	<0.1	27.8	8.2	156	2.84	2.6	1.3	1.7	66	<0.1	0.2	<0.1	67	0.30	0.115	6
M111600E	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.
M111700E	Soil	0.3	15.0	3.1	27	<0.1	18.0	6.0	152	2.82	2.0	<0.5	1.7	25	<0.1	0.2	<0.1	72	0.28	0.088	6
M111800E	Soil	0.3	14.8	6.2	33	<0.1	11.6	6.8	368	1.52	1.1	4.3	1.2	39	<0.1	0.1	<0.1	45	0.32	0.041	8
M111900E	Soil	0.1	14.9	5.2	25	<0.1	12.1	4.4	146	1.51	1.9	<0.5	1.5	36	<0.1	0.2	<0.1	47	0.33	0.073	8
M112000E	Soil	0.2	16.0	5.1	27	<0.1	14.7	6.1	199	1.43	1.4	3.1	1.6	45	<0.1	0.2	<0.1	42	0.36	0.075	8
M112100E	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.

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Project: Horsefly
Report Date: September 17, 2011

CERTIFICATE OF ANALYSIS SMI11000217.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	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
M110600E	Soil	32	0.44	171	0.120	<1	2.18	0.013	0.08	<0.1	0.03	2.1	<0.1	<0.05	8	0.7	<0.2
M110700E	Soil	32	0.25	160	0.096	1	2.63	0.011	0.05	0.1	0.04	2.8	<0.1	<0.05	6	<0.5	<0.2
M110800E	Soil	29	0.18	113	0.080	<1	1.72	0.009	0.05	0.1	0.04	2.0	<0.1	<0.05	5	<0.5	<0.2
M110900E	Soil	34	0.34	243	0.092	<1	1.88	0.010	0.07	<0.1	0.03	2.1	<0.1	<0.05	5	<0.5	<0.2
M111000E	Soil	31	0.25	138	0.082	<1	1.86	0.010	0.06	0.1	0.03	1.8	<0.1	<0.05	5	<0.5	<0.2
M111100E	Soil	32	0.30	223	0.100	<1	2.10	0.010	0.07	<0.1	0.03	1.9	<0.1	<0.05	6	<0.5	<0.2
M111200E	Soil	35	0.29	173	0.089	1	2.10	0.010	0.07	0.1	0.03	2.2	<0.1	<0.05	6	<0.5	<0.2
M111300E	Soil	35	0.28	171	0.097	<1	1.67	0.010	0.04	0.1	0.02	1.4	<0.1	<0.05	6	<0.5	<0.2
M111400E	Soil	33	0.38	231	0.093	<1	2.14	0.013	0.06	<0.1	0.02	2.0	<0.1	<0.05	6	<0.5	<0.2
M111500E	Soil	31	0.30	211	0.085	<1	1.78	0.010	0.05	<0.1	0.03	1.8	<0.1	<0.05	4	<0.5	<0.2
M111600E	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.
M111700E	Soil	26	0.24	124	0.071	<1	1.27	0.010	0.03	<0.1	<0.01	1.4	<0.1	<0.05	4	<0.5	<0.2
M111800E	Soil	23	0.26	130	0.093	<1	1.38	0.013	0.04	<0.1	0.02	2.0	<0.1	<0.05	5	<0.5	<0.2
M111900E	Soil	22	0.26	145	0.092	<1	1.32	0.012	0.04	<0.1	0.02	1.7	<0.1	<0.05	4	<0.5	<0.2
M112000E	Soil	26	0.35	162	0.096	1	1.39	0.017	0.04	0.1	0.03	1.9	<0.1	<0.05	4	<0.5	<0.2
M112100E	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.

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Project: Horsefly
Report Date: September 17, 2011

QUALITY CONTROL REPORT SMI11000217.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	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																					
M21100E	Soil	2.0	72.8	6.5	53	0.4	29.4	8.6	634	3.26	1.7	<0.5	3.4	50	<0.1	0.4	0.1	92	0.63	0.024	12
REP M21100E	QC	2.0	70.7	6.4	52	0.3	29.9	9.0	635	3.36	1.1	<0.5	3.1	49	<0.1	0.4	<0.1	93	0.61	0.026	12
M30700E	Soil	1.1	16.3	3.0	20	<0.1	10.2	7.1	277	1.98	1.3	2.4	1.6	32	<0.1	0.2	<0.1	66	0.42	0.017	5
REP M30700E	QC	1.3	17.3	3.1	20	<0.1	10.5	7.5	285	2.07	1.6	3.1	1.6	33	<0.1	0.2	<0.1	70	0.46	0.017	5
M40800E	Soil	0.8	19.6	4.7	31	<0.1	16.8	7.3	279	2.50	2.3	2.3	1.8	15	<0.1	0.2	<0.1	79	0.18	0.068	5
REP M40800E	QC	0.8	19.7	5.0	31	<0.1	16.3	7.5	276	2.56	2.1	2.0	1.8	14	<0.1	0.2	<0.1	79	0.17	0.070	5
M50200E	Soil	0.5	6.7	4.3	40	0.2	7.7	5.2	543	2.00	1.4	0.6	0.9	19	<0.1	0.1	<0.1	58	0.16	0.212	3
REP M50200E	QC	0.6	6.7	4.6	43	0.2	8.0	5.4	575	2.02	1.3	<0.5	0.8	20	<0.1	<0.1	<0.1	57	0.17	0.240	3
M52000E	Soil	4.4	87.4	3.2	16	<0.1	7.7	4.7	164	1.40	1.8	2.9	1.3	26	<0.1	0.3	<0.1	54	0.31	0.009	5
REP M52000E	QC	4.2	87.3	3.2	16	<0.1	7.4	4.6	164	1.41	1.9	2.6	1.3	26	<0.1	0.3	<0.1	53	0.30	0.008	5
M61000E	Soil	0.5	10.3	2.7	19	<0.1	12.2	5.0	167	1.72	1.1	2.0	1.2	23	<0.1	0.2	<0.1	64	0.32	0.033	6
REP M61000E	QC	0.5	10.8	2.8	19	<0.1	12.4	5.1	173	1.78	1.2	28.1	1.3	23	<0.1	0.2	<0.1	68	0.34	0.033	6
M61800E	Soil	0.9	9.3	5.2	53	0.2	17.7	6.2	174	3.32	1.8	<0.5	1.4	21	<0.1	0.1	0.2	99	0.24	0.208	4
REP M61800E	QC	0.9	8.6	5.4	51	0.2	17.5	6.3	168	3.38	1.7	1.0	1.6	22	<0.1	0.1	0.1	102	0.23	0.200	4
M72100E	Soil	0.7	21.8	5.0	33	<0.1	22.8	9.1	186	2.72	4.3	2.6	1.5	27	<0.1	0.2	<0.1	74	0.31	0.120	4
REP M72100E	QC	0.7	22.0	4.9	34	<0.1	24.4	9.3	189	2.72	4.4	1.0	1.6	27	<0.1	0.3	<0.1	76	0.31	0.122	4
M81200E	Soil	0.5	13.5	4.6	31	0.1	13.6	7.0	217	2.21	2.4	<0.5	1.5	29	<0.1	0.2	<0.1	72	0.31	0.081	6
REP M81200E	QC	0.5	13.1	4.8	31	0.1	13.7	6.7	211	2.17	2.3	1.0	1.4	29	<0.1	0.2	<0.1	69	0.32	0.078	5
M90500E	Soil	0.3	17.3	5.5	39	0.2	19.7	6.8	139	2.83	2.5	2.6	1.6	29	<0.1	0.2	<0.1	63	0.26	0.169	6
REP M90500E	QC	0.4	17.2	5.4	40	0.2	21.0	7.2	154	3.01	2.6	2.4	1.8	33	<0.1	0.2	<0.1	66	0.29	0.174	7
M100400E	Soil	0.3	10.7	8.1	34	<0.1	10.3	4.0	113	1.41	<0.5	2.3	1.0	24	<0.1	0.2	0.1	41	0.21	0.034	5
REP M100400E	QC	0.3	11.2	8.2	35	<0.1	9.3	4.0	110	1.36	0.8	2.1	1.0	23	0.1	0.1	0.1	40	0.20	0.034	5
M101800E	Soil	0.7	10.6	7.4	76	<0.1	13.1	7.2	217	1.81	1.8	2.8	1.6	21	<0.1	0.1	0.1	40	0.17	0.301	5
REP M101800E	QC	0.6	10.3	7.4	76	<0.1	12.2	6.8	215	1.75	1.3	<0.5	1.6	20	0.1	<0.1	0.1	38	0.17	0.290	5
M110400E	Soil	0.4	17.2	5.7	91	0.1	33.0	12.1	282	3.57	2.6	<0.5	1.8	26	0.2	0.2	<0.1	78	0.24	0.263	6
REP M110400E	QC	0.4	16.4	5.6	86	0.1	31.1	11.5	279	3.42	2.8	<0.5	1.7	25	0.1	0.2	<0.1	75	0.23	0.260	6
Reference Materials																					
STD DS8	Standard	12.6	104.1	118.7	300	1.7	36.9	7.0	585	2.40	25.6	114.8	6.3	65	2.0	5.4	6.8	41	0.65	0.076	13

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QUALITY CONTROL REPORT SMI11000217.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	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																	
M21100E	Soil	43	0.45	197	0.125	<1	2.58	0.023	0.10	0.1	0.03	4.5	<0.1	<0.05	7	<0.5	<0.2
REP M21100E	QC	44	0.45	187	0.145	<1	2.45	0.023	0.11	0.2	0.04	4.6	<0.1	<0.05	7	1.0	<0.2
M30700E	Soil	23	0.31	84	0.112	3	0.86	0.022	0.06	<0.1	0.01	2.2	<0.1	<0.05	3	<0.5	<0.2
REP M30700E	QC	25	0.33	82	0.121	1	0.88	0.022	0.07	0.1	0.02	2.3	<0.1	<0.05	3	<0.5	<0.2
M40800E	Soil	27	0.27	93	0.110	2	2.12	0.012	0.03	0.5	0.03	1.8	<0.1	<0.05	6	<0.5	<0.2
REP M40800E	QC	27	0.27	96	0.106	<1	2.19	0.012	0.03	0.5	0.03	1.7	<0.1	<0.05	6	<0.5	<0.2
M50200E	Soil	22	0.10	112	0.052	<1	1.04	0.009	0.03	0.1	0.02	1.1	<0.1	<0.05	5	0.6	<0.2
REP M50200E	QC	22	0.10	119	0.054	<1	1.10	0.009	0.04	0.1	0.03	1.1	<0.1	<0.05	5	0.6	<0.2
M52000E	Soil	18	0.27	108	0.117	<1	0.85	0.016	0.03	0.3	0.02	1.8	<0.1	<0.05	3	<0.5	<0.2
REP M52000E	QC	18	0.26	104	0.115	<1	0.84	0.015	0.04	0.3	0.02	1.7	<0.1	<0.05	3	<0.5	<0.2
M61000E	Soil	21	0.28	73	0.111	1	1.10	0.017	0.03	0.1	<0.01	1.2	<0.1	<0.05	4	<0.5	<0.2
REP M61000E	QC	22	0.28	72	0.117	<1	1.09	0.015	0.03	0.1	<0.01	1.3	<0.1	<0.05	4	<0.5	<0.2
M61800E	Soil	31	0.22	91	0.091	<1	2.06	0.012	0.05	0.2	0.04	1.3	<0.1	<0.05	8	<0.5	<0.2
REP M61800E	QC	32	0.21	87	0.082	<1	1.90	0.012	0.04	0.2	0.04	1.3	<0.1	<0.05	8	<0.5	<0.2
M72100E	Soil	25	0.33	144	0.094	1	2.29	0.014	0.05	0.2	0.03	1.9	<0.1	<0.05	5	<0.5	<0.2
REP M72100E	QC	27	0.35	151	0.093	1	2.31	0.013	0.05	0.2	0.02	1.9	<0.1	<0.05	6	<0.5	<0.2
M81200E	Soil	25	0.27	107	0.103	1	1.40	0.016	0.04	0.1	0.03	1.9	<0.1	<0.05	5	<0.5	<0.2
REP M81200E	QC	25	0.27	105	0.101	1	1.36	0.015	0.03	0.1	0.02	1.7	<0.1	<0.05	5	<0.5	<0.2
M90500E	Soil	28	0.23	125	0.075	1	2.35	0.011	0.04	0.1	0.04	2.3	<0.1	<0.05	7	<0.5	<0.2
REP M90500E	QC	29	0.24	127	0.083	2	2.51	0.012	0.04	0.1	0.05	2.5	<0.1	<0.05	6	<0.5	<0.2
M100400E	Soil	16	0.16	119	0.090	<1	1.22	0.010	0.03	<0.1	0.02	1.2	<0.1	<0.05	7	<0.5	<0.2
REP M100400E	QC	16	0.16	114	0.088	<1	1.19	0.010	0.03	<0.1	0.01	1.3	<0.1	<0.05	6	<0.5	<0.2
M101800E	Soil	20	0.14	160	0.059	<1	1.75	0.009	0.05	<0.1	0.03	1.7	<0.1	<0.05	6	0.7	<0.2
REP M101800E	QC	20	0.13	153	0.053	<1	1.77	0.009	0.05	<0.1	0.03	1.6	<0.1	<0.05	6	<0.5	<0.2
M110400E	Soil	35	0.31	158	0.090	<1	2.33	0.009	0.06	0.2	0.03	2.1	<0.1	<0.05	6	<0.5	<0.2
REP M110400E	QC	33	0.29	151	0.084	<1	2.27	0.008	0.06	0.1	0.04	2.0	<0.1	<0.05	6	<0.5	<0.2
Reference Materials																	
STD DS8	Standard	114	0.59	271	0.110	2	0.86	0.082	0.41	3.0	0.19	2.1	5.1	0.15	4	5.3	4.6

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Project: Horsefly
Report Date: September 17, 2011

QUALITY CONTROL REPORT SMI11000217.1

		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
STD DS8	Standard	12.9	108.2	126.4	303	1.8	36.4	7.7	593	2.39	25.7	116.3	6.9	70	2.3	6.3	6.7	42	0.68	0.079	15
STD DS8	Standard	14.2	109.8	125.5	318	1.8	39.2	7.6	634	2.54	27.3	112.8	7.2	71	2.0	5.9	6.9	45	0.73	0.081	16
STD DS8	Standard	12.9	107.2	118.0	303	1.6	36.6	7.4	591	2.36	24.5	111.0	6.4	61	2.0	5.1	6.1	41	0.66	0.079	14
STD DS8	Standard	13.8	117.5	124.8	328	1.9	39.0	7.7	619	2.53	27.3	117.1	7.2	66	2.2	5.7	7.0	42	0.70	0.083	15
STD DS8	Standard	12.6	105.7	126.5	313	1.9	37.9	7.4	595	2.74	25.0	118.7	6.8	61	2.5	5.0	6.3	41	0.69	0.081	14
STD DS8	Standard	14.2	103.0	127.5	338	1.8	39.4	7.1	635	2.54	21.7	109.5	6.1	64	2.0	4.6	5.9	41	0.73	0.070	15
STD DS8	Standard	12.1	100.8	129.2	321	2.0	34.3	7.1	611	2.82	26.0	131.0	6.5	59	2.2	5.2	6.3	41	0.68	0.081	13
STD DS8	Standard	13.6	111.5	131.8	312	1.9	39.0	7.9	641	2.55	25.5	118.6	7.0	68	2.3	5.3	7.0	44	0.69	0.084	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
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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QUALITY CONTROL REPORT SMI11000217.1

		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
STD DS8	Standard	116	0.59	280	0.122	1	0.91	0.090	0.40	3.0	0.20	2.0	5.2	0.14	5	4.9	5.3
STD DS8	Standard	124	0.63	279	0.129	3	0.95	0.093	0.44	3.0	0.18	2.3	5.4	0.17	5	5.1	5.1
STD DS8	Standard	117	0.59	260	0.111	3	0.88	0.080	0.38	2.8	0.19	1.9	5.3	0.14	5	5.1	4.4
STD DS8	Standard	119	0.62	277	0.121	2	0.91	0.085	0.41	3.0	0.19	2.2	5.6	0.14	5	5.7	4.9
STD DS8	Standard	114	0.55	276	0.112	1	0.88	0.085	0.40	3.0	0.21	2.2	5.4	0.07	5	5.7	4.4
STD DS8	Standard	128	0.62	246	0.128	2	0.91	0.080	0.39	3.1	0.21	1.7	5.5	0.19	5	5.1	5.1
STD DS8	Standard	109	0.58	264	0.102	2	0.86	0.081	0.42	2.8	0.21	2.0	5.7	0.15	5	6.0	5.5
STD DS8	Standard	122	0.61	275	0.123	3	0.93	0.085	0.42	2.9	0.20	2.1	5.6	0.18	5	5.4	5.0
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
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

Appendix D:
Laboratory Procedures and Standards Certification

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CARECOMMITMENTPERFORMANCE

METHOD SPECIFICATIONS
GENERAL SAMPLE PREPARATION METHODS

Receiving: Samples arrive via courier, post or by client drop-off; shipment inspected for completeness.

Sorting and Inspection: Samples sorted and inspected for quality of use (quantity and condition). Pulp samples inspected for homogeneity and fineness.

SOILS

SS80, S230, SSXX Drying and Sieving: Wet or damp soil samples are dried at 60°C (Air dried or 40°C if specified by the client). Soil and sediment sieved to -80 mesh (SS80) or -230 mesh (S230), unless client specifies otherwise (SSXX). Sieves cleaned by brush and compressed air between samples.

SP100, SCP100 Pulverizing: Soils are pulverized to -100 mesh ASTM with an option of using a mild-steel pulverizer (SP100) or a ceramic pulverizer (SCP100), per 100g.

ROCKS AND DRILL CORE

R200-250, R200-500, R200-1000: Rock and Drill Core crushed to 80% passing 10 mesh (2 mm), homogenized, riffle split (250g, 500g, or 1000g subsample) and pulverized to 85% passing 200 mesh (75 microns). Crusher and pulverizer are cleaned by brush and compressed air between routine samples. Granite/Quartz wash scours equipment after high-grade samples, between changes in rock colour and at end of each file. Granite/Quartz is crushed and pulverized as first sample in sequence and carried through to analysis.

P200, PSCB: Samples requiring pulverizing only are dried at 60°C and pulverized to 85% passing 200 mesh (75 microns), using a mild-steel pulverizer (P200), per 250g or a ceramic pulverizer (PSCB), per 100g.

M150, M200s: Rock and Drill Core are crushed, pulverized and sieved, save +150 and -150 mesh fractions (M150) or +200 and -200 mesh fractions (M200) for metallic Au or Cu analysis. Typically 500g samples are sieved.

HPUL: Rock and Drill Core are pulverized by using a mortar and pestle.

VEGETATION

PM1: Plant material is dried then milled to 1mm

VA475: Up to 0.1 kg of wet vegetation is ashed by heating to 475°C.

WWSH: Plant samples are washed with Type-1 water then dried at 60°C prior to analysis, per 100g.

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METHOD SPECIFICATIONS
GROUP 1D AND 1F – GEOCHEMICAL AQUA REGIA DIGESTION

Package Codes: 1D01 to 1D03, 1DX1 to 1DX3, 1F01 to 1F07
Sample Digestion: HNO3-HCl acid digestion
Instrumentation Method: ICP-ES (1D), ICP-MS (1DX, 1F)
Applicability: Sediment, Soil, Non-mineralized Rock and Drill Core

Method Description:

Prepared sample is digested with a modified Aqua Regia solution of equal parts concentrated HCl, HNO3 and DI H2O for one hour in a heating block of hot water bath. Sample is made up to volume with dilute HCl. Sample splits of 0.5g, 15g or 30g can be analyzed.

Element	Group 1D Detection	Group 1DX Detection	Group 1F Detection	Upper Limit
Ag	0.3 ppm	0.1 ppm	2 ppb	100 ppm
Al*	0.01%	0.01%	0.01%	10%
As	2 ppm	0.5 ppm	0.1 ppm	10000 ppm
Au	2 ppm	0.5 ppb	0.2 ppb	100 ppm
B*^	20 ppm	20 ppm	20 ppm	2000 ppm
Ba*	1 ppm	1 ppm	0.5 ppm	10000 ppm
Bi	3 ppm	0.1 ppm	0.02 ppm	2000 ppm
Ca*	0.01%	0.01%	0.01%	40%
Cd	0.5 ppm	0.1 ppm	0.01 ppm	2000 ppm
Co	1 ppm	0.1 ppm	0.1 ppm	2000 ppm
Cr*	1 ppm	1 ppm	0.5 ppm	10000 ppm
Cu	1 ppm	0.1 ppm	0.01 ppm	10000 ppm
Fe*	0.01%	0.01%	0.01%	40%
Ga*	-	1 ppm	0.1 ppm	1000 ppm
Hg	1 ppm	0.01 ppm	5 ppb	50 ppm
K*	0.01%	0.01%	0.01%	10%
La*	1 ppm	1 ppm	0.5 ppm	10000 ppm
Mg*	0.01%	0.01%	0.01%	30%
Mn*	2 ppm	1 ppm	1 ppm	10000 ppm
Mo	1 ppm	0.1 ppm	0.01 ppm	2000 ppm
Na*	0.01%	0.001%	0.001%	5%
Ni	1 ppm	0.1 ppm	0.1 ppm	10000 ppm
P*	0.001%	0.001%	0.001%	5%
Pb	3 ppm	0.1 ppm	0.01 ppm	10000 ppm
S	0.05%	0.05%	0.02%	10%

Element	Group 1D Detection	Group 1DX Detection	Group 1F Detection	Upper Limit
Sb	3 ppm	0.1 ppm	0.02 ppm	2000 ppm
Sc	-	0.1 ppm	0.1 ppm	100 ppm
Se	-	0.5 ppm	0.1 ppm	100 ppm
Sr*	1 ppm	1 ppm	0.5 ppm	10000 ppm
Te	-	0.2 ppm	0.02 ppm	1000 ppm
Th*	2 ppm	0.1 ppm	0.1 ppm	2000 ppm
Ti*	0.01%	0.001%	0.001%	5%
Tl	5 ppm	0.1 ppm	0.02 ppm	1000 ppm
U*	8 ppm	0.1 ppm	0.05 ppm	2000 ppm
V*	1 ppm	2 ppm	2 ppm	10000 ppm
W*	2 ppm	0.1 ppm	0.05 ppm	100 ppm
Zn	1 ppm	1 ppm	0.1 ppm	10000 ppm
Be*	-	-	0.1 ppm	1000 ppm
Ce*	-	-	0.1 ppm	2000 ppm
Cs*	-	-	0.02 ppm	2000 ppm
Ge*	-	-	0.1 ppm	100 ppm
Hf*	-	-	0.02 ppm	1000 ppm
In	-	-	0.02 ppm	1000 ppm
Li*	-	-	0.1 ppm	2000 ppm
Nb*	-	-	0.02 ppm	2000 ppm
Rb*	-	-	0.1 ppm	2000 ppm
Re	-	-	1 ppb	1000 ppb
Sn*	-	-	0.1 ppm	100 ppm
Ta*	-	-	0.05 ppm	2000 ppm
Y*	-	-	0.01 ppm	2000 ppm
Zr*	-	-	0.1 ppm	2000 ppm
Pt*	-	-	2 ppb	100 ppm
Pd*	-	-	10 ppb	100 ppm
Pb_{204}	-	-	0.01 ppm	10000 ppm
Pb_{206}	-	-	0.01 ppm	10000 ppm
Pb_{207}	-	-	0.01 ppm	10000 ppm
Pb_{208}	-	-	0.01 ppm	10000 ppm

* Solubility of some elements will be limited by mineral species present.
^Detection limit = 1 ppm for 15g / 30g analysis.

Limitations:

Au solubility can be limited by refractory and graphitic samples.

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CARECOMMITMENTPERFORMANCE

ISO 9001:2008
FM 63007

CERTIFICATE OF ANALYSIS

DS8

Internal Reference Material for Geochem Aqua Regia Digestion

ELEMENT	Expected Value (ppm)	1D Tolerance ± (%)	1DX Tolerance ± (%)	1F Tolerance ± (%)
Au	0.107	BDL	28	27
Ag	1.69	46	27	15
Al	9300	17	17	17
As	26	25	19	16
B	2.6	BDL	167/BDL	167/BDL
Ba	279	15	15	15
Bi	6.67	100	18	16
Ca	7000	18	18	18
Cd	2.38	52	23	16
Co	7.5	37	18	18
Cr	115	17	17	17
Cu	110	15	15	15
Fe	24600	16	16	16
Ga	4.7	95	58	19
Hg	0.192	BDL	25	20
K	4100	20	20	20
La	14.6	36	36	29
Mg	6045	18	18	18
Mn	615	16	15	15
Mo	13.44	25	16	15
Na	883	33	27	27
Ni	38.1	16	16	16
P	800	18	18	18
Pb	123	15	15	15
S	1679	15	15	15
Sb	4.8 – 5.7†	135	23	20
Sc	2.3	BDL	50	40
Se	5.23	-	34	19
Sr	67.7	20	20	20
Te	5	-	60	16
Th	6.89	68	18	18
Ti	1130	28	20	20
Tl	5.4	195	19	16
U	2.8	BDL	22	19
V	41.1	25	25	25
W	3	143	22	18
Zn	312	15	15	15

ELEMENT	Expected Value	1F Tolerance ± (%)
Optional Elements		
Be	5.2	25
Ce	29.8	27
Cs	2.48	17
Ge	0.13	169
Hf	0.08	65
In	2.19	17
Li	26.34	21
Nb	1.1 - 1.6†	41
Rb	38.97	16
Re	0.055	30
Sn	6.7	18
Ta	0.01	BDL
Y	6.1	24
Zr	2.1 – 2.3†	24
Pt	0.339	16
Pd	0.110	33
Dy	1.05	31
Er	0.57	31
Eu	0.31	38
Gd	1.29	36
Ho	0.2	35
Lu	0.09	60
Nd	10.6	28
Pr	2.87	28
Sm	1.65	31
Tb	0.18	37
Tm	0.08	65
Yb	0.57	29

Note: All units are reported in ppm. Values are subject to change upon additional testing. Any one element in a run reporting outside tolerance limits does not constitute failure of the standard.

† Values dependent on sample size selected. First number represents mean for 0.5g digestions, second number for 15 and 30g digestions.

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CERTIFICATE OF ANALYSIS
WCM MINERALS
CU 184

Copper, Molybdenum, Silver, Gold Reference Material

LAB	LAB 4	LAB 4	LAB 4	LAB 4	LAB 5	LAB 5	LAB 5	LAB 5	LAB 6	LAB 6	LAB 6	LAB 6
Replicate	**Cu %**	**Mo %**	**Ag g/t**	**Au g/t**	**Cu %**	**Mo %**	**Ag g/t**	**Au g/t**	**Cu %**	**Mo %**	**Ag g/t**	**Au g/t**
1	0.190	0.039	13.7	0.21	0.198	0.0413	12.5	0.184	0.1865	0.0387	12.5	0.22
2	0.190	0.038	13.5	0.20	0.194	0.0416	12.5	0.192	0.1845	0.0397	12.9	0.22
3	0.185	0.038	13.6	0.19	0.199	0.0425	12.0	0.200	0.1880	0.0390	12.2	0.20
4	0.190	0.039	13.2	0.19	0.190	0.0424	12.0	0.215	0.1917	0.0404	13.6	0.18
5	0.194	0.040	13.5	0.20	0.196	0.0434	13.0	0.199	0.1879	0.0397	13.0	0.19
6	0.185	0.037	13.2	0.19	0.192	0.0447	13.0	0.185	0.1852	0.0390	13.0	0.21
Average	0.1888	0.0385	13.446	0.1967	0.1948	0.0427	12.500	0.1958	0.1873	0.0394	12.867	0.2033
Std Dev.	0.0036	0.0010	0.2145	0.0082	0.0035	0.0012	0.4472	0.0115	0.0026	0.0006	0.4803	0.0163
Average T	0.1918	0.0399	12.618	0.1948								
Std Dev.	0.0040	0.0020	0.7649	0.0147								
Recommended	**Cu %**	**Mo %**	**Ag g/t**	**Au g/t**								
Value	**0.192**	**0.040**	**13**	**0.19**								

Country of Origin - Canada

Lloyd Twaites Glen Armanini
Registered Assayers, Province of British Columbia

WCM Sales Ltd., 7729 Patterson Avenue, Burnaby, BC, Canada, V5J 3P4
Phone: 604-437-0280
E-mail: WCMminerals@telus.net Web-site: www.WCMminerals.ca

CERTIFICATE OF ANALYSIS
WCM MINERALS
CU 184

Copper, Molybdenum, Silver, Gold Reference Material

LAB	LAB 1	LAB 1	LAB 1	LAB 1	LAB 2	LAB 2	LAB 2	LAB 2	LAB 3	LAB 3	LAB 3	LAB 3
Replicate	**Cu %**	**Mo %**	**Ag g/t**	**Au g/t**	**Cu %**	**Mo %**	**Ag g/t**	**Au g/t**	**Cu %**	**Mo %**	**Ag g/t**	**Au g/t**
1	0.196	0.039	11	0.20	0.193	0.039	12	0.18	0.195	0.040	12.7	0.19
2	0.197	0.039	12	0.21	0.195	0.039	11	0.20	0.194	0.040	13.3	0.17
3	0.196	0.039	12	0.19	0.193	0.038	12	0.21	0.190	0.040	13.1	0.17
4	0.194	0.042	13	0.21	0.189	0.038	12	0.17	0.188	0.039	12.5	0.19
5	0.193	0.046	14	0.21	0.190	0.038	12	0.19	0.198	0.040	13.1	0.17
6	0.194	0.039	11	0.22	0.191	0.038	12	0.17	0.193	0.040	12.8	0.18
Average	0.1950	0.0407	12.167	0.2067	0.1918	0.0383	11.833	0.1868	0.1929	0.0396	12.894	0.1793
Std Dev.	0.0015	0.0029	1.1690	0.0103	0.0022	0.0005	0.4082	0.0149	0.0036	0.0004	0.3118	0.0091
Average T	0.1918	0.0399	12.618	0.1948								
Std Dev.	0.0040	0.0020	0.7649	0.0147								
Recommended	**Cu %**	**Mo %**	**Ag g/t**	**Au g/t**								
Value	**0.192**	**0.040**	**13**	**0.19**								

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CERTIFICATE OF ANALYSIS

WCM MINERALS

BL 115

Blank Reference Material

N0.	LAB 1	LAB 1	LAB 1	LAB 1	LAB 1	LAB 1	LAB 1	LAB 1	LAB 2	LAB 2	LAB 2	LAB 2	LAB 2	LAB 2	LAB 2	LAB 2
	Au ppb	Ag ppm	Cu ppm	Mo ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Au ppb	Ag ppm	Cu ppm	Mo ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm
1	<5	<0.2	27	9	<2	26	12	3	<10	<0.3	26	9	<3	26	13	<1
2	<5	<0.2	28	9	2	26	12	3	<10	<0.3	26	9	<3	26	13	<1
3	<5	<0.2	28	9	<2	26	13	3	<10	<0.3	26	9	<3	26	13	<1
4	<5	<0.2	27	9	<2	25	13	3	<10	<0.3	26	10	<3	27	13	<1
5	<5	<0.2	27	9	2	26	13	3	<10	<0.3	26	9	<3	27	13	<1
6	<5	<0.2	27	9	<2	26	13	3	<10	<0.3	26	9	<3	26	12	<1
7	<5	<0.2	27	9	<2	26	13	3	<10	<0.3	26	10	<3	27	14	1
8	<5	<0.2	27	9	<2	25	12	3	<10	<0.3	26	9	<3	26	13	<1
9	<5	<0.2	28	9	3	27	13	3	10	<0.3	26	10	<3	26	13	<1
10	<5	<0.2	27	9	<2	26	12	3	<10	<0.3	26	9	<3	26	13	<1
Rpt.	**Au ppb**	**Ag ppm**	**Cu ppm**	**Mo ppm**	**Pb ppm**	**Zn ppm**	**Ni ppm**	**Co ppm**								
Av.	**<10**	**<0.3**	**27**	**9**	**<3**	**26**	**13**	**2**								

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