ASSESSMENT REPORT TITLE PAGE AND SUMMARY

TITLE OF REPORT: ASSESSMENT REPORT, Q Claims (Eaglet Property)

TOTAL COST: $32,300

AUTHOR(S): ZDENEK D. HORA, M.SC., P.GEO., BRENDA CLARK, MAIBC

SIGNATURE(S):

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): N/A
STATEMENT OF WORK EVENT NUMBER(S)/DATE(S): N/A

YEAR OF WORK: 2012-13

PROPERTY NAME: **Q** (EAGLET)

CLAIM NAME(S) (on which work was done):

Q (401809), QE (550469), QS (550512), QER (550514)

COMMODITIES SOUGHT: Fluorspar CaF2, Molybdenite MoS2, Ag

MINERAL INVENTORY MINFILE NUMBER(S),IF KNOWN: 093A 046

MINING DIVISION: Cariboo
NTS / BCGS: 093A/10W
LATITUDE: 52° 33'
LONGITUDE: 121° 00' (at centre of work)
UTM Zone: EASTING: NORTHING:

OWNER(S): Freeport Resources Inc.
MAILING ADDRESS:

8711 Elsmore Road
Richmond BC Canada V7C 2A4
Tel 604 275 7335

OPERATOR(S) [who paid for the work]: Freeport Resources Inc.
MAILING ADDRESS: As above

REPORT KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude. **Do not use abbreviations or codes**)
Quesnel gneiss, Fluorspar, Molybdenite, potassic alteration, Pb-Zn-Ag

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:

05639 (1975), 09515 (1981), 23594 (1994), 27823 (2005), 29879 (2008), 31329 (2009)

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (in metric units)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping			
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for …)			
Rock/pulp	506 F (Specific Ion)	Q (401809)	$10,507
Rock/pulp	126 ICP 55 elements	Q (401809)	$4,040
Rock/pulp	126 ICP 55 elements	Q (401809)	$375
DRILLING (total metres, number of holes, size, storage location)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling / Assaying		Q (401809)	$5,723
Petrographic		Q (401809)	$5,723
Mineralogical		Q (401809)	$5,723
Metallurgic			
PROSPECTING (scale/area)			
PREPATORY / PHYSICAL			
Line/grid (km)			
Topo/Photogrammetric (scale, area)			
Legal Surveys (scale, area)			
Road, local access (km)/trail			
Trench (number/metres)			
Underground development (metres)			
Other			
		TOTAL COST	**$32,300**

ASSESSMENT REPORT
EAGLET PROPERTY
Geological Report

Molybdenite Studies
And Fluorspar Assay Data From Adit 2

Q CLAIMS (Eaglet Property)
Tenure Numbers 401809, 550469
550512, 550514

Cariboo Mining Division

N.T.S Map Area 93A-10W

Latitude 52°33’ north

Longitude 121°00’ west

Minfile Number **093A 046**

For:

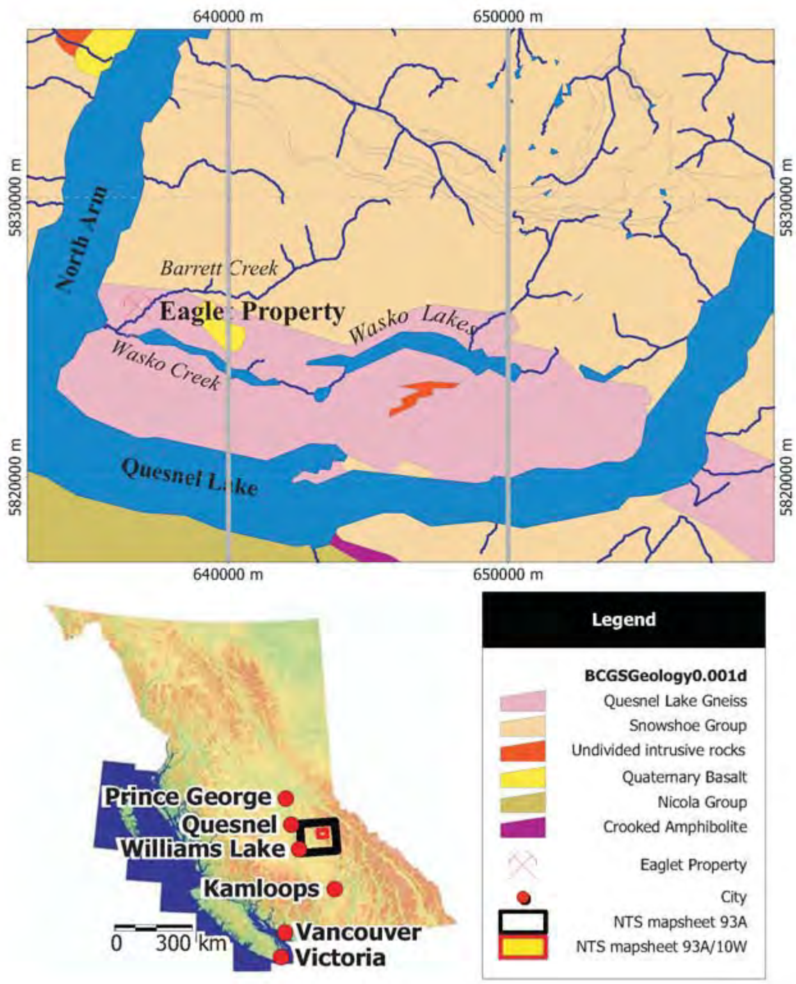
FREEPORT RESOURCES INC.
8711 Elsmore Road
Richmond, B.C. V7C 2A4

By:

Zdenek D. Hora, M.Sc., P.Geo.
Brenda Clark, AIBC Architect

July 1, 2014

Figure 1. Property Location Map



View of Eaglet from Quesnel Lake, 1980's (Eaglet Mines photo)

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B **Eaglet deposit – Molybdenite Re – Os dating**
Dr. Holly J. Stein, AIRIE Program
Department of Geosciences, Colorado State University,
Fort Collins, CO

C **Sulfur Isotope Study**
RNDr Karel Zak, CSc
Institute of Geology, Academy of Sciences of the Czech Republic
Prague, Czech Republic

D **Fluorite fluid inclusions study, Eaglet property, British Columbia**
RNDr Petr Dobeš CSc, Czech Geological Survey
Prague, Czech Republic

E **Sample Lists & Information**

F **Assay Data**

Assay Certificates

CaF_2
(Boxes 1 portal, 2-3, 3-4, 4-5, 6, 7-8, 9-10, 11 end of adit,
Bags 1-8 random samples)

ICP & REE
(Boxes 3-4, 6, 7-8, 11 end of adit)

1.0 Introduction

The primary purpose of this report is to report recent mineralogical findings related to molybdenite at the Q claims, Eaglet Property, B.C. The studies were conducted at several international laboratories (Colorado State University at Lake Collins, Czech Geological Survey, and the Institute of Geology, Academy of Sciences of the Czech Republic, Prague) -- see Appendices B, C and D). They included rhenium-osmium dating, evaluation of sulphur isotopes and fluid inclusions in molybdenite. The work has shown molybdenite is considerably older than the two known ages of commercial MoS2 deposits in B.C. For this reason, it is believed that the Eaglet is unlikely to be a classical molybdenite porphyry system, and should be looked at from a completely different perspective. MoS2 is still an exploration target.

This report also incorporates new CaF2 assay data for just over 500 Adit 2 pulp samples. Due to previous elevated Niobium results in random samples, about 200 pulps were analyzed by ICP for rare earth elements (REE). This work is complementary to the previous assessment report which focused primarily on distribution of molybdenite in Adit 2.

Overview

The Q Claims are located in the Cariboo region of central B.C. They are accessed by road from William's Lake through Horsefly to the south shore of Quesnel Lake, and then by boat to the site. In recent times, logging roads from Likely have been extended and it is believed that construction of one small bridge at the head of the north arm of Quesnel Lake would result in road access to the claim area.

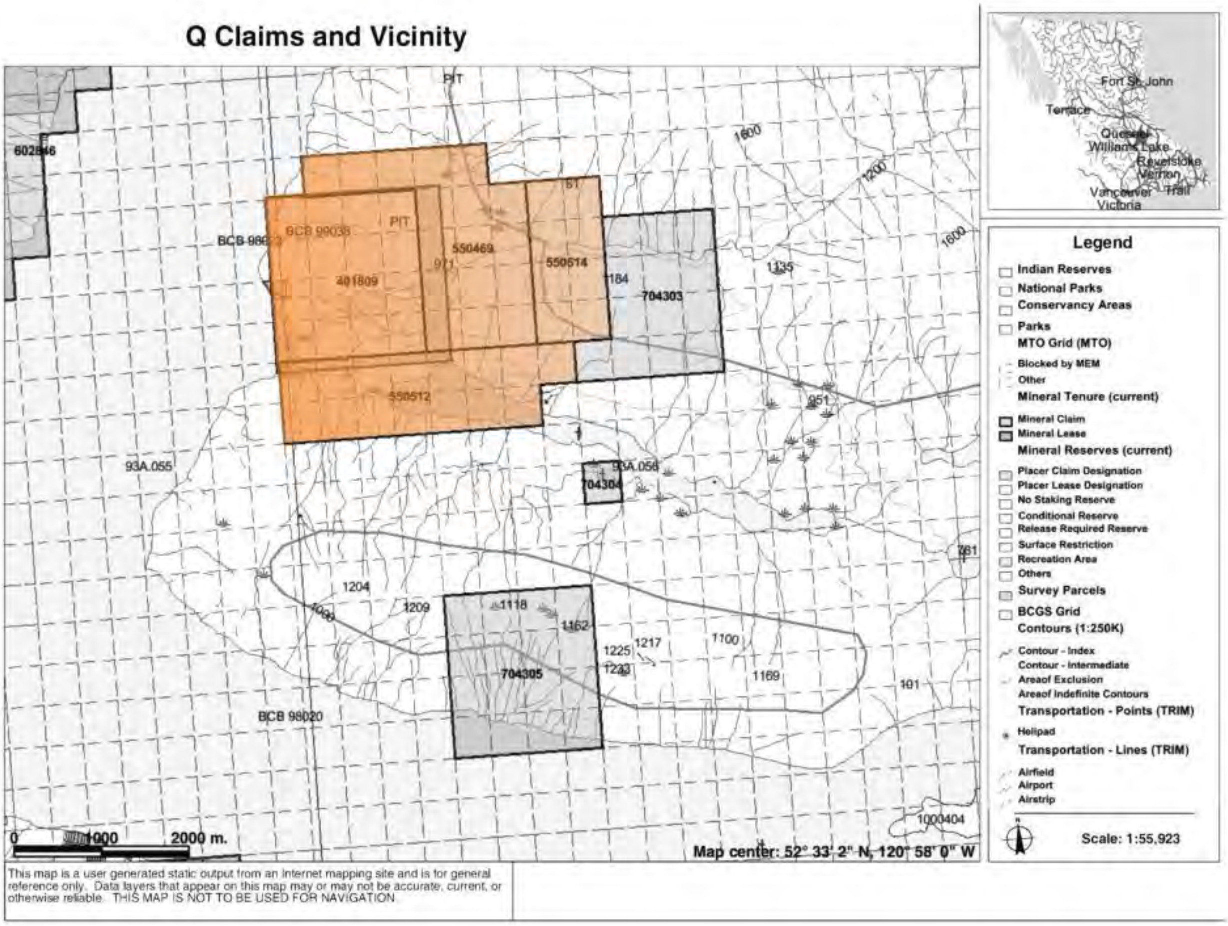
The Q is a well known fluorspar deposit, based on extensive work in the 1970's and 80's. It has value as a potentially large source (compared to most deposits) of acid grade fluorspar (CaF_2) with co-product silver, lead and molybdenum. It is similar in size and grade to some advanced stage deposits under evaluation for development in Europe, such as the Storuman fluorspar project in Sweden (Indicated Resources of 25 million tonnes of 10.28% CaF_2, with 2.7 million tonnes of 9.57% CaF_2 Inferred, Tertiary Minerals, June 2011). Freeport identified two large molybdenite zones in Adit 2 in previous work, and MoS2 remains an exploration target.

2.0 Exploration Background

Fluorite showings on the Eaglet site have been known since 1947. The Barrett Creek canyon fluorite showings were staked in 1947 by H Forster of Kamloops. A few scattered shallow trenches were dug in 1965. The following year, Canex Aerial Exploration Ltd, later Placer Development Ltd., optioned the property and conducted trenching, geochemical soil sampling and percussion drilling. The option was cancelled in 1967.

Extensive exploration took place again at the property between 1973 and 1984. This work outlined presence of mineralization over an area of approximately 1500 by 900 metres.

Figure 2. Claim Map



View from Quesnel Lake over claims to Adit 1, Adit 2 and Barrett Creek canyon

In 1985, Eaglet Mines hired Dr. Peter Read to undertake a structural study of the deposit to understand better the distribution of mineralized zones. After completing the fieldwork, the analyses of collected data did not proceed and work remained uncompleted. After being purchased by Freeport Resources, the structural data generated by Dr. Read was compiled into a digital database.

Eaglet Mines filed three assessment reports during this period - No. 5639 dated September 26^{th}, 1975, No. 9515 dated April 22, 1981, and No. 10,447 dated May 4, 1982. After that time, commodity prices underwent significant changes. From 1984 to 1985, international fluorspar prices decreased almost 50% from US$ 130-210/metric tonne to US$ 72-115/metric tonne. Between 1980 and 1983, molybdenum prices decreased from US $25/kilogram to below US $10/kilogram. Some claims lapsed in 1990 and 1991, with the remainder in 1997.

During the course of exploration to 1984, a total of 126 surface drill holes measuring 19,687 metres were completed. In addition, two adits, No. 1 of 292 metres and No. 2 of 373 metres, were driven to test the mineralization underground. Nine flat holes totalling 1,525 metres were drilled from No. 1 Adit. This work identified a higher grade mineralized area around the northeast arm of Adit 2, as shown in the adit as well as a number of DDH around it.

The available data from previously filed assessment reports is very incomplete and a considerable amount of the information generated by the work remains unavailable. From the 1975 program of 9 drill holes, no logs were filed and only some samples were analyzed for CaF_2 only (Assessment Report 5639). The seven underground drill holes completed in 1980 in adit # 1 are not documented at all. However, an extensive set of samples is available in the chip shed, including all the underground holes as well as most surface drill holes from S1-81 up to S102/83, as well as comprehensive samples from Adit 2.

In 1981, Eaglet Mines drilled forty vertical drill holes. Only S1 to S8 have reported logs and CaF_2 and Ag assay results (Assessment Report 9515). Drill holes completed during 1982 and 1983 season have available information on CaF_2 and Ag assay results, but drill hole logs have been reported for nine holes only (S41 to S49). In total, 54 drill holes (S50 to S104) are lacking any core description from geological staff. There is no documented assay data from Adits #1 and #2, and no Mo data is available in spite of the fact that parts of Adit 2 were driven to outline a Mo mineralized zone and a processing test to produce a commercial grade molybdenum concentrate was carried out in the Kamloops laboratory.

In 1984, Eaglet Mines published mineral reserve estimates of 24,000,000 tonnes of fluorite ore, averaging 11.5% CaF_2 with silver, molybdenum and lead by-products. The estimate included probable “drill indicated” economic mineralization of 11,000,000 tonnes and inferred economic mineralization of 13,000,000 tonnes of fluorite ore. These historical estimates have not been verified by Freeport, and predate the 43-101 document.

According to Eaglet Mines Ltd. data, eight distinct flat-lying lenticular zones mineralized with fluorite and accessory silver, molybdenum, and lead were defined, varying in thickness from 3 to 30 metres, with an average of 8 metres. According to geologists J.C. Ball and J.J.

Figure 3. Section A-A (Hora et al.2008, reinterpreted after Eaglet Mines,1989)

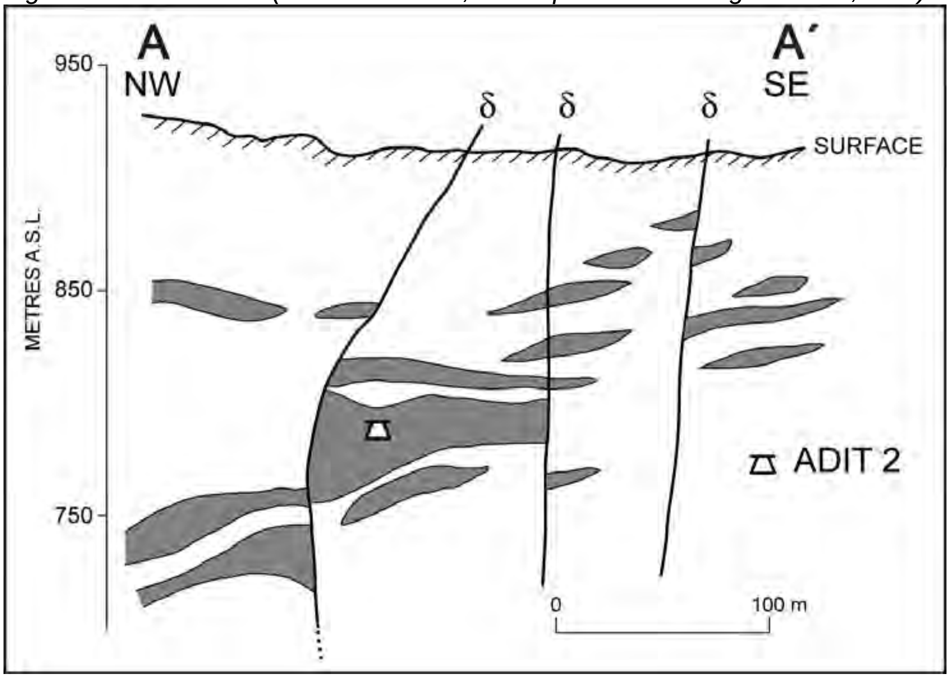
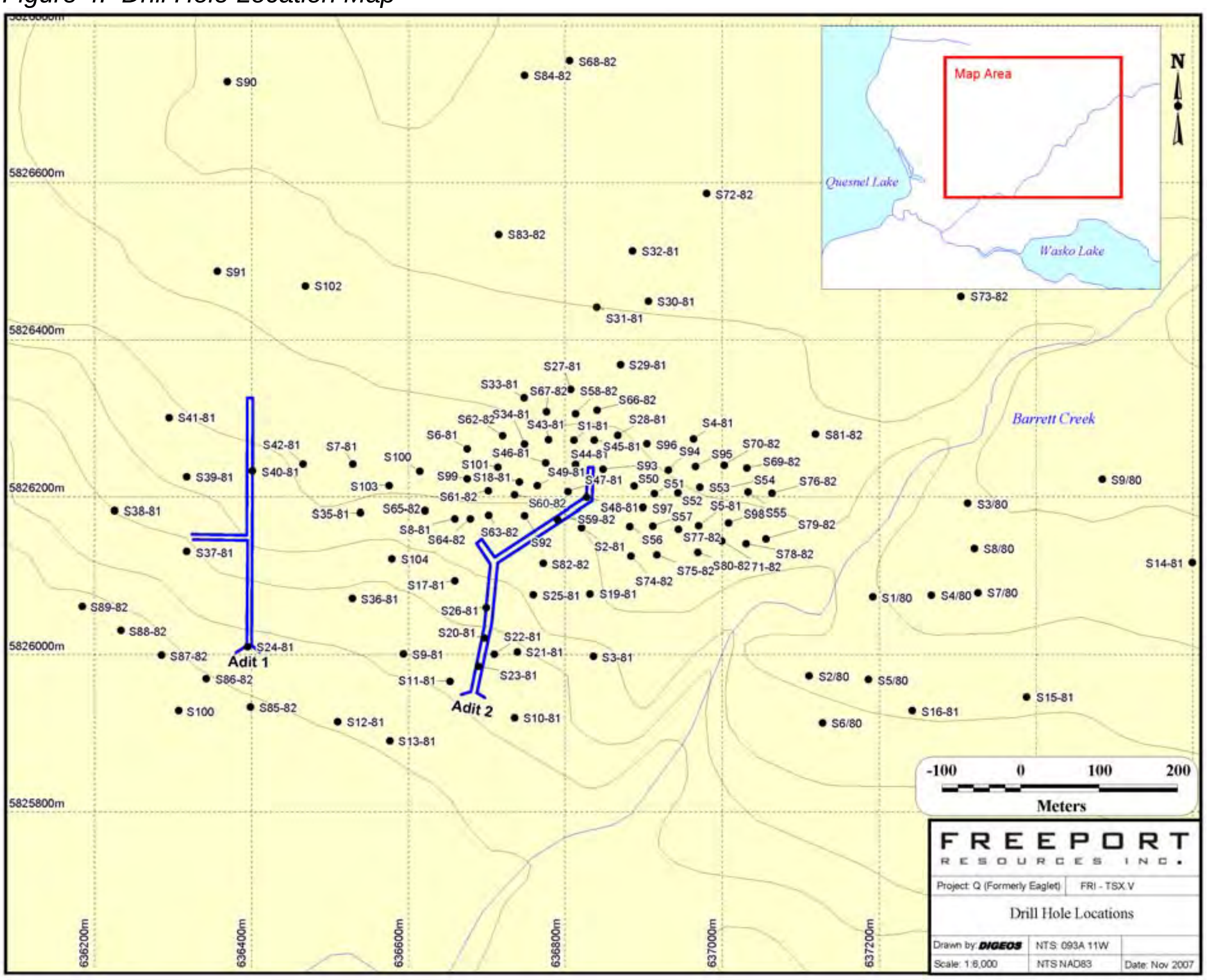


Figure 4. Drill Hole Location Map



McDougall, silver is commonly present in amounts up to 1 ounce per ton (with a maximum of 15 ounces) in individual samples, occurring with lead in visible galena in zones up to 30 cm wide within the area of higher grade fluorite mineralization in Adit 2. Zones up to 3 metres wide assayed 0.5 oz/ton silver and 1% lead. Tungsten reported as minor scheelite and wolframite in mineralized zones has not been confirmed by analytical and other laboratory studies by Freeport.

In spite of early suggestions of similarity to porphyry mineralization systems, it is believed that fluorite and silver were consistently the primary focus in all collected samples and assaying for other minerals with economic potential was either very limited or not recorded. It is known from review of unpublished Eaglet Mines data that a commercial grade molybdenum concentrate was prepared from ore from Adit #2 in 1984. Molybdenite was previously unknown at this property and commercially interesting concentrations were encountered rather unexpectedly during the driving of Adit #2.

Metallurgical work described in the press release of July 1984 reported successful conclusion of a sink-float step before concentration of fluorspar and further flotation of sulphide minerals. Fluorspar recovery was of 87 to 89 % and of molybdenite in the 85% range -- commercial grade concentrates of CaF_2 and molybdenite Later that year, the Preliminary Feasibility Study completed by Kilborn Engineering (B.C.) Ltd. concluded the proposed 5000 tonnes per day underground operation was not viable with an acidspar price under $167.00 US (October 1984) -- an appreciable increase in fluorspar price was the most important prerequisite to mine viability.

Exploration work stopped with the end of 1984 and the property was partly abandoned in 1991, and entirely in 1997. In summary, Adit #1 has no available data and is not presently accessible. Diamond drill holes from that Adit were drilled horizontally and therefore do not give an accurate spatial distribution of the low angle fluorite sheets. Only Adit 2 gives some idea of the third dimension, but also does not prove or disprove the theory of flat-lying lenses, as fluorite and silver do not appear to have been analyzed systematically.

3.0 Work by Freeport

The property was first staked by Freeport Resources Inc. from May to July 1994 to cover the outlined fluorite zones. The claims were recently restaked in April 2003, with a digital GPS survey completed. The most recent claims were staked in January 2007 as a result of favourable analytical results. Current holdings are as follows:

Tenure number	Claim name	Date recorded	Owner
401809	Q	April 11, 2003	Freeport Resources Inc.
550469	Q East	Jan. 27, 2007	Freeport Resources Inc.
550512	Q South	Jan. 28, 2007	Freeport Resources Inc.
550514	Q East R	Jan. 28, 2007	Freeport Resources Inc.

Since Eaglet Mines abandoned the property, work by Freeport Resources Inc. commenced with a property visit in 1994, with selective mapping and sampling of Adit Number 2. Physical work included rehabilitation of the access road, drill core and chip shed storage, as well as shoring the entry portal of Adit #2. In 1996, geological surveying took place, to locate existing drill hole collars and platforms, and drill core was examined and sampled.

Assessment reports were filed by Freeport in 1994, 1996, 2005 2008 and 2010. The 1994 report, by JJ McDougall et al., reviews exploration results from 1973 to 1984, with recommendations for a proposed exploration program. The 2005 report summarized initial analytical results for pulps retrieved from the property, as well as structural mapping of Adit 2 and drill logs by Dr. Peter Read which were entered into a digital database. This report is a supplement to the previous report, summarizing work at the site, commencement of a digital database, as well as metallurgical, mineralogical and petrographic studies -- 2 published as BCGS reports -- and presented schematic fracture diagrams based on high resolution digital imagery. It is a summary of ongoing analytical work on pulp samples

Two adits and in total 135 diamond drill holes were completed by previous owners in the course of exploring the property. To process core samples and those from channel sampling from the adit walls, a small laboratory was built on the site. In the lab, the core was split, crushed and ground by laboratory standards. The resulting pulps were shipped for assays to the Kamloops Research & Assay Laboratory Ltd.

When Freeport acquired the property, a variety of pulp samples were still stored inside the lab shed in good condition, protected from the weather and well labeled in many cardboard boxes. These include 189 samples processed from the 1983 drill program (DDH S59, S92-S104), as well as 11 boxes of pulp samples from the ribs and rounds of Adit 2. The pulps were stored in small paper bags with approximately 200 grams of ground sample each, preserved in excellent condition. A shed housing chip samples from most drill holes and the adits is also located on site. These samples are available for further analyses and study.

Freeport retrieved and has since stored off-site over 500 preserved pulp samples from the 1983-1985 drilling programs and which were left in the on-site lab. A number of representative split drill core samples were also collected for analysis. The pulps and core samples were then sent to several commercial laboratories for ICP 31 and 34 elements analyses, REE, gold fire assays and whole rock analyses. The labs include Assayers Canada (Min-En Labs), ACME Analytical Laboratories Ltd., and Chemex Laboratory in Vancouver. These samples were sent for ICP 31 and 34 elements analyses, and some were also analyzed for fluorine and converted to CaF_2 This includes all the drill hole pulps and a limited number of samples from Adit 2. This work gives a good picture of distribution of a variety of different types of mineralization at the property.

Other work previously reported by Freeport includes review of sixty drill holes initially logged in 1984 and 1985 by structural geologist Dr. Peter Read, and compilation into a comprehensive digital database for further work and analysis. The digital database of the logging work was previously submitted for assessment credits.

The 2010 report summarizes comprehensive MoS2 analytical data and results. This report is a follow-up to it and two articles recently published in B.C. Geological Field Work. Importantly, all the Adit 2 pulp samples have now been systematically analyzed for CaF_2, the first time that this work has been undertaken by Freeport. New work on molybdenite is also included. All costs claimed in this Assessment Report represent new previously unreported work paid for exclusively by Freeport Resources Inc.

4.0 Geology

The Eaglet fluorspar deposit is located in the pericratonic part of Ancestral North America in proximity to the border with the accreted Intermontane Belt. It is hosted by the Quesnel Lake Gneiss, part of the Kootenay Terrane. The two geochemically distinct compositions of this gneiss of granitoid character are not fully understood, but are considered products of back arc spreading or extension during Late Devonian to Early Mississippian times along the western edge of ancestral North America (Hora et al. 2008). The Intermontaine Belt in the same area is represented by oceanic rocks. Those were emplaced – thrusted during Mesozoic deformation against the western margin of the Kootenay Terrane. Such deformation of a polyphase nature was accompanied by regional metamorphism which reached amphibolite grade within pericratonic rocks.

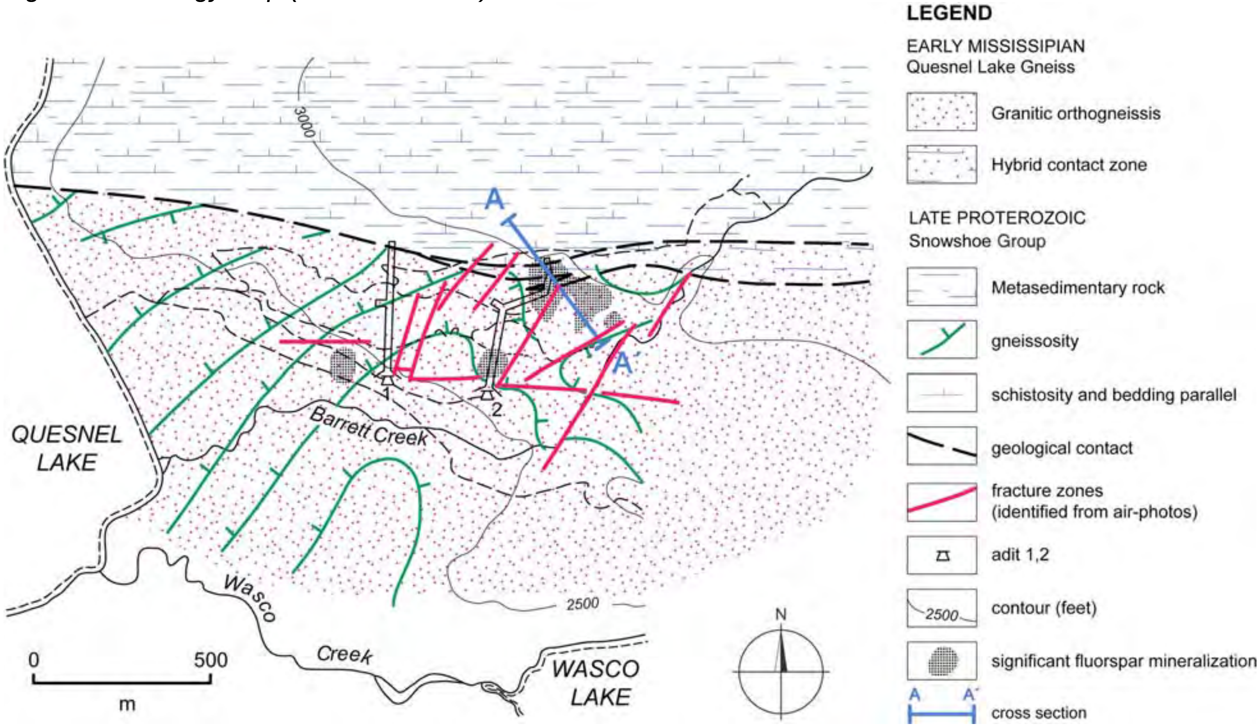
This geologic environment in this part of the BC Cordillera is host to a number of pre-accretion calc-alkaline (Cu+-Mo+-Au) and alkaline (Cu-Au) porphyry type deposits (Mt. Polley, Gibraltar, Mt. Milligan) and post-accreted Mo deposits (Boss Mountain and Endako). As stated in BC Ministry of Energy and Mines Information Circular 2005-3 Molybdenum in British Columbia, there are two molybdenum metallogenetic episodes of economic significance in BC – 220 Ma to 195 Ma (pre-accretion Late Triassic – Mid-Jurassic) and 140Ma to 8 Ma (post-accretion, Early Cretaceous – Miocene).

Fluorspar mineralization is hosted by Quesnel Lake orthogneiss of Late Devonian to Early Mississippian age near the contact with Late Proterozoic Snowshoe Group metasedimentary rocks. Some is also found in Snowshoe Group rocks. Widespread salmon pink feldspar in the fluorite zone resembles potassic alteration dominated by K-feldspar commonly associated with porphyry Cu-Mo deposits.

The deposit area has a continuous layer of overburden of irregular thickness of several metres and generally lacks outcrops. However, Barrett Creek canyon crosses the fluorite mineralized zone from north-east to south-west, well exposing the orthogneiss-metasediments intrusive contact. In this outcrop, the intrusive contact where granitic gneiss crosscuts metasediments is clearly visible, with large blocks of metasediments within the orthogneiss near its margins.

Mineralization occurs as a stockwork where fluorite is present as disseminated grains, thin fracture fillings, irregular veins up to 10 centimeters thick and replacement bodies and pots within the gneiss. The mineralization seems to be intimately associated with the late aplitic dikes intruding the orthogneiss body. Small quantities of galena, sphalerite, chalcopyrite, pyrite and locally molybdenite grains are common visible accessories with fluorite mineralization. It seems associated with late, mostly unfoliated white and pink aplite sills

Figure 5. Geology Map (Hora et al.2008)



Adit 2 muck piles

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Figure 6: Geology and Geochemistry of Adit 2

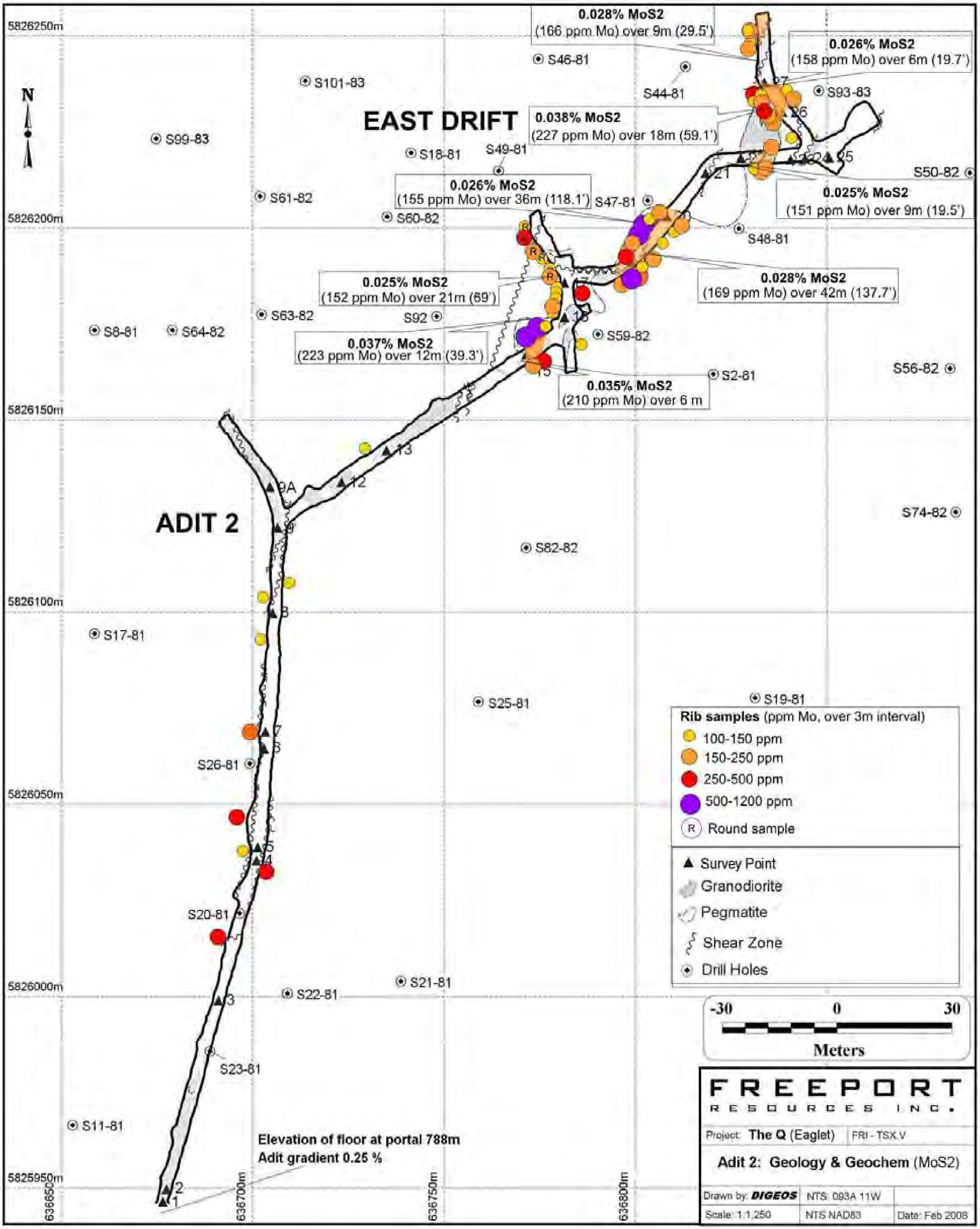


Table 1: Interesting Molybdenite intercepts

	MoS_2 %	Mo ppm (*1.6681=MoS_2)	m	Feet
Adit 2:				
North ribs:	0.037	223	12	39
South ribs:	0.035	210	6	20
3+00W drift:				
Rounds:	0.025	152	21	69
East drift:				
North ribs:	0.026	155	36	118
South ribs:	0.028	169	42	138
Northeast drift (end of Adit):				
West ribs:	0.038	227	18	59
East ribs:	0.026	158	6	20
South ribs:	0.025	151	9	30
End:				
West ribs:	0.028	166	9	30

Note: calculated averages of 3 metres long segments

Table 2: Mo values above 500ppm from Adit 2

Sample		MoS_2 %	Mo (ppm)	m
240-243	North rib	0.092	549	6
246	Bottom rib	0.092	553	3
279	Bottom south rib	0.142	851	3
288A	Bottom north rib	0.105	629	3
288A	Top north rib	0.191	1143	3
294A	Bottom north rib	0.085	507	3

As previously reported, molybdenum values are elevated in many samples, but independently of fluorine, strontium, lead, copper and zinc. Barium values are less than one tenth of strontium content. Dark purple fluorite is enriched in the thorium and light REE relative to the green and colorless varieties. About 25% of molybdenum ICP values are between 0.001% and 0.02%.

5.2 Metallurgy

Previous metallurgical testing on molybdenum rich samples from Adit 2 ore by BC Mining Research Ltd. (BCMR) determined a commercial-grade concentrate could be made, and process flow sheet design was commenced. For further details, see 2010 assessment report.

5.3 Mineralogical and petrographic studies

Two detailed mineralogical and petrographic studies were previously completed. The first, "Eaglet Property Revisited: Fluorite-Molybdenite Porphyry-like Hydrothermal System" (BC Geological Survey Fieldwork 2007) discusses different types of mineralization, as well as relationships of individual minerals of economic interest. The second, "Niobium-Thorium-Strontium-REE Mineralogy and Preliminary Sulfur Isotope Geochemistry of the Eaglet Property East-Central British Columbia" (BC Geological Survey Fieldwork 2009), is an extension of the first study. Laboratory work was done at the Institute of Geology, Academy of Sciences of the Czech Republic in Prague, using optical microscopy, X-ray powder diffractometry and electron microprobe microanalytical techniques. Freeport provided logistical support for the study, based on previous sampling and review of Freeport's technical and historical data.

Host rock is interpreted as a replacement product of the interaction of alkali sodium and successive potassium-bearing fluids with a consolidated orthogneiss series with metasedimentary intercalations. This process, followed by hydrothermal activity contributing quartz, molybdenite, fluorite, carbonates and celestite with few minor minerals, is considered to be an aureole of a well-differentiated granitic body at depth. Cretaceous in age (by dating of mica and fluorite), the intrusion is thus within the range of stocks and dikes with known molybdenum mineralization in the Quesnel and Kootenay Terrane. **The large-scale potassic alteration zone evident on surface suggests that the intrusion is potentially of a significant size.**

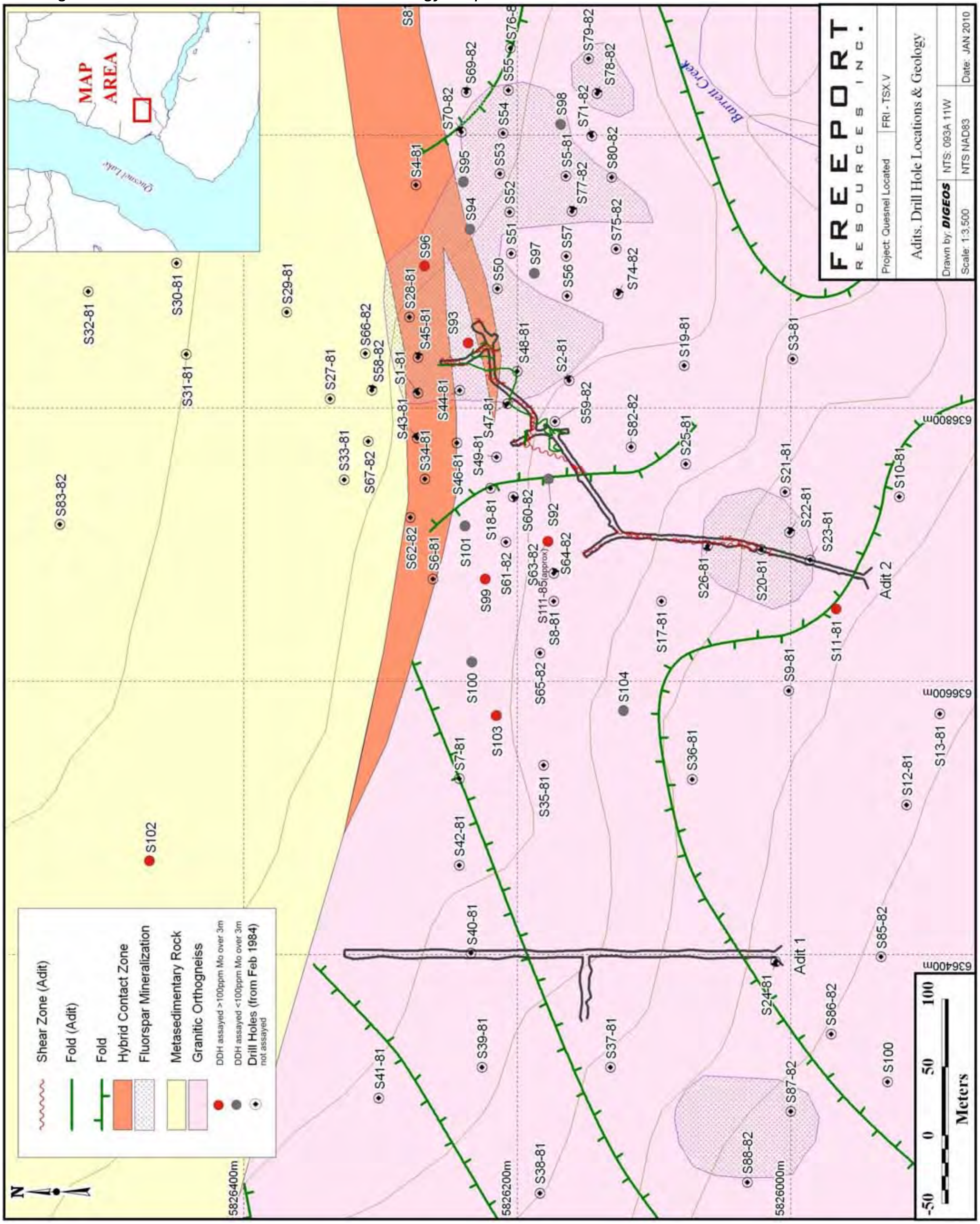
Distribution of fluorspar (calcium fluoride) and celestite (strontium sulphate) is mainly controlled by mechanical properties of more brittle host rocks susceptible to fracturing, and percolation by hydrothermal fluids. Molybdenite has been observed mostly along schistosity, slickenside planes and in quartz-filled veinlets. Review of high resolution air photo imagery confirms a concentration of linear fracture patterns in the vicinity of Adit 2, near the contact between granitic orthogneisses and metasedimentary rocks. This zone coincides with an area of significant fluorspar and molybdenite mineralization at the northeast end of Adit 2.

6.0 New Findings

6.1 CaF2 Geochemistry

This section summarizes new analytical work on the Adit 2 pulp samples, representing the complete extent of the 369 m (1211') long Adit. Freeport submitted about 500 pulp samples representing the full extent of Adit 2 – some 1200 feet in length -- for geochemical analysis. They

Figure7. Adits, Drill Hole Locations and Geology Map



were initially collected during the drilling and blasting of the adit, prepared and then stored at the site since the 1980's. The "rounds" (or central portion of the adit) and the flanking "ribs" are essentially underground bulk samples reflecting the cross-section and length of the adit (approx. 4.2 m x 3.0 m x 369 m). The samples were tested for fluorine at SGS Canada inc., and converted to CaF_2 to confirm fluorspar content. Analyses indicate a similar range of CaF_2 values to those used to calculate the historical fluorspar resource (Eaglet Mines, 1984), with about a quarter at 10% CaF_2 or above, with values up to 27%. Please refer to Appendix E for sample information and Appendix F for assay data.

The new results are significant as no current fluorspar data was previously available for the Adit, which contains several fluorspar zones included in historical non NI43-101 estimates. This work gives a much better understanding of the 3D spatial distribution of fluorspar and grades in the Adit and the overall deposit, in comparison to original results from vertical diamond drill holes only.

Several significant mineralized fluorspar zones were identified in Adit 2. The most important occurs in a faulted and folded zone, where three generally continuous intervals of fluorspar mineralization with a combined length of 126 metres (410 feet) have an average grade of 8.7% CaF_2 (see Table 3 below). Some higher grade sections include 15 m. (50 ft.) of 10.3% CaF_2 and 30 m. (100 ft.) of 11.1% CaF_2. The Adit ends in a mineralized zone 369 m. (1210 ft.) from the portal. These grades and their continuity are encouraging as they suggest the possibility of bulk open pit mining. Results indicate slightly higher values towards the end of the Adit where over a third contain over 10% CaF_2 (see tables below).

Table 3: Interesting Fluorspar Intercepts

Adit 2, Interval (m.)	**Length in metres** (ft.)	**Average CaF2%**	**Highest CaF2%**
<u>Zone A:</u>			
93-111 m. (distance from portal)	18 m. (60 ft.)	9.0%	13.9%
<u>Zone B:</u>			
225-264 m.	39 m. (128 ft.)	8.7%	18.5%
270-309 m.	39 m. (128 ft.)	8.4%	26.3%
321-369 m. (end of Adit)	48 m. (160 ft.)	9.1%	27.0%

Table 4: CaF2 Assays Above 10% from Adit 2

Adit 2 samples	**# samples**	**# over 10%**	**% over 10%**	**Av. CaF2%***	**Highest CaF2**
Box 1 **(portal)**	64	9	14.1%	12.27	15.00%
Box 2-3	68	10	14.7%	12.13	17.75%
Box 3-4	61	15	24.6%	13.32	23.01%
Box 4-5	58	16	27.6%	13.20	18.49%
Box 6	48	10	20.8%	15.51	21.40%
Box 7-8	62	21	33.9%	13.31	26.27%
Box 9-10	68	30	44.1%	14.04	27.05%
Box 11 **(end of Adit)**	17	7	41.2%	13.04	18.15%
* Of samples over 10% CaF2	446	118	**27.62%**	**13.35**	**27.05%**

Several hundred of the samples were also analyzed for 55 elements on an exploratory basis. About 40% of the samples were tested for rare earth elements, converting from ppm to % oxides. Results confirm presence of minor pyrochlore (Nb) and REE carbonate, previously identified in several mineralogical studies.

Please refer to Appendix E for sample information and Appendix F for assay results, including complete CaF2 data for all the pulp samples, as well as REE and ICP data. (Boxes 3-4, 6, 7-8 and 11 were selected as a cross section, to determine if anomalous results warranted analyzing the remainder of the samples.)

As previously reported, the northeast part of the Adit has widespread coarse-grained molybdenite observed visually along over 70 metres (230 ft.). Previous analyses confirmed about one quarter had Mo >100 ppm, with values between 500-1100 ppm (0.083%-0.18% MoS_2.) New work related to MoS2 is described in the following section.

6.2 Molybdenite studies

There are molybdenite occurrences in BC within Ancestral North America rocks of earlier ages (Mt.Copeland, Rexpar), but not considered of economic interest by present criteria of grade and size (Campbell, 1982, Fyles, 1970).

The Eaglet deposit, with its stockwork style of fluorite – quartz – celestite veining and a some minor Pb, Zn and Mo sulphides, is difficult to assign a deposit type. While molybdenite presence has been known since McCammon's 1965 report, it has not been an exploration target. Also, Eaglet has some features like widespread potassic alteration that can be interpreted as indication of a porphyry type. That had been recognized previously, and in 1980, Placer Development Limited assigned its geologist C.C.Rennie to examine the property, that time under exploration by Eaglet Mines Ltd. The resulting report proposed an exploration program based on a deposit model of the Henderson Mo orebody in Colorado. A proposed one stage program would consist of two diamond drill holes totalling 5,000 feet with a total cost at the time estimated at $200,000. That was never realized.

The work by Eaglet Mines Ltd. concentrated on fluorite with Ag as a byproduct, and only in the last three years of operations paid some attention to molybdenite discovered in visible amounts in the far end of adit 2. That company reported production of a commercial Mo concentrate from adit material by the Kamloops laboratory. In 1985 Eaglet Mines Ltd. ceased to exist and the site was abandoned.

The theory of a possible porphyry deposit type molybdenite orebody at depth led the present owner, Freeport Resources Inc. in order to expand existing knowledge, to undertake the work reported in Hora et al. (2008), Hora et al. (2010) and the results discussed in this report. The study of Re-Os age of molybdenite, sulphur isotopes and fluid inclusions in fluorite contributes to the understanding of deposit origin and the porphyry affinity theory.

Discussion

Eaglet deposit - molybdenite Re-Os dating

The rhenium – osmium (Re – Os) chronometer applied to molybdenite (MoS2) is considered a reliable method for dating particular mineralizations. Molybdenite has been demonstrated on numerous examples to withstand intense deformations and high-grade thermal metamorphism without resetting the Re – Os composition. This is in contrast with some other dating methods (Rb – Sr, K – Ar, Ar/Ar, and u – Pb) which are known to be susceptible to chemical and thermal disturbance. This happens in particular in terranes with subsequent episodes of magmatic and/or hydrothermal activity (Stein et al., 2001).

Four different samples collected from Adit 2 were submitted to Dr. H.J. Stein, AIRIE Program, Colorado State University for analysis and determination of MoS2 age in each of the samples. The first two samples represented molybdenite flakes in the host rock with indications of hydrothermal alteration of feldspathic component, spotty rusty patches of iron oxide, mixed with fluorite. After mixed results – one analysis had to be aborted because of iron oxide contamination in molybdenite flakes – another two fresh samples were submitted for dating. These two samples had molybdenite crystals in fluorite/celestite and quartz/celestite gangue. The three Eaglet molybdenite samples collected within several tens of metres of adit from each other provided **three different ages spanning 50 million years** – 200.3 +- 0.7 Ma, 233.8 +- 0.8Ma, and 251.6+-0.9 Ma. This type of age span is very unusual, cannot be expected for a mineral resource of single deposit model and the date 251.6 Ma is outside of known range for molybdenum metallogenic episode between 220 Ma to 195 Ma. **This conclusion suggests that molybdenite at Eaglet deposit is not of the porphyry type as those known to occur in British Columbia.** Please refer to Appendix B for more information.

Table 5. Re-Os data for molybdenites from the Eaglet F-Mo deposit, east-central B.C.

Danny Hora and Holly Stein, May 19, 2012

AIRIE Run #	Sample Name	Re, ppm	Re err, abs (ppm)	^{187}Os, ppb	^{187}Os err, abs (ppb)	Age, Ma
MD-1040	NTS 093A/10W minfile 093A046	**81.55**	0.08	**215.3**	0.2	**251.6 ± 0.9**
MD-1311	#0-1 Hora-Zak	**5.641**	0.009	**11.86**	0.01	**200.3 ± 0.7**
MD-1312	#4 Hora-Zak	**2.802**	0.004	**6.873**	0.006	**233.8 ± 0.8**

Molybdenite separates are 80-100% pure; dilution is silicate which does not affect Re-Os age calculation; sample wts ranged from 20-52 milligrams.

Re-Os analyses by NTIMS using a Carius tube dissolution and a double Os spike; all samples were optimally spiked.

All samples had less than 28 ppt common Os, negligible to the age calculation.

Data are blank corrected, and corrected for Os isotope fractionation, and common Os.

For MD-1040, blanks are Re = 2.55 ± 0.04 pg, Os = 0.44 ± 0.01 pg with $^{187}Os/^{188}Os = 0.931 \pm 0.016$

For MD-1311 and MD-1312, blanks are Re = 7.85 ± 1.48 pg, Os = 1.86 ± 0.03 pg with $^{187}Os/^{188}Os = 0.322 \pm 0.010$

Stable sulphure δ^{34} isotope data

Isotopic work on δ^{34} sulphur concentrated on two Eaglet minerals only – celestite and molybdenite. Some of other sulphide minerals received cursory attention.

Table 6. Eaglet (Quesnel Lake), first sample set (already published)

Sample No.	Mineral composition of the sample	^{34}S celestite	^{34}S sulfide
QL A-1	celestine, fluorite, quartz	**6.00**	
QL A-2	celestine, quartz, fluorite	**7.06**	
QL A-3	quartz, celestine, fluorite, feldspar	**12.91**	
QL A-4	celestite, quartz, fluorite, molybdenite	**7.12**	molybdenite: **–4.81**
QL A-5	celestine, fluorite, quartz, feldspar	**6.87**	
QL C-1	calcite, celestite, pyrite	**9.86**	pyrite: **–4.84**

Table 7. Additional sample set, sulfide minerals, November 2010

1	Eaglet 0-1, molybdenite		**-4.34**
2	Eaglet 0-2, molybdenite		**-5.04**
3	Eaglet 0-3, pyrite, close to molybdenite		**0.99**
4	Eaglet 4, molybdenite, close to pyrite		**-3.93**
5	Eaglet 4, pyrite, close to molybdenite		**-2.52**
6	Eaglet 12, pyrit intergrown with fluorite and moly		**2.42**
7	Eaglet 14, pyrit, pure		**-3.03**
8	Eaglet 16, galenit, pure		**12.07**

Macroscopic observations and limited microprobe data may be interpreted that molybdenite possibly has independent emplacement from the celestite. This conclusion is supported by the δ^{34} S isotopic composition which is fairly homogeneous for both these minerals, but with very different values. The major puzzle to interpret remains the stability of δ^{34} S homogeneity within less than 1‰ in four different molybdenites dated 30 Ma and 20 Ma apart. Some idea may be found in the paper by Suzuki et al (2001). Please refer to Appendix C for more information.

Fluorite fluid inclusion study

Drill core and the two adit dumps provide plentiful samples to collect and study. Several different colours of fluorspar area very obvious, and, on some samples, their relationship. Clearly the dark purple colour is the oldest phase, followed by a pale green and almost colourless varieties. Different colours have different chemistry of fluid inclusions. Of the three samples, two contain different levels of H2O – CO2 mixture, or almost a pure CO2 in some instances. Fluid inclusions in one sample contained a significant component of methane (CH4). It remains to be studied, if fluorine bearing solutions with CO2 and methane can affect the Re – Os in molybdenite to change its mutual values or if the molybdenite can be remobilized and re-deposited with a new Re – Os ratio, and to retain the same amount of δ^{34} sulphure. Please refer to Appendix D for more information.

7.0 Conclusions

The newly presented laboratory work herein confirms the complexity and multiple processes of mineralization on the Eaglet property. Some work reported previously has already indicated very distinct and multiple phases of different types of mineralization including some minor elements like Nb or REE or very uncommon celestite.

The most important result is the old age of molybdenite, significantly predating the established BC porphyry molybdenite metallogenetic episodes. However, it is noted that the molybdenite mine at Mount Copeland dated 770 Ma north of Revelstoke has some limited production history, therefore **251.6 Ma or even older molybdenite at Eaglet may still have economic potential.**

Recommendations

The economic potential of molybdenite remains unresolved. While the laboratory results suggest that the source of molybdenite may not be related to the two main economic Mo mineralization episodes identified in the province, the same composition of sulphur isotopes are clear indication that the Eaglet molybdenite has been remobilized and recrystallized during several well time-separated hydrothermal activities which circulated through the original mineral accumulation: **Such source should still be an exploration target**.

With respect to fluorspar results, further work is warranted to better understand the spatial relationship of potassic alteration, fluorspar and molybdenite mineralization especially in Adit 2 and the surrounding area. From an economic perspective, world shortages of supplies of acid-grade fluorspar are anticipated due to a rapid decrease in exports from China in recent years. This is expected to attract fluorspar mining interests to B.C.

Respectfully submitted,

Z.D. Hora, M.Sc., P.Geo.
Victoria, B.C.
July 1, 2014
3657 Doncaster Drive
Victoria, BC, V8P 3W8

8.0 References

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9.0 Statement of qualifications

I, Zdenek D. Hora, M.Sc., P.Geo., of Victoria, British Columbia, do hereby certify that:

I am a Consulting Geologist and since 1975, a Registered Professional Geoscientist in British Columbia and previously in Alberta, residing at 3657 Doncaster Drive, Victoria, B.C., V8P 3W8.

I graduated from Charles University of Prague, Czechoslovakia with a M.Sc. Degree in geology in 1958. Since graduation, I have been continuously practicing my profession in Europe and overseas, and since 1971 in Canada, namely in Quebec, Alberta, the N.W.T. and British Columbia. My work has largely been focussed on the geology, exploration and evaluation of industrial minerals deposits. From 1978 to 1984, I was the Industrial Minerals Specialist for the British Columbia Ministry of Energy, Mines and Petroleum Resources. From 1984 to 1999, I acted as the Program Manager for industrial minerals inventory and market studies in the province. Since my retirement in 1999, I am consulting in the field of industrial minerals – property assessment and evaluation, tenure aspect of industrial minerals in B.C. and its historical development, aggregate prospecting and deposit models for a wide range of industrial minerals. My professional activities included teaching industrial minerals courses (i.e. University of Victoria -- Economic Geology; B.C. Ministry of Energy, Mines and Petroleum Resources, B.C. and Yukon Chamber of Mines, and Geological Association of Canada – Courses for Prospectors). I have previously served as Chairman of the Industrial Minerals Division of the Canadian Institute of Mining, Metallurgy and Petroleum (CIM), and was the organizer and Co-Chairman of the 27th FORUM on Geology of Industrial Minerals and several other symposiums dealing with industrial minerals. From 1995 to 2000, I was part of the CIM Standing Committee on Reserve Definitions representing the CIM Industrial Minerals Division. I am presently a Consulting Geologist and have been so since June, 1999. As a result of my experience and qualifications, I am a Qualified Person as defined in N.P. 43-101.

This report is based on several property visits between 1979 and 1983, also in 2007 and 2008, published and unpublished reports filed with the B.C. Ministry of Energy and Mines and information provided to me by Freeport Resources Inc.

I have not received, nor do I expect to receive any interest, directly or indirectly, in the properties or securities of Freeport Resources Inc. or any affiliate. I am independent of Freeport Resources Inc. in accordance with the application of Section 1.5 of National Instrument 43-101. I consent to use of this report by the company in submissions for any Regulatory requirements and development opportunities. I am not aware of any material fact or material change which is not reflected in this report. I have read National Instrument 43-101, Form 43-101FI and this report has been prepared in compliance with NI 43-101 and Form 43-101FI.

Dated in Victoria, B.C., July 1, 2014.

Z.D. Hora, M.Sc., P.Geo.

Appendix A

Itemized Cost Statement

Exploration Work type	Comment				Totals
Office Studies	**Personnel**	**hrs**			
	Brenda Clark	40.0	$50.00	$2,000.00	
	Zdenek Hora, Geologist	24.0	$100.00	$2,400.00	
	Dr. Karel ŽáK, CSc	24.0	$100.00	$2,400.00	
	Dr. Petr Dobeš, CSc	24.0	$100.00	$2,400.00	
	Zdenek Hora, Geologist	7.0	$100.00	$700.00	
General research	Barb Dawson	20.0	$25.00	$500.00	
	report			$1,700.00	
Metallurgical Studies	Colorado State University	ER Analytical Review		$5,069.50	
				$17,169.50	**$ 17,170**
Geochemical Surveying	**Number of Samples**	**No.**	**Rate**	**Subtotal**	
Pulps (Adit 2 ribs & rounds)	SGS-F (Specific Ion)	506	$20.77	$10,507.09	
Pulps (Adit 2 ribs & rounds)	SGS-55 element sodium peroxide fusion/ICP-OES and ICP-MS	126	$32.06	$4,039.56	
Pulps (Adit 2 ribs & rounds)	SGS-55 element sodium peroxide fusion/ICP-OES and ICP-MS	17	$22.06	$375.02	
				$14,921.67	**$ 14,921**
TOTAL Expenditures					**$ 32,091**
	Submitted April 9, 2014				**$ 32,091**

Appendix B

Eaglet Deposit – Molybdenite Re – Os Dating

Dr. Holly J. Stein, AIRIE Program
Department of Geosciences, Colorado State University,
Fort Collins, CO

AIRIE
APPLIED ISOTOPE RESEARCH

Colorado State University
Knowledge to Go Places

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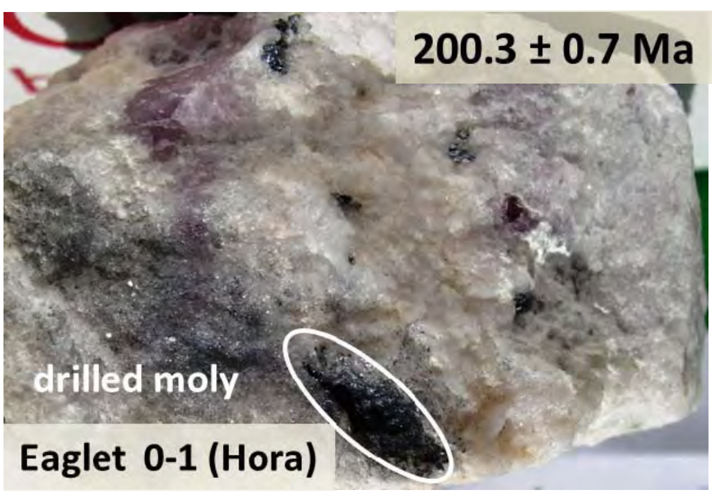
May 25, 2012

Z.D. Hora, Consultant
Freeport Resources, Inc.
British Columbia Geological Survey (retired)
Victoria, BC, Canada
zdhora@telnus.net

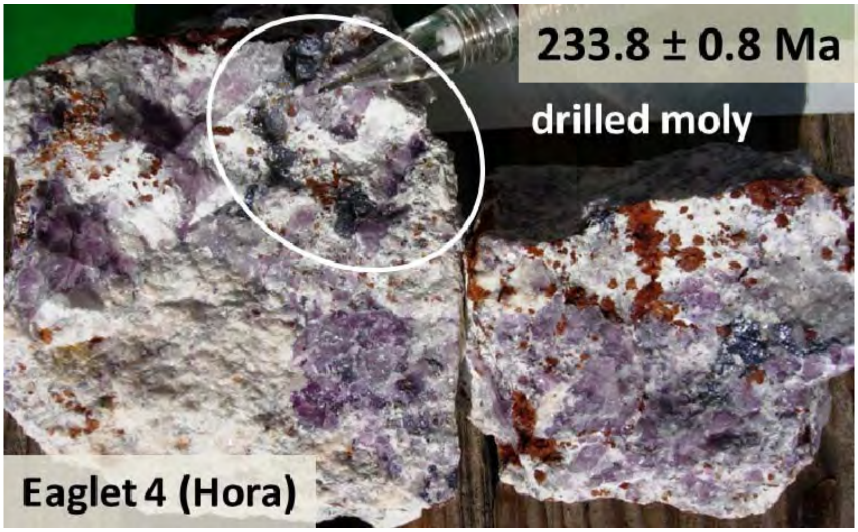
Dear Danny,

We recently completed Re-Os analytical work on the two additional samples received by me from Karel Žak at the Goldschmidt meeting in August 2011. Thanks for arranging the funding for this analytical work. Included with this report are the actual Re-Os data, as an Excel spreadsheet (separate file). I offer a few comments below as well.

Molybdenite separates were extracted from selected samples using a small hand-held drill. The molybdenite powder was equilibrated with a double Os spike using the Carius- tube method. Re and Os isotopic measurements were obtained using negative thermal ion mass spectrometry at the AIRIE Program, Colorado State University. Please keep the AIRIE Run # with the analytical data in the Excel spreadsheet, as this is our only means of tracking all sample preparation and analytical details pertaining to your samples.

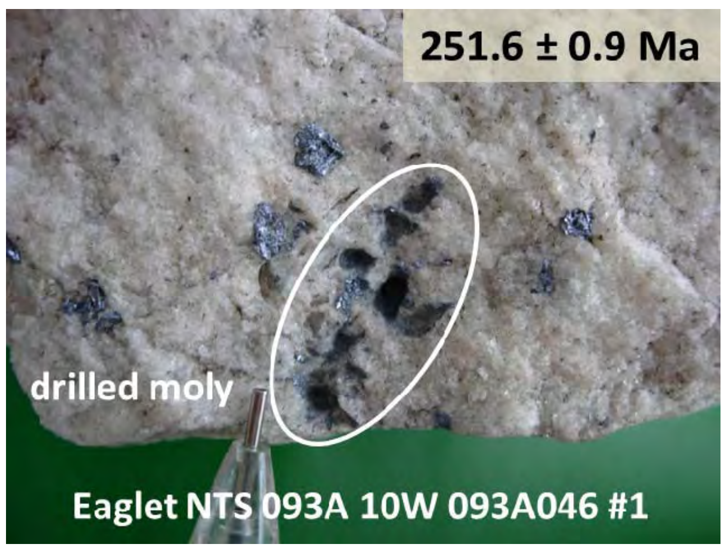


After looking at the Re-Os data table, you will see that three Eaglet molybdenite samples provided three different ages spanning 50 million years (250-200 Ma). This kind of age span would never be seen in a porphyry setting, so it may be prudent that we consider other uncharted scenarios. Based on experience with molybdenite and Re-Os dating, I'm sure the ages reflect the time that our targeted molybdenites crystallized. Overgrowths are extremely rare in molybdenite, but to convince yourself you could look at polished thin sections or extract and image individual molybdenite grains. I don't think you will find overgrowths, however.



The photos show exactly where molybdenite was extracted for the Re-Os analyses. To be complete, I've included a photo of the first dated sample, selected from the many pieces that you sent in 2010.

In sum, it is interesting and unusual to find several ages with tens of millions of years difference at a single deposit of *presumed* singular origin. With the Re-Os dating of these additional samples and the earlier Re-Os dating carried out under AIRIE Program funds, my best interpretation is that the deposit may have been constructed episodically over a period of time. This kind of F-Mo mineralization is not common, so it is fair to say that genetic models are not well established. However, just to mention, I have seen a similar long-life scenario in south Norway – not at a deposit, but in a quarry with very minor occurrences of molybdenite in different gneissic units and in different rock fabrics. The host rocks in south Norway are felsic gneisses with some units showing mylonitic textures, and the ages are much older (Grenvillian). I'm in the process of putting that story together. But, in part, that's why I'm intrigued with Eaglet.



With these Re-Os data, and in combination with the $^{34}\delta S$ data provided by Karel Žak, it will be valuable to write up the results of our joint efforts. I hope you will have time to do this.

One day, perhaps I'll have the chance to see this special Eaglet deposit. It's always easier to interpret data in a better way if you've broken the rocks yourself. I'm enough intrigued that perhaps I may be able to run an additional sample or two in the future.

In the meantime, we can safely say that whatever processes were involved in constructing the F-Mo deposit at Eaglet, episodic or otherwise, they had a long-lived history in total.

I look forward to hearing from you, and to your reaction.

With regards,

Holly Stein

Cc: Brenda Clark, President & CEO, Freeport Resources, Inc.

Dr. Holly J. Stein
Senior Research Scientist and Professor, Director, AIRIE Program
Department of Geosciences, Colorado State University, Fort Collins, CO 80523-1482 USA Senior Research Scientist, PGP Centre of Excellence, University of Oslo, 0371 Oslo, Norway Senior Research Scientist, Geological Survey of Norway, 7491 Trondheim, Norway
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Re-Os data for molybdenites from the Eaglet F-Mo deposit, east-central British Columbia

Danny Hora and Holly Stein, May 19, 2012

AIRIE Run #	Sample Name	Re, ppm	Re err, abs (ppm)	^{187}Os, ppb	^{187}Os err, abs (ppb)	Age, Ma
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Molybdenite separates are 80-100% pure; dilution is silicate which does not affect Re-Os age calculation; sample wts ranged from 20-52 milligrams.

Re-Os analyses by NTIMS using a Carius tube dissolution and a double Os spike; all samples were optimally spiked.

All samples had less than 28 ppt common Os, negligible to the age calculation.

Data are blank corrected, and corrected for Os isotope fractionation, and common Os.

For MD-1040, blanks are Re = 2.55 ± 0.04 pg, Os = 0.44 ± 0.01 pg with $^{187}Os/^{188}Os = 0.931 \pm 0.016$

For MD-1311 and MD-1312, blanks are Re = 7.85 ± 1.48 pg, Os = 1.86 ± 0.03 pg with $^{187}Os/^{188}Os = 0.322 \pm 0.010$

Appendix C

<u>Sulfur Isotope Study</u>

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Molybdenite Results

Following the Re-Os analytical work resulting in three significantly different dates, several additional sulfur isotope data have been completed on Eaglet sulfide minerals. Eight more samples of molybdenite, pyrite and galena had their sulfure isotopic composition completed:

Eaglet (Quesnel Lake), first sample set (already published)

Sample No.	Mineral composition of the sample	δ^{34}S celestite	δ^{34}S sulfide
QL A-1	celestine, fluorite, quartz	**6.00**	
QL A-2	celestine, quartz, fluorite	**7.06**	
QL A-3	quartz, celestine, fluorite, feldspar	**12.91**	
QL A-4	celestite, quartz, fluorite, molybdenite	**7.12**	molybdenite: **–4.81**
QL A-5	celestine, fluorite, quartz, feldspar	**6.87**	
QL C-1	calcite, celestite, pyrite	**9.86**	pyrite: **–4.84**

Additional sample set, sulfide minerals, November 2010

1	Eaglet 0-1, molybdenite		**-4.34**
2	Eaglet 0-2, molybdenite		**-5.04**
3	Eaglet 0-3, pyrite, close to molybdenite		**0.99**
4	Eaglet 4, molybdenite, close to pyrite		**-3.93**
5	Eaglet 4, pyrite, close to molybdenite		**-2.52**
6	Eaglet 12, pyrit intergrown with fluorite and moly		**2.42**
7	Eaglet 14, pyrit, pure		**-3.03**
8	Eaglet 16, galenit, pure		**12.07**

DISCUSSION

To sum up the new data, there is a considerable isotopic homogenity of the molybdenite, which has the d34S values (CDT) within a very narrow range of less than 1%o - between -3.92 and - 4.81.
The pyrite probably did not originate at the same time as molybdenite. While the sulfide sequence to accumulate either the lighter or heavier sulfure isotope has been preserved, the temperatures do not match geologically expected range.

Composition of galena suggests a very different sulfure source for both pyrite and molybdenite. It is a considerably later component of Eaglet mineralization and the sulfure of entirely different source than in the other two sulfides.

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Appendix D

Fluorite fluid inclusions study, Eaglet property, British Columbia

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Fluorite fluid inclusions study, Eaglet property, British Columbia

Methods

Microthermometric investigations of fluid inclusions were done using the CHAIXMECA heating and freezing stage with the operating range from –180 to +500 ^{o}C (Poty et al., 1976). The accuracy of temperature measurements is ±0.2 ^{o}C at temperatures below 0 ^{o}C and ±3 ^{o}C at temperatures up to 400 ^{o}C. The inclusions were classified according to Roedder´s (1984) criteria of the primary or secondary origins. Salinity (as wt. % NaCl equiv.) was calculated using the equations of Bodnar and Vityk (1995), the composition of the salt systems was considered according to Borisenko (1977). V-T-X features of H_2O-CO_2 or H_2O-CH_4 inclusions were estimated according to Bakker and Diamond (2000) and Kerkhof and Thiery (2001). The density of CO_2 was calculated by computer program *FLUIDS* (Bakker, 2003).

The following phase transitions were measured in the inclusions:

$TmCO_2$ – temperature of melting of solid CO_2

$Tm_{clat}CO_2$ – temperature of melting of clathrate of CO_2

$ThCO_2$ – temperature of homogenization of CO_2

Tm_{ice} – temperature of melting of the last ice crystal

Th- bulk homogenization temperature

$ThCH_4$ – temperature of homogenization of CH_4

LVR = L/L+V – liquid to vapour ratio

Results

Fluorite QLA-11

Primary inclusions in 3D distribution were found in the well-preserved part of fluorite without the extensive occurrence of trails of secondary inclusions. The inclusions have various shapes, from 5 to 80 μm in diameter, various composition and number of phases.

The inclusions contain H_2O, CO_2, or mixture of these phases.

H_2O inclusions have mostly consistent LVR = 0,9, and to 20 μm in diameter. Tm_{ice} = -0,2 to -0,6 ^{o}C, corr. to the salinity of aqueous solution between 0,4 and 1,1 wt. % NaCl equiv. Homogenization temperatures were measured only in several inclusions with LVR = 0,9, they ranged from 126 to 142 ^{o}C.

H_2O-CO_2 inclusions are oval or of negative crystal shape, up to 60 μm in diameter, and LVR = 0,4 to 0,7. $TmCO_2$ were measured between –56,3 and –57,5 ^oC, which can indicate only very small admixture of CH_4 or N_2 in vapour phase. $Tm_{clat}CO_2$ = 8,5 to 9,5 ^oC, equal to the salinity of aqueous solution from 1 to 3 wt. % NaCl equiv. CO_2 homogenized to liquid at temperature from 6,2 to 22,6 ^oC. The density of CO_2 = 0,750 - 0,890 g/cm^3. Homogenization temperatures were not observed, because the inclusions decrepitated (at about 230 ^oC) before the achievement of homogenization.

Several H_2O-CO_2 inclusions contain a solid phase, a small crystal. The same isolated crystals can be found in the fluorite. That's the reason why these crystals are not supposed to be "daughter crystals", ie. crystallized from an oversaturated solution.

All types of the inclusions can occur together within one group of inclusions, they are supposed to be syngenetic. The inclusions show variable composition, variable LVR, but relatively narrow range of $ThCO_2$. The criteria supporting either homogeneous or heterogeneous environment of the trapping of inclusions are not unambiguous (Touret, 2001, Touret and Frezzotti, 2003). The data of pseudosecondary inclusions (next paragraph) suggest that at least a part of H_2O-CO_2 inclusions was trapped at homogeneous environment under the conditions of miscibility of H_2O-rich and CO_2-rich phases.

H_2O-CO_2 inclusions were also found along short trails. These inclusions are probably of **pseudosecondary** origin. The inclusions have negative crystal shape and relatively consistent LVR = 0,7. $TmCO_2$ = -56,5 ^oC, indicating pure CO_2 content of vapour phase, $Tm_{clat}CO_2$ = 9,0 to 9,5 ^oC, corr. To the salinity of aqueous solution between 1 and 2 wt. % NaCl equiv. The values of $ThCO_2$ (to liquid) ranged between 18,9 and 23,8 ^oC, the density of CO_2 was from 0,726 to 0,790 g/cm^3. The bulk homogenization temperature ranged between 284 and 288 ^oC.

The inclusions have consistent LVR, $ThCO_2$ and Th within the narrow range, it can be assumed that the inclusions were trapped at the homogeneous environment, under the conditions of miscibility of H_2O-rich and CO_2-rich phase. Then the bulk Th values are equal to the lowest temperatures of trapping of the inclusions. The pressure of trapping, estimated from P-T-X diagram, is about 2,1 to 2,6 kbar.

Fluorite QL-1

Primary H_2O-CO_2 inclusions were found along two distinct growth zones. The inclusions have oval to irregular shape, up to 40 μm in diameter, and variable LVR. $TmCO_2$ = -56,8 to –57,3 °C, the inclusions contain almost pure CO_2. Tm_{clat} CO_2 = 8,7 to 9,2 °C, corr. to the salinity from 1 to 3,5 wt. % NaCl equiv. CO_2 homogenized to liquid at temperatures from 6,5 to 8,5 °C, the density of CO_2 was 0,874 to 0,887 g/cm^3. Th were not found out, because the inclusions decrepitated before the achievement of homogenization.

Please refer to the illustrations below, which follow this report.

1 - QLA-11 primary H_2O-CO_2 inclusions (scale 10 μm)

2 - QLA-11 primary H_2O-CO_2 inclusions with solid crystal

3 - QLA-11 primary-secondary inclusions of H_2O-CO_2 type, consistent LVR

4 - QLA-11 secondary H_2O-CO_2 inclusions (scale 100 μm)

5 - QLA-1 primary H_2O inclusions

6 - V>L primary H_2O-CH_4 inclusions

Fluorite QLA-1

Fluorite contains **primary** inclusions of oval shape, up to 80 μm in diameter, and variable LVR. The inclusions are of H_2O type. In some vapour-rich inclusions (LVR = 0,1) was identified methane.

Temperature of homogenization of H_2O inclusions were measured in the groups of inclusions with LVR = 0,8 to 0,9. Th ranged in the interval between 108 and 159 °C. Tm_{ice} were measured between –0,1 and –0,7 °C, corresponding to the salinity 0,2 to 1,2 wt. % NaCl equiv.

CH_4 was identified only in several vapour-rich inclusions. CH_4 homogenized to liquid at temperature –85,6 °C, it corresponds to the density of CH_4 = 0,217 g/cm^3.

H_2O and H_2O-CH_4 inclusions were probably trapped under the conditions of immiscibility of aqueous-rich and vapour-rich phase.

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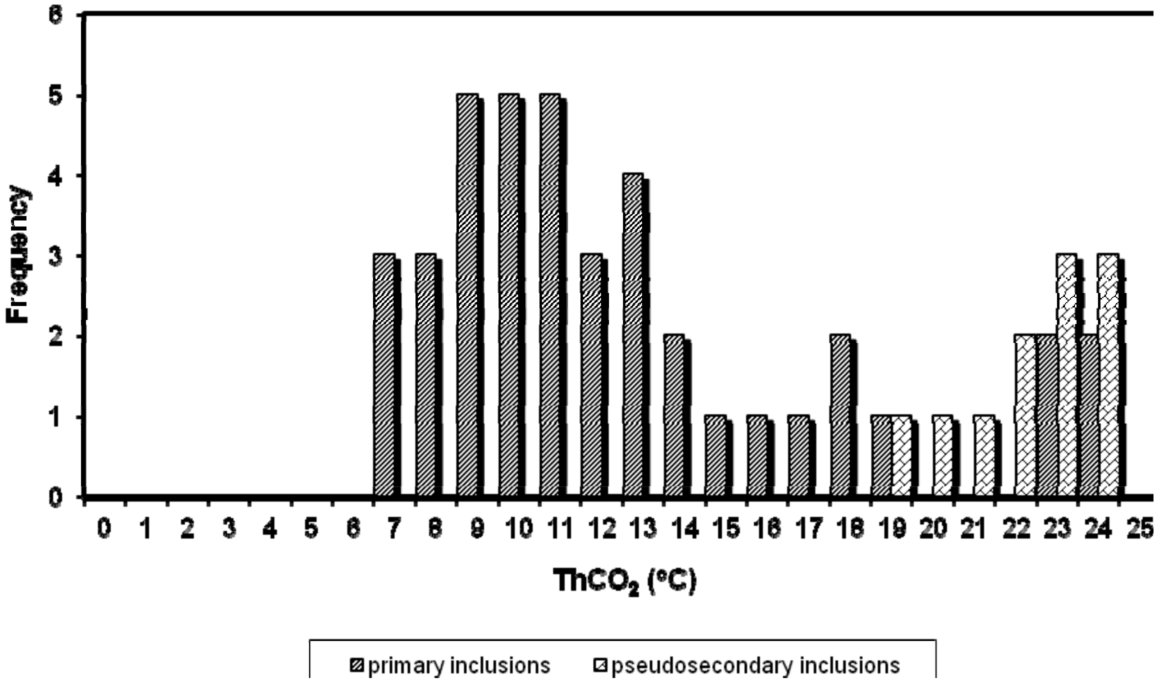
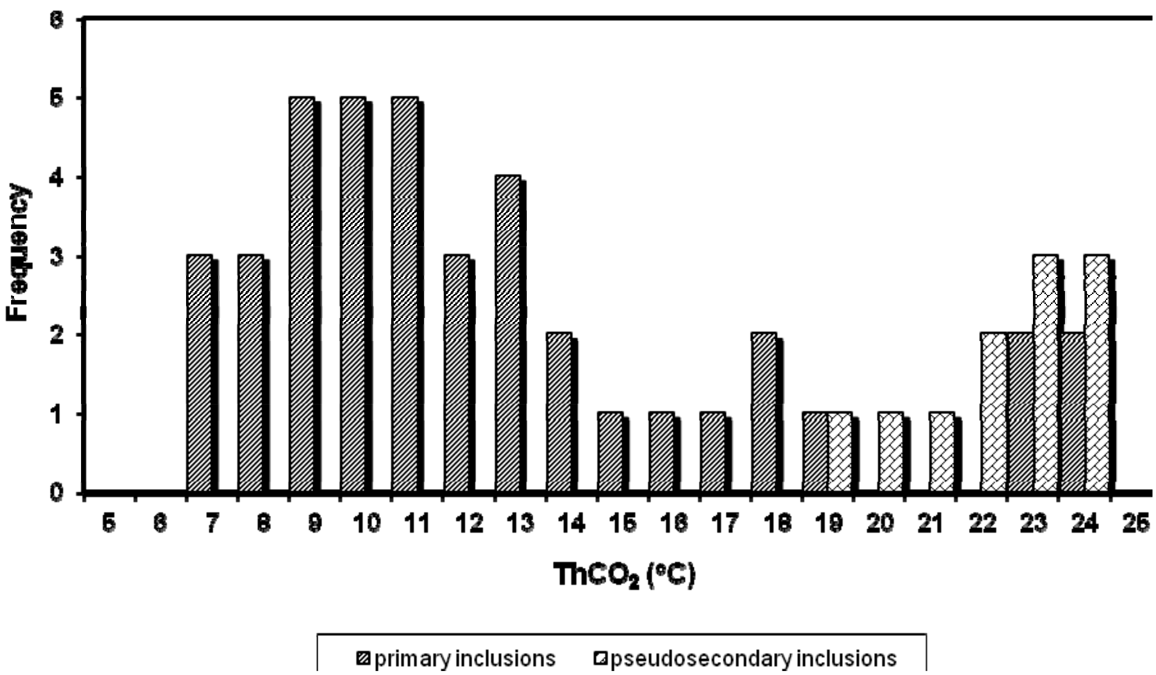
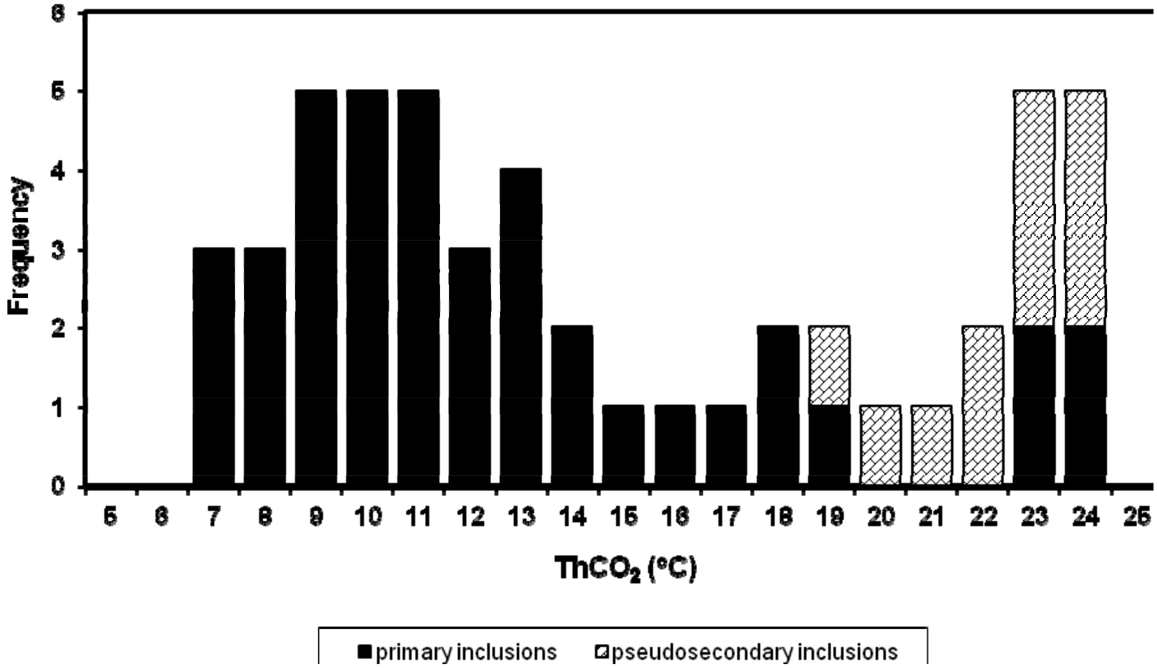
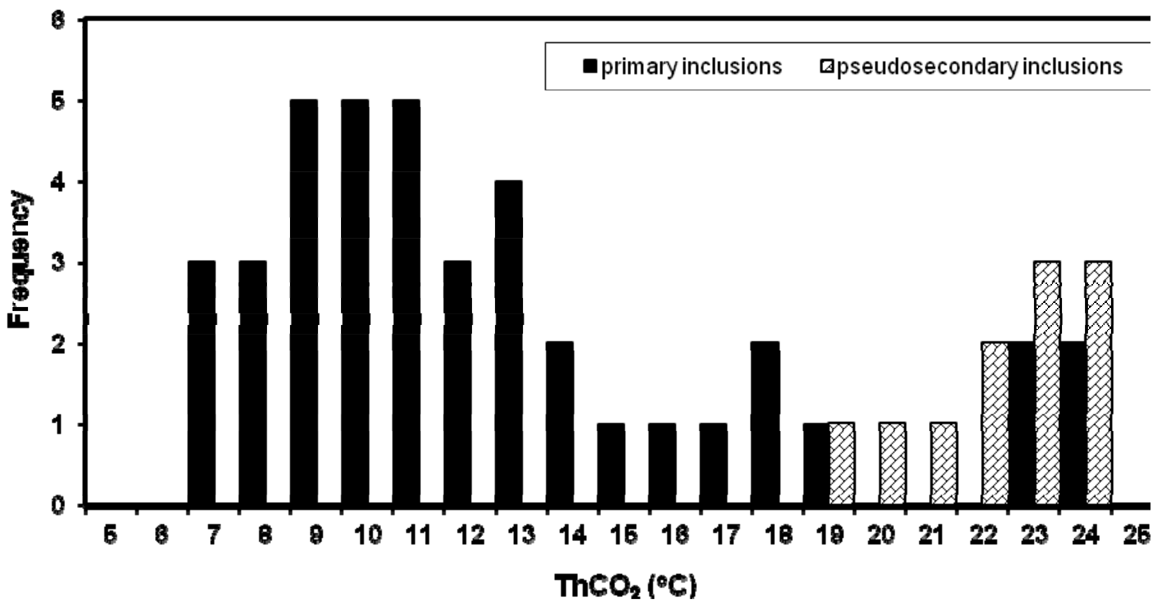
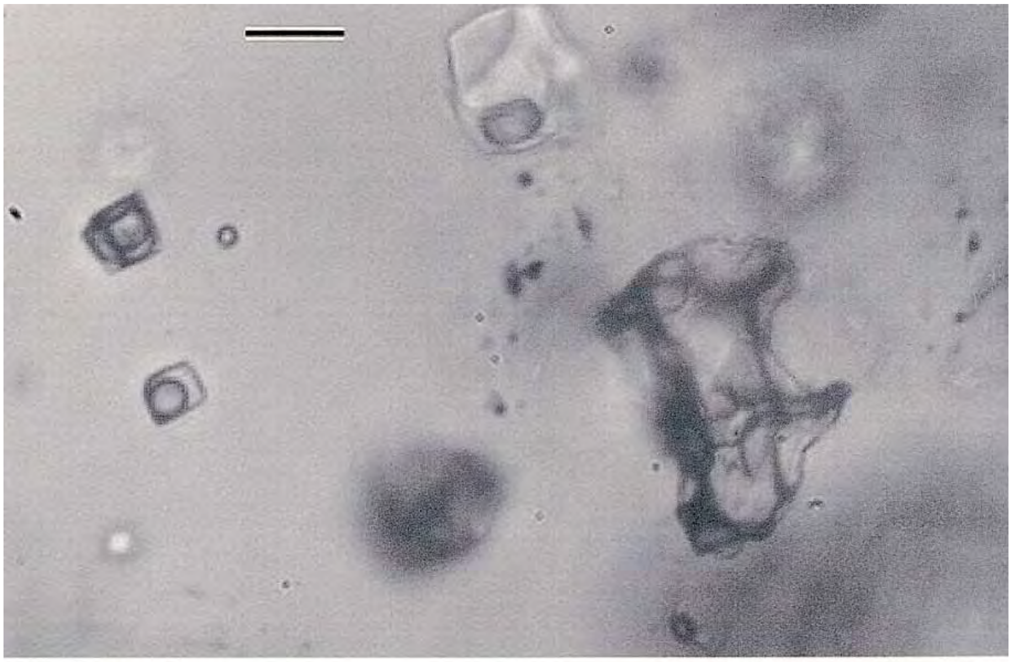

Frequency
0
1
2
3
4
5
6
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25
ThCO2 (°C)
primary inclusions
pseudosecondary inclusions

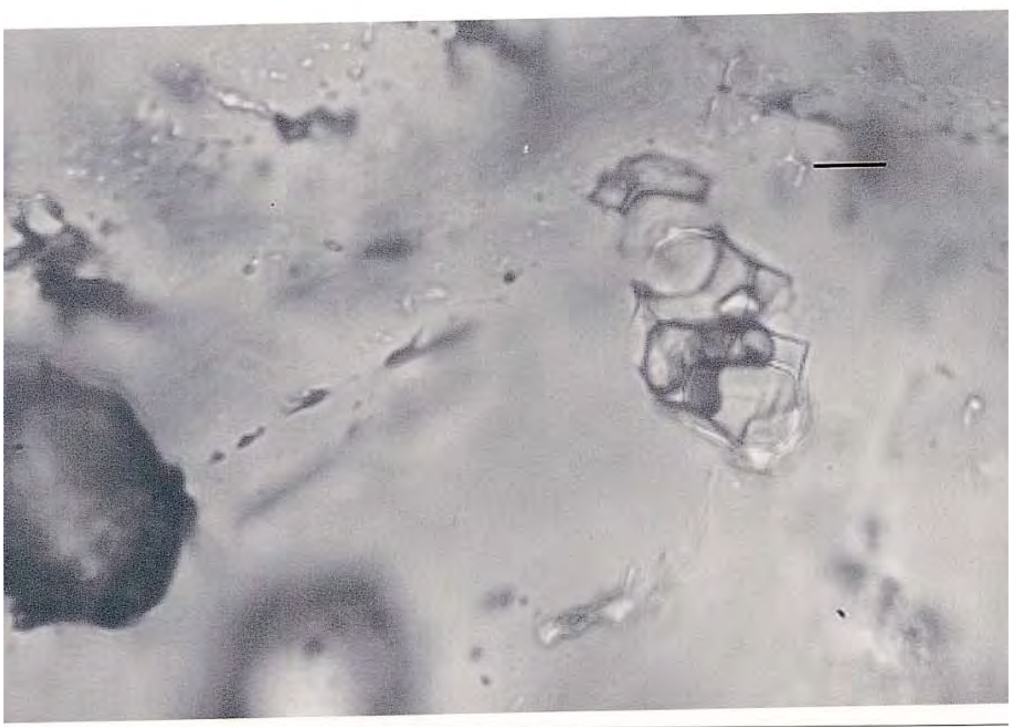

Frequency
0
1
2
3
4
5
6
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25
ThCO2 (°C)
primary inclusions
pseudosecondary inclusions


Frequency
ThCO2 (°C)
primary inclusions
pseudosecondary inclusions

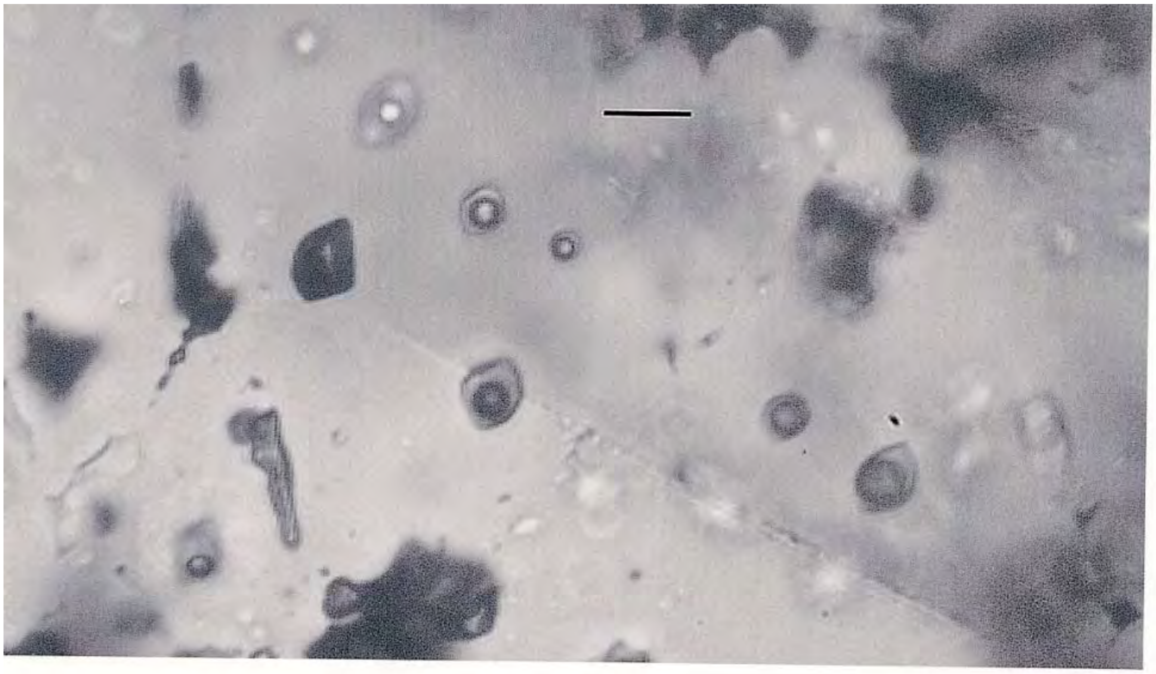

Frequency
ThCO2 (°C)
primary inclusions
pseudosecondary inclusions



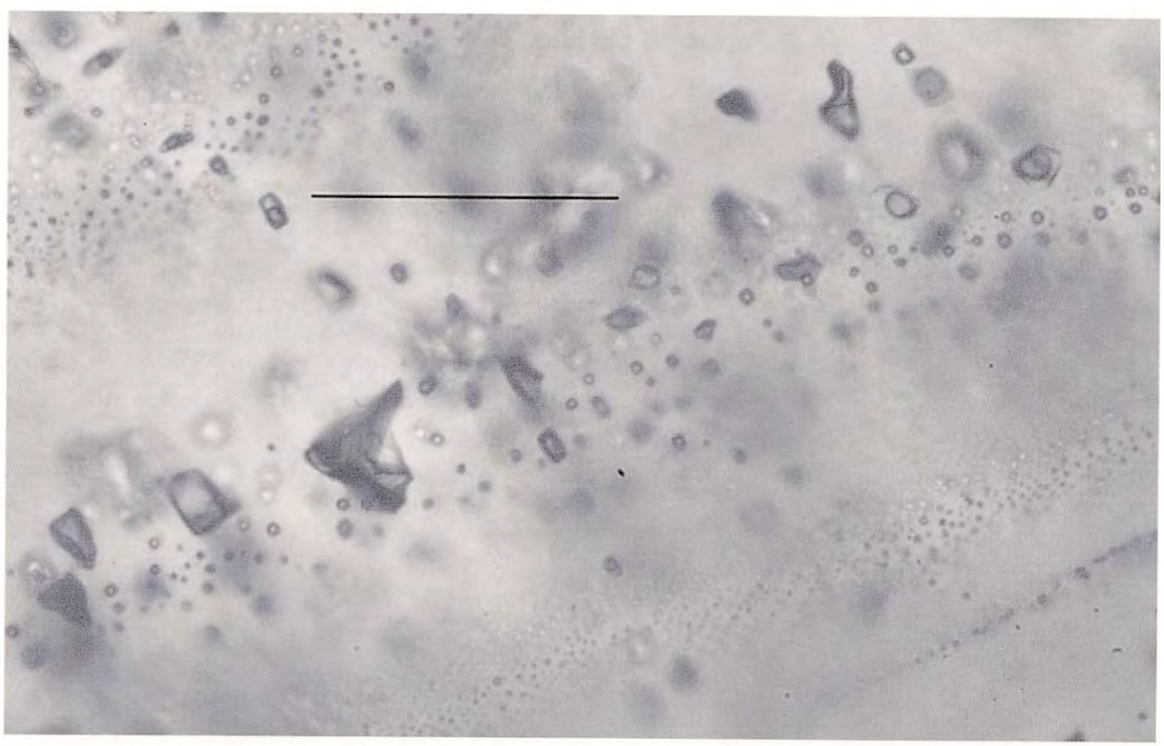
1 - QLA-11 primary H_2O-CO_2 inclusions (scale 10 μm)



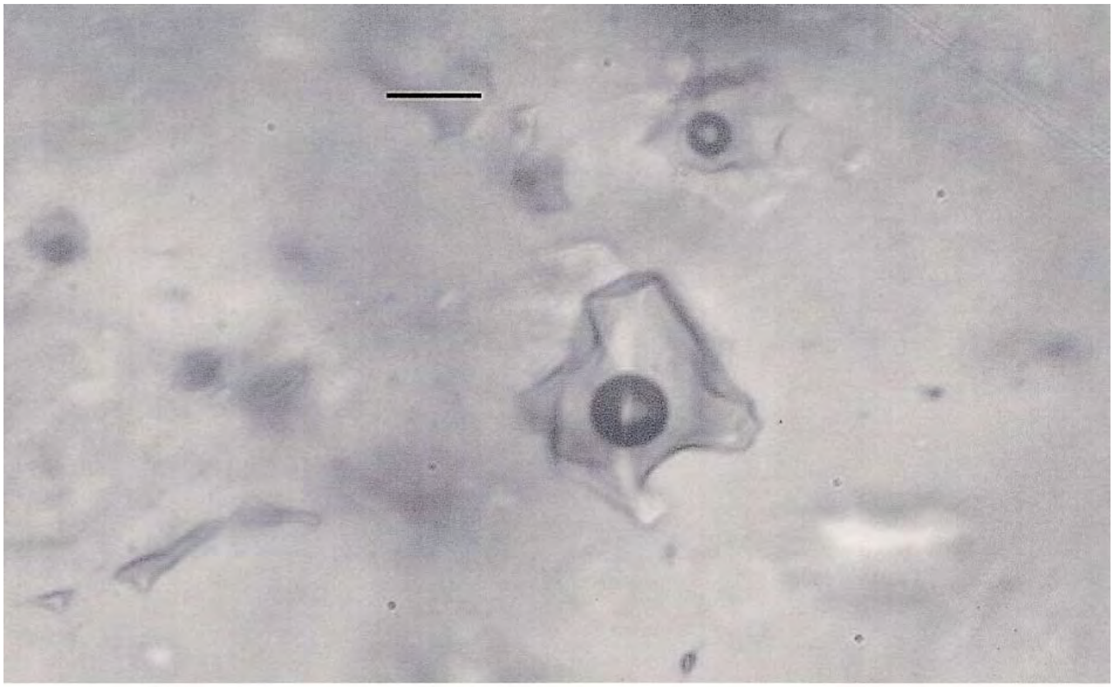
2 - QLA-11 primary H_2O-CO_2 inclusions with solid crystal



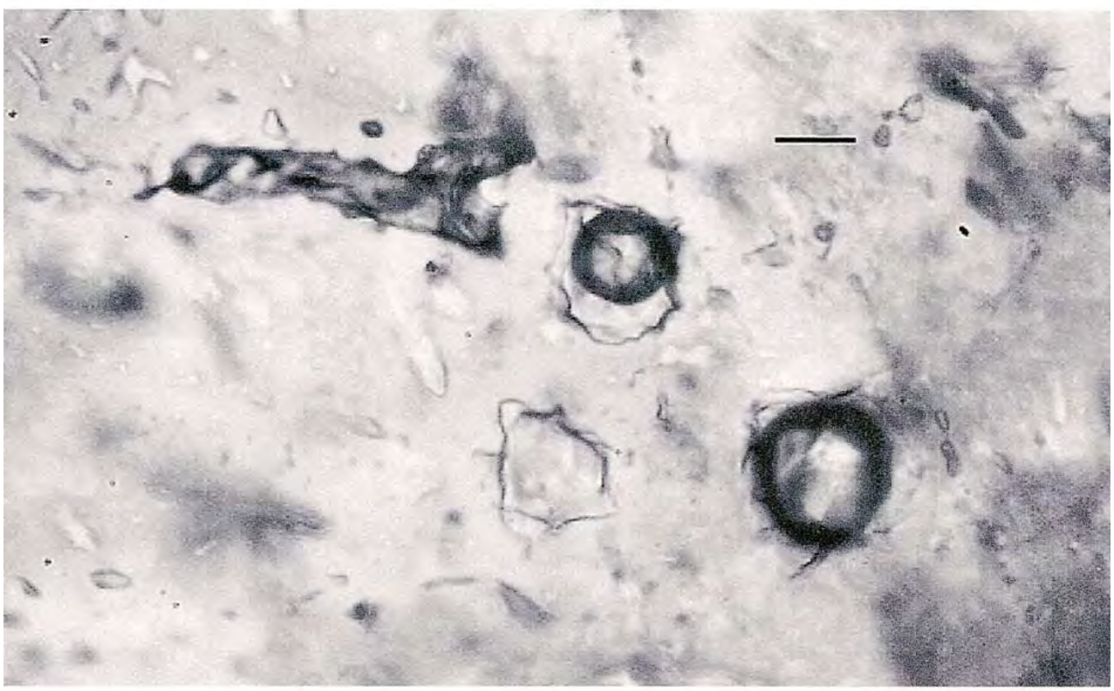
3 - QLA-11 primary-secondary inclusions of H_2O-CO_2 type, consistent LVR



4 - QLA-11 secondary H_2O-CO_2 inclusions (scale 100 μm)



5 - QLA-1 primary H_2O inclusions



6 - V>L primary H_2O-CH_4 inclusions

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Appendix E

Sample Lists & Information

## Q CLAIMS (EAGLET)	## ADIT 2 PULPS, 1983
Box 1: Rounds 15801-15809 15978-16000	**Box 1:** Ribs, Adit 2 18316-18348
	Box 2: Ribs, Adit 2 18349-18390
Box 3: Rounds, Adit 2 15840-15870	**Box 3:** Ribs, Adit 2 18391-18424
Box 4: Rounds, Adit 2 15871-15900	**Box 4:** Ribs, Adit 2 18425-18458
Box 5: Rounds, Adit 2 15901	**Box 5:** Ribs, Adit 2 18459-18490
Box 6: Round Raise 15951-15970, 15926, 15928	**Box 6:** Ribs, Adit 2 18491-18500 18601-18623
	Box 7: Ribs, Adit 2 18624-18656
	Box 8: Ribs, Adit 2 18657-18691
	Box 9: Ribs, Adit 2 18692-18727
	Box 10: Ribs, Adit 2 18728-18761
	Box 11: Ribs, Adit 2 18601-18761 18762-18782

Q CLAIMS (EAGLET) PULPS, 1983

Box 1: 18376 - 18348 Ribs, Adit 2

				Notes
Grab Face 27.2 m			Aug 12/83	
18316		1	Aug 10/83	
18317		1	Aug 10/83	
18318		1	Aug 10/83	
18319S		1	Aug 12/83	
18320		1	Aug 10/83	
18321		1		
18322		1	Aug 12/83	
18323		1	Aug 10/83	
18324		1	Aug 10/83	
18325			Aug 12/83	
18326			Aug 12/83	
18327			Aug 12/83	
18328			Aug 12/83	
18329			Aug 12/83	
18330	96-99	E. Rib	Aug 12/83	
18331	99-102	E. Rib	Aug 12/83	
18332	102-105	E. Rib	Aug 12/83	
18333	105-108	E. Rib	Aug 12/83	
18334	108-111	E. Rib	Aug 12/83	
18335	111-114	E. Rib	Aug 12/83	
18336	114-117	W. Rib	Aug 13/83	
18337	117-120	W. Rib	Aug 13/83	
18338	120-123	W. Rib	Aug 13/83	
18339	114-117	E. Rib	Aug 13/83	
18340	117-120	E. Rib	Aug 13/83	
18341	120-123	E. Rib	Aug 13/83	
18342	123-126	W. Rib	Aug 16/83	
18343	126-129	W. Rib	Aug 16/83	
18344	123-126	E. Rib	Aug 16/83	
18345	126-129	E. Rib	Aug 16/83	
18346	129-132	W. Rib	Aug 16/83	
18347	129-132	E. Rib	Aug 16/83	
18348	132-135	W. Rib	Aug 17/83	

Box 2: 18349-18390 Ribs, Adit 2

18349	135-138	W. Rib	Aug 17/83
18350	132-135	E. Rib	Aug 17/83
18351	135-138	E. Rib	Aug 17/83
18352	138-141	W. Rib	Aug 17/83
18353	138-141	E. Rib	Aug 17/83
18354	141-144	W. Rib	Aug 18/83
18355	141-144	E. Rib	Aug 18/83
18356	144-147	W. Rib	Aug 18/83
18357	144-147	E. Rib	Aug 18/83
18358	147-150	W. Rib	Aug 18/83
18359	147-150	E. Rib	Aug 18/83
18360	150-153	E. Rib	Aug 18/83
18361	150-153	W. Rib	Aug 18/83
18362	153-156	W. Rib	Aug 19/83
18363	156-159	W. Rib	Aug 19/83
18364	159-162	W. Rib	Aug 21/83
18365	162-165	W. Rib	Aug 21/83
18366	153-156	E. Rib	Aug 19/83
18367	156-159	E. Rib	Aug 19/83
18368	159-162	E. Rib	Aug 21/83
18369	162-165	E. Rib	Aug 21/83
18370	165-168	E. Rib	Aug 21/83
18371	165-168	W. Rib	Aug 21/83
18380	192-195	N. Rib	Sept 2/83
18381	195-198	N. Rib	Sept 2/83
18382	192-195	S. Rib	Sept 2/83
18383	195-198	S. Rib	Sept 2/83
18384	225-228	N. Rib	Sept 3/83
18385	228-231	N. Rib	Sept 3/83
18386	225-228	S. Rib	Sept 3/83
18387	234-237	N. Rib	Sept 4/83
18388	237-240	N. Rib	Sept 4/83
18389	225-228	S. Rib	Sept 3/83
18390	228-231	S. Rib	Sept 3/83

Box 3: 18391-18424 Ribs Adit 2

18391	231-234	S. Rib	
18392	234-237	S. Rib	Sept 4/83
18393	237-240	S. Rib	Sept 4/83
18394	240-243	N. Rib	Sept 6/83
18395	243-246	N. Rib	Sept 7/83
18396	240-243	S. Rib	Sept 6/83
18397	243-246	S. Rib	Sept 7/83
18398	246-249	N. Rib	Sept 7/83
18399	246-249	S. Rib	Sept 7/83
18400	66 Top	W. Rib	Sept 10/83
18401	66 Bottom	W. Rib	Sept 10/83
18402	69 Top	W. Rib	Sept 10/83
18403	69 Bottom	W. Rib	Sept 10/83
18404	72 Top	W. Rib	Sept 10/83
18405	72 Bottom	W. Rib	Sept 10/83
18406	66 Bottom	E. Rib	Sept 10/83
18407	69 Bottom	E. Rib	Sept 10/83
18408	72 bottom	E. Rib	Sept 10/83
18409	75 Bottom W. Rib	W. Rib	Sept 11/83
18410	75 Top	W. Rib	Sept 11/83
18411	75 Bottom	E. Rib	Sept 11/83
18412	78 Bottom	W. Rib	Sept 11/83
18413	78 Top	W. Rib	Sept 11/83
18414	78 Bottom	E. Rib	Sept 11/83
18415	81 Bottom	W. Rib	Sept 11/83
18416	81 Top	W. Rib	Sept 11/83
18417	81 Bottom	E. Rib	Sept 11/83
18418	84 Bottom	W. Rib	Sept 11/83
18419	84 Top	W. Rib	Sept 11/83
18420	84 Bottom	E. Rib	Sept 11/83
18421	87 Bottom	W. Rib	Sept 11/83
18422	87 Top	W. Rib	Sept 11/83
18423	87 Bottom	E. Rib	Sept 11/83
18424	90 Bottom	W. Rib	Sept 11/83

Box 4: 18425-18458 Ribs, Adit 2

18425	90 Top	W. Rib	Sept 11/83
18426	90 Bottom	E. Rib	Sept 11/83
18427	93 Bottom	W. Rib	Sept 11/83
18428	93 Top	W. Rib	Sept 11/83
18429	93 Bottom	E. Rib	Sept 11/83
18430	96 Bottom	W. Rib	Sept 11/83
18431	96 Top	W. Rib	Sept 11/83
18432	96 Bottom	E. Rib	Sept 11/83
18433	99 bottom	W. Rib	Sept 11/83
18434	99 Top	W. Rib	Sept 11/83
18435	99 Bottom	E. Rib	Sept 11/83
18436	102 Bottom	W. Rib	Sept 11/83
18437	102 Top	W. Rib	Sept 11/83
18438	102 Bottom	E. Rib	Sept 11/83
18439	105 Bottom	W. Rib	Sept 11/83
18440	105 Top	W. Rib	Sept 11/83
18441	105 Bottom	E. Rib	Sept 11/83
18442	108 Bottom	W. Rib	Sept 12/83
18443	108 Top	W. Rib	Sept 12/83
18444	108 Bottom	E. Rib	Sept 12/83
18445	111 Bottom	W. Rib	Sept 12/83
18446	111 Top	W. Rib	Sept 12/83
18447	111 Bottom	E. Rib	Sept 12/83
18448	114 Bottom	W. Rib	Sept 12/83
18449	114 Top	W. Rib	Sept 12/83
18450	114 Bottom	E. Rib	Sept 12/83
18451	228 Bottom	N. Rib	Sept 13/83
18452	228 Top	N. Rib	Sept 13/83
18453	228 Bottom	S. Rib	Sept 13/83
18454	231 Bottom	N. Rib	Sept 13/83
18455	231 Top	N. Rib	Sept 13/83
18456	231 Bottom	S. Rib	Sept 14/83
18457	234 Bottom	N. Rib	Sept 14/83
18458	234 Top	N. Rib	Sept 14/83

Box 5: 18459-18490 Ribs, Adit 2

18459	234 Bottom	S. Rib	Sept 14/83
18460	237 Bottom	N. Rib	Sept 14/83
18461	237 Top	N. Rib	Sept 14/83
18462	237 Bottom	S. Rib	Sept 14/83
18463	240 Bottom	N. Rib	Sept 14/83
18464	240 Top	N. Rib	Sept 14/83
18465	240 Bottom	S. Rib	Sept 14/83
18466	243 Bottom	N. Rib	Sept 14/83
18467	243 Top	N. Rib	Sept 14/83
18468	243 Bottom	S. Rib	Sept 14/83
18469	246 Bottom	N. Rib	Sept 14/83
18470	246 Top	N. Rib	Sept 14/83
18471	246 Bottom	S. Rib	Sept 14/83
18472	249 Bottom	N. Rib	Sept 14/83
18473	249 Top	N. Rib	Sept 14/83
18474	249 Bottom	S. Rib	Sept 14/83
18475	249-252	S. Rib	Sept 15/83
18476	249-252	S. Rib	Sept 15/83
18477	252-255	N. Rib	Sept 15/83
18478	255-258	N. Rib	Sept 15/83
18479	252-255	S. Rib	Sept 19/83
18480	258-261	N. Rib	Sept 15/83
18481	255-258	S. Rib	Sept 19/83
18482	261-264	N. Rib	Sept 15/83
18483	258-261	S. Rib	Sept 19/83
18484	261-264	S. Rib	Sept 19/83
18485	264-267	N. Rib	Sept 19/83
18486	264-267	S. Rib	Sept 19/83
18487	264-267A	East Drift N Rib	Sept 19/83
18488	264-267A	S Rib	Sept 19/83
18489	267-270A	N Rib	Sept 19/83
18490	267-270A	S Rib	Sept 19/83

Box 6: 18491-18623 Ribs, Adit 2

18491	270-273	N. Rib	Sept 19/83	
18492	270-273	S. Rib	Sept 19/83	
18493	252 (bottom)	N. Rib	Sept 20/83	
18494	252 (top)	N. Rib	Sept 20/83	
18495	252 (bottom)	S. Rib	Sept 20/83	
18496	255 (bottom)	N. Rib	Sept 20/83	
18497	255 (top)	N. Rib	Sept 20/83	
18499	258 (bottom)	N. Rib	Sept 20/83	
18500	258 (top)	N. Rib	Sept 20/83	
18601	258 (bottom)	S. Rib	Sept 20/83	
18602	261 (bottom)	N. Rib	Sept 20/83	
18603	261 (top)	N. Rib	Sept 21/83	
18604	261 (bottom)	S. Rib	Sept 21/83	
18605	264 (bottom)	N. Rib	Sept 21/83	
18606	264 (top)	N. Rib	Sept 21/83	
18607	264 (bottom)	S. Rib	Sept 21/83	
18608	267 (bottom)	N. Rib	Sept 21/83	
18610	267 (top)	N. Rib	Sept 21/83	
18611	267 (bottom)	S. Rib	Sept 21/83	
18612	267 (A) (bottom)	N. Rib	Sept 21/83	
18613	267 (A) (top)	N. Rib	Sept 21/83	
18614	267 (A) (bottom)	S. Rib	Sept 21/83	
18615	270 (A) (bottom)	N. Rib	Sept 21/83	
18616	270 (A) (top)	N. Rib	Sept 21/83	
18617	270 (A) (bottom)	S. Rib	Sept 21/83	
18618	273 (A) (bottom)	N. Rib	Sept 21/83	
18619	273 (A) (top)	N. Rib	Sept 21/83	
	R 131 D		Oct. 17/83	*resampled - check sample 15911 Bag 5*
18620	273 (A) (bottom)	S. Rib	Sept 21/83	
18621	273-276 (A)	N. Rib	Sept 24/83	
18622	273-276 (A)	S. Rib	Sept 24/83	
18623	276-279 (A)	N. Rib	Sept 24/83	

Box 7: 18624-18656 Ribs, Adit 2

18624	276-279 (A)	S. Rib	Sept 24/83	
18625	276 Bottom A	N. Rib	Sept 24/83	
18626	276 Top A	N Rib	Sept 24/83	
18627	276 Bottom A	S. Rib	Sept 24/83	
18628	279 Bottom (A)	N. Rib	Sept 24/83	
18629	279 Top A	N. Rib	Sept 24/83	
18630	279 Bottom (A)	S. Rib	Sept 24/83	
18631	279-282 A	N Rib	Sept 27/83	
18632	279-282 A	S. Rib	Sept 27/83	
18633	282-285 A	N Rib	Sept 27/83	
18634	282-285 A	S Rib	Sept 27/83	
18635	285-288 A	N. Rib	Sept 27/83	
18636	285-288 A	S. Rib	Sept 27/83	
18637	288-291 A	N. Rib	Sept 27/83	
18638	288-291 A	S. Rib	Sept 27/83	
18639	291-294 A	N Rib	Sept 27/83	
18640	291-294 A	S. Rib	Sept 27/83	
18641	294-297 A	N. Rib	Sept 27/83	*small sample - assay if possible*
18642	294-297A	S. Rib	Sept 27/83	
18643	297-300 A	N. Rib	Oct 1/83	
18644	297-300 A	S. Rib	Oct 1/83	
18647	303-306 A	N. Rib	Oct 4/83	
18650	306-309 A	S Rib	Oct 4/83	
18651	309-312A	N. Rib	Oct 4/83	
18652	309-312A	S. Rib	Oct 4/83	
18653	312-315A	N. Drift	Oct 6/83	
18654	312-315A	S. Rib	Oct 6/83	

Box 8: 18657-18691 Ribs, Adit 2

18657	318-321 A	N. Rib	Oct 6/83
18658	318-321 A	S. Rib	Oct 6/83
18659	321-324 A	N. Rib	Oct 6/83
18660	321-324A	S. Rib	Oct 6/83
18661	324-327 A	N. Rib	Oct 8/83
18662	324-327A	S. Rib	Oct 8/83
18663	327-330 A	N. Rib	Oct 8/83
18664	327-330 A	S. Rib	Oct 8/83
18665	330-333 A	N. Rib	Oct 8/83
18666	330-333 A	S. Rib	Oct 8/83
18667	333-336A	N. Rib	Oct 8/83
18668	333-336A	S Rib	Oct 8/83
18669	336-339 A	N Rib	Oct 8/83
18670	336-339A	S. Rib	Oct 8/83
18671	282 Bottom A	N. Rib	Oct 8/83
18672	282 Top A	N. Rib	Oct 8/83
18673	282 Bottom A	S. Rib	Oct 8/83
18674	285 Bottom A	N. Rib	Oct 8/83
18675	285 Top A	N. Rib	Oct 8/83
18676	285 Bottom A	S. Rib	Oct 8/83
18677	288 Bottom A	N. Rib	Oct 8/83
18678	288 Top A	N. Rib	Oct 8/83
18679	288 Bottom A	S. Rib	Oct 8/83
18680	291 Bottom A	N. Rib	Oct 8/83
18681	291 Top A	N. Rib	Oct 8/83
18682	291 Bottom A	S. Rib	Oct 8/83
18683	294 Bottom A	N. Rib	Oct 8/83
18684	294 Top A	N. Rib	Oct 8/83
18685	294 Bottom A	S. Rib	Oct 8/83
18686	297 Bottom A	N. Rib	Oct 8/83
18687	297 Top A	N. Rib	Oct 8/83
18688	297 Bottom A	S. Rib	Oct 8/83
18689	300 Bottom A	N. Rib	Oct 8/83
18690	300 Top A	N. Rib	Oct 8/83
18691	300 Bottom A	S. Rib	Oct 8/83

Box 9: 18692-18727 Ribs, Adit 2

18692	303 Bottom A	N. Rib	Oct 8/83
18693	303 Top A	N. Rib	Oct 8/83
18694	303 Bottom A	S. Rib	Oct 8/83
18695	306 Bottom A	N. Rib	Oct 9/83
18696	306 Top A	N. Rib	Oct 9/83
18697	306 Bottom A	S. Rib	Oct 9/83
18698	309 Bottom A	N. Rib	Oct 9/83
18699	309 Top A	N. Rib	Oct 9/83
18700	309 Bottom A	S. Rib	Oct 9/83
18701	312 Bottom A	N. Rib	Oct 9/83
18702	312 Top A	N. Rib	Oct 9/83
18703	312 Bottom A	S. Rib	Oct 9/83
18704	315 Bottom A	N. Rib	Oct 9/83
18705	315 Top A	N. Rib	Oct 9/83
18706	315 Bottom A	S. Rib	Oct 9/83
18707	318 Bottom A	N. Rib	Oct 9/83
18708	318 Top A	N. Rib	Oct 9/83
18709	318 Bottom A	S. Rib	Oct 9/83
18710	321 Bottom A	N. Rib	Oct 9/83
18711	321 Top A	N. Rib	Oct 9/83
18712	321 Bottom A	S. Rib	Oct 9/83
18713	324 Bottom A	N. Rib	Oct 9/83
18714	324 Top A	N. Rib	Oct 9/83
18715	324 Bottom A	S. Rib	Oct 9/83
18716	327 Bottom A	S. Rib	Oct 9/83
18717	327 Top A	N. Rib	Oct 9/83
18718	327 Bottom A	S. Rib	Oct 9/83
18719	330 Bottom A	N. Rib	Oct 9/83
18720	330 Top A	N. Rib	Oct 9/83
18721	330 Bottom A	S. Rib	Oct 9/83
18722	333 Bottom A	N. Rib	Oct 15/83
18723	333 Top A	N. Rib	Oct 15/83
18724	333 Bottom A	S. Rib	Oct 15/83
18725	336 Bottom A	N. Rib	Oct 15/83
18726	336 Top A	N. Rib	Oct 15/83
18727	336 Bottom A	S. Rib	Oct 15/83

Box 10: 18728 - 18761 Ribs, Adit 2

18728	336-339 220 x N	W Rib	Oct 15/83
18729	336-339 220 x N	E. Rib	Oct 15/83
18730	339-342 220 x N	W. Rib	Oct 15/83
18731	339-342 220 x N	E. Rib	Oct 15/83
18732	342-345 220 x N	W. Rib	Oct 15/83
18733	342-345 220 x N	E. Rib	Oct 15/83
18734	345-348 220 x N	W. Rib	Oct 15/83
18736	339 220 x N Bottom	W Rib	Oct 15/83
18737	339 220 x N Top	W. Rib	Oct 15/83
18738	339 220 x N Bottom	E. Rib	Oct 15/83
18739	342 220 x N Bottom	W. Rib	Oct 15/83
18740	342 220 x N Top	W. Rib	Oct 15/83
18741	342 220 x N Bottom	E. Rib	Oct 15/83
18742	345 220 x N Bottom	W. Rib	Oct 15/83
18743	345 220 X N Top	W. Rib	Oct 15/83
18744	345 220 x N Bottom	E. Rib	Oct 15/83
18745	348 220 x N Bottom	W Rib	Oct 15/83
18747	348 220 x N Bottom	E. Rib	Oct 15/83
18748	348-351 220 x N	W. Rib	Nov 14/83
18749	348-351 220 x N	E. Rib	Nov 14/83
18750	351-354 220 x N	W. Rib	Nov 14/83
18751	351-354 220 x N	E. Rib	Nov 14/83
18752	354-357 220 x N	W. Rib	Nov 14/83
18753	354-357 220 x N	E. Rib	Nov 14/83
18754	357-360 220 x N	W. Rib	Nov 14/83
18755	357-360 220 x N	E. Rib	Nov 14/83
18756	360-363 220 x N	W. Rib	Nov 14/83
18757	360-363 220 x N	E. Rib	Nov 14/83
18758	363-366 220 x N	W. Rib	Nov 14/83
18759	363-366 220 x N	W. Rib	Nov 14/83
18760	366-369 220 x N	W. Rib	Nov 14/83
18761	366-369 220 x N	E. Rib	Nov 14/83

Box 11: 18762-18782 Ribs, Adit 2

18762	351 BWR 220 x N	Nov 23/83
18763	351 TWR 220 x N	Nov 23/83
18764	351 BER 220 x N	Nov 23/83
18765	354 BWR 220 x N	Nov 23/83
18766	354 TWR 220 x N	Nov 23/83
18767	354 BER 220 x N	Nov 23/83
18768	357 BWR 220 x N	Nov 23/83
18769	357 TWR 220 x N	Nov 23/83
18770	357 BER 220 x N	Nov 23/83
18771	360 BWR 220 x N	Nov 23/83
18772	360 TWR 220 x N	Nov 23/83
18773	360 BER	Nov 23/83
18774		
18775	363 TWR	Nov 27/83
18776	363 BER	Nov 27/83
18779	366 BER	Nov 27/83
18780	367 BWR	Nov 27/83
18781	369 TWR	Nov 27/83
18782	369 BER	Nov 27/83

Box 1: 15978-16000, 15801-9 Rounds, Adit 2

15978		Aug 7/83	
15979		Aug 8/83	
15980		Aug 8/83	
15981		Aug 9/83	
15982		Aug 9/83	
15983		Aug 9/83	
15984		Aug 9/83	
15985		Aug 9/83	
15986	First Sample		
15987	First Sample		
15986	Resampled R.9D	Aug 14/83	*RESAMPLED*
15987	Resampled R10 N	Aug 14/83	*RESAMPLED*
15988	First Sample	Aug 12/783	
15988	Resampled R11 D	Aug 14/83	*RESAMPLED*
15989		Aug 12/83	
15990		Aug 13/83	
15991	R 14D	Aug 8/83	
15992	Rd 14D	Aug 13/83	
15993	R 16D	Aug 14/83	
15994	R 17N		
15995	R 18 N	Aug 14/83	
15996	R 19D	Aug 15/83	
15997	R 20 Safety Bay Night	Aug 15/83	
15998	R 21 D	Aug 16/83	
15999	R 22 N	Aug 16/83	*labelled #22N*
16000	R 23 N	Aug 16/83	
15801	R 24 N	Aug 17/83	
15802	R 25 N	Aug 17/83	
15803	R 26 D	Aug 18/83	
15804	R 27 N	Aug 18/83	
15805	R 28 N	Aug 18/83	
15806	R 29 N	Aug 19/83	
15807	R 30 N	Aug 19/83	
15808	R 31 N	Aug 19/83	
15809	R 32 D	Aug 20/83	

Box 3 15840 - 15870, Rounds Adit 2

15840	R-63 N	Sept 2/83	
15841	R 64 D	Sept 3/83	
Russ's Grab Sample		Sept 4/83	*No assay tag*
15842	R 65 N	Sept 3/83	
15844	R 67 Resampled #3	Sept 8/83	
15845	R 68 N	Sept 4/83	
15846	R 69	Sept 5/83	
15847	R 70 D	Sept 5/83	
15848	R 71 N	Sept 5/83	
15849	R 72 N	Sept 8/83	
15850	R 73 N	Sept 9/83	
15851	R S-71 N	Sept 9/83	
15852	R74	Sept 10/83	
15854	R76	Sept 11/83	
15855	R77	Sept 11/83	
15856	R 78 N	Sept 12/83	
15857	R 79 D	Sept 13/83	
15859	R 81 D	Sept 14/83	
15860	R 82 D	Sept 14/83	
15863	R 84 D	Sept 15/83	
15864	R 85 N	Sept 15/83	
15865	R 86	Sept 16/83	
15866	R 87 N	Sept 16/83	
15867	R 88 D	Sept 17/83	
15868	R 89 N	Sept 17/83	
15869	R 90 N	Sept 17/83	
15870	R 91 D	Sept 18/83	

Box 4: 15871 - 16900 Rounds, Adit 2

15871	R 92 D	Sept 20/83	
15872	R 93 N	Sept 20/83	
15873	R 94 N	Sept 21/83	
15873	R-94 N Resampled	Sept 24/83	*RESAMPLED*
15874	R 95 D	Sept 22/83	
15876	R 97 N	Sept 22/83	
15876	R 97 N Resampled	Sept 26/83	*RESAMPLED*
15878	R99-D	Sept 24/83	
15880	R 101 D	Sept 25/83	
15882	R 102 N	Sept 25/83	
15883	R 103 D	Sept 26/83	
15884	R 104	Sept 26/83	
15885	R 105 N	Sept 27/83	
15886	R 106 N	Sept 27/83	
15887	R 107 D	Sept 28/83	
15888	R 108 N	Sept 28/83	
15889	R 109 N	Sept 29/83	
15890	R 110	Sept 30/83	
15891	R 111	Sept 30/83	
15892	R112	Oct 1/83	
15893	R 113	Oct 1/83	
15894	R 114	Oct 2/83	
15895	R 115 N	Oct 2/83	
15896	R 116D	Oct 3/83	
15896	R 116 D Resampled	Oct 3/83	*RESAMPLED*
15897	R 117 N	Oct 3/83	
15898	R 118	Oct 5/83	
15899	R 119	Oct 10/83	
15900	R 120 N	Oct 10/83	

Box 6: 15951-15970, 15926 Round Raise

Assayed first as check box

15928	RS 23		Nov 11/83	
15951	RS 1		Sept 25/83	
15952	RS 2		Sept 26/83	
15953	RS 4		Oct 6/83	
15958	RS 9		Oct 24/83	
15959	RS 10		Oct 24/83	
15960	RS 11		Oct 27/83	
15961	RS 12		Oct 28/83	
15962	RS 13		Oct 28/83	
15963	RS 14		Oct 29/83	
15964	RS 15		Oct 31/83	*almost empty - assay if possible*
15965	RS 16		Nov 1/83	
15966	RS 17		Nov 1/83	
15967	RS 18		Nov 2/83	
15968	Slash RS 18		Nov 3/83	
15969	RS 19		Nov 4/83	
15970	RS 20		Nov 5/83	

Bag 1

18116	K# 4988			
18141	K# 5003			
18143	K# 5003			
18314	K# 5666			
18806	DDH S100/83	249.5 - 259.5	Oct 16/83	

Bag 2 from Box 2, Rounds Adit 2

15818	R 41 N	Aug 23/83	
15823	R 46 D	Aug 25/83	
15838A	R 64 N (A)	Sept 1/83	
15838B	Rd 61 - 2	Sept 4/83	*redone (?)*
15839A	R 62 D	Sept 2/83	
15839B	R 62 D	Sept 4/83	*2nd grab sample*
15837	R60 N	Aug 31/83	

Bag 3

14598	10.7	*small sample*
14563	XRAL K4892	
14673	XRAL K4934	

Bag 4 from Box 2, Rounds Adit 2

15822	R 45 N		*grab sample*
15824	R 47	Aug 25/83	
15825	R 48 N	Aug 26/83	
15827	R 50 N	Aug 26/83	
15828	R 51 N		
15829	R 52 D	Aug 27/83	
15831	R 54 D	Aug 29/83	
15832	R 55 N	Aug 29/83	

Bag 5	from Box 6, Rounds Adit 2		*Assayed first*
15908	R 128 D	Oct 15/83	
15910	R 130 D	Oct 16/83	
15911	R 131 D	Oct 17/83	*check against Box 6-ribs, R 131 D*
15957	RS 8	Oct 20/83	

Bag 6	from Box 2, Rounds Adit 2		
15800	contaminated		
15810	R 33 N	Aug 20/83	
15811	R 34 N	Aug 20/83	
15813	R 36 N	Aug 21/83	
15814	R 37 N	Aug 21/83	
15815	R 38 D	Aug 22/83	
15816	R 39 N	Aug 23/83	
15819	R 42 N	Aug 23/83	
15820	R 43 D	Aug 24/83	
15821	R 44 N	Aug 24/83	
Bag 7			*Yellow envelopes - reanalyzed previously*
15802		Aug 17/83	
15804		Aug 18/83	*Empty bag - cannot assay*
15991		Aug 13/83	
15993		Aug 14/83	
15995		Aug 14/83	
15996		Aug 15/83	
15997		Aug 15/83	
15998		Aug 16/83	
15999		Aug 16/83	
16000		Aug 16/83	

Bag 8	from Box 2, Rounds Adit 2		
15817	R 70 D	Aug 23/83	*Almost empty - assay if possible*
15826	R 49 D	Aug 26/83	
15830	R 53 N		
15835	R 58 N	Aug 30/83	
15836	R 59 D	Aug 31/83	

Appendix F

Assay Data

Assay Certificates:

SGS-F (Specific Ion), F converted to CaF_2
Adit 2, ribs & rounds: 506 samples: Boxes 1-11,
1 portal, to 11 end of adit,
Bags 1-8 random samples

SGS-55 element sodium peroxide fusion/ICP-OES and ICP-MS
Adult 2, ribs & rounds: 126 samples, 17 samples: Random Boxes
(Boxes 3-4, 6, 7-8, 11 end of adit)

SGS

Certificate of Analysis

Work Order: VC120237

To: Freeport Resources
COD SGS ASSAYERS
8711 Elsmore Road
Richmond
BC V7C 24A

Date: Mar 12, 2012

P.O. No.	:	BRENDA CLARK-BOX 1
Project No.	:	-
No. Of Samples	:	67
Date Submitted	:	Feb 15, 2012
Report Comprises	:	Pages 1 to 3 (Inclusive of Cover Sheet)

Distribution of unused material:
Active files - upstairs:

Comments:

CaF2 is calculated from F values.

Certified By : ____________________
Satpaul Gill
QAQC Chemist

SGS Minerals Services Geochemistry, Vancouver, BC is ISO 9001:2008 certified.

Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	--	= No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Methods marked with the @ symbol (e.g. @AAS21E) denote accredited tests

Element	F	F(R)	CaF2	CaF2(R)
Method	ISE07A	ISE07A	ISE07A	ISE07A
Det.Lim.	0.002	0.005	0.004	0.01
Units	%	%	%	%
18316	>0.5	0.872	>1.027	1.791
18317	>0.5	2.736	>1.027	5.622
18318	>0.5	4.321	>1.027	8.878
18319S	>0.5	5.152	>1.027	10.587
18320	>0.5	3.216	>1.027	6.608
18321	>0.5	1.384	>1.027	2.845
18322	>0.5	1.421	>1.027	2.919
18323	>0.5	5.933	>1.027	12.192
18324	>0.5	3.718	>1.027	7.641
18325	>0.5	7.300	>1.027	15.000
18326	>0.5	6.731	>1.027	13.830
18327	>0.5	3.832	>1.027	7.874
18328	>0.5	6.704	>1.027	13.775
18329	>0.5	3.660	>1.027	7.521
18330	>0.5	5.204	>1.027	10.693
18331	>0.5	4.822	>1.027	9.908
18332	>0.5	3.192	>1.027	6.560
18333	>0.5	2.724	>1.027	5.597
18334	>0.5	3.269	>1.027	6.716
18335	>0.5	5.945	>1.027	12.216
18336	>0.5	1.317	>1.027	2.707
18337	>0.5	3.500	>1.027	7.192
18338	>0.5	1.810	>1.027	3.720
18339	>0.5	1.216	>1.027	2.499
18340	>0.5	3.439	>1.027	7.067
18341	>0.5	1.025	>1.027	2.105
18342	>0.5	0.664	>1.027	1.365
18343	0.349	N.A.	0.718	N.A.
18344	>0.5	0.888	>1.027	1.825
18345	>0.5	1.673	>1.027	3.437
18346	0.253	N.A.	0.520	N.A.
18347	>0.5	2.139	>1.027	4.395
18348	0.398	N.A.	0.818	N.A.
15978	>0.5	1.571	>1.027	3.229
15979	>0.5	3.981	>1.027	8.180
15980	>0.5	4.213	>1.027	8.657
15981	>0.5	4.980	>1.027	10.232
15982	>0.5	5.782	>1.027	11.881
15983	>0.5	4.434	>1.027	9.111
15984	>0.5	3.427	>1.027	7.042
15985	>0.5	3.461	>1.027	7.112
15986 FIRST SAMPLE	>0.5	3.601	>1.027	7.399
15987 FIRST SAMPLE	>0.5	4.013	>1.027	8.246

Final : VC120237 Order: BRENDA CLARK-BOX 1

Element	F	F(R)	CaF2	CaF2(R)
Method	ISE07A	ISE07A	ISE07A	ISE07A
Det.Lim.	0.002	0.005	0.004	0.01
Units	%	%	%	%
15986 RESAMPLED R.9D	>0.5	3.090	>1.027	6.349
15987 RESAMPLED R10 N	>0.5	3.853	>1.027	7.917
15988 FIRST SAMPLE	>0.5	2.661	>1.027	5.469
15988 FIRST RESAMPLED R11 D	>0.5	3.268	>1.027	6.715
15990	>0.5	2.075	>1.027	4.263
15991	>0.5	1.766	>1.027	3.628
15992	>0.5	1.632	>1.027	3.353
15993	>0.5	0.863	>1.027	1.773
15994	>0.5	1.029	>1.027	2.115
15995	>0.5	0.878	>1.027	1.803
15996	>0.5	0.971	>1.027	1.995
15997	>0.5	2.255	>1.027	4.633
15998	>0.5	1.793	>1.027	3.684
15999	>0.5	1.471	>1.027	3.022
16000	>0.5	1.759	>1.027	3.614
15801	>0.5	1.412	>1.027	2.901
15802	>0.5	0.640	>1.027	1.315
15803	>0.5	0.937	>1.027	1.925
15804	>0.5	0.924	>1.027	1.898
15805	>0.5	1.058	>1.027	2.174
15806	>0.5	0.758	>1.027	1.558
15807	>0.5	0.731	>1.027	1.502
15808	>0.5	0.663	>1.027	1.363
15809	0.407	N.A.	0.837	N.A.

Certificate of Analysis

Work Order: VC120239

To: Freeport Resources
COD SGS ASSAYERS
8711 Elsmore Road
Richmond
BC V7C 24A

Date: Mar 12, 2012

P.O. No.	:	BRENDA CLARK-BOX 2/3
Project No.	:	-
No. Of Samples	:	68
Date Submitted	:	Feb 15, 2012
Report Comprises	:	Pages 1 to 3 (Inclusive of Cover Sheet)

Distribution of unused material:
Active files - upstairs:

Comments:

CaF_2 is calculated from F values.

Certified By :

Satpaul Gill
QAQC Chemist

SGS Minerals Services Geochemistry, Vancouver, BC is ISO 9001:2008 certified.

Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	--	= No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Methods marked with the @ symbol (e.g. @AAS21E) denote accredited tests

SGS Canada Inc. | Mineral Services 8282 Sherbrooke Street Vancouver BC t(604) 327-3436 f(604) 327-3423 www.ca.sgs.com

Element	F	F(R)	CaF2	CaF2(R)
Method	ISE07A	ISE07A	ISE07A	ISE07A
Det.Lim.	0.002	0.005	0.004	0.01
Units	%	%	%	%
18349	>0.5	3.058	>1.027	6.283
18350	0.480	N.A.	0.986	N.A.
18351	0.172	N.A.	0.353	N.A.
18352	>0.5	1.411	>1.027	2.899
18353	0.118	N.A.	0.243	N.A.
18354	>0.5	3.239	>1.027	6.655
18355	0.126	N.A.	0.258	N.A.
18356	>0.5	2.978	>1.027	6.119
18357	0.215	N.A.	0.443	N.A.
18358	>0.5	3.865	>1.027	7.942
18359	>0.5	0.668	>1.027	1.373
18360	>0.5	2.147	>1.027	4.411
18361	>0.5	3.545	>1.027	7.284
18362	0.155	N.A.	0.319	N.A.
18363	0.419	N.A.	0.860	N.A.
18364	>0.5	0.620	>1.027	1.274
18365	>0.5	0.649	>1.027	1.334
18366	>0.5	2.128	>1.027	4.373
18367	0.201	N.A.	0.413	N.A.
18368	>0.5	1.326	>1.027	2.725
18369	0.498	N.A.	1.023	N.A.
18370	0.159	N.A.	0.327	N.A.
18371	0.440	N.A.	0.903	N.A.
18380	>0.5	2.072	>1.027	4.258
18381	>0.5	0.599	>1.027	1.230
18382	>0.5	1.303	>1.027	2.676
18383	>0.5	0.916	>1.027	1.882
18384	>0.5	8.636	>1.027	17.745
18385	>0.5	4.177	>1.027	8.583
18386	>0.5	6.431	>1.027	13.215
18387	>0.5	4.848	>1.027	9.962
18388	>0.5	5.099	>1.027	10.478
18389	>0.5	1.971	>1.027	4.051
18390	>0.5	4.842	>1.027	9.950
18391	>0.5	3.096	>1.027	6.362
18392	>0.5	6.265	>1.027	12.874
18393	>0.5	0.923	>1.027	1.897
18394	>0.5	1.340	>1.027	2.753
18395	>0.5	4.917	>1.027	10.103
18396	>0.5	1.458	>1.027	2.996
18397	>0.5	6.445	>1.027	13.242
18398	>0.5	0.972	>1.027	1.997
18399	>0.5	5.787	>1.027	11.891

Element	F	F(R)	CaF2	CaF2(R)
Method	ISE07A	ISE07A	ISE07A	ISE07A
Det.Lim.	0.002	0.005	0.004	0.01
Units	%	%	%	%
18400	>0.5	2.773	>1.027	5.698
18401	>0.5	1.491	>1.027	3.063
18402	>0.5	1.810	>1.027	3.720
18403	>0.5	2.699	>1.027	5.546
18404	>0.5	1.025	>1.027	2.107
18405	>0.5	0.891	>1.027	1.830
18406	>0.5	3.047	>1.027	6.261
18407	0.483	N.A.	0.992	N.A.
18408	>0.5	2.610	>1.027	5.362
18409	>0.5	2.899	>1.027	5.957
18410	>0.5	2.288	>1.027	4.702
18411	>0.5	0.933	>1.027	1.917
18412	>0.5	2.201	>1.027	4.523
18413	>0.5	1.370	>1.027	2.816
18414	>0.5	5.761	>1.027	11.838
18415	>0.5	4.392	>1.027	9.025
18416	>0.5	2.793	>1.027	5.739
18417	>0.5	3.106	>1.027	6.383
18418	>0.5	1.873	>1.027	3.849
18419	>0.5	4.007	>1.027	8.234
18420	>0.5	2.621	>1.027	5.385
18421	>0.5	1.394	>1.027	2.864
18422	>0.5	1.686	>1.027	3.464
18423	0.322	N.A.	0.661	N.A.
18424	>0.5	2.683	>1.027	5.514

SGS

Certificate of Analysis

Work Order: VC120240

To: Freeport Resources
COD SGS ASSAYERS
8711 Elsmore Road
Richmond
BC V7C 24A

Date: Apr 25, 2012

P.O. No.	:	BRENDA CLARK-BOX 3/4
Project No.	:	-
No. Of Samples	:	61
Date Submitted	:	Feb 15, 2012
Report Comprises	:	Pages 1 to 3 (Inclusive of Cover Sheet)

Distribution of unused material:
Long Term - Store as per client:

Comments:

CaF2 is calculated from F values.

Certified By : Satpaul Gill
QAQC Chemist

SGS Minerals Services Geochemistry, Vancouver, BC is ISO 9001:2008 certified.

Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	--	= No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Methods marked with the @ symbol (e.g. @AAS21E) denote accredited tests

SGS Canada Inc. | Mineral Services 8282 Sherbrooke Street Vancouver BC t(604) 327-3436 f(604) 327-3423 www.ca.sgs.com

Element	CaF2	CaF2	CaF2	CaF2(R)
Method	ISE07A	ISE07A	ISE07A	ISE07A
Det.Lim.	20	20	0.004	0.01
Units	ppm	ppm	%	%
15840	N.A.	N.A.	>1.027	9.781
15841	N.A.	N.A.	>1.027	12.288
RUSS'S GRAB SAMPLE	N.A.	N.A.	>1.027	7.644
15842	N.A.	N.A.	>1.027	15.658
15844	N.A.	N.A.	>1.027	5.630
15845	N.A.	N.A.	>1.027	5.795
15846	N.A.	N.A.	>1.027	8.630
15847	N.A.	N.A.	>1.027	8.014
15848	N.A.	N.A.	>1.027	8.116
15849	N.A.	N.A.	>1.027	2.897
15850	N.A.	N.A.	>1.027	7.890
15851	N.A.	N.A.	>1.027	11.055
15852	N.A.	N.A.	>1.027	9.678
15854	N.A.	N.A.	>1.027	11.712
15855	N.A.	N.A.	>1.027	2.047
15856	N.A.	N.A.	0.968	N.A.
15857	N.A.	N.A.	>1.027	1.151
15859	N.A.	N.A.	>1.027	1.560
15860	N.A.	N.A.	>1.027	1.416
15863	N.A.	N.A.	>1.027	13.808
15864	N.A.	N.A.	>1.027	7.192
15865	N.A.	N.A.	>1.027	7.192
15866	N.A.	N.A.	>1.027	5.938
15867	N.A.	N.A.	>1.027	3.678
15868	N.A.	N.A.	>1.027	2.301
15869	N.A.	N.A.	>1.027	7.911
15870	N.A.	N.A.	>1.027	8.733
18425	N.A.	N.A.	>1.027	8.384
18426	N.A.	N.A.	>1.027	8.178
18427	N.A.	N.A.	>1.027	5.753
18428	N.A.	N.A.	>1.027	8.178
18429	N.A.	N.A.	>1.027	12.308
18430	N.A.	N.A.	>1.027	5.445
18431	N.A.	N.A.	>1.027	8.877
18432	N.A.	N.A.	>1.027	10.479
18433	N.A.	N.A.	>1.027	9.904
18434	N.A.	N.A.	>1.027	9.041
18435	N.A.	N.A.	>1.027	13.911
18436	N.A.	N.A.	>1.027	11.158
18437	N.A.	N.A.	>1.027	7.911
18438	N.A.	N.A.	>1.027	9.904
18439	N.A.	N.A.	>1.027	11.897
18440	N.A.	N.A.	>1.027	6.164

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Element	CaF2	CaF2	CaF2	CaF2(R)
Method	ISE07A	ISE07A	ISE07A	ISE07A
Det.Lim.	20	20	0.004	0.01
Units	ppm	ppm	%	%
18441	N.A.	N.A.	>1.027	6.247
18442	N.A.	N.A.	>1.027	8.445
18443	N.A.	N.A.	>1.027	9.493
18444	N.A.	N.A.	>1.027	6.699
18445	N.A.	N.A.	>1.027	12.390
18446	N.A.	N.A.	>1.027	5.281
18447	N.A.	N.A.	>1.027	7.007
18448	N.A.	N.A.	>1.027	2.178
18449	N.A.	N.A.	>1.027	2.116
18450	N.A.	N.A.	>1.027	6.555
18451	N.A.	N.A.	>1.027	2.425
18452	N.A.	N.A.	>1.027	23.014
18453	N.A.	N.A.	>1.027	12.699
18454	N.A.	N.A.	>1.027	9.986
18455	N.A.	N.A.	>1.027	13.623
18456	N.A.	N.A.	>1.027	2.260
18457	N.A.	N.A.	>1.027	13.849
18458	N.A.	N.A.	>1.027	4.397

Certificate of Analysis

Work Order: VC120241

To: Freeport Resources
COD SGS ASSAYERS
8711 Elsmore Road
Richmond
BC V7C 24A

Date: Mar 12, 2012

P.O. No.	:	BRENDA CLARK-BOX 4/5
Project No.	:	-
No. Of Samples	:	61
Date Submitted	:	Feb 15, 2012
Report Comprises	:	Pages 1 to 3 (Inclusive of Cover Sheet)

Distribution of unused material:
Active files - upstairs:

Comments:

CaF_2 is calculated from F values.

Certified By : ______________________
Satpaul Gill
QAQC Chemist

SGS Minerals Services Geochemistry, Vancouver, BC is ISO 9001:2008 certified.

Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	--	= No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Methods marked with the @ symbol (e.g. @AAS21E) denote accredited tests

SGS

Element	F	F(R)	CaF2	CaF2(R)
Method	ISE07A	ISE07A	ISE07A	ISE07A
Det.Lim.	0.002	0.005	0.004	0.01
Units	%	%	%	%
15871	>0.5	0.839	>1.027	1.725
15872	>0.5	4.020	>1.027	8.259
15873 R 94 N	>0.5	3.032	>1.027	6.231
15873 R-94 N RESAMPLED	>0.5	2.789	>1.027	5.732
15874	>0.5	3.632	>1.027	7.463
15876 R 97 N	>0.5	2.904	>1.027	5.967
15876 R 97 N RESAMPLED	>0.5	2.097	>1.027	4.308
15878	>0.5	6.071	>1.027	12.476
15880	0.126	N.A.	0.258	N.A.
15882	>0.5	1.737	>1.027	3.569
15883	>0.5	2.800	>1.027	5.753
15884	>0.5	7.588	>1.027	15.591
15885	>0.5	0.994	>1.027	2.042
15886	>0.5	0.935	>1.027	1.920
15887	>0.5	1.602	>1.027	3.292
15888	>0.5	6.957	>1.027	14.295
15889	>0.5	6.427	>1.027	13.206
15890	>0.5	2.765	>1.027	5.682
15891	>0.5	1.083	>1.027	2.226
15892	0.385	N.A.	0.791	N.A.
15893	>0.5	0.544	>1.027	1.117
15894	>0.5	1.313	>1.027	2.698
15895	>0.5	2.106	>1.027	4.328
15896 R 116D	>0.5	1.311	>1.027	2.695
15896 R 116D RESAMPLED	>0.5	1.394	>1.027	2.865
15897	>0.5	1.071	>1.027	2.200
15898	>0.5	1.108	>1.027	2.276
15899	>0.5	1.295	>1.027	2.661
15900	>0.5	0.809	>1.027	1.663
18459	>0.5	3.184	>1.027	6.543
18460	>0.5	5.582	>1.027	11.469
18461	>0.5	3.907	>1.027	8.029
18462	>0.5	6.481	>1.027	13.317
18463	>0.5	7.157	>1.027	14.706
18464	>0.5	5.000	>1.027	10.274
18465	>0.5	1.806	>1.027	3.712
18466	>0.5	1.990	>1.027	4.090
18467	>0.5	3.931	>1.027	8.077
18468	>0.5	0.972	>1.027	1.997
18469	>0.5	4.318	>1.027	8.872
18470	>0.5	4.615	>1.027	9.482
18471	>0.5	4.938	>1.027	10.146
18472	>0.5	4.650	>1.027	9.555

Element	F	F(R)	CaF2	CaF2(R)
Method	ISE07A	ISE07A	ISE07A	ISE07A
Det.Lim.	0.002	0.005	0.004	0.01
Units	%	%	%	%
18473	>0.5	6.346	>1.027	13.039
18474	>0.5	3.676	>1.027	7.554
18475	>0.5	7.081	>1.027	14.550
18476	>0.5	9.000	>1.027	18.493
18477	>0.5	1.776	>1.027	3.648
18478	>0.5	3.051	>1.027	6.268
18479	>0.5	5.206	>1.027	10.697
18480	>0.5	6.689	>1.027	13.745
18481	>0.5	1.915	>1.027	3.935
18482	>0.5	1.340	>1.027	2.754
18483	>0.5	7.175	>1.027	14.743
18484	0.270	N.A.	0.554	N.A.
18485	>0.5	0.962	>1.027	1.977
18486	>0.5	1.707	>1.027	3.508
18487	>0.5	2.930	>1.027	6.021
18488	>0.5	2.031	>1.027	4.173
18489	>0.5	5.085	>1.027	10.449
18490	>0.5	1.667	>1.027	3.425

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Certificate of Analysis

Work Order: VC120242

To: Freeport Resources
COD SGS ASSAYERS
8711 Elsmore Road
Richmond
BC V7C 24A

Date: Apr 25, 2012

P.O. No.	:	BRENDA CLARK-BOX 6
Project No.	:	-
No. Of Samples	:	48
Date Submitted	:	Feb 15, 2012
Report Comprises	:	Pages 1 to 3 (Inclusive of Cover Sheet)

Distribution of unused material:
Long Term - Store as per client:

Comments:

CaF_2 is calculated from F values.

Certified By :
Satpaul Gill
QAQC Chemist

SGS Minerals Services Geochemistry, Vancouver, BC is ISO 9001:2008 certified.

Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	--	= No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Methods marked with the @ symbol (e.g. @AAS21E) denote accredited tests

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Final : VC120242 Order: BRENDA CLARK-BOX 6

Element	F	F(R)	CaF2	CaF2(R)
Method	ISE07A	ISE07A	ISE07A	ISE07A
Det.Lim.	0.002	0.005	0.004	0.01
Units	%	%	%	%
18491	>0.5	8.464	>1.027	17.391
18492	0.304	N.A.	0.624	N.A.
18493	>0.5	3.237	>1.027	6.652
18494	>0.5	1.038	>1.027	2.133
18495	>0.5	5.845	>1.027	12.011
18496	>0.5	4.548	>1.027	9.346
18497	>0.5	2.724	>1.027	5.597
18499	>0.5	7.326	>1.027	15.054
18500	>0.5	5.411	>1.027	11.118
18601	>0.5	4.748	>1.027	9.755
18602	>0.5	7.069	>1.027	14.525
18603	>0.5	0.771	>1.027	1.585
18604	>0.5	3.190	>1.027	6.555
18605	0.408	N.A.	0.839	N.A.
18606	>0.5	1.433	>1.027	2.945
18607	>0.5	0.514	>1.027	1.056
18608	>0.5	1.510	>1.027	3.103
18610	>0.5	0.739	>1.027	1.519
18611	>0.5	3.777	>1.027	7.760
18612	>0.5	2.586	>1.027	5.313
18613	>0.5	1.384	>1.027	2.840
18614	>0.5	0.555	>1.027	1.141
18615	>0.5	8.351	>1.027	17.160
18616	>0.5	6.817	>1.027	14.008
18617	0.346	N.A.	0.711	N.A.
18618	>0.5	10.417	>1.027	21.404
18619	>0.5	7.991	>1.027	16.419
18620	0.164	N.A.	0.338	N.A.
18621	>0.5	7.808	>1.027	16.043
18622	>0.5	1.500	>1.027	3.082
18623	0.490	N.A.	1.007	N.A.
15928	>0.5	0.718	>1.027	1.475
15951	>0.5	1.041	>1.027	2.140
15952	>0.5	1.430	>1.027	2.938
15953	>0.5	2.550	>1.027	5.241
15958	>0.5	3.781	>1.027	7.770
15959	>0.5	1.255	>1.027	2.579
15960	>0.5	1.490	>1.027	3.062
15961	>0.5	1.333	>1.027	2.740
15962	>0.5	0.600	>1.027	1.233
15963	>0.5	0.649	>1.027	1.333
15964	>0.5	1.181	>1.027	2.427
15965	>0.5	0.770	>1.027	1.582

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Element	F	F(R)	CaF2	CaF2(R)
Method	ISE07A	ISE07A	ISE07A	ISE07A
Det.Lim.	0.002	0.005	0.004	0.01
Units	%	%	%	%
15966	>0.5	1.160	>1.027	2.383
15967	>0.5	0.857	>1.027	1.761
15968	>0.5	0.782	>1.027	1.607
15969	>0.5	0.847	>1.027	1.741
15970	>0.5	0.864	>1.027	1.776

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Certificate of Analysis

Work Order: VC120243

To: **Freeport Resources**
COD SGS ASSAYERS
8711 Elsmore Road
Richmond
BC V7C 24A

Date: Apr 25, 2012

P.O. No.	:	BRENDA CLARK-BOX 7/8
Project No.	:	-
No. Of Samples	:	62
Date Submitted	:	Feb 15, 2012
Report Comprises	:	Pages 1 to 3 (Inclusive of Cover Sheet)

Distribution of unused material:
Long Term - Store as per client:

Comments:

CaF2 is calcuilated from F values.

Certified By : ______________________
Satpaul Gill
QAQC Chemist

SGS Minerals Services Geochemistry, Vancouver, BC is ISO 9001:2008 certified.

Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	--	= No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Methods marked with the @ symbol (e.g. @AAS21E) denote accredited tests

Final : VC120243 Order: BRENDA CLARK-BOX 7/8

Element	F	F(R)	CaF2	CaF2(R)
Method	ISE07A	ISE07A	ISE07A	ISE07A
Det.Lim.	0.002	0.005	0.004	0.01
Units	%	%	%	%
18624	>0.5	0.542	>1.027	1.115
18625	>0.5	1.111	>1.027	2.283
18626	>0.5	4.089	>1.027	8.402
18627	0.420	N.A.	0.864	N.A.
18628	>0.5	4.449	>1.027	9.142
18629	>0.5	5.745	>1.027	11.804
18630	>0.5	5.922	>1.027	12.168
18631	>0.5	3.889	>1.027	7.991
18632	>0.5	2.375	>1.027	4.880
18633	>0.5	6.274	>1.027	12.891
18634	>0.5	2.228	>1.027	4.579
18635	>0.5	5.277	>1.027	10.842
18636	>0.5	3.866	>1.027	7.944
18637	>0.5	4.468	>1.027	9.181
18638	>0.5	5.389	>1.027	11.074
18639	>0.5	3.154	>1.027	6.481
18640	>0.5	5.734	>1.027	11.782
18641	>0.5	8.344	>1.027	17.145
18642	>0.5	1.644	>1.027	3.379
18643	>0.5	5.777	>1.027	11.870
18644	>0.5	5.592	>1.027	11.490
18647	>0.5	3.475	>1.027	7.141
18650	>0.5	6.611	>1.027	13.583
18651	>0.5	4.374	>1.027	8.987
18652	>0.5	1.196	>1.027	2.458
18653	>0.5	1.309	>1.027	2.689
18654	>0.5	0.968	>1.027	1.990
18657	>0.5	3.802	>1.027	7.813
18658	>0.5	5.980	>1.027	12.288
18659	>0.5	1.697	>1.027	3.487
18660	>0.5	4.384	>1.027	9.008
18661	>0.5	1.255	>1.027	2.578
18662	>0.5	1.673	>1.027	3.438
18663	>0.5	0.750	>1.027	1.542
18664	>0.5	4.120	>1.027	8.467
18665	>0.5	7.446	>1.027	15.299
18666	>0.5	7.281	>1.027	14.962
18667	>0.5	5.196	>1.027	10.676
18668	>0.5	5.286	>1.027	10.861
18669	>0.5	3.117	>1.027	6.405
18670	>0.5	2.649	>1.027	5.444
18671	>0.5	2.943	>1.027	6.047
18672	>0.5	4.957	>1.027	10.187

SGS

Element	F	F(R)	CaF2	CaF2(R)
Method	ISE07A	ISE07A	ISE07A	ISE07A
Det.Lim.	0.002	0.005	0.004	0.01
Units	%	%	%	%
18673	>0.5	1.344	>1.027	2.761
18674	>0.5	5.050	>1.027	10.376
18675	>0.5	4.766	>1.027	9.793
18676	>0.5	3.653	>1.027	7.507
18677	0.105	N.A.	0.215	N.A.
18678	>0.5	1.457	>1.027	2.995
18679	0.258	N.A.	0.530	N.A.
18680	>0.5	1.094	>1.027	2.247
18681	0.321	N.A.	0.660	N.A.
18682	>0.5	1.170	>1.027	2.405
18683	>0.5	7.894	>1.027	16.221
18684	>0.5	6.561	>1.027	13.481
18685	>0.5	0.814	>1.027	1.672
18686	>0.5	1.200	>1.027	2.466
18687	>0.5	1.761	>1.027	3.619
18688	>0.5	12.784	>1.027	26.268
18689	>0.5	2.863	>1.027	5.883
18690	>0.5	3.229	>1.027	6.636
18691	>0.5	6.963	>1.027	14.307

SGS Canada Inc. | Mineral Services 8282 Sherbrooke Street Vancouver BC t(604) 327-3436 f(604) 327-3423 www.ca.sgs.com

Certificate of Analysis

Work Order: VC120244

To: Freeport Resources
COD SGS ASSAYERS
8711 Elsmore Road
Richmond
BC V7C 24A

Date: Mar 14, 2012

P.O. No.	:	BRENDA CLARK-BOX 9/10
Project No.	:	-
No. Of Samples	:	69
Date Submitted	:	Feb 15, 2012
Report Comprises	:	Pages 1 to 3 (Inclusive of Cover Sheet)

Distribution of unused material:
Active files - upstairs:

Comments:

CaF2 is calculated from F values.

Certified By : ____________________
Satpaul Gill
QAQC Chemist

SGS Minerals Services Geochemistry, Vancouver, BC is ISO 9001:2008 certified.

Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	--	= No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Methods marked with the @ symbol (e.g. @AAS21E) denote accredited tests

SGS

Element	F	F(R)	CaF2	CaF2(R)
Method	ISE07A	ISE07A	ISE07A	ISE07A
Det.Lim.	0.002	0.005	0.004	0.01
Units	%	%	%	%
18692	>0.5	4.351	>1.027	8.940
18693	>0.5	3.397	>1.027	6.981
18694	>0.5	12.395	>1.027	25.469
18695	>0.5	2.677	>1.027	5.501
18696	>0.5	1.311	>1.027	2.695
18697	>0.5	5.799	>1.027	11.915
18698	>0.5	1.006	>1.027	2.068
18699	>0.5	2.924	>1.027	6.009
18700	>0.5	3.101	>1.027	6.371
18701	>0.5	0.825	>1.027	1.696
18702	>0.5	0.909	>1.027	1.867
18703	>0.5	0.571	>1.027	1.173
18704	>0.5	2.940	>1.027	6.041
18705	>0.5	0.984	>1.027	2.022
18706	>0.5	1.001	>1.027	2.057
18707	>0.5	3.162	>1.027	6.497
18708	>0.5	1.415	>1.027	2.907
18709	>0.5	2.731	>1.027	5.612
18710	>0.5	6.405	>1.027	13.162
18711	>0.5	3.113	>1.027	6.396
18712	>0.5	13.163	>1.027	27.048
18713	>0.5	0.688	>1.027	1.413
18714	>0.5	1.123	>1.027	2.307
18715	0.242	N.A.	0.497	N.A.
18716	0.313	N.A.	0.643	N.A.
18717	>0.5	6.993	>1.027	14.369
18718	>0.5	2.342	>1.027	4.813
18719	>0.5	7.155	>1.027	14.703
18720	>0.5	5.923	>1.027	12.171
18721	>0.5	5.279	>1.027	10.848
18722	>0.5	1.441	>1.027	2.961
18723	>0.5	4.283	>1.027	8.800
18724	>0.5	8.435	>1.027	17.332
18725	>0.5	7.383	>1.027	15.170
18726	>0.5	5.134	>1.027	10.549
18727	>0.5	5.858	>1.027	12.038
18728	>0.5	6.816	>1.027	14.005
18729	>0.5	3.317	>1.027	6.815
18730	>0.5	3.288	>1.027	6.757
18731	>0.5	3.412	>1.027	7.010
18732	>0.5	5.049	>1.027	10.374
18733	>0.5	7.809	>1.027	16.045
18734	>0.5	5.131	>1.027	10.544

SGS

Element	F	F(R)	CaF2	CaF2(R)
Method	ISE07A	ISE07A	ISE07A	ISE07A
Det.Lim.	0.002	0.005	0.004	0.01
Units	%	%	%	%
18736	>0.5	8.561	>1.027	17.592
18737	>0.5	5.048	>1.027	10.373
18738	>0.5	3.490	>1.027	7.172
18739	>0.5	5.204	>1.027	10.693
18740	>0.5	6.094	>1.027	12.521
18741	>0.5	6.192	>1.027	12.723
18742	>0.5	6.202	>1.027	12.744
18743	>0.5	8.740	>1.027	17.959
18744	>0.5	5.051	>1.027	10.379
18745	>0.5	4.558	>1.027	9.365
18746	L.N.R.	L.N.R.	L.N.R.	L.N.R.
18747	>0.5	8.863	>1.027	18.212
18748	>0.5	4.685	>1.027	9.627
18749	>0.5	6.043	>1.027	12.418
18750	>0.5	3.417	>1.027	7.022
18751	>0.5	6.607	>1.027	13.577
18752	>0.5	3.347	>1.027	6.876
18753	>0.5	6.471	>1.027	13.296
18754	>0.5	5.870	>1.027	12.062
18755	>0.5	4.359	>1.027	8.957
18756	>0.5	2.087	>1.027	4.288
18757	>0.5	5.537	>1.027	11.377
18758	>0.5	4.000	>1.027	8.219
18759	>0.5	0.531	>1.027	1.090
18760	>0.5	1.376	>1.027	2.828
18761	>0.5	0.687	>1.027	1.412

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Certificate of Analysis

Work Order: VC120245

To: Freeport Resources
COD SGS ASSAYERS
8711 Elsmore Road
Richmond
BC V7C 24A

Date: Apr 25, 2012

P.O. No.	:	BRENDA CLARK-BOX 11
Project No.	:	-
No. Of Samples	:	19
Date Submitted	:	Feb 15, 2012
Report Comprises	:	Pages 1 to 2 (Inclusive of Cover Sheet)

Distribution of unused material:
Long Term - Store as per client:

Comments:

CaF2 is calculated from F values.

Certified By : ____________________
Satpaul Gill
QAQC Chemist

SGS Minerals Services Geochemistry, Vancouver, BC is ISO 9001:2008 certified.

Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	--	= No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Methods marked with the @ symbol (e.g. @AAS21E) denote accredited tests

SGS

Element	F	F(R)	CaF2	CaF2(R)
Method	ISE07A	ISE07A	ISE07A	ISE07A
Det.Lim.	0.002	0.005	0.004	0.01
Units	%	%	%	%
18762	>0.5	5.111	>1.027	10.502
18763	>0.5	0.628	>1.027	1.290
18764	>0.5	5.697	>1.027	11.706
18765	>0.5	2.806	>1.027	5.766
18766	>0.5	4.991	>1.027	10.255
18767	>0.5	7.020	>1.027	14.424
18768	>0.5	3.590	>1.027	7.377
18769	>0.5	1.897	>1.027	3.898
18770	>0.5	5.121	>1.027	10.524
18771	0.229	0.229	0.471	0.471
18772	>0.5	1.748	>1.027	3.591
18773	>0.5	7.636	>1.027	15.689
18774	>0.5	1.238	>1.027	2.543
18775	>0.5	3.943	>1.027	8.102
18776	0.290	N.A.	0.595	N.A.
18779	I.S.	I.S.	I.S.	I.S.
18780	I.S.	I.S.	I.S.	I.S.
18781	>0.5	8.833	>1.027	18.151
18782	0.199	N.A.	0.409	N.A.

Certificate of Analysis

Work Order: VC120259

To: Freeport Resources
COD SGS ASSAYERS
8711 Elsmore Road
Richmond
BC V7C 24A

Date: Mar 15, 2012

P.O. No.	:	BRENDA CLARK-BAG 1/2/3/4/5/6/7/8
Project No.	:	-
No. Of Samples	:	54
Date Submitted	:	Feb 15, 2012
Report Comprises	:	Pages 1 to 3 (Inclusive of Cover Sheet)

Distribution of unused material:
Active files - upstairs:

Certified By :

Satpaul Gill
QAQC Chemist

SGS Minerals Services Geochemistry, Vancouver, BC is ISO 9001:2008 certified.

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result
*INF = Composition of this sample makes detection impossible by this method
M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion
Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Methods marked with the @ symbol (e.g. @AAS21E) denote accredited tests

SGS

Element	F	F(R)	CaF2	CaF2(R)
Method	ISE07A	ISE07A	ISE07A	ISE07A
Det.Lim.	0.002	0.005	0.004	0.01
Units	%	%	%	%
18116	>0.5	4.137	>1.027	8.500
18141	>0.5	3.274	>1.027	6.727
18143	>0.5	4.245	>1.027	8.722
18314	>0.5	3.562	>1.027	7.319
18806	>0.5	2.915	>1.027	5.990
15818	0.479	N.A.	0.983	N.A.
15823	>0.5	1.764	>1.027	3.624
15838A	>0.5	4.989	>1.027	10.252
15838B	>0.5	3.880	>1.027	7.973
15839A	>0.5	4.755	>1.027	9.771
15839B	>0.5	4.981	>1.027	10.235
15837	>0.5	3.189	>1.027	6.552
14598	>0.5	4.814	>1.027	9.891
14563	>0.5	1.724	>1.027	3.543
14673	>0.5	3.287	>1.027	6.755
15822	>0.5	0.815	>1.027	1.675
15824	>0.5	3.020	>1.027	6.205
15825	>0.5	2.028	>1.027	4.167
15827	>0.5	1.525	>1.027	3.133
15828	>0.5	1.384	>1.027	2.844
15829	>0.5	2.491	>1.027	5.118
15831	>0.5	0.605	>1.027	1.243
15832	>0.5	0.968	>1.027	1.988
15908	0.257	N.A.	0.528	N.A.
15910	>0.5	3.709	>1.027	7.621
15911	>0.5	2.210	>1.027	4.541
15957	>0.5	1.760	>1.027	3.616
15800	>0.5	3.115	>1.027	6.400
15810	0.294	N.A.	0.605	N.A.
15811	0.338	N.A.	0.694	N.A.
15813	0.123	N.A.	0.252	N.A.
15814	0.250	N.A.	0.514	N.A.
15815	>0.5	0.733	>1.027	1.505
15816	>0.5	0.599	>1.027	1.231
15819	0.457	N.A.	0.940	N.A.
15820	>0.5	1.366	>1.027	2.806
15821	>0.5	0.620	>1.027	1.274
15802	>0.5	0.605	>1.027	1.244
15804	I.S.	I.S.	I.S.	I.S.
15991	>0.5	2.144	>1.027	4.406
15993	>0.5	0.956	>1.027	1.965
15995	>0.5	0.895	>1.027	1.839
15996	>0.5	1.213	>1.027	2.492

Element	F	F(R)	CaF2	CaF2(R)
Method	ISE07A	ISE07A	ISE07A	ISE07A
Det.Lim.	0.002	0.005	0.004	0.01
Units	%	%	%	%
15997	>0.5	2.733	>1.027	5.615
15998	>0.5	2.133	>1.027	4.384
15999	>0.5	1.543	>1.027	3.170
16000	>0.5	2.009	>1.027	4.129
15817	>0.5	0.634	>1.027	1.302
15826	>0.5	0.991	>1.027	2.036
15830	>0.5	1.883	>1.027	3.869
15835	>0.5	0.809	>1.027	1.662
15836	>0.5	0.531	>1.027	1.091
15989	>0.5	2.154	>1.027	4.426
Grab Face 27.2m	>0.5	3.742	>1.027	7.690

SGS

Certificate of Analysis

Work Order: VC120240

To: Freeport Resources
COD SGS ASSAYERS
8711 Elsmore Road
Richmond
BC V7C 24A

Date: Mar 14, 2012

P.O. No.	:	BRENDA CLARK-BOX 3/4
Project No.	:	-
No. Of Samples	:	61
Date Submitted	:	Feb 15, 2012
Report Comprises	:	Pages 1 to 5 (Inclusive of Cover Sheet)

Distribution of unused material:
Active files - upstairs:

Certified By : ______________________
Satpaul Gill
QAQC Chemist

SGS Minerals Services Geochemistry, Vancouver, BC is ISO 9001:2008 certified.

Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	--	= No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Methods marked with the @ symbol (e.g. @AAS21E) denote accredited tests

Element	TREO	Ce2O3	La2O3	Nd2O3	Pr2O3	Sm2O3	LREO	Dy2O3	Er2O3	Eu2O3
Method	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	0	0.0001	0.0001	0.0001	0.0001	0.0001	0	0.0001	0.0001	0.0001
Units	%	%	%	%	%	%	%	%	%	%
15840	0.0093	0.0037	0.0026	0.0012	0.0004	0.0002	0.0081	0.0001	<0.0001	<0.0001
15841	0.0117	0.0048	0.0033	0.0015	0.0005	0.0002	0.0102	0.0001	<0.0001	<0.0001
RUSS'S GRAB SAMPLE	0.0072	0.0026	0.0018	0.0010	0.0003	0.0002	0.0059	<0.0001	<0.0001	<0.0001
15842	0.0086	0.0031	0.0025	0.0011	0.0003	0.0002	0.0072	<0.0001	<0.0001	<0.0001
15844	0.0109	0.0042	0.0030	0.0014	0.0005	0.0002	0.0092	0.0001	<0.0001	<0.0001
15845	0.0079	0.0031	0.0022	0.0010	0.0003	0.0002	0.0068	<0.0001	<0.0001	<0.0001
15846	0.0115	0.0044	0.0036	0.0014	0.0004	0.0002	0.0100	0.0001	<0.0001	<0.0001
15847	0.0113	0.0045	0.0031	0.0013	0.0005	0.0002	0.0097	0.0001	<0.0001	<0.0001
15848	0.0156	0.0063	0.0044	0.0020	0.0007	0.0003	0.0138	0.0002	<0.0001	0.0001
15849	0.0093	0.0038	0.0024	0.0012	0.0004	0.0002	0.0080	0.0001	<0.0001	<0.0001
15850	0.0124	0.0046	0.0035	0.0016	0.0005	0.0003	0.0104	0.0002	<0.0001	0.0001
15851	0.0190	0.0074	0.0059	0.0023	0.0007	0.0004	0.0167	0.0002	<0.0001	0.0001
15852	0.0201	0.0076	0.0060	0.0026	0.0008	0.0004	0.0174	0.0002	0.0001	0.0002
15854	0.0121	0.0047	0.0038	0.0015	0.0005	0.0002	0.0106	0.0001	<0.0001	<0.0001
15855	0.0222	0.0100	0.0062	0.0030	0.0010	0.0004	0.0206	0.0002	<0.0001	0.0001
15856	0.0140	0.0061	0.0039	0.0018	0.0006	0.0003	0.0126	0.0001	<0.0001	<0.0001
15857	0.0205	0.0093	0.0061	0.0025	0.0009	0.0003	0.0191	0.0001	<0.0001	<0.0001
15859	0.0068	0.0027	0.0016	0.0010	0.0003	0.0002	0.0057	<0.0001	<0.0001	<0.0001
15860	0.0128	0.0054	0.0032	0.0018	0.0006	0.0003	0.0113	0.0001	<0.0001	<0.0001
15863	0.0125	0.0049	0.0033	0.0016	0.0005	0.0003	0.0106	0.0001	<0.0001	<0.0001
15864	0.0187	0.0075	0.0050	0.0025	0.0008	0.0004	0.0161	0.0002	0.0001	0.0001
15865	0.0183	0.0072	0.0050	0.0025	0.0008	0.0004	0.0159	0.0002	0.0001	0.0001
15866	0.0200	0.0078	0.0052	0.0028	0.0009	0.0005	0.0172	0.0003	0.0001	0.0001
15867	0.0183	0.0073	0.0045	0.0027	0.0008	0.0004	0.0157	0.0002	0.0001	0.0001
15868	0.0166	0.0068	0.0042	0.0024	0.0007	0.0004	0.0145	0.0002	0.0001	0.0001
15869	0.0193	0.0075	0.0049	0.0028	0.0008	0.0005	0.0164	0.0002	0.0001	0.0001
15870	0.0212	0.0082	0.0058	0.0028	0.0009	0.0005	0.0182	0.0003	0.0001	0.0002
18425	0.0072	0.0024	0.0018	0.0008	0.0002	0.0001	0.0053	0.0001	<0.0001	<0.0001
18426	0.0052	0.0017	0.0015	0.0006	0.0002	0.0001	0.0040	<0.0001	<0.0001	<0.0001
18427	0.0090	0.0032	0.0026	0.0011	0.0003	0.0002	0.0074	0.0001	<0.0001	<0.0001
18428	0.0098	0.0036	0.0030	0.0011	0.0003	0.0002	0.0082	0.0001	<0.0001	<0.0001
18429	0.0048	0.0012	0.0012	0.0004	0.0001	<0.0001	0.0031	<0.0001	<0.0001	<0.0001
18430	0.0039	0.0013	0.0009	0.0004	0.0001	<0.0001	0.0029	<0.0001	<0.0001	<0.0001
18431	0.0058	0.0020	0.0011	0.0008	0.0002	0.0001	0.0044	0.0001	<0.0001	<0.0001
18432	0.0056	0.0017	0.0019	0.0005	0.0001	<0.0001	0.0042	<0.0001	<0.0001	<0.0001
18433	0.0056	0.0018	0.0016	0.0006	0.0002	0.0001	0.0042	<0.0001	<0.0001	<0.0001
18434	0.0052	0.0017	0.0011	0.0007	0.0002	0.0001	0.0037	<0.0001	<0.0001	<0.0001
18435	0.0072	0.0022	0.0018	0.0008	0.0002	0.0001	0.0052	0.0001	<0.0001	<0.0001
18436	0.0123	0.0043	0.0043	0.0012	0.0004	0.0002	0.0104	0.0001	<0.0001	<0.0001
18437	0.0059	0.0021	0.0013	0.0008	0.0002	0.0002	0.0045	0.0001	<0.0001	<0.0001
18438	0.0082	0.0030	0.0019	0.0010	0.0003	0.0002	0.0064	0.0001	<0.0001	<0.0001
18439	0.0088	0.0032	0.0021	0.0012	0.0004	0.0002	0.0070	0.0001	<0.0001	<0.0001
18440	0.0134	0.0053	0.0038	0.0017	0.0006	0.0003	0.0116	0.0001	<0.0001	<0.0001

SGS

Element	TREO	Ce2O3	La2O3	Nd2O3	Pr2O3	Sm2O3	LREO	Dy2O3	Er2O3	Eu2O3
Method	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	0	0.0001	0.0001	0.0001	0.0001	0.0001	0	0.0001	0.0001	0.0001
Units	%	%	%	%	%	%	%	%	%	%
18441	0.0135	0.0049	0.0035	0.0018	0.0005	0.0003	0.0110	0.0002	0.0001	0.0001
18442	0.0404	0.0182	0.0147	0.0036	0.0014	0.0004	0.0383	0.0002	<0.0001	0.0001
18443	0.0146	0.0059	0.0040	0.0018	0.0006	0.0003	0.0126	0.0002	<0.0001	<0.0001
18444	0.0188	0.0071	0.0048	0.0025	0.0007	0.0004	0.0156	0.0003	0.0001	0.0001
18445	0.0073	0.0027	0.0021	0.0008	0.0003	0.0001	0.0061	<0.0001	<0.0001	<0.0001
18446	0.0231	0.0104	0.0067	0.0028	0.0010	0.0003	0.0213	0.0001	<0.0001	<0.0001
18447	0.0159	0.0074	0.0050	0.0017	0.0007	0.0002	0.0150	<0.0001	<0.0001	<0.0001
18448	0.0118	0.0054	0.0036	0.0013	0.0005	0.0001	0.0109	<0.0001	<0.0001	<0.0001
18449	0.0147	0.0057	0.0037	0.0020	0.0006	0.0003	0.0124	0.0002	0.0001	0.0001
18450	0.0165	0.0064	0.0039	0.0026	0.0007	0.0004	0.0140	0.0002	0.0001	0.0001
18451	0.0198	0.0073	0.0048	0.0027	0.0008	0.0005	0.0161	0.0003	0.0001	0.0001
18452	0.0164	0.0062	0.0046	0.0023	0.0007	0.0004	0.0141	0.0002	<0.0001	0.0001
18453	0.0282	0.0121	0.0079	0.0039	0.0013	0.0005	0.0258	0.0002	0.0001	0.0001
18454	0.0321	0.0127	0.0083	0.0055	0.0015	0.0008	0.0289	0.0003	0.0001	0.0002
18455	0.0121	0.0049	0.0035	0.0016	0.0005	0.0003	0.0108	0.0001	<0.0001	<0.0001
18456	0.0215	0.0076	0.0079	0.0024	0.0007	0.0004	0.0191	0.0002	<0.0001	0.0002
18457	0.0214	0.0077	0.0079	0.0024	0.0007	0.0004	0.0191	0.0002	<0.0001	0.0002
18458	0.0071	0.0025	0.0018	0.0010	0.0003	0.0002	0.0058	0.0001	<0.0001	<0.0001

SGS

Element Method Det.Lim. Units	Gd2O3 ICM90A 0.0001 %	Ho2O3 ICM90A 0.0001 %	Lu2O3 ICM90A 0.0001 %	Tb2O3 ICM90A 0.0001 %	Tm2O3 ICM90A 0.0001 %	Y2O3 ICM90A 0.0001 %	Yb2O3 ICM90A 0.0001 %	HREO ICM90A 0 %	HREO/TREO ICM90A 0
15840	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0008	<0.0001	0.0012	13.3
15841	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0009	<0.0001	0.0014	12.3
RUSS'S GRAB SAMPLE	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0009	<0.0001	0.0014	18.7
15842	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0009	<0.0001	0.0014	16.3
15844	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0010	<0.0001	0.0016	15.0
15845	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0007	<0.0001	0.0011	14.3
15846	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0009	<0.0001	0.0015	13.4
15847	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0010	<0.0001	0.0016	14.1
15848	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0011	<0.0001	0.0019	12.0
15849	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0007	<0.0001	0.0013	13.8
15850	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0012	0.0001	0.0020	15.7
15851	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	0.0014	<0.0001	0.0023	12.2
15852	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	0.0017	0.0001	0.0027	13.6
15854	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0009	<0.0001	0.0015	12.3
15855	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	0.0009	<0.0001	0.0016	7.39
15856	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0008	<0.0001	0.0014	9.72
15857	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0007	<0.0001	0.0014	6.80
15859	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0007	<0.0001	0.0011	16.1
15860	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0009	<0.0001	0.0015	12.0
15863	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0013	<0.0001	0.0019	15.5
15864	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	0.0016	0.0001	0.0026	13.9
15865	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	0.0014	0.0001	0.0024	13.2
15866	0.0004	<0.0001	<0.0001	<0.0001	<0.0001	0.0016	0.0001	0.0028	13.9
15867	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	0.0014	0.0001	0.0025	13.9
15868	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	0.0012	0.0001	0.0021	12.5
15869	0.0004	<0.0001	<0.0001	<0.0001	<0.0001	0.0017	0.0001	0.0028	14.7
15870	0.0004	<0.0001	<0.0001	<0.0001	<0.0001	0.0018	0.0001	0.0030	14.2
18425	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0013	<0.0001	0.0019	26.1
18426	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0008	<0.0001	0.0011	22.0
18427	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0011	<0.0001	0.0016	18.0
18428	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0011	<0.0001	0.0016	16.2
18429	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0012	<0.0001	0.0016	34.3
18430	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0007	<0.0001	0.0010	25.6
18431	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0009	<0.0001	0.0014	24.3
18432	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0010	<0.0001	0.0014	24.4
18433	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0009	<0.0001	0.0013	23.8
18434	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0010	<0.0001	0.0014	27.4
18435	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0015	<0.0001	0.0020	28.2
18436	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0013	<0.0001	0.0019	15.8
18437	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0009	<0.0001	0.0014	23.1
18438	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0012	<0.0001	0.0018	21.4
18439	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0012	<0.0001	0.0018	20.4
18440	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0011	<0.0001	0.0018	13.5

Element	Gd2O3	Ho2O3	Lu2O3	Tb2O3	Tm2O3	Y2O3	Yb2O3	HREO	HREO/TREO
Method	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0	0
Units	%	%	%	%	%	%	%	%	
18441	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	0.0016	0.0001	0.0025	18.6
18442	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	0.0013	<0.0001	0.0021	5.16
18443	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0013	<0.0001	0.0020	13.9
18444	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	0.0020	0.0002	0.0032	17.0
18445	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0008	<0.0001	0.0012	16.4
18446	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0011	<0.0001	0.0018	7.69
18447	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0006	<0.0001	0.0010	6.15
18448	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0005	<0.0001	0.0009	7.27
18449	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	0.0014	0.0001	0.0024	16.1
18450	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	0.0015	0.0001	0.0025	15.2
18451	0.0004	<0.0001	<0.0001	<0.0001	<0.0001	0.0025	0.0001	0.0037	18.5
18452	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	0.0015	<0.0001	0.0023	14.1
18453	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	0.0014	0.0001	0.0024	8.62
18454	0.0006	<0.0001	<0.0001	<0.0001	<0.0001	0.0018	<0.0001	0.0032	10.1
18455	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0007	<0.0001	0.0013	10.5
18456	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	0.0015	<0.0001	0.0024	11.2
18457	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	0.0015	<0.0001	0.0023	10.8
18458	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0009	<0.0001	0.0014	19.2

Certificate of Analysis

Work Order: VC120242

To: Freeport Resources
COD SGS ASSAYERS
8711 Elsmore Road
Richmond
BC V7C 24A

Date: Mar 16, 2012

P.O. No.	:	BRENDA CLARK-BOX 6
Project No.	:	-
No. Of Samples	:	48
Date Submitted	:	Feb 15, 2012
Report Comprises	:	Pages 1 to 5 (Inclusive of Cover Sheet)

Distribution of unused material:
Active files - upstairs:

Certified By :
Satpaul Gill
QAQC Chemist

SGS Minerals Services Geochemistry, Vancouver, BC is ISO 9001:2008 certified.

Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	--	= No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Methods marked with the @ symbol (e.g. @AAS21E) denote accredited tests

Element	TREO	Ce2O3	La2O3	Nd2O3	Pr2O3	Sm2O3	LREO	Dy2O3	Er2O3	Eu2O3
Method	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	0	0.0001	0.0001	0.0001	0.0001	0.0001	0	0.0001	0.0001	0.0001
Units	%	%	%	%	%	%	%	%	%	%
18491	0.0233	0.0090	0.0071	0.0028	0.0009	0.0004	0.0202	0.0002	0.0001	0.0001
18492	0.0264	0.0116	0.0073	0.0032	0.0011	0.0005	0.0237	0.0002	0.0001	0.0001
18493	0.0148	0.0055	0.0039	0.0020	0.0006	0.0003	0.0123	0.0002	0.0001	0.0001
18494	0.0215	0.0079	0.0057	0.0028	0.0008	0.0005	0.0177	0.0003	0.0001	0.0002
18495	0.0216	0.0083	0.0061	0.0028	0.0008	0.0004	0.0184	0.0002	0.0001	0.0002
18496	0.0209	0.0087	0.0056	0.0024	0.0008	0.0004	0.0179	0.0002	0.0001	0.0001
18497	0.0167	0.0071	0.0048	0.0019	0.0006	0.0003	0.0147	0.0002	0.0001	<0.0001
18499	0.0140	0.0044	0.0022	0.0023	0.0006	0.0005	0.0100	0.0003	0.0002	0.0002
18500	0.0193	0.0068	0.0062	0.0023	0.0007	0.0004	0.0163	0.0002	0.0001	0.0002
18601	0.0309	0.0114	0.0100	0.0038	0.0011	0.0006	0.0271	0.0004	0.0002	0.0002
18602	0.0274	0.0097	0.0107	0.0024	0.0008	0.0004	0.0240	0.0002	0.0001	0.0002
18603	0.0296	0.0109	0.0108	0.0029	0.0009	0.0004	0.0260	0.0003	0.0001	0.0003
18604	0.0319	0.0118	0.0120	0.0032	0.0010	0.0005	0.0284	0.0002	0.0001	0.0002
18605	0.0080	0.0032	0.0018	0.0012	0.0004	0.0002	0.0068	0.0001	<0.0001	<0.0001
18606	0.0087	0.0034	0.0021	0.0013	0.0004	0.0002	0.0074	<0.0001	<0.0001	<0.0001
18607	0.0209	0.0087	0.0045	0.0037	0.0010	0.0006	0.0185	0.0002	0.0001	0.0002
18608	0.0065	0.0021	0.0011	0.0009	0.0003	0.0002	0.0046	0.0002	<0.0001	<0.0001
18610	0.0060	0.0021	0.0011	0.0009	0.0003	0.0002	0.0046	0.0001	<0.0001	<0.0001
18611	0.0265	0.0120	0.0077	0.0031	0.0011	0.0004	0.0243	0.0002	<0.0001	0.0001
18612	0.0070	0.0023	0.0013	0.0011	0.0003	0.0002	0.0052	0.0001	<0.0001	<0.0001
18613	0.0051	0.0016	0.0007	0.0009	0.0002	0.0002	0.0037	0.0001	<0.0001	<0.0001
18614	0.0248	0.0108	0.0067	0.0033	0.0011	0.0005	0.0223	0.0002	0.0001	0.0001
18615	0.0196	0.0076	0.0049	0.0030	0.0008	0.0005	0.0167	0.0002	<0.0001	0.0001
18616	0.0055	0.0015	0.0010	0.0007	0.0002	0.0001	0.0035	<0.0001	<0.0001	<0.0001
18617	0.0261	0.0111	0.0071	0.0035	0.0011	0.0005	0.0234	0.0003	0.0001	0.0001
18618	0.0272	0.0102	0.0079	0.0033	0.0010	0.0005	0.0229	0.0003	0.0002	0.0002
18619	0.0341	0.0130	0.0083	0.0048	0.0014	0.0007	0.0283	0.0004	0.0002	0.0002
18620	0.0195	0.0083	0.0050	0.0026	0.0009	0.0004	0.0171	0.0002	0.0001	<0.0001
18621	0.0394	0.0156	0.0085	0.0064	0.0018	0.0010	0.0334	0.0005	0.0002	0.0003
18622	0.0146	0.0058	0.0034	0.0021	0.0006	0.0003	0.0123	0.0002	0.0001	<0.0001
18623	0.0203	0.0086	0.0048	0.0028	0.0009	0.0004	0.0175	0.0002	0.0001	0.0001
15928	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15951	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15952	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15953	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15958	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15959	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15960	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15961	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15962	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15963	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15964	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15965	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

Element	TREO	Ce2O3	La2O3	Nd2O3	Pr2O3	Sm2O3	LREO	Dy2O3	Er2O3	Eu2O3
Method	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	0	0.0001	0.0001	0.0001	0.0001	0.0001	0	0.0001	0.0001	0.0001
Units	%	%	%	%	%	%	%	%	%	%
15966	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15967	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15968	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15969	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15970	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

Element Method Det.Lim. Units	Gd2O3 ICM90A 0.0001 %	Ho2O3 ICM90A 0.0001 %	Lu2O3 ICM90A 0.0001 %	Tb2O3 ICM90A 0.0001 %	Tm2O3 ICM90A 0.0001 %	Y2O3 ICM90A 0.0001 %	Yb2O3 ICM90A 0.0001 %	HREO ICM90A 0 %	HREO/TREO ICM90A 0
18491	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	0.0021	0.0001	0.0031	13.1
18492	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	0.0016	0.0002	0.0027	10.3
18493	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	0.0015	0.0002	0.0025	17.1
18494	0.0004	<0.0001	<0.0001	<0.0001	<0.0001	0.0027	0.0001	0.0039	18.0
18495	0.0004	<0.0001	<0.0001	<0.0001	<0.0001	0.0020	0.0001	0.0032	14.6
18496	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	0.0018	0.0002	0.0029	14.1
18497	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0012	0.0001	0.0021	12.4
18499	0.0004	<0.0001	<0.0001	<0.0001	<0.0001	0.0025	0.0003	0.0040	28.9
18500	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	0.0019	0.0001	0.0030	15.6
18601	0.0005	<0.0001	<0.0001	<0.0001	<0.0001	0.0022	0.0001	0.0039	12.5
18602	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	0.0022	0.0001	0.0034	12.5
18603	0.0004	<0.0001	<0.0001	<0.0001	<0.0001	0.0024	0.0001	0.0036	12.2
18604	0.0004	<0.0001	<0.0001	<0.0001	<0.0001	0.0023	<0.0001	0.0034	10.8
18605	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0007	<0.0001	0.0013	15.6
18606	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0008	<0.0001	0.0014	15.5
18607	0.0004	<0.0001	<0.0001	<0.0001	<0.0001	0.0013	0.0001	0.0024	11.6
18608	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0012	0.0001	0.0019	29.5
18610	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0008	<0.0001	0.0014	23.6
18611	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	0.0014	<0.0001	0.0022	8.37
18612	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0012	<0.0001	0.0018	25.5
18613	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0009	<0.0001	0.0014	28.0
18614	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	0.0014	0.0002	0.0025	9.92
18615	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	0.0019	<0.0001	0.0028	14.4
18616	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0015	<0.0001	0.0020	35.9
18617	0.0004	<0.0001	<0.0001	<0.0001	<0.0001	0.0015	0.0002	0.0027	10.4
18618	0.0004	<0.0001	<0.0001	<0.0001	<0.0001	0.0031	0.0001	0.0044	16.1
18619	0.0006	<0.0001	<0.0001	<0.0001	<0.0001	0.0040	0.0002	0.0057	16.8
18620	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	0.0014	0.0001	0.0024	12.3
18621	0.0008	<0.0001	<0.0001	<0.0001	<0.0001	0.0037	0.0002	0.0060	15.2
18622	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	0.0014	0.0001	0.0024	16.1
18623	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	0.0017	0.0001	0.0028	13.7
15928	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15951	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15952	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15953	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15958	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15959	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15960	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15961	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15962	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15963	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15964	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15965	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

Element Method Det.Lim. Units	Gd2O3 ICM90A 0.0001 %	Ho2O3 ICM90A 0.0001 %	Lu2O3 ICM90A 0.0001 %	Tb2O3 ICM90A 0.0001 %	Tm2O3 ICM90A 0.0001 %	Y2O3 ICM90A 0.0001 %	Yb2O3 ICM90A 0.0001 %	HREO ICM90A 0 %	HREO/TREO ICM90A 0
15966	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15967	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15968	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15969	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15970	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

Certificate of Analysis

Work Order: VC120243

To: Freeport Resources
COD SGS ASSAYERS
8711 Elsmore Road
Richmond
BC V7C 24A

Date: Mar 15, 2012

P.O. No.	:	BRENDA CLARK-BOX 7/8
Project No.	:	-
No. Of Samples	:	62
Date Submitted	:	Feb 15, 2012
Report Comprises	:	Pages 1 to 5 (Inclusive of Cover Sheet)

Distribution of unused material:
Active files - upstairs:

Certified By : ____________________
Satpaul Gill
QAQC Chemist

SGS Minerals Services Geochemistry, Vancouver, BC is ISO 9001:2008 certified.

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result
*INF = Composition of this sample makes detection impossible by this method
M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion
Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Methods marked with the @ symbol (e.g. @AAS21E) denote accredited tests

SGS

Element	TREO	Ce2O3	La2O3	Nd2O3	Pr2O3	Sm2O3	LREO	Dy2O3	Er2O3	Eu2O3
Method	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	0	0.0001	0.0001	0.0001	0.0001	0.0001	0	0.0001	0.0001	0.0001
Units	%	%	%	%	%	%	%	%	%	%
18624	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18625	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18626	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18627	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18628	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18629	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18630	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18631	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18632	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18633	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18634	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18635	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18636	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18637	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18638	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18639	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18640	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18641	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18642	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18643	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18644	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18647	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18650	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18651	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18652	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18653	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18654	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18657	0.0138	0.0051	0.0029	0.0022	0.0006	0.0004	0.0112	0.0002	0.0001	0.0001
18658	0.0393	0.0161	0.0082	0.0069	0.0019	0.0011	0.0342	0.0005	0.0002	0.0003
18659	0.0206	0.0083	0.0052	0.0029	0.0009	0.0005	0.0177	0.0003	0.0001	0.0001
18660	0.0373	0.0152	0.0122	0.0044	0.0014	0.0006	0.0338	0.0003	0.0001	0.0002
18661	0.0118	0.0045	0.0026	0.0019	0.0005	0.0003	0.0099	0.0002	<0.0001	<0.0001
18662	0.0144	0.0058	0.0037	0.0020	0.0006	0.0003	0.0124	0.0002	<0.0001	<0.0001
18663	0.0087	0.0031	0.0019	0.0014	0.0004	0.0003	0.0070	0.0002	<0.0001	<0.0001
18664	0.0364	0.0127	0.0053	0.0067	0.0016	0.0014	0.0275	0.0010	0.0005	0.0004
18665	0.0311	0.0114	0.0094	0.0039	0.0012	0.0006	0.0265	0.0004	0.0002	0.0003
18666	0.0244	0.0086	0.0057	0.0036	0.0010	0.0006	0.0196	0.0004	0.0002	0.0002
18667	0.0246	0.0089	0.0065	0.0033	0.0010	0.0006	0.0202	0.0004	0.0002	0.0002
18668	0.0295	0.0111	0.0080	0.0040	0.0012	0.0006	0.0249	0.0004	0.0002	0.0002
18669	0.0101	0.0040	0.0026	0.0014	0.0004	0.0002	0.0086	0.0001	<0.0001	<0.0001
18670	0.0261	0.0110	0.0070	0.0034	0.0011	0.0005	0.0230	0.0003	0.0001	0.0001
18671	0.0168	0.0066	0.0048	0.0023	0.0007	0.0004	0.0147	0.0002	<0.0001	0.0001
18672	0.0239	0.0093	0.0073	0.0030	0.0010	0.0005	0.0211	0.0002	0.0001	0.0002

Element	TREO	Ce2O3	La2O3	Nd2O3	Pr2O3	Sm2O3	LREO	Dy2O3	Er2O3	Eu2O3
Method	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	0	0.0001	0.0001	0.0001	0.0001	0.0001	0	0.0001	0.0001	0.0001
Units	%	%	%	%	%	%	%	%	%	%
18673	0.0213	0.0086	0.0053	0.0032	0.0010	0.0005	0.0186	0.0003	0.0001	0.0001
18674	0.0184	0.0068	0.0055	0.0023	0.0007	0.0004	0.0157	0.0002	0.0001	0.0001
18675	0.0207	0.0070	0.0075	0.0022	0.0007	0.0004	0.0178	0.0002	0.0001	0.0002
18676	0.0194	0.0075	0.0055	0.0026	0.0008	0.0004	0.0168	0.0002	0.0001	0.0001
18677	0.0104	0.0040	0.0026	0.0015	0.0005	0.0003	0.0089	0.0001	<0.0001	<0.0001
18678	0.0113	0.0043	0.0028	0.0015	0.0005	0.0003	0.0093	0.0002	<0.0001	<0.0001
18679	0.0153	0.0055	0.0037	0.0021	0.0006	0.0004	0.0123	0.0002	0.0001	0.0001
18680	0.0108	0.0040	0.0027	0.0015	0.0005	0.0003	0.0090	0.0002	<0.0001	<0.0001
18681	0.0240	0.0091	0.0072	0.0031	0.0009	0.0005	0.0208	0.0002	0.0001	0.0002
18682	0.0237	0.0101	0.0068	0.0032	0.0010	0.0005	0.0217	0.0002	<0.0001	0.0001
18683	0.0284	0.0098	0.0111	0.0028	0.0009	0.0004	0.0249	0.0002	0.0001	0.0002
18684	0.0323	0.0118	0.0109	0.0038	0.0012	0.0006	0.0283	0.0003	0.0002	0.0002
18685	0.0149	0.0062	0.0042	0.0018	0.0006	0.0003	0.0131	0.0002	<0.0001	<0.0001
18686	0.0072	0.0025	0.0015	0.0012	0.0003	0.0002	0.0057	0.0001	<0.0001	<0.0001
18687	0.0104	0.0038	0.0029	0.0014	0.0004	0.0002	0.0088	0.0001	<0.0001	<0.0001
18688	0.0534	0.0211	0.0161	0.0071	0.0022	0.0010	0.0475	0.0004	0.0002	0.0003
18689	0.0094	0.0034	0.0014	0.0018	0.0005	0.0004	0.0075	0.0002	<0.0001	0.0001
18690	0.0056	0.0018	0.0010	0.0008	0.0002	0.0002	0.0041	0.0001	<0.0001	<0.0001
18691	0.0059	0.0015	0.0009	0.0009	0.0002	0.0002	0.0037	0.0001	<0.0001	<0.0001

SGS

Element Method Det.Lim. Units	Gd2O3 ICM90A 0.0001 %	Ho2O3 ICM90A 0.0001 %	Lu2O3 ICM90A 0.0001 %	Tb2O3 ICM90A 0.0001 %	Tm2O3 ICM90A 0.0001 %	Y2O3 ICM90A 0.0001 %	Yb2O3 ICM90A 0.0001 %	HREO ICM90A 0 %	HREO/TREO ICM90A 0
18624	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18625	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18626	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18627	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18628	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18629	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18630	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18631	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18632	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18633	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18634	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18635	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18636	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18637	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18638	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18639	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18640	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18641	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18642	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18643	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18644	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18647	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18650	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18651	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18652	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18653	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18654	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18657	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	0.0016	0.0001	0.0026	18.9
18658	0.0009	<0.0001	<0.0001	<0.0001	<0.0001	0.0028	0.0001	0.0051	12.9
18659	0.0004	<0.0001	<0.0001	<0.0001	<0.0001	0.0017	0.0002	0.0029	14.2
18660	0.0005	<0.0001	<0.0001	<0.0001	<0.0001	0.0021	0.0001	0.0035	9.44
18661	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0011	<0.0001	0.0019	16.4
18662	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0012	<0.0001	0.0020	14.0
18663	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0009	<0.0001	0.0017	19.3
18664	0.0012	0.0002	<0.0001	0.0002	<0.0001	0.0048	0.0004	0.0089	24.3
18665	0.0005	<0.0001	<0.0001	<0.0001	<0.0001	0.0029	0.0002	0.0046	14.8
18666	0.0006	<0.0001	<0.0001	<0.0001	<0.0001	0.0031	0.0002	0.0048	19.9
18667	0.0005	<0.0001	0.0001	<0.0001	<0.0001	0.0026	0.0002	0.0043	17.6
18668	0.0005	<0.0001	<0.0001	<0.0001	<0.0001	0.0028	0.0002	0.0045	15.4
18669	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0009	<0.0001	0.0015	15.0
18670	0.0004	<0.0001	<0.0001	<0.0001	<0.0001	0.0019	0.0001	0.0031	11.8
18671	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	0.0013	0.0001	0.0021	12.4
18672	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	0.0017	<0.0001	0.0028	11.6

Element	Gd2O3	Ho2O3	Lu2O3	Tb2O3	Tm2O3	Y2O3	Yb2O3	HREO	HREO/TREO
Method	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0	0
Units	%	%	%	%	%	%	%	%	
18673	0.0004	<0.0001	<0.0001	<0.0001	<0.0001	0.0015	0.0001	0.0027	12.8
18674	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	0.0017	<0.0001	0.0027	14.7
18675	0.0004	<0.0001	<0.0001	<0.0001	<0.0001	0.0018	0.0001	0.0029	13.9
18676	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	0.0015	0.0001	0.0026	13.4
18677	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0009	<0.0001	0.0015	14.8
18678	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0012	0.0001	0.0020	17.8
18679	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	0.0018	0.0001	0.0030	19.3
18680	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0010	0.0001	0.0018	16.9
18681	0.0004	<0.0001	<0.0001	<0.0001	<0.0001	0.0020	0.0001	0.0032	13.5
18682	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	0.0011	0.0001	0.0020	8.50
18683	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	0.0022	0.0001	0.0034	12.1
18684	0.0005	<0.0001	<0.0001	<0.0001	<0.0001	0.0024	0.0002	0.0040	12.3
18685	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0011	0.0001	0.0018	12.1
18686	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0009	<0.0001	0.0015	20.2
18687	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0010	<0.0001	0.0016	15.3
18688	0.0008	<0.0001	<0.0001	<0.0001	<0.0001	0.0039	0.0001	0.0059	11.1
18689	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	0.0011	<0.0001	0.0019	20.5
18690	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0010	<0.0001	0.0016	27.9
18691	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0016	<0.0001	0.0022	37.0

Certificate of Analysis

Work Order: VC120245

To: Freeport Resources
COD SGS ASSAYERS
8711 Elsmore Road
Richmond
BC V7C 24A

Date: Mar 14, 2012

P.O. No.	:	BRENDA CLARK-BOX 11
Project No.	:	-
No. Of Samples	:	19
Date Submitted	:	Feb 15, 2012
Report Comprises	:	Pages 1 to 3 (Inclusive of Cover Sheet)

Distribution of unused material:
Active files - upstairs:

Certified By :

Satpaul Gill
QAQC Chemist

SGS Minerals Services Geochemistry, Vancouver, BC is ISO 9001:2008 certified.

Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	--	= No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Methods marked with the @ symbol (e.g. @AAS21E) denote accredited tests

Element	TREO	Ce2O3	La2O3	Nd2O3	Pr2O3	Sm2O3	LREO	Dy2O3	Er2O3	Eu2O3
Method	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	0	0.0001	0.0001	0.0001	0.0001	0.0001	0	0.0001	0.0001	0.0001
Units	%	%	%	%	%	%	%	%	%	%
18762	0.0269	0.0103	0.0069	0.0038	0.0011	0.0006	0.0227	0.0003	0.0002	0.0002
18763	0.0099	0.0040	0.0025	0.0014	0.0004	0.0002	0.0085	0.0001	<0.0001	<0.0001
18764	0.0484	0.0190	0.0117	0.0069	0.0021	0.0011	0.0408	0.0007	0.0004	0.0004
18765	0.0147	0.0056	0.0046	0.0018	0.0006	0.0003	0.0128	0.0002	<0.0001	0.0001
18766	0.0170	0.0062	0.0056	0.0020	0.0006	0.0003	0.0147	0.0002	<0.0001	0.0001
18767	0.0323	0.0123	0.0090	0.0044	0.0013	0.0007	0.0277	0.0003	0.0002	0.0002
18768	0.0139	0.0052	0.0032	0.0021	0.0006	0.0004	0.0114	0.0002	0.0001	0.0001
18769	0.0085	0.0031	0.0019	0.0012	0.0004	0.0002	0.0068	0.0001	<0.0001	<0.0001
18770	0.0535	0.0213	0.0160	0.0068	0.0022	0.0010	0.0473	0.0005	0.0003	0.0003
18771	0.0037	0.0012	0.0007	0.0006	0.0002	0.0001	0.0028	<0.0001	<0.0001	<0.0001
18772	0.0058	0.0020	0.0012	0.0009	0.0002	0.0002	0.0045	0.0001	<0.0001	<0.0001
18773	0.0409	0.0159	0.0120	0.0052	0.0016	0.0008	0.0355	0.0004	0.0002	0.0003
18774	0.0315	0.0143	0.0099	0.0032	0.0013	0.0004	0.0290	0.0002	0.0001	0.0001
18775	0.0176	0.0056	0.0026	0.0028	0.0007	0.0006	0.0123	0.0004	0.0002	0.0002
18776	0.0150	0.0062	0.0035	0.0020	0.0006	0.0003	0.0126	0.0002	0.0001	<0.0001
18779	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
18780	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
18781	0.0199	0.0074	0.0046	0.0029	0.0008	0.0005	0.0163	0.0003	0.0001	0.0002
18782	0.0443	0.0196	0.0155	0.0049	0.0019	0.0005	0.0423	0.0002	<0.0001	0.0001

Element	Gd2O3	Ho2O3	Lu2O3	Tb2O3	Tm2O3	Y2O3	Yb2O3	HREO	HREO/TREO
Method	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0	0
Units	%	%	%	%	%	%	%	%	
18762	0.0005	<0.0001	<0.0001	<0.0001	<0.0001	0.0025	0.0002	0.0042	15.5
18763	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0008	<0.0001	0.0014	14.2
18764	0.0009	0.0001	<0.0001	0.0001	<0.0001	0.0046	0.0004	0.0076	15.8
18765	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0012	<0.0001	0.0019	13.1
18766	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0016	<0.0001	0.0023	13.5
18767	0.0005	<0.0001	<0.0001	<0.0001	<0.0001	0.0029	0.0002	0.0046	14.1
18768	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	0.0015	0.0001	0.0025	18.1
18769	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0011	<0.0001	0.0017	20.2
18770	0.0008	<0.0001	<0.0001	<0.0001	<0.0001	0.0039	0.0003	0.0062	11.6
18771	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0006	<0.0001	0.0010	25.9
18772	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0008	<0.0001	0.0013	22.6
18773	0.0006	<0.0001	<0.0001	<0.0001	<0.0001	0.0033	0.0003	0.0054	13.2
18774	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	0.0015	0.0002	0.0025	7.94
18775	0.0005	<0.0001	<0.0001	<0.0001	<0.0001	0.0034	0.0002	0.0053	30.0
18776	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	0.0013	0.0002	0.0023	15.4
18779	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
18780	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
18781	0.0004	<0.0001	<0.0001	<0.0001	<0.0001	0.0024	0.0001	0.0037	18.4
18782	0.0003	<0.0001	<0.0001	<0.0001	<0.0001	0.0011	0.0001	0.0021	4.68

Certificate of Analysis

Work Order: VC120240

To: Freeport Resources
COD SGS ASSAYERS
8711 Elsmore Road
Richmond
BC V7C 24A

Date: Mar 13, 2012

P.O. No.	:	BRENDA CLARK-BOX 3/4
Project No.	:	-
No. Of Samples	:	61
Date Submitted	:	Feb 15, 2012
Report Comprises	:	Pages 1 to 13 (Inclusive of Cover Sheet)

Distribution of unused material:
Active files - upstairs:

Comments:

CaF2 is calculated from F values.

Certified By : ______________
Satpaul Gill
QAQC Chemist

SGS Minerals Services Geochemistry, Vancouver, BC is ISO 9001:2008 certified.

Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	--	= No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Methods marked with the @ symbol (e.g. @AAS21E) denote accredited tests

Element Method Det.Lim. Units	F ISE07A 0.002 %	F(R) ISE07A 0.005 %	CaF2 ISE07A 0.004 %	CaF2(R) ISE07A 0.01 %	Al ICM90A 0.01 %	Ba ICM90A 0.5 ppm	Be ICM90A 5 ppm	Ca ICM90A 0.1 %	Cr ICM90A 10 ppm	Cu ICM90A 5 ppm
15840	>0.5	4.760	>1.027	9.781	6.22	1890	7	9.3	10	25
15841	>0.5	5.980	>1.027	12.288	7.15	1930	7	9.9	20	30
RUSS'S GRAB SAMPLE	>0.5	3.720	>1.027	7.644	8.83	712	5	5.9	<10	24
15842	>0.5	7.620	>1.027	15.658	6.06	2580	7	12.6	10	20
15844	>0.5	2.740	>1.027	5.630	6.61	1870	8	5.9	10	29
15845	>0.5	2.820	>1.027	5.795	7.35	2300	6	6.0	10	24
15846	>0.5	4.200	>1.027	8.630	8.09	3400	7	7.3	10	26
15847	>0.5	3.900	>1.027	8.014	7.41	3520	5	6.4	20	26
15848	>0.5	3.950	>1.027	8.116	6.90	3420	5	6.7	10	19
15849	>0.5	1.410	>1.027	2.897	7.23	1870	7	4.5	10	29
15850	>0.5	3.840	>1.027	7.890	6.60	3010	8	7.0	20	30
15851	>0.5	5.380	>1.027	11.055	7.52	5230	6	9.5	10	26
15852	>0.5	4.710	>1.027	9.678	5.95	2430	7	14.0	10	28
15854	>0.5	5.700	>1.027	11.712	5.68	3620	7	10.1	10	23
15855	>0.5	0.996	>1.027	2.047	8.12	1140	6	4.7	10	19
15856	0.471	N.A.	0.968	N.A.	8.25	938	5	2.6	<10	19
15857	>0.5	0.560	>1.027	1.151	8.59	1000	5	3.0	10	19
15859	>0.5	0.759	>1.027	1.560	8.40	634	5	3.9	10	19
15860	>0.5	0.689	>1.027	1.416	7.45	542	6	3.8	10	16
15863	>0.5	6.720	>1.027	13.808	6.68	2480	6	9.1	10	25
15864	>0.5	3.500	>1.027	7.192	6.44	1740	7	6.6	10	31
15865	>0.5	3.500	>1.027	7.192	5.42	2750	<5	8.2	10	11
15866	>0.5	2.890	>1.027	5.938	5.50	2100	<5	8.5	10	12
15867	>0.5	1.790	>1.027	3.678	5.48	1630	<5	6.6	10	16
15868	>0.5	1.120	>1.027	2.301	6.21	1020	<5	4.0	10	14
15869	>0.5	3.850	>1.027	7.911	6.14	2370	<5	7.3	10	12
15870	>0.5	4.250	>1.027	8.733	6.24	3240	<5	7.2	10	14
18425	>0.5	4.080	>1.027	8.384	8.08	1160	<5	6.0	<10	8
18426	>0.5	3.980	>1.027	8.178	6.96	1570	<5	5.7	<10	11
18427	>0.5	2.800	>1.027	5.753	7.82	1600	<5	6.8	<10	8
18428	>0.5	3.980	>1.027	8.178	7.41	2360	<5	8.9	<10	5
18429	>0.5	5.990	>1.027	12.308	8.40	1210	<5	8.8	<10	<5
18430	>0.5	2.650	>1.027	5.445	9.19	974	<5	4.3	<10	8
18431	>0.5	4.320	>1.027	8.877	8.02	3050	<5	9.3	<10	7
18432	>0.5	5.100	>1.027	10.479	8.00	2270	<5	8.8	<10	6
18433	>0.5	4.820	>1.027	9.904	7.71	1790	<5	10.0	<10	<5
18434	>0.5	4.400	>1.027	9.041	8.81	2480	<5	8.5	<10	8
18435	>0.5	6.770	>1.027	13.911	7.34	1510	<5	12.0	<10	<5
18436	>0.5	5.430	>1.027	11.158	6.37	5280	<5	12.9	<10	<5
18437	>0.5	3.850	>1.027	7.911	9.25	2250	<5	9.5	<10	5
18438	>0.5	4.820	>1.027	9.904	8.79	1120	<5	8.4	<10	6
18439	>0.5	5.790	>1.027	11.897	7.73	2820	<5	11.4	10	7
18440	>0.5	3.000	>1.027	6.164	6.05	2330	<5	10.4	10	<5

Element	F	F(R)	CaF2	CaF2(R)	Al	Ba	Be	Ca	Cr	Cu
Method	ISE07A	ISE07A	ISE07A	ISE07A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	0.002	0.005	0.004	0.01	0.01	0.5	5	0.1	10	5
Units	%	%	%	%	%	ppm	ppm	%	ppm	ppm
18441	>0.5	3.040	>1.027	6.247	7.86	3230	<5	10.3	<10	<5
18442	>0.5	4.110	>1.027	8.445	7.88	3730	<5	10.5	<10	6
18443	>0.5	4.620	>1.027	9.493	7.65	2450	<5	9.1	<10	<5
18444	>0.5	3.260	>1.027	6.699	5.69	3860	<5	15.1	10	<5
18445	>0.5	6.030	>1.027	12.390	8.90	2670	<5	5.9	<10	7
18446	>0.5	2.570	>1.027	5.281	8.16	2490	<5	8.6	<10	9
18447	>0.5	3.410	>1.027	7.007	9.29	1650	<5	3.5	10	8
18448	>0.5	1.060	>1.027	2.178	12.2	2160	<5	3.3	10	17
18449	>0.5	1.030	>1.027	2.116	7.78	2800	<5	9.9	<10	6
18450	>0.5	3.190	>1.027	6.555	6.19	881	<5	5.8	10	14
18451	>0.5	1.180	>1.027	2.425	4.27	1550	<5	18.9	10	11
18452	>0.5	11.200	>1.027	23.014	6.17	1850	<5	14.5	<10	6
18453	>0.5	6.180	>1.027	12.699	5.64	1320	<5	7.7	10	17
18454	>0.5	4.860	>1.027	9.986	6.16	3340	<5	13.7	10	7
18455	>0.5	6.630	>1.027	13.623	7.86	1310	<5	3.0	<10	9
18456	>0.5	1.100	>1.027	2.260	4.27	4610	<5	14.3	<10	6
18457	>0.5	6.740	>1.027	13.849	4.24	4590	<5	14.2	10	7
18458	>0.5	2.140	>1.027	4.397	8.02	984	<5	5.3	<10	9

Element	Fe	K	Li	Mg	Mn	Ni	P	Sc	Sr	Ti
Method	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	0.01	0.1	10	0.01	10	5	0.01	5	0.1	0.01
Units	%	%	ppm	%	ppm	ppm	%	ppm	ppm	%
15840	1.76	2.9	20	0.15	660	7	0.10	<5	>10000	0.08
15841	1.47	2.7	20	0.15	740	9	0.11	<5	>10000	0.07
RUSS'S GRAB SAMPLE	0.48	3.2	30	0.05	260	6	0.06	<5	5780	0.03
15842	1.01	2.9	20	0.14	660	5	0.11	<5	>10000	0.04
15844	1.82	2.7	20	0.21	550	8	0.03	<5	>10000	0.08
15845	1.44	2.9	30	0.13	470	9	0.04	<5	>10000	0.08
15846	1.50	3.0	40	0.12	540	7	0.06	<5	>10000	0.08
15847	2.00	3.1	50	0.12	400	9	0.06	<5	>10000	0.09
15848	2.24	3.1	50	0.17	620	8	0.08	<5	>10000	0.10
15849	2.31	3.3	40	0.19	640	10	0.04	<5	>10000	0.12
15850	2.85	2.7	60	0.17	680	8	0.06	5	>10000	0.13
15851	2.33	2.2	50	0.14	580	8	0.11	<5	>10000	0.13
15852	2.47	2.0	50	0.16	1590	8	0.11	<5	>10000	0.10
15854	1.06	2.8	70	0.10	790	7	0.13	<5	>10000	0.10
15855	1.53	4.0	80	0.14	610	6	0.07	<5	4580	0.11
15856	1.28	4.2	40	0.08	500	7	0.02	<5	2290	0.07
15857	1.30	4.4	50	0.09	570	8	0.04	<5	2960	0.09
15859	1.07	3.1	40	0.08	610	8	0.04	<5	2370	0.08
15860	1.39	3.2	40	0.08	700	8	0.03	<5	2400	0.07
15863	1.75	2.8	70	0.12	690	8	0.10	<5	>10000	0.07
15864	2.07	3.1	110	0.17	840	8	0.06	<5	>10000	0.07
15865	2.51	2.5	120	0.15	940	9	0.08	6	>10000	0.07
15866	2.31	2.7	120	0.14	1140	8	0.08	6	>10000	0.09
15867	2.56	3.1	100	0.16	1120	11	0.04	7	>10000	0.09
15868	2.40	3.4	80	0.19	950	10	0.04	6	6180	0.09
15869	2.03	2.8	70	0.13	980	8	0.07	6	>10000	0.09
15870	2.16	3.0	60	0.12	2050	7	0.04	6	>10000	0.09
18425	1.18	3.1	50	0.12	460	6	<0.01	<5	6940	0.05
18426	0.85	2.4	50	0.07	300	7	0.01	<5	>10000	0.04
18427	1.26	1.9	20	0.04	400	6	0.05	<5	>10000	0.06
18428	0.62	1.7	20	0.03	380	<5	0.09	<5	>10000	0.03
18429	0.41	0.5	<10	0.01	190	<5	<0.01	<5	>10000	0.03
18430	0.39	2.8	<10	0.01	140	6	0.02	<5	5470	0.02
18431	0.44	4.7	20	0.04	440	<5	<0.01	<5	>10000	0.01
18432	0.33	5.9	<10	0.02	690	<5	0.02	<5	7580	<0.01
18433	0.37	1.2	20	0.03	290	<5	<0.01	<5	>10000	0.01
18434	0.33	6.3	20	0.02	530	6	0.02	<5	9530	<0.01
18435	0.26	2.0	<10	0.02	510	<5	0.03	<5	>10000	<0.01
18436	0.33	2.5	10	0.03	910	<5	<0.01	<5	>10000	<0.01
18437	0.47	5.1	20	0.04	840	<5	<0.01	<5	8050	<0.01
18438	0.37	2.2	<10	0.02	490	<5	0.04	<5	6780	0.01
18439	0.43	6.6	40	0.04	670	5	0.01	<5	9970	<0.01
18440	1.07	4.6	60	0.09	1310	6	0.03	<5	>10000	0.02

Element Method Det.Lim. Units	Fe ICM90A 0.01 %	K ICM90A 0.1 %	Li ICM90A 10 ppm	Mg ICM90A 0.01 %	Mn ICM90A 10 ppm	Ni ICM90A 5 ppm	P ICM90A 0.01 %	Sc ICM90A 5 ppm	Sr ICM90A 0.1 ppm	Ti ICM90A 0.01 %
18441	0.33	4.3	<10	0.03	950	<5	<0.01	<5	>10000	<0.01
18442	0.42	5.2	10	0.05	1210	<5	0.02	<5	>10000	0.02
18443	0.38	3.2	<10	0.03	980	<5	<0.01	<5	>10000	0.01
18444	0.31	3.4	<10	0.04	1330	<5	0.11	<5	>10000	<0.01
18445	0.43	3.3	20	0.04	610	<5	0.02	<5	>10000	0.02
18446	0.36	4.7	<10	0.03	710	<5	0.04	<5	>10000	0.01
18447	0.68	4.2	30	0.06	520	<5	0.01	<5	8400	0.03
18448	0.71	6.7	<10	0.03	370	9	0.02	<5	5950	0.04
18449	0.41	4.2	<10	0.04	1190	<5	0.02	<5	>10000	0.02
18450	1.60	3.5	80	0.10	410	8	0.20	<5	6440	0.08
18451	1.37	2.9	40	0.08	530	6	0.18	<5	>10000	0.05
18452	1.01	3.7	10	0.06	630	<5	0.18	<5	>10000	0.07
18453	2.89	3.2	60	0.10	510	8	0.18	8	>10000	0.07
18454	1.54	3.4	20	0.09	650	5	0.72	6	>10000	0.05
18455	1.81	5.5	20	0.11	340	7	0.07	<5	5740	0.10
18456	0.94	2.4	10	0.07	650	<5	0.09	<5	>10000	0.05
18457	0.95	2.3	10	0.08	670	7	0.09	<5	>10000	0.05
18458	1.39	4.2	<10	0.05	650	8	0.03	7	7030	0.06

SGS

Element	V	Zn	Ag	As	Bi	Cd	Ce	Co	Cs	Dy
Method	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	5	5	1	5	0.1	0.2	0.1	0.5	0.1	0.05
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
15840	107	41	<1	<5	<0.1	<0.2	31.3	1.0	0.7	0.88
15841	81	31	1	<5	<0.1	<0.2	41.1	0.9	0.6	1.04
RUSS'S GRAB SAMPLE	24	<5	<1	<5	<0.1	<0.2	22.2	<0.5	0.8	0.83
15842	58	32	<1	<5	<0.1	<0.2	26.7	0.7	0.8	0.80
15844	107	58	<1	<5	<0.1	<0.2	36.1	1.7	0.7	1.20
15845	74	54	<1	<5	<0.1	<0.2	26.7	1.2	0.9	0.82
15846	90	33	3	<5	<0.1	<0.2	37.3	1.2	1.3	1.09
15847	120	42	<1	<5	<0.1	<0.2	38.7	1.3	0.9	1.14
15848	150	48	4	<5	<0.1	<0.2	53.8	1.7	1.1	1.46
15849	135	50	2	<5	<0.1	<0.2	32.8	1.9	1.3	1.00
15850	180	75	1	<5	<0.1	<0.2	39.3	1.7	1.7	1.47
15851	151	62	2	<5	<0.1	<0.2	63.4	1.3	0.8	1.83
15852	173	70	3	<5	<0.1	<0.2	64.8	1.1	1.2	1.93
15854	73	24	1	5	0.1	<0.2	40.0	0.9	1.7	0.96
15855	85	50	6	<5	0.4	0.4	85.2	1.8	1.9	1.34
15856	62	296	10	<5	2.2	4.1	51.9	1.4	1.6	1.05
15857	68	183	3	<5	0.7	1.8	79.5	1.1	1.6	1.15
15859	58	519	10	<5	0.3	2.0	23.2	0.9	1.4	0.85
15860	76	97	7	<5	0.6	1.1	45.9	1.5	1.0	1.22
15863	105	63	3	<5	0.3	0.3	41.5	1.3	1.2	1.20
15864	131	81	<1	12	1.1	0.7	63.7	2.3	1.6	1.84
15865	166	86	<1	<5	0.5	0.2	61.4	2.3	1.5	1.78
15866	167	74	<1	<5	0.5	<0.2	67.0	2.4	1.5	2.22
15867	168	84	<1	<5	0.3	0.3	62.2	2.7	1.4	2.01
15868	160	67	<1	<5	0.2	0.2	58.0	2.6	1.2	1.76
15869	157	50	<1	<5	0.3	0.3	63.7	2.0	0.9	2.17
15870	154	56	<1	<5	0.3	<0.2	70.2	2.3	0.9	2.26
18425	55	39	2	<5	<0.1	<0.2	20.2	0.8	1.0	1.17
18426	26	11	<1	<5	<0.1	<0.2	14.4	0.7	0.7	0.71
18427	49	14	<1	<5	0.5	<0.2	27.5	0.9	0.4	0.95
18428	24	11	<1	<5	0.3	<0.2	31.0	<0.5	0.4	0.96
18429	9	<5	1	<5	<0.1	<0.2	10.7	<0.5	0.2	0.74
18430	8	<5	<1	<5	<0.1	<0.2	11.1	<0.5	0.5	0.51
18431	10	7	2	<5	<0.1	<0.2	17.2	<0.5	0.8	0.91
18432	<5	<5	<1	<5	<0.1	<0.2	14.2	<0.5	0.4	0.65
18433	8	<5	4	<5	<0.1	<0.2	15.0	<0.5	1.0	0.70
18434	<5	15	3	<5	<0.1	<0.2	14.3	<0.5	1.1	0.78
18435	<5	<5	4	<5	<0.1	<0.2	18.8	<0.5	0.4	1.00
18436	6	<5	<1	<5	<0.1	<0.2	36.5	<0.5	0.4	1.14
18437	9	10	2	<5	<0.1	<0.2	17.5	<0.5	0.7	0.89
18438	6	<5	<1	<5	<0.1	<0.2	25.8	<0.5	0.4	0.99
18439	13	<5	<1	<5	0.2	0.2	27.7	<0.5	1.2	1.04
18440	24	25	<1	<5	<0.1	<0.2	45.0	<0.5	0.3	1.26

SGS

Element	V	Zn	Ag	As	Bi	Cd	Ce	Co	Cs	Dy
Method	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	5	5	1	5	0.1	0.2	0.1	0.5	0.1	0.05
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
18441	5	<5	<1	<5	<0.1	<0.2	41.7	<0.5	0.6	1.63
18442	16	21	<1	<5	<0.1	<0.2	155	<0.5	1.0	1.45
18443	10	64	<1	<5	<0.1	<0.2	50.5	<0.5	0.5	1.37
18444	6	<5	<1	<5	<0.1	<0.2	61.0	<0.5	0.5	2.19
18445	13	12	<1	<5	<0.1	<0.2	23.2	<0.5	0.9	0.77
18446	9	<5	<1	<5	<0.1	<0.2	88.8	<0.5	0.6	1.17
18447	22	26	<1	<5	<0.1	<0.2	63.0	0.6	1.2	0.67
18448	21	<5	<1	<5	<0.1	<0.2	45.9	<0.5	0.7	0.58
18449	6	<5	<1	<5	<0.1	0.3	49.0	<0.5	0.5	1.71
18450	86	32	<1	<5	<0.1	<0.2	54.5	2.0	1.0	1.84
18451	60	23	<1	<5	<0.1	<0.2	62.4	1.6	0.7	2.19
18452	55	39	<1	<5	<0.1	<0.2	52.7	0.9	0.8	1.57
18453	206	51	<1	<5	<0.1	<0.2	104	1.6	1.4	1.79
18454	95	23	<1	<5	<0.1	<0.2	109	1.0	0.7	2.47
18455	120	42	<1	<5	<0.1	<0.2	41.7	1.2	1.0	0.95
18456	60	14	<1	<5	0.1	<0.2	65.2	0.9	0.5	1.52
18457	59	16	<1	<5	<0.1	<0.2	65.8	0.9	0.5	1.55
18458	94	<5	<1	<5	0.2	<0.2	21.4	0.8	0.9	0.93

SGS

Element	Er	Eu	Ga	Gd	Ge	Hf	Ho	In	La	Lu
Method	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	0.05	0.05	1	0.05	1	1	0.05	0.2	0.1	0.05
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
15840	0.45	0.57	15	1.30	1	4	0.18	<0.2	22.0	0.11
15841	0.55	0.60	19	1.48	1	5	0.19	<0.2	28.1	0.11
RUSS'S GRAB SAMPLE	0.45	0.44	29	1.08	2	6	0.16	<0.2	15.4	0.11
15842	0.43	0.54	15	1.27	<1	5	0.18	<0.2	21.4	0.09
15844	0.73	0.64	18	1.58	1	10	0.25	<0.2	25.2	0.14
15845	0.48	0.51	18	1.11	<1	9	0.17	<0.2	18.6	0.14
15846	0.58	0.70	21	1.53	1	11	0.22	<0.2	30.6	0.13
15847	0.63	0.72	19	1.60	1	8	0.24	<0.2	26.8	0.12
15848	0.81	0.95	18	2.16	1	9	0.28	<0.2	37.9	0.15
15849	0.56	0.52	15	1.35	1	5	0.20	<0.2	20.1	0.10
15850	0.81	0.92	19	1.98	1	9	0.28	<0.2	30.1	0.16
15851	0.84	1.21	20	2.66	1	10	0.34	<0.2	50.0	0.18
15852	1.05	1.31	18	2.87	1	9	0.37	<0.2	50.9	0.23
15854	0.55	0.76	12	1.49	2	3	0.20	<0.2	32.0	0.09
15855	0.62	0.98	22	2.29	2	9	0.23	<0.2	52.7	0.12
15856	0.58	0.65	26	1.65	2	13	0.22	<0.2	33.0	0.12
15857	0.54	0.79	24	1.89	2	14	0.20	<0.2	51.6	0.13
15859	0.44	0.45	26	1.06	2	9	0.16	<0.2	13.2	0.09
15860	0.71	0.70	22	1.79	2	8	0.23	<0.2	27.1	0.14
15863	0.70	0.76	20	1.75	2	6	0.25	<0.2	28.3	0.14
15864	0.99	0.97	21	2.64	3	6	0.36	<0.2	42.2	0.21
15865	0.96	1.12	18	2.59	3	6	0.34	<0.2	42.4	0.19
15866	1.16	1.23	18	3.13	3	6	0.42	<0.2	44.3	0.22
15867	1.10	1.13	17	2.89	3	5	0.40	<0.2	38.2	0.22
15868	0.90	0.89	19	2.42	4	7	0.33	<0.2	36.0	0.20
15869	1.15	1.26	21	3.14	3	5	0.43	<0.2	42.1	0.24
15870	1.12	1.33	21	3.23	3	7	0.44	<0.2	49.1	0.21
18425	0.64	0.48	27	1.24	4	11	0.22	<0.2	15.2	0.15
18426	0.41	0.39	22	0.80	3	5	0.16	<0.2	12.9	0.10
18427	0.52	0.59	27	1.33	1	4	0.18	<0.2	22.0	0.37
18428	0.51	0.64	28	1.28	2	12	0.19	<0.2	25.4	0.14
18429	0.42	0.38	33	0.94	<1	6	0.16	<0.2	10.6	0.18
18430	0.30	0.25	33	0.65	1	8	0.11	<0.2	7.8	0.08
18431	0.51	0.49	22	1.18	<1	3	0.18	<0.2	9.7	0.10
18432	0.41	0.46	29	0.85	1	9	0.16	<0.2	15.8	0.10
18433	0.41	0.47	26	0.92	2	5	0.14	<0.2	14.0	0.07
18434	0.51	0.46	25	1.05	2	4	0.17	<0.2	9.0	0.17
18435	0.61	0.56	27	1.37	<1	7	0.23	<0.2	15.3	0.14
18436	0.63	0.85	22	1.54	<1	5	0.23	<0.2	36.3	0.14
18437	0.56	0.46	25	1.12	1	4	0.19	<0.2	10.7	0.11
18438	0.67	0.52	29	1.29	<1	12	0.21	<0.2	16.5	0.14
18439	0.56	0.64	18	1.49	4	3	0.22	<0.2	17.7	0.10
18440	0.72	0.82	25	1.78	<1	2	0.25	<0.2	32.4	0.13

Element	Er	Eu	Ga	Gd	Ge	Hf	Ho	In	La	Lu
Method	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	0.05	0.05	1	0.05	1	1	0.05	0.2	0.1	0.05
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
18441	1.05	0.94	25	2.21	<1	10	0.35	<0.2	30.0	0.19
18442	0.75	1.01	22	2.42	<1	5	0.27	<0.2	126	0.14
18443	0.81	0.84	23	1.99	<1	5	0.27	<0.2	34.5	0.13
18444	1.21	1.23	17	3.00	<1	9	0.45	<0.2	41.2	0.24
18445	0.44	0.49	29	1.02	2	8	0.16	<0.2	18.1	0.13
18446	0.63	0.83	23	1.99	<1	8	0.23	<0.2	57.5	0.12
18447	0.39	0.46	30	1.03	2	11	0.14	<0.2	42.8	0.10
18448	0.37	0.37	30	0.86	1	10	0.12	<0.2	30.5	0.12
18449	1.01	0.93	24	2.25	<1	15	0.34	<0.2	31.3	0.24
18450	1.00	1.00	18	2.82	5	12	0.35	<0.2	33.2	0.26
18451	1.09	1.24	13	3.29	3	4	0.42	<0.2	41.1	0.18
18452	0.74	1.04	21	2.45	1	8	0.29	<0.2	39.3	0.11
18453	0.93	1.13	19	3.01	5	7	0.33	<0.2	67.4	0.16
18454	0.99	1.94	22	4.78	2	3	0.45	<0.2	70.8	0.14
18455	0.48	0.62	24	1.65	1	7	0.19	<0.2	29.8	0.10
18456	0.70	1.33	12	2.61	<1	3	0.31	<0.2	67.7	0.11
18457	0.72	1.31	12	2.44	<1	2	0.27	<0.2	67.5	0.13
18458	0.48	0.58	24	1.22	1	5	0.19	<0.2	15.2	0.09

Element	Mo	Nb	Nd	Pb	Pr	Rb	Sb	Sm	Sn	Ta
Method	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	2	1	0.1	5	0.05	0.2	0.1	0.1	1	0.5
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
15840	16	26	10.6	12	3.30	83.3	0.1	1.7	2	1.0
15841	6	23	12.5	15	3.95	71.4	0.2	1.9	1	1.0
RUSS'S GRAB SAMPLE	3	7	8.8	13	2.43	98.2	0.4	1.5	2	<0.5
15842	15	15	9.0	20	2.80	85.7	0.4	1.4	1	0.5
15844	94	39	11.7	17	3.88	79.4	0.2	1.9	2	1.6
15845	50	36	8.7	17	2.77	83.2	0.3	1.4	1	1.5
15846	53	42	11.6	19	3.74	92.0	0.2	1.8	2	1.4
15847	84	25	11.5	18	3.87	81.6	0.4	2.0	2	1.0
15848	39	38	17.5	17	5.70	90.5	0.2	2.8	2	1.4
15849	43	34	10.3	22	3.52	90.7	0.2	1.7	2	1.3
15850	47	42	13.3	18	4.13	80.6	0.2	2.4	2	1.7
15851	12	34	19.7	19	6.37	58.0	0.2	3.2	2	1.3
15852	26	32	22.3	19	6.71	53.9	0.2	3.6	2	1.2
15854	29	20	12.8	38	4.14	77.9	0.3	2.0	1	0.8
15855	29	45	25.7	64	8.72	123	0.3	3.4	2	1.6
15856	43	98	15.6	347	5.33	139	0.4	2.2	2	3.5
15857	19	93	21.3	141	7.86	132	0.3	2.8	2	3.4
15859	26	73	8.3	68	2.67	95.4	0.3	1.5	2	3.2
15860	124	56	15.7	105	5.06	104	0.3	2.5	2	2.6
15863	39	25	14.1	36	4.33	77.9	0.3	2.3	3	0.9
15864	38	38	21.4	64	6.74	106	0.8	3.4	4	1.5
15865	105	33	21.7	38	6.55	77.3	0.6	3.4	3	1.3
15866	357	39	24.4	73	7.44	83.6	0.7	4.1	4	1.6
15867	120	37	23.2	32	7.02	94.4	0.8	3.7	5	1.5
15868	94	44	20.7	24	6.36	104	0.6	3.3	4	1.9
15869	61	42	23.9	39	6.95	81.2	0.6	3.9	3	1.8
15870	67	42	24.3	30	7.55	86.9	0.6	4.0	4	1.7
18425	12	66	6.6	26	2.00	91.4	0.2	1.2	1	2.3
18426	8	30	4.8	13	1.50	73.0	0.4	0.9	2	1.3
18427	367	32	9.1	38	2.84	51.8	0.3	1.5	2	1.1
18428	269	48	9.4	28	2.97	45.4	0.3	1.4	1	1.8
18429	10	21	3.6	11	1.07	11.1	0.2	0.8	1	0.9
18430	14	25	3.8	14	1.16	74.5	0.1	0.7	1	1.0
18431	<2	14	7.0	20	2.03	155	0.1	1.3	<1	0.5
18432	2	17	4.2	21	1.28	31.3	0.3	0.8	1	0.7
18433	2	41	4.8	27	1.44	135	0.2	0.9	1	1.7
18434	3	46	5.9	28	1.64	180	0.3	1.1	1	2.1
18435	10	24	6.9	17	2.01	54.4	0.2	1.3	<1	0.9
18436	159	16	10.6	23	3.35	69.6	0.2	1.7	1	0.6
18437	34	37	7.0	20	2.03	131	0.3	1.3	1	1.6
18438	<2	92	8.7	25	2.70	53.3	0.3	1.4	1	3.5
18439	<2	44	10.1	50	3.01	166	0.4	1.7	1	1.4
18440	4	71	14.7	29	4.73	49.7	0.3	2.2	1	2.6

Element	Mo	Nb	Nd	Pb	Pr	Rb	Sb	Sm	Sn	Ta
Method	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	2	1	0.1	5	0.05	0.2	0.1	0.1	1	0.5
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
18441	17	103	15.2	36	4.48	118	0.1	2.4	<1	3.8
18442	9	86	30.8	72	12.2	139	2.2	3.2	3	3.0
18443	6	57	15.5	29	5.00	79.3	0.2	2.3	<1	2.3
18444	48	93	21.1	66	6.38	89.5	0.7	3.5	<1	2.8
18445	13	91	7.2	33	2.31	93.8	0.2	1.2	1	4.2
18446	<2	50	24.4	37	8.38	118	0.2	2.8	<1	2.0
18447	5	72	14.7	34	5.62	124	0.4	1.5	<1	2.8
18448	<2	81	11.4	25	4.18	150	0.2	1.3	1	3.0
18449	2	100	17.4	38	5.19	111	0.1	2.9	<1	4.1
18450	4	57	22.0	19	6.38	100	0.4	3.6	2	2.8
18451	8	34	23.6	21	6.79	83.5	0.4	3.9	2	1.0
18452	22	41	19.5	22	5.64	98.3	0.2	3.2	2	1.4
18453	3	27	33.9	31	10.9	89.0	0.5	4.4	3	1.1
18454	2	15	47.2	35	13.1	86.4	0.5	6.9	2	0.6
18455	2	46	14.1	21	4.34	144	0.1	2.2	2	2.0
18456	5	16	20.6	41	6.26	62.8	0.3	3.3	2	0.5
18457	7	19	20.7	33	6.23	60.8	0.3	3.2	2	0.7
18458	6	28	8.7	23	2.41	116	0.3	1.6	2	1.5

SGS

Element	Tb	Th	Tl	Tm	U	W	Y	Yb	Zr
Method	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	0.05	0.1	0.5	0.05	0.05	1	0.5	0.1	0.5
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
15840	0.17	13.0	<0.5	0.08	6.36	9	5.9	0.5	218
15841	0.17	19.4	<0.5	0.08	7.49	5	7.0	0.6	300
RUSS'S GRAB SAMPLE	0.16	5.3	<0.5	0.07	3.15	<1	7.2	0.5	256
15842	0.16	12.9	<0.5	0.07	5.99	2	7.5	0.4	280
15844	0.21	25.1	<0.5	0.12	9.23	4	7.6	0.8	632
15845	0.15	16.8	<0.5	0.08	14.2	3	5.3	0.6	581
15846	0.19	17.2	<0.5	0.11	13.0	4	7.4	0.7	673
15847	0.22	27.5	<0.5	0.09	6.47	10	7.6	0.7	450
15848	0.29	19.7	<0.5	0.12	10.2	10	8.4	0.8	533
15849	0.18	13.8	<0.5	0.08	6.95	6	5.9	0.7	292
15850	0.28	16.8	<0.5	0.12	7.41	15	9.1	0.9	507
15851	0.34	16.3	<0.5	0.13	4.89	10	10.7	0.8	599
15852	0.36	12.9	<0.5	0.16	7.99	12	13.0	1.0	478
15854	0.19	8.1	<0.5	0.08	4.37	6	7.4	0.5	147
15855	0.27	29.8	<0.5	0.09	15.4	9	6.9	0.7	561
15856	0.21	36.0	<0.5	0.10	38.2	5	6.0	0.6	738
15857	0.22	35.0	<0.5	0.09	35.5	6	5.9	0.6	815
15859	0.16	33.7	<0.5	0.08	34.6	5	5.2	0.5	546
15860	0.24	23.9	<0.5	0.10	23.1	5	6.8	0.7	472
15863	0.22	16.4	<0.5	0.11	10.6	6	10.0	0.7	372
15864	0.34	32.0	<0.5	0.16	11.0	12	12.7	1.1	313
15865	0.34	25.6	<0.5	0.14	10.5	14	11.3	1.0	258
15866	0.39	23.4	<0.5	0.19	14.7	12	12.6	1.3	268
15867	0.37	27.5	<0.5	0.17	10.1	11	11.4	1.2	222
15868	0.31	25.6	<0.5	0.15	9.79	11	9.1	1.0	271
15869	0.41	22.8	<0.5	0.18	7.65	12	13.2	1.2	252
15870	0.43	27.3	<0.5	0.17	8.40	13	14.4	1.2	287
18425	0.20	36.2	<0.5	0.11	26.5	2	10.2	0.8	588
18426	0.13	17.5	<0.5	0.06	9.78	2	6.1	0.4	247
18427	0.18	9.3	<0.5	0.08	6.30	2	8.5	0.5	218
18428	0.17	19.3	<0.5	0.09	28.8	2	8.4	0.6	684
18429	0.14	4.4	<0.5	0.06	8.73	<1	9.7	0.5	347
18430	0.09	9.3	<0.5	<0.05	17.3	<1	5.6	0.4	501
18431	0.16	2.0	<0.5	0.08	12.7	<1	7.3	0.5	181
18432	0.12	6.0	<0.5	0.07	10.7	<1	7.9	0.4	510
18433	0.13	4.5	<0.5	0.06	39.0	<1	7.5	0.4	299
18434	0.15	2.5	0.5	0.08	47.4	<1	7.6	0.5	266
18435	0.18	5.2	<0.5	0.09	20.7	<1	11.7	0.6	468
18436	0.20	3.2	<0.5	0.10	13.6	<1	10.3	0.7	315
18437	0.16	2.3	<0.5	0.08	39.2	<1	6.9	0.6	238
18438	0.18	8.8	<0.5	0.10	73.6	2	9.5	0.7	698
18439	0.19	2.5	0.5	0.08	36.1	<1	9.8	0.5	159
18440	0.23	4.5	<0.5	0.10	54.0	1	8.8	0.7	105

Element	Tb	Th	Tl	Tm	U	W	Y	Yb	Zr
Method	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	0.05	0.1	0.5	0.05	0.05	1	0.5	0.1	0.5
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
18441	0.29	6.1	<0.5	0.15	76.8	1	12.7	1.0	590
18442	0.26	9.5	<0.5	0.12	73.1	2	9.9	0.8	374
18443	0.26	7.2	<0.5	0.12	38.6	<1	10.0	0.8	315
18444	0.39	6.9	<0.5	0.19	86.5	1	15.9	1.4	584
18445	0.14	5.3	<0.5	0.08	75.3	1	5.9	0.6	503
18446	0.22	17.3	<0.5	0.10	45.6	1	8.6	0.7	542
18447	0.11	29.2	<0.5	0.07	44.3	1	4.6	0.5	737
18448	0.10	27.6	<0.5	0.06	53.4	2	4.0	0.4	645
18449	0.30	7.5	<0.5	0.17	94.8	1	11.3	1.2	967
18450	0.35	29.9	<0.5	0.16	32.7	8	11.9	1.0	636
18451	0.41	20.3	<0.5	0.16	11.1	8	19.8	1.0	178
18452	0.29	7.2	<0.5	0.11	19.0	8	11.6	0.7	409
18453	0.33	42.5	<0.5	0.14	9.00	12	11.3	0.9	293
18454	0.49	2.9	<0.5	0.14	7.22	7	14.4	0.9	105
18455	0.21	11.2	0.5	0.08	18.8	14	5.6	0.6	364
18456	0.28	9.0	<0.5	0.11	2.16	9	12.1	0.7	97.3
18457	0.28	7.9	<0.5	0.10	2.13	10	11.4	0.7	69.8
18458	0.16	6.3	<0.5	0.08	5.73	10	6.8	0.6	251

SGS

Certificate of Analysis

Work Order: VC120242

To: Freeport Resources
COD SGS ASSAYERS
8711 Elsmore Road
Richmond
BC V7C 24A

Date: Mar 16, 2012

P.O. No.	:	BRENDA CLARK-BOX 6
Project No.	:	-
No. Of Samples	:	48
Date Submitted	:	Feb 15, 2012
Report Comprises	:	Pages 1 to 13 (Inclusive of Cover Sheet)

Distribution of unused material:

Active files - upstairs:

Comments:

CaF2 is calculated from F values.

Certified By : ______________________

Satpaul Gill
QAQC Chemist

SGS Minerals Services Geochemistry, Vancouver, BC is ISO 9001:2008 certified.

Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	--	= No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Methods marked with the @ symbol (e.g. @AAS21E) denote accredited tests

SGS

Element	F	F(R)	CaF2	CaF2(R)	Al	Ba	Be	Ca	Cr	Cu
Method	ISE07A	ISE07A	ISE07A	ISE07A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	0.002	0.005	0.004	0.01	0.01	0.5	5	0.1	10	5
Units	%	%	%	%	%	ppm	ppm	%	ppm	ppm
18491	>0.5	8.464	>1.027	17.391	6.39	2640	<5	12.2	10	11
18492	0.304	N.A.	0.624	N.A.	6.74	947	<5	2.8	<10	13
18493	>0.5	3.237	>1.027	6.652	9.05	1790	<5	8.0	<10	6
18494	>0.5	1.038	>1.027	2.133	6.00	3480	<5	14.4	<10	5
18495	>0.5	5.845	>1.027	12.011	4.36	4990	<5	17.2	<10	<5
18496	>0.5	4.548	>1.027	9.346	9.86	2160	<5	8.6	<10	9
18497	>0.5	2.724	>1.027	5.597	9.27	1380	<5	4.8	<10	9
18499	>0.5	7.326	>1.027	15.054	8.52	1070	<5	11.2	20	9
18500	>0.5	5.411	>1.027	11.118	6.50	3680	<5	14.0	20	9
18601	>0.5	4.748	>1.027	9.755	8.05	2730	<5	7.7	20	7
18602	>0.5	7.069	>1.027	14.525	4.71	9040	<5	11.6	10	9
18603	>0.5	0.771	>1.027	1.585	2.27	185	<5	31.6	<10	<5
18604	>0.5	3.190	>1.027	6.555	1.07	1210	<5	32.2	<10	<5
18605	0.408	N.A.	0.839	N.A.	9.03	1010	<5	2.3	<10	10
18606	>0.5	1.433	>1.027	2.945	8.68	1860	<5	5.1	10	12
18607	>0.5	0.514	>1.027	1.056	11.1	2270	<5	3.2	10	14
18608	>0.5	1.510	>1.027	3.103	8.69	633	<5	4.3	<10	11
18610	>0.5	0.739	>1.027	1.519	9.27	699	<5	1.6	<10	7
18611	>0.5	3.777	>1.027	7.760	8.93	1720	<5	6.1	<10	9
18612	>0.5	2.586	>1.027	5.313	9.43	636	<5	7.5	10	<5
18613	>0.5	1.384	>1.027	2.840	8.51	505	<5	3.8	10	8
18614	>0.5	0.555	>1.027	1.141	5.50	966	<5	5.1	10	15
18615	>0.5	8.351	>1.027	17.160	10.5	1470	<5	10.6	<10	<5
18616	>0.5	6.817	>1.027	14.008	9.16	714	<5	10.4	<10	<5
18617	0.346	N.A.	0.711	N.A.	6.22	991	<5	5.5	<10	11
18618	>0.5	10.417	>1.027	21.404	3.98	4670	<5	19.7	10	9
18619	>0.5	7.991	>1.027	16.419	3.25	4310	<5	25.3	20	10
18620	0.164	N.A.	0.338	N.A.	6.38	677	<5	2.9	10	13
18621	>0.5	7.808	>1.027	16.043	4.18	1940	<5	17.3	20	11
18622	>0.5	1.500	>1.027	3.082	6.18	656	<5	5.6	10	14
18623	0.490	N.A.	1.007	N.A.	5.79	1260	<5	7.3	10	15
15928	>0.5	0.718	>1.027	1.475	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15951	>0.5	1.041	>1.027	2.140	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15952	>0.5	1.430	>1.027	2.938	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15953	>0.5	2.550	>1.027	5.241	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15958	>0.5	3.781	>1.027	7.770	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15959	>0.5	1.255	>1.027	2.579	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15960	>0.5	1.490	>1.027	3.062	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15961	>0.5	1.333	>1.027	2.740	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15962	>0.5	0.600	>1.027	1.233	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15963	>0.5	0.649	>1.027	1.333	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15964	>0.5	1.181	>1.027	2.427	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15965	>0.5	0.770	>1.027	1.582	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

Element	F	F(R)	CaF2	CaF2(R)	Al	Ba	Be	Ca	Cr	Cu
Method	ISE07A	ISE07A	ISE07A	ISE07A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	0.002	0.005	0.004	0.01	0.01	0.5	5	0.1	10	5
Units	%	%	%	%	%	ppm	ppm	%	ppm	ppm
15966	>0.5	1.160	>1.027	2.383	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15967	>0.5	0.857	>1.027	1.761	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15968	>0.5	0.782	>1.027	1.607	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15969	>0.5	0.847	>1.027	1.741	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15970	>0.5	0.864	>1.027	1.776	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

SGS

Element	Fe	K	Li	Mg	Mn	Ni	P	Sc	Sr	Ti
Method	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	0.01	0.1	10	0.01	10	5	0.01	5	0.1	0.01
Units	%	%	ppm	%	ppm	ppm	%	ppm	ppm	%
18491	2.72	1.7	70	0.05	500	6	0.10	8	>10000	0.07
18492	1.89	4.5	110	0.14	680	10	0.02	<5	2110	0.08
18493	2.61	2.5	60	0.11	810	7	0.08	6	>10000	0.09
18494	1.54	1.8	40	0.08	310	<5	0.03	<5	>10000	0.06
18495	1.07	1.4	20	0.09	1430	<5	0.08	<5	>10000	0.04
18496	2.42	2.7	110	0.08	530	13	0.03	5	>10000	0.10
18497	2.04	4.3	60	0.12	360	<5	0.04	<5	9170	0.08
18499	2.08	3.1	90	0.09	520	<5	0.03	6	8660	0.35
18500	1.55	2.3	60	0.10	1400	<5	0.04	<5	>10000	0.17
18601	3.58	1.9	80	0.17	520	6	0.22	9	>10000	0.16
18602	1.57	2.3	30	0.11	670	<5	0.15	<5	>10000	0.08
18603	1.20	0.6	10	0.19	3100	<5	0.09	<5	9880	0.05
18604	0.76	0.4	10	0.17	3310	<5	0.09	<5	>10000	0.01
18605	1.44	5.1	70	0.09	350	8	0.02	<5	2990	0.12
18606	1.11	5.5	50	0.07	520	7	0.03	<5	9960	0.08
18607	2.12	5.9	110	0.25	630	9	0.11	<5	4320	0.31
18608	1.92	3.6	80	0.06	550	14	0.02	<5	2190	0.08
18610	1.39	3.3	80	0.04	160	7	0.02	<5	3470	0.08
18611	1.30	4.2	40	0.08	440	6	0.05	<5	>10000	0.06
18612	0.61	3.6	70	0.07	840	5	0.04	<5	1740	0.07
18613	1.26	3.8	60	0.06	370	6	0.01	<5	1180	0.09
18614	3.19	4.0	110	0.49	1390	10	0.02	6	3930	0.09
18615	0.38	1.4	70	0.03	110	<5	0.31	<5	>10000	0.05
18616	0.46	3.7	30	0.03	380	<5	0.05	<5	4170	0.02
18617	1.77	3.7	80	0.23	900	7	0.02	<5	4700	0.10
18618	1.80	1.9	40	0.06	880	5	0.12	<5	>10000	0.04
18619	1.23	1.4	30	0.06	900	5	0.47	<5	>10000	0.04
18620	1.44	4.2	80	0.11	640	9	0.02	<5	855	0.09
18621	2.77	2.2	50	0.07	1180	6	0.28	7	>10000	0.15
18622	1.97	2.9	120	0.13	840	9	0.03	5	3110	0.11
18623	2.48	3.9	60	0.21	1150	10	0.08	<5	>10000	0.09
15928	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15951	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15952	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15953	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15958	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15959	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15960	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15961	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15962	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15963	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15964	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15965	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

Element	Fe	K	Li	Mg	Mn	Ni	P	Sc	Sr	Ti
Method	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	0.01	0.1	10	0.01	10	5	0.01	5	0.1	0.01
Units	%	%	ppm	%	ppm	ppm	%	ppm	ppm	%
15966	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15967	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15968	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15969	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15970	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

Element	V	Zn	Ag	As	Bi	Cd	Ce	Co	Cs	Dy
Method	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	5	5	1	5	0.1	0.2	0.1	0.5	0.1	0.05
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
18491	200	36	<1	<5	0.2	<0.2	77.2	1.3	1.1	1.79
18492	112	36	<1	<5	0.7	<0.2	99.2	2.5	2.0	2.11
18493	185	64	<1	<5	<0.1	0.2	46.9	1.3	0.8	1.82
18494	108	39	<1	<5	<0.1	<0.2	67.2	1.3	0.5	2.19
18495	78	14	<1	<5	<0.1	<0.2	70.7	0.8	0.4	2.09
18496	197	43	<1	<5	0.1	<0.2	74.0	1.3	1.8	1.98
18497	137	47	<1	<5	0.1	<0.2	60.4	1.4	1.7	1.48
18499	166	50	<1	<5	0.1	0.2	37.8	1.3	2.5	2.85
18500	113	26	2	<5	<0.1	<0.2	57.9	2.0	2.0	2.01
18601	291	90	<1	<5	0.1	0.2	97.7	1.9	2.1	3.13
18602	110	29	<1	<5	0.1	<0.2	82.5	1.5	0.8	2.15
18603	38	5	2	<5	0.1	0.5	93.4	<0.5	1.3	2.22
18604	25	11	7	<5	<0.1	0.4	101	<0.5	0.5	2.03
18605	88	<5	<1	<5	0.1	<0.2	27.0	1.4	4.6	1.05
18606	39	<5	8	<5	0.3	0.2	29.4	1.4	2.0	0.83
18607	134	47	2	<5	0.3	0.3	74.5	3.4	5.2	2.16
18608	82	36	<1	<5	1.9	0.7	18.0	2.2	1.4	1.38
18610	73	155	<1	<5	0.8	2.6	18.1	1.7	1.0	1.12
18611	66	86	<1	<5	5.3	0.8	102	1.3	2.3	1.48
18612	36	19	<1	<5	0.2	0.4	19.9	0.5	1.7	1.11
18613	67	6	<1	<5	0.7	<0.2	13.7	0.9	1.5	1.02
18614	270	126	<1	<5	0.1	<0.2	92.0	3.5	1.9	1.93
18615	44	6	<1	<5	0.1	<0.2	64.5	0.6	1.2	1.58
18616	20	<5	<1	<5	0.2	0.2	13.2	0.7	1.2	0.86
18617	127	56	<1	<5	0.8	0.3	95.1	3.1	1.4	2.21
18618	114	22	<1	<5	<0.1	<0.2	86.8	0.9	0.8	2.45
18619	67	31	<1	<5	<0.1	<0.2	111	0.8	0.5	3.16
18620	72	19	<1	<5	0.5	0.2	70.6	2.3	1.3	1.86
18621	186	37	<1	<5	<0.1	<0.2	133	2.1	1.1	4.33
18622	135	36	<1	<5	0.5	0.3	49.5	3.1	1.3	1.84
18623	161	67	<1	<5	0.3	0.2	73.7	3.1	1.4	2.01
15928	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15951	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15952	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15953	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15958	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15959	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15960	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15961	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15962	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15963	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15964	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15965	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

Element	V	Zn	Ag	As	Bi	Cd	Ce	Co	Cs	Dy
Method	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	5	5	1	5	0.1	0.2	0.1	0.5	0.1	0.05
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
15966	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15967	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15968	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15969	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15970	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

Element	Er	Eu	Ga	Gd	Ge	Hf	Ho	In	La	Lu
Method	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	0.05	0.05	1	0.05	1	1	0.05	0.2	0.1	0.05
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
18491	0.94	1.24	24	2.75	2	11	0.34	<0.2	60.2	0.18
18492	1.25	0.97	18	2.98	3	13	0.43	<0.2	62.1	0.35
18493	1.11	0.90	33	2.43	1	13	0.37	<0.2	33.5	0.24
18494	1.13	1.55	23	3.33	1	8	0.42	<0.2	48.7	0.18
18495	1.05	1.40	14	3.13	1	5	0.40	<0.2	51.9	0.18
18496	1.20	1.07	42	2.62	1	51	0.41	<0.2	48.1	0.29
18497	0.91	0.71	33	1.93	2	35	0.29	<0.2	40.6	0.23
18499	1.75	1.38	31	3.57	2	48	0.60	<0.2	18.9	0.42
18500	1.11	1.51	24	2.74	1	9	0.39	<0.2	52.6	0.40
18601	1.45	1.97	31	4.72	2	10	0.54	<0.2	85.4	0.26
18602	1.21	1.64	16	2.87	1	13	0.43	<0.2	91.4	0.23
18603	1.05	2.21	11	3.15	<1	26	0.41	<0.2	92.4	0.20
18604	0.90	2.09	4	3.07	<1	<1	0.37	<0.2	103	0.12
18605	0.55	0.49	27	1.40	2	11	0.18	<0.2	15.5	0.14
18606	0.51	0.60	25	1.34	3	15	0.17	<0.2	17.8	0.16
18607	0.94	1.35	31	3.69	2	9	0.38	<0.2	38.0	0.19
18608	0.77	0.60	29	1.59	2	17	0.28	<0.2	9.7	0.16
18610	0.62	0.49	24	1.32	2	26	0.22	<0.2	9.2	0.18
18611	0.81	0.99	35	2.31	2	21	0.28	<0.2	66.0	0.16
18612	0.63	0.62	33	1.51	3	3	0.22	<0.2	11.3	0.14
18613	0.54	0.55	31	1.44	3	9	0.20	<0.2	6.1	0.14
18614	1.14	0.99	16	2.78	3	10	0.39	<0.2	57.0	0.30
18615	0.86	1.10	40	2.83	2	7	0.30	<0.2	41.5	0.33
18616	0.46	0.52	32	1.21	1	4	0.18	<0.2	8.4	0.10
18617	1.19	1.08	15	3.31	3	5	0.43	<0.2	60.3	0.25
18618	1.34	1.63	15	3.62	2	9	0.48	<0.2	67.3	0.25
18619	1.69	2.15	13	5.10	1	4	0.62	<0.2	71.1	0.28
18620	1.12	0.78	13	2.62	3	4	0.39	<0.2	42.3	0.24
18621	2.02	2.60	15	6.84	2	6	0.78	<0.2	72.9	0.38
18622	1.04	0.75	17	2.39	3	3	0.37	<0.2	28.9	0.23
18623	1.16	0.95	16	2.70	3	5	0.42	<0.2	41.2	0.28
15928	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15951	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15952	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15953	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15958	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15959	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15960	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15961	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15962	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15963	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15964	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15965	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

Element	Er	Eu	Ga	Gd	Ge	Hf	Ho	In	La	Lu
Method	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	0.05	0.05	1	0.05	1	1	0.05	0.2	0.1	0.05
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
15966	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15967	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15968	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15969	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15970	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

Element	Mo	Nb	Nd	Pb	Pr	Rb	Sb	Sm	Sn	Ta
Method	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	2	1	0.1	5	0.05	0.2	0.1	0.1	1	0.5
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
18491	102	31	24.4	36	7.52	48.6	0.8	3.5	3	1.1
18492	20	62	27.4	56	9.53	172	0.5	4.2	2	3.0
18493	39	68	16.8	21	4.92	69.1	0.4	2.8	3	2.7
18494	168	40	24.0	33	6.98	50.3	0.4	4.0	2	0.8
18495	98	16	23.9	29	7.10	37.2	0.3	3.8	2	<0.5
18496	6	77	21.0	34	6.87	74.4	0.4	3.3	2	3.1
18497	156	97	16.2	25	5.53	118	0.3	2.5	2	4.1
18499	9	157	19.4	50	4.77	85.4	1.0	4.3	3	6.0
18500	43	72	19.3	60	5.72	66.4	1.1	3.4	2	2.7
18601	10	62	32.9	33	9.68	58.8	0.4	5.5	4	2.9
18602	149	38	20.9	46	6.73	67.3	0.5	3.4	2	0.9
18603	2	90	24.8	28	7.88	16.6	0.3	3.6	1	2.9
18604	22	5	27.0	26	8.76	9.0	0.3	3.9	<1	<0.5
18605	3	67	10.4	23	3.07	164	0.4	1.8	2	2.7
18606	3	29	10.8	44	3.20	161	0.4	1.8	5	1.5
18607	4	97	31.5	49	8.73	180	0.7	5.3	4	5.3
18608	5	64	7.6	459	2.15	98.9	0.6	1.7	2	2.6
18610	88	84	7.9	133	2.26	90.1	0.9	1.6	2	3.0
18611	33	126	26.6	654	9.49	140	0.6	3.2	2	4.8
18612	2	24	9.0	40	2.46	106	0.8	1.8	2	1.1
18613	3	43	7.8	62	1.91	110	1.6	1.7	3	2.3
18614	7	47	28.1	27	9.40	129	0.8	4.0	4	2.1
18615	3	30	25.9	27	7.24	38.8	0.6	3.9	1	2.0
18616	2	9	5.8	21	1.57	101	0.3	1.2	1	<0.5
18617	119	38	30.2	71	9.79	135	0.5	4.5	3	1.6
18618	29	21	28.2	37	8.68	54.9	0.7	4.2	3	0.7
18619	3	15	41.3	41	12.1	38.4	0.9	6.4	2	<0.5
18620	5	35	22.1	35	7.53	167	0.5	3.4	2	1.5
18621	115	40	54.8	25	15.4	67.1	0.6	9.0	4	1.3
18622	57	34	18.0	54	5.36	102	0.8	3.0	3	1.5
18623	23	29	23.7	23	7.30	118	0.9	3.7	4	1.1
15928	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15951	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15952	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15953	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15958	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15959	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15960	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15961	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15962	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15963	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15964	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15965	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

Element	Mo	Nb	Nd	Pb	Pr	Rb	Sb	Sm	Sn	Ta
Method	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	2	1	0.1	5	0.05	0.2	0.1	0.1	1	0.5
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
15966	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15967	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15968	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15969	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15970	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

Element	Tb	Th	Tl	Tm	U	W	Y	Yb	Zr
Method	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	0.05	0.1	0.5	0.05	0.05	1	0.5	0.1	0.5
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
18491	0.33	11.0	<0.5	0.14	6.42	25	16.2	1.0	580
18492	0.37	58.6	0.7	0.22	31.1	8	12.3	1.6	827
18493	0.31	25.5	<0.5	0.19	14.7	11	12.1	1.3	655
18494	0.40	13.8	<0.5	0.18	10.3	8	20.9	1.2	417
18495	0.38	5.7	<0.5	0.16	4.31	4	16.1	1.0	284
18496	0.36	44.8	<0.5	0.20	26.9	5	14.4	1.6	3310
18497	0.25	48.7	<0.5	0.18	47.3	5	9.8	1.3	2070
18499	0.48	13.8	<0.5	0.31	27.3	15	19.5	2.3	3160
18500	0.35	4.7	<0.5	0.19	8.18	5	14.6	1.3	466
18601	0.59	10.9	<0.5	0.20	7.03	17	17.6	1.3	462
18602	0.37	16.0	<0.5	0.18	5.52	11	17.7	1.3	635
18603	0.42	70.1	<0.5	0.17	19.1	5	18.7	1.1	2240
18604	0.38	4.9	<0.5	0.13	1.61	18	18.1	0.8	32.1
18605	0.17	36.2	0.7	0.10	21.8	6	5.6	0.7	591
18606	0.15	16.6	0.7	0.09	6.16	5	6.5	0.8	940
18607	0.44	15.5	0.7	0.14	12.7	13	9.9	0.9	522
18608	0.24	122	<0.5	0.13	28.7	7	9.6	0.9	840
18610	0.20	104	<0.5	0.10	29.9	6	6.6	0.8	1350
18611	0.27	39.4	0.5	0.13	50.4	5	10.9	0.9	1180
18612	0.21	3.3	0.5	0.09	5.25	2	9.3	0.7	151
18613	0.20	22.3	0.5	0.09	8.40	5	6.8	0.7	473
18614	0.36	59.7	<0.5	0.19	10.2	28	10.7	1.4	438
18615	0.29	5.8	<0.5	0.11	14.1	2	14.7	0.8	393
18616	0.15	2.6	<0.5	0.07	8.98	1	12.0	0.5	183
18617	0.40	27.4	<0.5	0.20	7.94	8	11.9	1.4	242
18618	0.44	12.0	<0.5	0.20	4.73	24	24.0	1.3	503
18619	0.60	15.9	<0.5	0.24	6.44	8	31.2	1.4	158
18620	0.35	46.0	0.6	0.18	17.6	5	10.9	1.3	152
18621	0.81	10.6	<0.5	0.29	8.44	27	29.0	1.9	292
18622	0.32	20.5	<0.5	0.15	10.4	7	11.1	1.1	118
18623	0.35	24.6	<0.5	0.18	8.23	13	13.5	1.3	178
15928	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15951	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15952	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15953	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15958	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15959	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15960	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15961	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15962	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15963	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15964	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15965	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

SGS

Element	Tb	Th	Tl	Tm	U	W	Y	Yb	Zr
Method	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	0.05	0.1	0.5	0.05	0.05	1	0.5	0.1	0.5
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
15966	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15967	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15968	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15969	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
15970	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

Certificate of Analysis

Work Order: VC120243

To: **Freeport Resources**
COD SGS ASSAYERS
8711 Elsmore Road
Richmond
BC V7C 24A

Date: Mar 15, 2012

P.O. No.	:	BRENDA CLARK-BOX 7/8
Project No.	:	-
No. Of Samples	:	62
Date Submitted	:	Feb 15, 2012
Report Comprises	:	Pages 1 to 13 (Inclusive of Cover Sheet)

Distribution of unused material:
Active files - upstairs:

Comments:

CaF2 is calcuilated from F values.

Certified By : ____________________
Satpaul Gill
QAQC Chemist

SGS Minerals Services Geochemistry, Vancouver, BC is ISO 9001:2008 certified.

Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	--	= No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Methods marked with the @ symbol (e.g. @AAS21E) denote accredited tests

Element	F	F(R)	CaF2	CaF2(R)	Al	Ba	Be	Ca	Cr	Cu
Method	ISE07A	ISE07A	ISE07A	ISE07A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	0.002	0.005	0.004	0.01	0.01	0.5	5	0.1	10	5
Units	%	%	%	%	%	ppm	ppm	%	ppm	ppm
18624	>0.5	0.542	>1.027	1.115	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18625	>0.5	1.111	>1.027	2.283	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18626	>0.5	4.089	>1.027	8.402	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18627	0.420	N.A.	0.864	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18628	>0.5	4.449	>1.027	9.142	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18629	>0.5	5.745	>1.027	11.804	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18630	>0.5	5.922	>1.027	12.168	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18631	>0.5	3.889	>1.027	7.991	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18632	>0.5	2.375	>1.027	4.880	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18633	>0.5	6.274	>1.027	12.891	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18634	>0.5	2.228	>1.027	4.579	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18635	>0.5	5.277	>1.027	10.842	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18636	>0.5	3.866	>1.027	7.944	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18637	>0.5	4.468	>1.027	9.181	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18638	>0.5	5.389	>1.027	11.074	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18639	>0.5	3.154	>1.027	6.481	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18640	>0.5	5.734	>1.027	11.782	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18641	>0.5	8.344	>1.027	17.145	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18642	>0.5	1.644	>1.027	3.379	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18643	>0.5	5.777	>1.027	11.870	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18644	>0.5	5.592	>1.027	11.490	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18647	>0.5	3.475	>1.027	7.141	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18650	>0.5	6.611	>1.027	13.583	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18651	>0.5	4.374	>1.027	8.987	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18652	>0.5	1.196	>1.027	2.458	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18653	>0.5	1.309	>1.027	2.689	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18654	>0.5	0.968	>1.027	1.990	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18657	>0.5	3.802	>1.027	7.813	8.78	1200	<5	9.7	<10	<5
18658	>0.5	5.980	>1.027	12.288	8.75	1190	<5	8.7	<10	6
18659	>0.5	1.697	>1.027	3.487	6.89	2000	<5	10.3	<10	11
18660	>0.5	4.384	>1.027	9.008	5.31	4540	<5	7.4	10	15
18661	>0.5	1.255	>1.027	2.578	6.95	799	<5	4.4	<10	17
18662	>0.5	1.673	>1.027	3.438	6.97	1300	<5	6.3	<10	9
18663	>0.5	0.750	>1.027	1.542	6.01	853	<5	3.6	<10	14
18664	>0.5	4.120	>1.027	8.467	4.54	2340	6	14.3	<10	21
18665	>0.5	7.446	>1.027	15.299	1.62	4970	8	25.1	<10	25
18666	>0.5	7.281	>1.027	14.962	4.02	2960	8	23.0	10	28
18667	>0.5	5.196	>1.027	10.676	4.81	3560	8	18.0	10	30
18668	>0.5	5.286	>1.027	10.861	4.02	3980	7	19.0	10	31
18669	>0.5	3.117	>1.027	6.405	7.60	1130	6	7.7	<10	27
18670	>0.5	2.649	>1.027	5.444	4.92	2630	6	7.7	20	38
18671	>0.5	2.943	>1.027	6.047	6.06	3020	<5	4.6	10	24
18672	>0.5	4.957	>1.027	10.187	5.60	6150	<5	6.8	30	26

Element	F	F(R)	CaF2	CaF2(R)	Al	Ba	Be	Ca	Cr	Cu
Method	ISE07A	ISE07A	ISE07A	ISE07A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	0.002	0.005	0.004	0.01	0.01	0.5	5	0.1	10	5
Units	%	%	%	%	%	ppm	ppm	%	ppm	ppm
18673	>0.5	1.344	>1.027	2.761	5.60	1440	5	5.5	10	28
18674	>0.5	5.050	>1.027	10.376	5.55	2160	6	7.4	20	31
18675	>0.5	4.766	>1.027	9.793	5.80	4840	6	6.9	20	33
18676	>0.5	3.653	>1.027	7.507	6.60	1800	8	9.0	20	38
18677	0.105	N.A.	0.215	N.A.	6.31	1120	<5	4.3	10	19
18678	>0.5	1.457	>1.027	2.995	5.63	651	5	7.2	10	28
18679	0.258	N.A.	0.530	N.A.	5.92	3590	6	10.3	<10	40
18680	>0.5	1.094	>1.027	2.247	7.44	1400	6	4.3	20	29
18681	0.321	N.A.	0.660	N.A.	6.28	5370	5	9.0	30	35
18682	>0.5	1.170	>1.027	2.405	7.17	1860	7	4.9	10	26
18683	>0.5	7.894	>1.027	16.221	4.15	>10000	6	13.9	20	34
18684	>0.5	6.561	>1.027	13.481	5.61	5490	7	11.5	20	41
18685	>0.5	0.814	>1.027	1.672	7.04	745	5	3.6	20	46
18686	>0.5	1.200	>1.027	2.466	7.81	1230	6	5.5	10	36
18687	>0.5	1.761	>1.027	3.619	9.12	907	6	4.3	<10	21
18688	>0.5	12.784	>1.027	26.268	4.88	6440	7	17.1	10	26
18689	>0.5	2.863	>1.027	5.883	8.18	256	5	4.3	20	19
18690	>0.5	3.229	>1.027	6.636	8.21	269	5	4.3	20	20
18691	>0.5	6.963	>1.027	14.307	9.04	594	6	9.3	<10	19

Element	Fe	K	Li	Mg	Mn	Ni	P	Sc	Sr	Ti
Method	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	0.01	0.1	10	0.01	10	5	0.01	5	0.1	0.01
Units	%	%	ppm	%	ppm	ppm	%	ppm	ppm	%
18624	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18625	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18626	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18627	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18628	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18629	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18630	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18631	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18632	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18633	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18634	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18635	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18636	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18637	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18638	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18639	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18640	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18641	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18642	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18643	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18644	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18647	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18650	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18651	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18652	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18653	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18654	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18657	0.56	2.0	10	0.04	740	<5	0.13	<5	>10000	0.03
18658	0.62	3.9	70	0.04	210	<5	0.11	<5	>10000	0.16
18659	1.53	4.3	40	0.14	1420	6	0.03	<5	>10000	0.07
18660	2.26	3.4	70	0.09	560	8	0.09	<5	>10000	0.08
18661	2.21	3.0	20	0.13	490	9	0.03	<5	4950	0.09
18662	2.07	3.0	40	0.23	680	7	0.02	<5	7420	0.07
18663	2.44	3.5	30	0.15	480	9	0.01	8	4910	0.10
18664	1.13	2.1	30	0.02	1080	6	0.04	<5	>10000	0.05
18665	0.58	0.5	20	<0.01	1700	<5	0.06	<5	>10000	0.01
18666	0.53	1.0	40	<0.01	1680	<5	0.08	<5	>10000	0.03
18667	0.59	0.7	50	<0.01	1740	7	0.07	<5	<0.1	0.04
18668	0.87	1.1	30	<0.01	1760	7	0.06	<5	>10000	0.05
18669	0.74	1.1	90	<0.01	440	7	0.02	<5	>10000	0.10
18670	1.69	2.6	20	0.08	750	15	0.02	<5	>10000	0.07
18671	2.09	3.0	70	0.04	810	11	0.05	<5	>10000	0.07
18672	2.40	2.1	60	0.07	740	10	0.09	<5	>10000	0.07

Element	Fe	K	Li	Mg	Mn	Ni	P	Sc	Sr	Ti
Method	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	0.01	0.1	10	0.01	10	5	0.01	5	0.1	0.01
Units	%	%	ppm	%	ppm	ppm	%	ppm	ppm	%
18673	2.94	2.4	70	0.14	1290	10	0.02	5	>10000	0.10
18674	2.34	1.7	80	0.01	540	11	0.01	5	>10000	0.09
18675	2.07	1.8	70	<0.01	490	10	0.03	5	>10000	0.09
18676	2.69	2.9	70	0.03	1050	10	0.04	<5	>10000	0.12
18677	2.26	2.3	80	0.09	1000	10	0.02	6	7060	0.07
18678	1.53	1.4	90	<0.01	1090	11	0.02	<5	5060	0.05
18679	2.58	1.7	60	0.04	1650	8	0.01	5	>10000	0.09
18680	4.32	2.4	80	0.14	1130	11	0.02	11	>10000	0.09
18681	2.71	2.5	50	0.04	770	14	0.08	<5	>10000	0.06
18682	4.31	2.2	70	0.15	1230	10	0.02	9	>10000	0.10
18683	1.53	1.6	40	<0.01	1020	12	0.09	<5	>10000	0.04
18684	2.23	1.9	60	<0.01	1070	12	0.11	<5	>10000	0.03
18685	3.06	2.6	30	0.03	710	12	0.02	6	3430	0.09
18686	1.51	3.0	50	<0.01	730	11	0.04	<5	>10000	0.08
18687	0.80	0.7	30	<0.01	360	8	0.05	<5	>10000	0.05
18688	0.92	0.7	50	<0.01	340	8	0.33	<5	>10000	0.01
18689	1.52	1.0	20	0.01	360	7	0.09	<5	1780	0.18
18690	1.50	0.9	20	0.01	360	9	0.09	<5	1820	0.20
18691	0.36	1.3	40	<0.01	300	5	0.04	<5	6270	0.06

SGS

Element	V	Zn	Ag	As	Bi	Cd	Ce	Co	Cs	Dy
Method	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	5	5	1	5	0.1	0.2	0.1	0.5	0.1	0.05
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
18624	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18625	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18626	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18627	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18628	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18629	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18630	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18631	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18632	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18633	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18634	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18635	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18636	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18637	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18638	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18639	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18640	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18641	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18642	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18643	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18644	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18647	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18650	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18651	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18652	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18653	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18654	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18657	25	9	4	<5	<0.1	0.3	43.9	<0.5	0.6	1.94
18658	47	12	4	<5	0.6	<0.2	137	0.9	1.1	4.25
18659	85	50	1	<5	<0.1	0.3	70.6	1.4	2.1	2.21
18660	181	52	10	<5	<0.1	<0.2	130	1.9	1.4	2.54
18661	143	64	3	<5	0.3	0.4	38.3	2.0	1.0	1.60
18662	120	56	25	<5	40.2	0.4	50.0	2.1	0.9	1.55
18663	162	39	7	<5	0.1	<0.2	26.7	2.0	0.8	1.50
18664	73	16	<1	<5	<0.1	<0.2	108	7.0	0.3	8.93
18665	22	<5	<1	<5	<0.1	<0.2	97.5	<0.5	0.2	3.08
18666	18	<5	<1	<5	<0.1	<0.2	73.2	<0.5	0.7	3.30
18667	10	<5	<1	<5	0.1	0.3	76.2	0.7	1.3	3.10
18668	20	<5	<1	<5	0.3	0.3	95.0	1.0	1.1	3.25
18669	23	6	<1	<5	0.1	<0.2	34.0	0.8	1.3	1.16
18670	31	23	<1	<5	0.4	<0.2	93.7	2.2	1.6	2.28
18671	108	53	<1	<5	0.1	<0.2	56.7	1.6	0.9	1.47
18672	113	45	<1	<5	<0.1	<0.2	79.7	3.6	0.6	2.03

Element	V	Zn	Ag	As	Bi	Cd	Ce	Co	Cs	Dy
Method	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	5	5	1	5	0.1	0.2	0.1	0.5	0.1	0.05
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
18673	178	62	<1	<5	0.5	<0.2	73.1	2.8	0.9	2.25
18674	168	65	<1	<5	<0.1	0.3	58.1	1.8	0.8	1.82
18675	152	54	2	<5	0.1	0.4	60.1	2.2	0.8	2.03
18676	213	46	<1	<5	0.6	<0.2	63.9	1.9	0.9	1.97
18677	163	64	<1	<5	0.6	<0.2	34.5	2.0	0.9	1.27
18678	106	54	1	<5	0.2	<0.2	36.5	1.9	0.7	1.59
18679	179	54	<1	<5	<0.1	<0.2	47.0	1.9	0.7	2.15
18680	316	85	2	<5	2.2	<0.2	34.2	3.0	2.1	1.48
18681	137	46	2	<5	0.4	<0.2	77.6	2.3	0.8	2.18
18682	316	120	<1	<5	0.1	<0.2	86.5	2.7	2.0	1.64
18683	80	28	1	<5	1.1	<0.2	83.4	1.4	0.5	2.12
18684	94	17	2	<5	3.4	0.2	101	3.1	0.6	2.83
18685	184	48	<1	<5	0.3	<0.2	53.0	2.5	1.6	1.39
18686	73	11	<1	<5	0.7	0.3	21.4	1.5	1.5	1.08
18687	14	<5	<1	<5	0.2	<0.2	32.6	0.5	0.7	1.14
18688	16	<5	<1	<5	2.0	<0.2	180	0.9	0.6	3.59
18689	92	20	<1	<5	0.2	<0.2	28.8	1.1	0.8	1.52
18690	97	21	<1	<5	0.3	<0.2	15.6	1.0	1.1	1.06
18691	10	<5	<1	<5	0.3	<0.2	13.0	<0.5	1.3	1.20

Element Method Det.Lim. Units	Er ICM90A 0.05 ppm	Eu ICM90A 0.05 ppm	Ga ICM90A 1 ppm	Gd ICM90A 0.05 ppm	Ge ICM90A 1 ppm	Hf ICM90A 1 ppm	Ho ICM90A 0.05 ppm	In ICM90A 0.2 ppm	La ICM90A 0.1 ppm	Lu ICM90A 0.05 ppm
18624	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18625	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18626	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18627	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18628	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18629	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18630	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18631	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18632	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18633	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18634	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18635	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18636	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18637	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18638	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18639	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18640	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18641	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18642	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18643	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18644	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18647	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18650	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18651	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18652	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18653	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18654	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18657	0.98	1.01	29	2.70	1	5	0.36	<0.2	24.7	0.42
18658	1.61	2.89	26	7.44	2	6	0.73	<0.2	69.9	0.21
18659	1.26	1.17	19	3.11	2	6	0.44	<0.2	44.6	0.26
18660	1.25	1.73	14	4.03	2	4	0.49	<0.2	104	0.23
18661	0.81	0.79	21	2.17	1	3	0.31	<0.2	22.1	0.15
18662	0.82	0.74	22	2.09	2	7	0.31	<0.2	31.1	0.17
18663	0.75	0.66	16	1.92	2	2	0.28	<0.2	15.8	0.14
18664	4.30	3.47	26	10.8	1	17	1.66	<0.2	44.8	0.57
18665	1.58	2.23	6	4.77	<1	1	0.61	<0.2	79.8	0.26
18666	1.71	1.94	13	4.82	<1	3	0.66	<0.2	48.8	0.34
18667	1.60	1.81	16	4.21	1	2	0.61	<0.2	55.2	0.88
18668	1.71	1.92	13	4.66	1	2	0.64	<0.2	68.5	0.30
18669	0.55	0.62	18	1.59	2	1	0.21	<0.2	22.2	0.09
18670	1.25	1.16	11	3.36	2	2	0.47	<0.2	59.7	0.20
18671	0.77	0.97	18	2.31	3	9	0.30	<0.2	40.6	0.17
18672	0.92	1.39	19	3.02	3	5	0.37	<0.2	62.6	0.13

Element	Er	Eu	Ga	Gd	Ge	Hf	Ho	In	La	Lu
Method	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	0.05	0.05	1	0.05	1	1	0.05	0.2	0.1	0.05
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
18673	1.19	1.20	18	3.24	4	4	0.42	<0.2	45.3	0.22
18674	0.90	1.11	19	2.71	4	3	0.35	<0.2	46.7	0.19
18675	0.94	1.48	18	3.07	3	6	0.38	<0.2	63.6	0.24
18676	1.03	1.12	21	2.91	2	3	0.39	<0.2	46.8	0.18
18677	0.68	0.66	20	1.75	3	2	0.25	<0.2	22.0	0.12
18678	0.86	0.75	19	2.00	4	4	0.33	<0.2	23.5	0.19
18679	1.15	1.19	18	2.86	2	5	0.44	<0.2	31.3	0.22
18680	0.79	0.72	26	1.97	2	6	0.30	<0.2	23.4	0.19
18681	1.11	1.47	20	3.29	2	5	0.42	<0.2	61.3	0.18
18682	0.80	1.18	27	2.77	3	11	0.32	<0.2	57.9	0.15
18683	1.08	1.90	13	3.02	1	3	0.42	<0.2	94.3	0.18
18684	1.32	2.09	21	4.41	2	3	0.54	<0.2	92.8	0.22
18685	0.78	0.62	21	1.81	2	8	0.29	<0.2	35.9	0.17
18686	0.52	0.63	28	1.59	2	4	0.20	<0.2	13.1	0.14
18687	0.55	0.73	38	1.72	2	8	0.22	<0.2	25.1	0.18
18688	1.47	3.01	20	6.55	2	3	0.64	<0.2	137	0.17
18689	0.66	0.89	37	2.42	2	6	0.27	<0.2	12.3	0.13
18690	0.52	0.46	34	1.39	2	6	0.20	<0.2	8.7	0.17
18691	0.62	0.58	38	1.61	2	5	0.25	<0.2	7.9	0.10

Element	Mo	Nb	Nd	Pb	Pr	Rb	Sb	Sm	Sn	Ta
Method	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	2	1	0.1	5	0.05	0.2	0.1	0.1	1	0.5
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
18624	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18625	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18626	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18627	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18628	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18629	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18630	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18631	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18632	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18633	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18634	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18635	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18636	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18637	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18638	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18639	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18640	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18641	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18642	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18643	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18644	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18647	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18650	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18651	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18652	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18653	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18654	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18657	3	12	18.5	17	5.22	50.1	0.2	3.2	<1	<0.5
18658	8	46	59.1	65	16.6	105	0.5	9.6	2	2.0
18659	6	41	24.4	36	7.55	132	0.4	3.9	2	1.4
18660	15	24	37.4	33	12.4	94.4	0.6	5.4	3	1.0
18661	37	19	16.3	46	4.62	89.8	0.3	2.9	2	1.2
18662	170	26	16.8	1560	5.35	85.2	0.3	2.6	1	1.5
18663	31	18	11.8	23	3.17	101	0.6	2.4	2	1.3
18664	2	15	57.0	20	13.7	64.9	<0.1	11.8	1	1.1
18665	56	10	33.3	40	9.95	12.9	0.3	5.4	<1	<0.5
18666	42	13	31.1	31	8.44	29.2	0.4	5.6	1	<0.5
18667	30	21	28.3	31	8.24	23.7	0.5	4.9	2	0.6
18668	35	19	33.9	40	10.1	37.6	0.5	5.5	3	0.6
18669	2	21	11.8	10	3.59	34.4	0.3	2.0	2	1.0
18670	13	14	29.2	33	9.57	101	0.7	4.2	5	0.7
18671	62	30	19.4	26	6.04	91.0	1.1	3.1	3	1.3
18672	25	30	25.7	88	8.17	65.5	2.4	3.9	3	1.3

SGS

Element	Mo	Nb	Nd	Pb	Pr	Rb	Sb	Sm	Sn	Ta
Method	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	2	1	0.1	5	0.05	0.2	0.1	0.1	1	0.5
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
18673	26	33	27.5	34	8.41	77.4	1.0	4.3	3	1.3
18674	54	34	19.8	65	6.00	50.0	2.1	3.4	4	1.2
18675	34	46	19.2	49	5.90	55.5	2.4	3.5	4	1.9
18676	192	38	22.2	35	6.72	82.8	1.2	3.7	4	1.5
18677	593	23	13.2	32	3.93	71.3	1.1	2.2	3	1.0
18678	971	17	13.1	32	4.12	42.0	1.4	2.3	3	0.8
18679	12	36	18.4	24	5.32	53.3	0.6	3.3	3	1.5
18680	150	39	13.1	49	3.86	81.7	0.9	2.4	5	1.5
18681	48	26	26.3	38	7.95	79.5	1.1	4.0	3	0.9
18682	31	41	27.8	20	8.93	72.1	0.7	4.1	4	1.7
18683	99	24	24.0	73	7.54	41.9	1.1	3.6	3	0.7
18684	11	15	32.7	199	10.1	59.0	0.9	5.2	3	<0.5
18685	104	33	15.5	41	5.22	86.4	0.7	2.2	4	1.4
18686	6	25	10.0	44	2.64	90.7	0.7	1.9	3	1.0
18687	<2	23	12.1	23	3.58	18.8	0.5	2.1	2	1.0
18688	3	15	60.8	87	18.7	24.6	0.7	8.6	4	<0.5
18689	<2	85	15.8	16	4.10	31.6	0.4	3.0	3	3.0
18690	2	35	7.1	20	1.92	45.4	0.4	1.5	2	1.4
18691	2	27	7.4	20	1.79	36.2	0.3	1.7	1	1.0

SGS

Element	Tb	Th	Tl	Tm	U	W	Y	Yb	Zr
Method	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	0.05	0.1	0.5	0.05	0.05	1	0.5	0.1	0.5
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
18624	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18625	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18626	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18627	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18628	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18629	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18630	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18631	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18632	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18633	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18634	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18635	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18636	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18637	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18638	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18639	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18640	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18641	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18642	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18643	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18644	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18647	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18650	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18651	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18652	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18653	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18654	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
18657	0.36	5.1	<0.5	0.14	3.91	1	12.5	1.0	224
18658	0.87	8.9	<0.5	0.23	4.68	11	22.3	1.3	252
18659	0.41	20.8	<0.5	0.21	12.1	6	13.6	1.4	291
18660	0.50	31.6	<0.5	0.19	5.62	12	16.9	1.1	182
18661	0.29	14.4	<0.5	0.13	2.84	8	8.8	0.9	95.5
18662	0.27	18.4	<0.5	0.13	8.13	3	9.6	0.9	391
18663	0.28	7.8	<0.5	0.12	2.04	8	7.3	0.8	80.0
18664	1.56	3.4	<0.5	0.61	0.97	<1	37.6	3.7	671
18665	0.55	3.0	<0.5	0.24	3.65	2	22.9	1.5	68.3
18666	0.60	2.5	<0.5	0.27	3.13	1	24.3	1.8	135
18667	0.55	5.2	<0.5	0.25	4.02	1	20.8	1.6	82.4
18668	0.60	7.7	<0.5	0.27	2.99	3	22.1	1.8	64.2
18669	0.22	5.9	<0.5	0.08	1.77	1	7.4	0.6	51.1
18670	0.42	26.4	<0.5	0.20	5.54	8	14.6	1.3	94.7
18671	0.30	22.9	<0.5	0.12	9.10	10	9.9	0.9	488
18672	0.37	20.7	<0.5	0.13	7.43	6	13.5	0.8	188

Element	Tb	Th	Tl	Tm	U	W	Y	Yb	Zr
Method	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	0.05	0.1	0.5	0.05	0.05	1	0.5	0.1	0.5
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
18673	0.41	35.5	<0.5	0.20	5.81	14	12.0	1.3	181
18674	0.33	16.2	<0.5	0.13	4.06	19	13.7	0.9	109
18675	0.39	26.0	<0.5	0.14	8.51	19	14.0	1.0	404
18676	0.35	10.5	<0.5	0.17	3.54	12	12.1	1.1	110
18677	0.24	10.9	<0.5	0.12	4.95	6	6.9	0.7	81.3
18678	0.27	13.3	<0.5	0.16	15.5	4	9.3	1.1	157
18679	0.36	10.9	<0.5	0.18	4.32	11	14.4	1.3	210
18680	0.26	13.6	<0.5	0.13	8.37	13	8.3	0.9	259
18681	0.41	14.1	<0.5	0.17	6.09	6	16.1	1.1	203
18682	0.32	48.4	<0.5	0.14	14.3	14	8.4	1.0	599
18683	0.38	7.4	<0.5	0.16	3.43	3	17.7	1.1	120
18684	0.54	3.4	<0.5	0.22	5.99	2	19.1	1.4	131
18685	0.25	19.4	<0.5	0.14	7.53	15	8.4	0.9	384
18686	0.21	6.7	<0.5	0.09	5.79	3	6.9	0.6	159
18687	0.20	6.8	<0.5	0.10	12.7	<1	7.6	0.6	441
18688	0.70	4.9	<0.5	0.20	5.07	2	31.0	1.1	145
18689	0.30	9.8	<0.5	0.11	5.09	5	9.0	0.6	296
18690	0.19	7.4	<0.5	0.09	6.05	2	8.1	0.6	289
18691	0.21	1.7	<0.5	0.10	4.92	<1	12.5	0.6	235

SGS

Certificate of Analysis

Work Order: VC120245

To: Freeport Resources
COD SGS ASSAYERS
8711 Elsmore Road
Richmond
BC V7C 24A

Date: Mar 14, 2012

P.O. No.	:	BRENDA CLARK-BOX 11
Project No.	:	-
No. Of Samples	:	19
Date Submitted	:	Feb 15, 2012
Report Comprises	:	Pages 1 to 7 (Inclusive of Cover Sheet)

Distribution of unused material:
Active files - upstairs:

Comments:

CaF2 is calculated from F values.

Certified By : ______________________
Satpaul Gill
QAQC Chemist

SGS Minerals Services Geochemistry, Vancouver, BC is ISO 9001:2008 certified.

Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	--	= No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Methods marked with the @ symbol (e.g. @AAS21E) denote accredited tests

SGS

Element	F	F(R)	CaF2	CaF2(R)	Al	Ba	Be	Ca	Cr	Cu
Method	ISE07A	ISE07A	ISE07A	ISE07A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	0.002	0.005	0.004	0.01	0.01	0.5	5	0.1	10	5
Units	%	%	%	%	%	ppm	ppm	%	ppm	ppm
18762	>0.5	5.111	>1.027	10.502	4.03	2870	<5	19.3	<10	6
18763	>0.5	0.628	>1.027	1.290	7.74	588	<5	3.4	<10	8
18764	>0.5	5.697	>1.027	11.706	0.60	3490	<5	33.0	<10	<5
18765	>0.5	2.806	>1.027	5.766	7.07	3390	<5	11.3	<10	13
18766	>0.5	4.991	>1.027	10.255	6.35	2250	<5	13.2	<10	<5
18767	>0.5	7.020	>1.027	14.424	0.36	3550	<5	32.6	<10	<5
18768	>0.5	3.590	>1.027	7.377	5.24	1490	<5	12.0	10	<5
18769	>0.5	1.897	>1.027	3.898	7.97	423	<5	7.3	<10	<5
18770	>0.5	5.121	>1.027	10.524	0.37	4340	<5	31.1	<10	<5
18771	0.229	0.229	0.471	0.471	9.34	264	<5	3.3	10	5
18772	>0.5	1.748	>1.027	3.591	10.8	670	<5	6.0	10	6
18773	>0.5	7.636	>1.027	15.689	1.24	3700	<5	24.7	10	<5
18774	>0.5	1.238	>1.027	2.543	8.26	290	<5	3.7	<10	14
18775	>0.5	3.943	>1.027	8.102	5.01	277	<5	21.0	10	5
18776	0.290	N.A.	0.595	N.A.	5.36	703	<5	2.0	30	19
18779	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
18780	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
18781	>0.5	8.833	>1.027	18.151	5.91	1190	<5	18.0	10	6
18782	0.199	N.A.	0.409	N.A.	5.51	523	<5	1.5	20	12

SGS

Element	Fe	K	Li	Mg	Mn	Ni	P	Sc	Sr	Ti
Method	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	0.01	0.1	10	0.01	10	5	0.01	5	0.1	0.01
Units	%	%	ppm	%	ppm	ppm	%	ppm	ppm	%
18762	0.66	1.5	30	0.07	1850	<5	0.17	<5	>10000	0.03
18763	1.38	3.2	60	0.07	720	6	0.02	<5	2760	0.06
18764	0.44	0.2	<10	0.07	3990	<5	0.06	<5	>10000	<0.01
18765	1.72	2.9	60	0.10	870	6	0.03	6	249	0.03
18766	0.38	0.9	70	0.04	590	5	0.10	<5	>10000	0.01
18767	0.40	0.1	<10	0.08	1670	<5	0.21	<5	>10000	<0.01
18768	1.08	1.6	70	0.06	1110	6	0.08	5	>10000	0.06
18769	1.28	1.6	60	0.06	880	6	0.03	<5	3590	0.06
18770	0.43	0.1	20	0.05	2220	<5	0.23	<5	>10000	<0.01
18771	0.60	1.2	20	0.03	410	6	0.01	<5	1970	0.07
18772	0.73	3.1	50	0.04	570	6	0.02	<5	4010	0.09
18773	0.78	0.8	40	0.04	2080	6	0.10	<5	>10000	0.02
18774	1.24	2.4	40	0.06	670	8	<0.01	<5	880	0.08
18775	0.72	1.1	10	0.06	2200	<5	0.01	<5	4010	0.03
18776	1.48	3.6	70	0.11	700	14	0.02	<5	887	0.10
18779	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
18780	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
18781	0.66	1.2	20	0.06	1150	6	0.21	<5	>10000	0.06
18782	1.06	3.5	70	0.09	4330	11	0.02	<5	892	0.07

SGS

Element	V	Zn	Ag	As	Bi	Cd	Ce	Co	Cs	Dy
Method	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	5	5	1	5	0.1	0.2	0.1	0.5	0.1	0.05
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
18762	50	27	<1	<5	0.2	<0.2	88.1	0.8	0.4	3.02
18763	87	38	<1	<5	0.2	<0.2	34.0	2.5	0.7	1.16
18764	9	10	<1	<5	<0.1	0.2	162	<0.5	0.1	5.81
18765	109	33	<1	<5	0.7	<0.2	47.7	1.9	0.7	1.35
18766	34	23	<1	<5	<0.1	<0.2	53.4	<0.5	0.6	1.37
18767	10	13	<1	<5	<0.1	<0.2	105	<0.5	<0.1	3.01
18768	111	18	<1	<5	0.1	<0.2	44.0	0.8	0.5	1.88
18769	72	13	<1	<5	0.1	<0.2	26.3	1.0	0.7	1.23
18770	9	9	<1	<5	0.1	0.3	182	<0.5	0.1	4.23
18771	22	<5	3	<5	7.0	<0.2	10.1	<0.5	0.4	0.68
18772	45	<5	1	<5	2.3	<0.2	16.8	0.5	0.6	0.94
18773	33	12	<1	<5	0.3	<0.2	136	0.8	0.2	3.79
18774	49	22	<1	<5	1.8	<0.2	122	1.1	0.9	1.94
18775	19	9	<1	<5	0.2	0.5	47.6	0.7	0.3	3.84
18776	65	41	<1	<5	0.6	<0.2	52.7	3.1	1.0	1.88
18779	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
18780	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
18781	25	9	3	<5	0.9	<0.2	63.3	0.7	0.4	2.32
18782	40	56	5	<5	0.4	<0.2	167	1.6	1.1	1.70

Element	Er	Eu	Ga	Gd	Ge	Hf	Ho	In	La	Lu
Method	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	0.05	0.05	1	0.05	1	1	0.05	0.2	0.1	0.05
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
18762	1.65	1.76	12	4.22	1	3	0.60	<0.2	58.7	0.43
18763	0.64	0.51	23	1.53	2	3	0.22	<0.2	21.3	0.14
18764	3.26	3.16	3	7.52	<1	<1	1.13	<0.2	99.4	0.73
18765	0.75	0.93	23	1.85	2	4	0.25	<0.2	39.2	0.15
18766	0.64	0.90	19	2.03	3	3	0.24	<0.2	47.3	0.13
18767	1.50	2.14	2	4.76	<1	<1	0.57	<0.2	77.1	0.22
18768	0.95	1.04	18	2.55	3	3	0.35	<0.2	26.9	0.19
18769	0.72	0.57	28	1.49	2	6	0.25	<0.2	16.4	0.17
18770	2.20	2.81	2	6.59	1	<1	0.82	<0.2	136	0.40
18771	0.38	0.36	38	0.82	1	6	0.13	<0.2	6.2	0.14
18772	0.47	0.49	32	1.18	2	4	0.17	<0.2	9.9	0.10
18773	2.01	2.34	5	5.24	2	1	0.72	<0.2	102	0.45
18774	1.08	0.96	39	2.40	3	36	0.38	<0.2	84.5	0.26
18775	2.13	1.55	19	4.57	<1	7	0.72	<0.2	22.4	0.42
18776	1.16	0.75	13	2.34	5	4	0.38	<0.2	30.0	0.24
18779	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
18780	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
18781	1.19	1.37	21	3.33	2	11	0.43	<0.2	39.4	0.24
18782	0.82	0.96	16	2.86	5	6	0.30	<0.2	132	0.21

Element	Mo	Nb	Nd	Pb	Pr	Rb	Sb	Sm	Sn	Ta
Method	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	2	1	0.1	5	0.05	0.2	0.1	0.1	1	0.5
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
18762	200	13	32.7	41	9.70	47.7	0.9	5.1	2	<0.5
18763	183	20	11.7	22	3.70	103	1.2	1.9	2	0.8
18764	138	1	59.3	62	18.1	4.9	0.8	9.6	1	<0.5
18765	395	12	15.3	35	4.82	88.5	1.1	2.3	2	0.6
18766	15	5	17.3	27	5.26	26.6	1.8	2.5	2	<0.5
18767	52	1	37.4	31	11.1	2.9	0.8	5.7	2	<0.5
18768	5	18	18.2	23	5.04	44.1	0.8	3.2	2	0.8
18769	2	27	10.4	11	3.03	47.0	0.6	1.7	2	1.2
18770	3	3	58.5	48	18.5	3.1	0.6	8.3	1	<0.5
18771	3	25	5.0	151	1.32	30.6	0.4	1.0	1	1.3
18772	<2	23	7.7	58	2.12	70.7	0.4	1.5	1	1.1
18773	49	9	44.9	37	14.0	19.8	0.8	6.7	2	<0.5
18774	6	168	27.3	60	10.7	76.9	0.7	3.4	2	7.7
18775	3	20	23.9	44	6.27	33.2	0.4	4.9	1	<0.5
18776	42	37	17.0	34	5.46	128	1.4	3.0	2	1.7
18779	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
18780	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
18781	68	30	25.1	24	7.12	34.0	0.3	4.1	1	1.1
18782	8	39	41.8	66	15.8	179	2.0	4.3	2	1.4

SGS

Element	Tb	Th	Tl	Tm	U	W	Y	Yb	Zr
Method	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A	ICM90A
Det.Lim.	0.05	0.1	0.5	0.05	0.05	1	0.5	0.1	0.5
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
18762	0.56	12.3	<0.5	0.27	4.01	2	19.8	1.9	124
18763	0.21	17.6	<0.5	0.11	3.82	4	6.3	0.8	134
18764	1.03	1.7	<0.5	0.51	3.39	<1	35.9	3.6	7.0
18765	0.23	11.2	<0.5	0.12	7.36	4	9.3	0.8	163
18766	0.24	2.6	<0.5	0.10	2.18	<1	12.4	0.7	120
18767	0.58	3.0	<0.5	0.22	3.47	<1	22.8	1.4	17.9
18768	0.35	2.8	<0.5	0.15	2.51	4	12.1	1.0	104
18769	0.21	9.9	<0.5	0.12	4.77	3	8.4	0.9	254
18770	0.80	3.1	<0.5	0.35	5.57	<1	30.6	2.3	9.8
18771	0.12	4.6	<0.5	0.06	3.31	2	4.8	0.5	249
18772	0.17	6.0	<0.5	0.07	2.89	3	6.6	0.5	154
18773	0.68	5.5	<0.5	0.33	5.69	3	26.3	2.3	61.7
18774	0.33	79.6	<0.5	0.19	95.3	4	11.6	1.4	2260
18775	0.68	15.0	<0.5	0.32	3.78	1	26.7	2.2	252
18776	0.33	22.6	<0.5	0.19	12.7	7	10.3	1.4	173
18779	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
18780	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
18781	0.41	10.9	<0.5	0.18	8.55	2	19.2	1.3	470
18782	0.31	24.1	0.5	0.13	10.7	3	8.9	0.9	342