

PA/DS

003019

082FSW 078, 196 Ymir Creek Property
~~082K11W~~ 82K11W

THIS PROSPECTUS CONSTITUTES A PUBLIC OFFERING OF THESE SECURITIES ONLY IN THOSE JURISDICTIONS WHERE THEY MAY BE LAWFULLY OFFERED FOR SALE AND THEREIN ONLY BY PERSONS PERMITTED TO SELL SUCH SECURITIES SOURCES.

(Pendant claims)

NO SECURITIES COMMISSION OR SIMILAR AUTHORITY IN CANADA HAS IN ANY WAY PASSED UPON THE MERITS OF THE SECURITIES OFFERED, HEREUNDER AND ANY REPRESENTATION TO THE CONTRARY IS AN OFFENCE.

PROSPECTUS

NELSON, B.C.

EFFECTIVE DATE: OCTOBER 4, 1991

QUALIS RESOURCES INC.
Suite 203 - 900 West Georgia Street
Vancouver, British Columbia, V6C 2W6
(the "Issuer")

NOV 6 1991

Geological Survey Branch
MEMPR
Net Proceeds to be
Received by the Issuer*

PUBLIC OFFERING

700,000 COMMON SHARES

| Shares | Price to Public | Commission** | Net Proceeds to be Received by the Issuer* |
|-----------|-----------------|--------------|--|
| Per Share | \$ 0.37 | \$ 0.07 | \$ 0.30 |
| Total | \$ 259,000 | \$ 49,000 | \$ 210,000 |

Before deduction of the remaining costs of this issue estimated to be \$4,000
Additionally the Agents will receive Warrants as described under the heading "Appointment of Agents"

The price of these securities was established through negotiation with the Agent.

There is no market through which these securities may be sold. A purchase of the securities offered by this prospectus must be considered as speculation. All of the properties in which the Issuer has an interest are in the exploration and development stage only and are without a known body of commercial ore. No survey of any property of the Issuer has been made and therefore in accordance with the laws of the jurisdiction in which the properties are situate, their existence and area could be in doubt. See also the heading "Risk Factors".

The Vancouver Stock Exchange has conditionally listed the securities being offered pursuant to this Prospectus. Listing is subject to the Issuer fulfilling all of the listing requirements of the Vancouver Stock Exchange on or before November 23, 1991, including prescribed distribution and financial requirements.

No person is authorized by the Issuer to provide any information or to make any representation other than those contained in this Prospectus in connection with the issue and sale of the securities offered by the Issuer.

Upon completion of this offering this issue will represent 34.2% of the shares then outstanding as compared to 36.69% that will then be owned by the Promoters, Directors and Senior Officers of the Issuer. Refer to the heading "Principal Holders of Securities" herein for details of shares held by Directors, Promoters and controlling persons and associates of the Agent.

The net asset value per share after completion of the offering will be \$0.1228 representing a dilution of 67% on a fully diluted basis or \$0.2288 representing a dilution of 48% excluding the escrowed shares.

One or more of the directors of the Issuer has an interest, direct or indirect, in other natural resource companies. Refer to the Heading "Risk Factors" for a comment as to the resolution of possible conflicts of interest.

This Prospectus also qualifies the issuance of the Agent's warrants and any shares purchased on exercise of the Agent's warrants. The Agent may sell any shares acquired on the exercise of the Agent's warrants at the market price at the time of sale pursuant to the provisions of the Securities Act and Regulations without further qualification. Refer to the heading "Plan of Distribution".

We, as agents, conditionally offer these securities subject to prior sale, if, as and when issued by the Issuer and accepted by us in accordance with the conditions contained in the agency agreement referred to under the heading "Plan of Distribution" of this prospectus.

GEORGIA PACIFIC SECURITIES CORPORATION
16th Floor - 555 Burrard Street
Vancouver, British Columbia

DATED: September 12, 1991

13382005

Note: This property is not in 082K11W as stated.

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Accompanying this Prospectus is the following material:

1. Unaudited Financial Statements as at May 31, 1991 together with review engagement report.
2. Audited Financial Statements of the Issuer as at August 31, 1990, August 31, 1989, August 31, 1988, and August 31, 1987.
3. Engineering Report dated July 27, 1987 prepared by M. Magrum, P.Eng. and C. von Einsiedel, B. Sc. of Ram Explorations Ltd. regarding the Ymir Creek Property.

PROSPECTUS SUMMARY

THE FOLLOWING INFORMATION IS A SUMMARY ONLY. REFERENCE SHOULD BE MADE TO THE DETAILED INFORMATION APPEARING ELSEWHERE IN THIS PROSPECTUS.

The Issuer

Qualis Resources Inc. (the "Issuer") was incorporated on March 6, 1987 to acquire, explore and develop natural resource properties.

The Offering

Securities - 700,000 common shares without par value Price to public - \$0.37 per share.

Agent's Commission - \$0.07 per share.

Net Proceeds to Treasury - \$0.30 per share/\$210,000.

Use of Proceeds - To be used to fund the current working capital deficiency at July 15, 1991 of \$69,000, to carry out Phase I of the recommended program of exploration of the Ymir Creek Property at an estimated cost of \$82,500, to pay an option payment of \$4,500 on the Ymir Creek Property, to pay the remaining costs of this issue estimated at \$4,000, and to provide a working capital reserve of \$50,000; see the heading "Use of Proceeds".

Risk Factors - There are risk factors associated with the purchase of shares of the Issuer including the nature of exploration for minerals as a speculative venture, the lack of any known body of ore on the Issuer's mineral properties, and the fact that there is no established market for the shares of the Issuer; see the heading "Risk Factors".

Properties

The Issuer holds an option to purchase three reverted crown grants, three modified grid system mineral claims and three Crown Grants located in the Nelson Mining Division, Province of British Columbia.

PLAN OF DISTRIBUTION

Offering

The Issuer by its Agent hereby offers (the "Offering") to the public through the facilities of the Vancouver Stock Exchange (the "Exchange") 700,000 common shares (the "Shares") of the Issuer at a price of \$0.37 per share. The Offering will be made in accordance with the rules and policies of the Exchange and on a day (the "Offering Day") determined by the Agent and the Issuer, with the consent of the Exchange, and in any event, the Offering Day shall be before November 23, 1991.

Appointment of Agents

The Issuer by an agreement (the "Agency Agreement") dated September 1, 1990, as amended, appointed Georgia Pacific Securities Corporation as its agent (the "Agent") to offer the Shares through the facilities of the Exchange.

The Agent has agreed to purchase any Shares not sold at the conclusion of the Offering (the "Guarantee"). In consideration therefor, the Agent has been granted non-transferable share purchase warrants (the "Agent's Warrants") entitling them to purchase up to 175,000 common shares of the Issuer at any time up to the close of business two years from the day the shares of the Issuer are posted and listed for trading on the Vancouver Stock Exchange (the "Exchange") at a price of \$0.37 per share during the first year of the term of the Agent's Warrants and \$0.43 per share during the second year of the term.

The Agent may sell any shares acquired on the exercise of the Agent's Warrants at the market price at the time of sale pursuant to the provisions of the Securities Act and Regulations without further qualification. The Issuer will not receive any proceeds from the sale of any such shares by the Agent, all of which proceeds will in such event accrue to the Agent.

The Agent's Warrants will contain, among other things, anti-dilution provisions and provision for appropriate adjustment of the class, number and price of shares issuable pursuant to any exercise thereof upon the occurrence of certain events including any subdivision, consolidation or reclassification of the shares or the payment of stock dividends.

The Agent will receive a commission of \$0.07 per Share.

The Agent reserves the right to offer selling group participation in the normal course of the brokerage business to selling groups of other licensed broker-dealers, brokers and investment dealers, who may or may not be offered part of the commissions or bonuses derived from this Offering.

The obligations of the Agent under the Agency Agreement may be terminated prior to the date the Shares of the Issuer are listed for trading on the Exchange at the Agent's discretion on the basis of its assessment of the state of the financial markets and upon the occurrence of certain stated events.

The Issuer has granted the Agent a right of first refusal to provide future equity financing to the Issuer for a period of 12 months from the Effective Date.

There are no payments in cash, securities or other consideration being made, or to be made, to a promoter, finder or other person or company in connection with the Offering.

The Directors, Officers and other Insiders of the Issuer may purchase shares from this Offering.

An application for a conditional listing of the Issuer's shares on the Vancouver Stock Exchange has been made to the Exchange. Listing is subject to the Issuer fulfilling all of the listing requirements of the Exchange including prescribed distribution and financial requirements.

A portion of this Offering may be sold to persons and companies registered for trading in securities in countries other than Canada and the United States of America, which persons and companies may in turn sell to their clients, and directly to investors situate outside of Canada and the United States of America. Any sales of the Issuer's shares sold outside of Canada will be subject to and conducted in accordance with the securities laws of the countries in which the sales are made.

The Vancouver Stock Exchange has conditionally listed the securities being offered pursuant to this Prospectus. Listing is subject to the Issuer fulfilling all of the listing requirements of the Vancouver Stock Exchange on or before November 23, 1991, including prescribed distribution and financial requirements.

NAME AND INCORPORATION

Qualis Resources Inc. ("the Issuer") was incorporated on March 6, 1987 under the Company Act of the Province of British Columbia by the registration of its Memorandum and Articles.

The address of the head office of the Issuer is Suite 203, 900 West Georgia Street, Vancouver, British Columbia.

The address of the records and registered offices of the Issuer is 2100 - 505 Burrard Street, Vancouver, British Columbia.

DESCRIPTION OF BUSINESS AND PROPERTY

Business

The Issuer is a natural resource company engaged in the acquisition, exploration and development of natural resource properties. The Issuer owns or has interests in the properties described under the heading "Property" and intends to seek and acquire additional properties worthy of exploration and development.

Property

Ymir Creek Property, Nelson Mining Division, British Columbia

By an agreement dated April 15, 1987, as amended, between the Issuer and P.M. Exploration Ltd. ("P.M. Ex"), of 701 - 1215 Beach Avenue, Vancouver, B.C., a company at arms length to the Issuer, the Issuer acquired an option to purchase the following recorded mineral claims, Crown Grants and reverted Crown grants located in the Nelson Mining Division, Province of British Columbia (the "Property"):

(a) Mineral Claims:

| <u>Name</u> | <u>Record Number</u> | <u>Number of Units</u> | <u>Expiry Date</u> |
|-------------|----------------------|------------------------|--------------------|
| Pendant 1 | 4390 | 12 | August 8, 1992 |
| Pendant 2 | 4391 | 20 | August 8, 1992 |
| Pendant 3 | 4392 | 20 | August 8, 1992 |

(b) Reverted Crown grants:

| <u>Name</u> | <u>Record Number</u> | <u>Number of Units</u> |
|-------------|----------------------|------------------------|
| Foghorn | 3710 | 1 |
| Rainy Day | 3711 | 1 |
| Silver Reaf | 3712 | 1 |

(c) Crown Grants:

| <u>Name</u> | <u>Lot Number</u> | <u>Number of Units</u> |
|---------------|-------------------|------------------------|
| Good Hope | L4382 | 1 |
| Good Hope Fr. | L4383 | 1 |
| Stanley | L4384 | 1 |

The Issuer has paid \$39,500 to P.M. Ex under the terms of the Option. The Option provides for additional instalment payments to be made by the Issuer to P.M. Ex as follows:

- (a) \$4,500, which the Issuer may, at its option elect to pay to P.M. Ex on the earlier of two weeks from the Listing Date or August 31, 1991. This payment is to maintain the Scott Option (defined below). If the Issuer elects not to make such payment, the Scott Option will expire, however the Option as it relates to the remaining mineral claims and reverted crown grants will remain in full force and effect;
- (b) \$11,000 on or about January 2, 1993; and
- (c) final payment of \$20,000 on or about July 2, 1993.

The aggregate purchase price for the Property is \$74,000.

In addition, the Issuer was required to incur \$70,000 in exploration expenditures by July 1, 1987 on the Property in order to keep the option in good standing. Approximately \$65,000 was expended by this date and P.M. Ex agreed to waive the excess. An additional \$80,000 in exploration expenses must be incurred by July 2, 1992.

A portion of the Property (namely mineral claims Good Hope, Good Hope Fraction, Stanley) is subject to an option agreement between P.M. Ex and James K. Scott of 621 Ash Street, Dayton, Oregon (the "Scott Option"). If the Issuer exercises the option on the Property, the Issuer will obtain the Property free and clear of all encumbrances save for a royalty payable to James Scott of 2½% interest in net smelter returns received from exploitation of those claims subject to the Scott Option. All payments required to maintain and exercise the Scott Option will be made by P.M. Ex from the payments made to it by the Company.

P.M. Ex is wholly owned by Bruce Stafford, drilling contractor, of 3265 East 8th Avenue, Vancouver, British Columbia.

The Property is located 10 kilometres northeast of the town of Ymir, which is 30 kilometres south of the City of Nelson on Highway No. 6. Access from Ymir to the Property is gained via 10 kilometres of four wheel drive road along Ymir Creek to the Old Wilcox Millsite. From this point, access is gained by foot along a foot trail to the "Foghorn" and "Good Hope" workings. Also access can be gained by helicopter to a ridge above the "Good Hope" and "Swiss Cheese" workings.

The topography of the Property is steep and rugged with numerous granite cliffs and subsequent talus slopes. Principal vein structures are exposed between 5,500 and 6,200 feet elevation on a steep sided ridge in the southern part of the claim area.

The Property covers several known prospects termed the "Foghorn", the "Good Hope" and "Swiss Cheese" workings, each consisting of limited development work on a series of northeast-southwest striking auriferous quartz veins. The claims are situated in the northeastern part of the Ymir Gold Camp.

Ymir Creek Claim Group is situated within the Kootenay Arc, which is a belt of highly deformed sedimentary and volcanic rock extending from the Revelstoke area southwards along Kootenay Lake and southwest into the United States. Historically, the most important deposit "type" in the Ymir Creek area is the northeast-southwest and east-west striking quartz vein invariably mineralized with pyrite, galena and sphalerite. At the former Yankee Girl, Dundee and Ymir Mines, a total over 700,000 tons of ore was produced averaging more than 0.30 oz./ton gold. These veins are typically 2-5 feet in width and dip deeply north. At the Yankee Girl Mine, a continuous ore chute was mined over a vertical range of 1,000 feet and a horizontal range of approximately 400 feet.

After obtaining the Property in April, 1987, the Issuer initiated an exploration program in order to locate and evaluate the three principal areas of underground workings known on the Property. During May and June, 1987, several helicopter fly camps were established and the program of geological mapping and talus/soil geochemical sampling was carried out. In addition, several of the old trenches and adits were rehabilitated and cleaned for mapping and sampling purposes. A total of 65 rock samples and 365 soil samples were assayed for gold and a suite of 26 elements. Also, the principal underground workings were located and evaluated.

The "Swiss Cheese" Prospect consists of several short adits and trenches driven on both sides of a narrow steep ridge at an elevation of approximately 6,400 feet. These workings explore a 0.20 to 0.40 metre wide quartz vein striking within a 0.50 metre wide gouge zone near the contact with a quartz-biotite schist. The vein contains massive fine grained and coarse grained pyrite; however, oxidation is intense and vein-wall rock relationships are difficult to determine.

From this working, a total of 11 rock chip and grab samples were collected. As well, the location of the various adits and trenches was determined.

The "Foghorn" Prospect consists of several open cuts, short adits and incline shafts and also a 1,200 foot long cross-cut tunnel driven to test a series of three auriferous quartz veins termed No. 1, No. 2 and No. 3.

In 1900, the Golden Monarch Company commenced a cross-cut tunnel several hundred feet lower than the apex of No. 1 vein, intending to tap the veins' depth, particularly the No. 3 vein from which the highest values were obtained. The tunnel runs north 65 degrees west (magnetic) and is all in granite. At a distance of 525 feet from a portal a sheer zone,

striking north 36 degrees east (magnetic) and with a steep dip to the northwest, was encountered and drifted on for 51 feet in a southwesterly direction and for 80 feet in a northeasterly direction. This may be the lower extension of the No. 2 vein. 39 feet farther along the tunnel another parallel shear zone has been raised on for 10 feet. A 20 feet drift was driven to the northeast on small sheer in the granite, 123 feet farther in. 45 feet farther a vein which, in all probability, is the No. 3 vein is met. Here the fraction zone is drifted on for 80 feet to the south where the same lamprophyre dyke which terminates No. 3 vein at the upper tunnel is encountered. The vein southwest of the of the dyke was searched for in all directions by running short workings, without success. No work was done northeast of the cross-cut, although the upper tunnel and shaft proved that the best values in the No. 3 vein are at that level.

GSC memoir 94 describes the Foghorn Prospect as follows.

No. 1 vein is the most northerly and the highest and No. 2 the most southerly and the lowest with No. 3 vein traversing the intervening ground. No. 1 vein, as exposed in an open-cut, strikes north 8 degrees east (magnetic) and dips at an angle of 52 degrees to the west. The foot-wall of the quartz vein is an aplitic variety of granite grading into gneiss; the hanging-wall is normal granite and contains small angulars of quartz. The quartz is honey-combed and iron stained in places and varies from six inches to two feet in width. A little farther north there is a prospect shaft about 15 feet deep on the same vein. About 40 feet below the prospect shaft, a crosscut tunnel 166 feet long taps the vein after passing through a fine-grained siliceous granite which is, in many places, foliated. The vein, where it is intersected by the crosscut tunnel, strikes north 10 degrees east (magnetic) and dips at 45 degrees to the west.

No. 2 vein is exposed in an open-cut about 250 feet lower in elevation than the tunnel on No. 1 vein. No. 2 vein strikes north 40 degrees east (magnetic) and dips 45 to 50 degrees in a northwesterly direction. A crosscut tunnel 20 feet long is driven 40 feet below the level of the open-cut and from the crosscut there is a drift on the vein for 66 feet. The vein in the face shows one inch of quartz containing pyrite and limonite with several inches of oxidized and kaolinized granitic vein rock. The country rock is salic, foliated granite containing large phenocrysts of orthoclase.

No. 3 vein is opened up by three surface cuts, a shaft with drifts and an adit tunnel. The open-cuts expose a vein 1 1/2 to 3 feet wide of comminuted, decomposed granite containing bunches of quartz (honeycombed in places). The hanging-wall is well defined and undulating and both walls are of granite. Large quartz crystals are present in vugs in the oxidized vein. An incline shaft sunk on the vein is down about 20 feet and there appear to be drifts in both directions from it which were filled with water at the time of this examination. The elevation of the shaft collar and portal of the tunnel is about 100 feet higher than that of the tunnel on No. 2 vein, and about 235 feet lower than the uppermost open-cut on No. 3 vein. The

workings are close to the upper terminal of the aerial tram. Samples collected from the collar of this shaft and from dump material near the portal assayed up to 72,860 (sample FHTDD-3) ppb Au (equivalent to 2.18 oz/ton).

The vein is encountered 39 feet in from the portal and there it strikes north 33 degrees east (magnetic) and dips northwesterly at an angle of 53 degrees. This strike persists for 99 feet; then the dip steepens to 65 degrees and the vein swings northwesterly and strikes north 61 degrees east (magnetic) for 54 feet to the face. A mica-lamprophyre dyke in the face of the tunnel striking north 50 degrees west (magnetic) truncates the vein and offset extensions have not yet been identified.

The "Good Hope" workings are located at about 6,250 feet elevation on the steep southeasterly facing slope above Ymir Creek. The "Good Hope" adit is collared at 6250 foot elevation and was driven 95 feet in a direction N 30° W where it cut across a quartz vein about 12 inches wide. Here a short drift was driven to the northeast for six feet, while a longer drift explored the vein over a length of about 205 feet to the southwest. In addition, an inclined winze shaft was sunk on the vein at the end of the 95 feet cross cut to a reported depth of 130 feet. This winze is flooded and, therefore, no examination was made.

The quartz vein is 12 to 18 inches wide over a length of some 55 feet in the winze area but narrows to between one and six inches throughout the rest of the drift. The vein strikes northeast and dips about 50 to 55° northwest approximately parallel to the most common fractures noted in the last granite. The vein probably occupies a fault zone along the entire length exposed in the adit, as gouge or crushed granite accompanies the quartz in varying thicknesses at most places.

In two open-cuts located northwest of the adit, the vein is poorly exposed at present due to caving and sloughing, however, quartz on the dumps is up to six inches wide. These cuts are dealt with on the projection of the main vein exposed in the adit.

To assess the potential for discovery of additional auriferous veins on the Ymir Creek Property, a total of 365 soil samples were collected and assayed for gold (FAA) and a suite of 20 major and trace elements (ICP). In the south central part of the claim group soils were collected at between 12.5 and 25.0 metre intervals at 15 metre spaced aligns. On the east side of the north trending ridge in the central part of Property, soil samples were collected at 25 metre intervals along parallel contour lines spaced 200 feet apart. These lines traverse roughly in the north-south below the known veins and extend approximately 1 kilometre to the north.

The principal target of this survey was to identify additional gold bearing veins in overburdened covered parts of the Property. These veins are enriched in gold, silver, lead and zinc and, therefore, these elements are considered the best indicators. Samples

collected from topographically below the known veins exhibit elevated gold (50-250 ppb range), silver (values are erratic ranging from 0.5-4.0 ppm), lead (values range from 75 to over 400 ppm) and zinc (values range from 200 to 700 ppm). Several anomalous areas are indicated, however, only one of these is clearly not related to known mineralization.

On the basis of this information, Ram Explorations Ltd., in their report dated July 27, 1987 which accompanies this Prospectus, made recommendations for continued exploration. Phase 1 of the recommended program will consist of 1,500 to 2,000 feet of drilling in several holes at each of the prospects. The "Good Hope" and "Swiss Cheese" are most easily accessible for short hole drilling and therefore these will be tested during Phase 1. Phase 2 will consist of an additional 2,500 feet of unallocated diamond drilling pending results of Phase 1. Estimated cost of Phase 1 of the recommended program is \$90,000. The Issuer has allocated \$82,500 of the proceeds of this Offering to pay for the completion of Phase 1 of the recommended program as \$7,500 of the work in the program has already been performed by the Issuer.

In order to comply with British Columbia requirements regarding the completion and filing of assessment work, construction of drill sites Nos. 1 and 2 was conducted in 1988 and 1989 respectively, at a cost of \$4,500 in 1988 and \$4,825 in 1989. Completion of this work will reduce the mobilization and site construction costs involved in completion of the proposed program by \$7,500 from \$90,000 to \$82,500.

The Issuer will be required to complete further debt or equity financing to raise funds to carry out further work on the Property if the results of the Phase I program are favourable.

Aside from the old workings, there is no underground or surface plant or equivalent on the Property, nor any known body of commercial ore. The proposed program is an exploratory search for ore.

RISK FACTORS

The shares offered by this Prospectus must be considered speculative, generally because of the nature of the Issuer's business. In particular:

1. There is no known body of ore on the Issuer's mineral properties. The purpose of the present offering is to raise funds to carry out further exploration with the objective of establishing ore of commercial tonnage and grade. If the Issuer's exploration programs are successful, additional funds will be required for the development of an economic ore body and to place it in commercial production. The only source of future funds presently available to the Issuer is through the sale of equity capital. The only alternative for the financing of further exploration would be

the offering by the Issuer of an interest in its property to be earned by another party or parties carrying out further exploration or development thereof, which is not presently contemplated.

2. There is no established market for the shares of the Issuer.
3. Exploration for minerals is a speculative venture necessarily involving some substantial risk. There is no certainty that the expenditures to be made by the Issuer in the acquisition of the interests described herein will result in discoveries of commercial quantities of ore.
4. The mining industry in general is intensely competitive and there is no assurance that even if commercial quantities of ore are discovered, a ready market will exist for the sale of same. Factors beyond the control of the Issuer may affect the marketability of any substances discovered.
5. The existence of title opinions should not be construed to suggest that the Issuer has good and marketable title to all of the properties described in this Prospectus. The Issuer follows usual industry practice in obtaining title opinions with respect to its properties.
6. The Issuer's properties consisting of recorded mineral claims have not been surveyed, and therefore, the precise location of these properties may be in doubt.
7. Directors of the Issuer also serve as Directors of other companies involved in natural resource development. Accordingly, it may occur that mineral properties will be offered to both the Issuer and such other companies. Furthermore, those other companies may participate in the same properties as those in which the Issuer has an interest. As a result, there may be situations which involve a conflict of interests. In that event, the Directors would not be qualified to vote at meetings on resolutions which evoke any such conflict. The Directors will attempt to avoid dealing with other companies in situations where conflicts might arise and will at all times use their best efforts to act in the best interests of the Issuer.
8. The net asset value per share after completion of the Offering will be \$0.1228 representing a dilution of 67% on a fully-diluted basis, or \$0.2288 representing a dilution of 48% excluding the escrowed shares.
9. Upon completion of this offering, this issue will represent 34% of the shares then outstanding as compared to 37% that will then be owned by the promoters, directors, senior officers and control persons of the Issuer and by associates of the Agents.

USE OF PROCEEDS

The net proceeds to be derived by the Issuer from the Offering will be the sum of \$210,000. which will be spent in order of priority as follows:

| | | |
|----|--|------------------|
| 1. | To fund current working capital deficiency at July 15, 1991 of | \$ 69,000 |
| 2. | To pay for the remaining costs of this issue estimated at | \$ 4,000 |
| 3. | To make the option payment due on the Property the earlier of two weeks from the Listing Date or August 31, 1991 | \$ 4,500 |
| 4. | To pay the remaining costs of Phase I of the recommended program of exploration of the Ymir Creek Property | \$ 82,500 |
| 5. | To provide working capital | <u>\$ 50,000</u> |
| | | <u>\$210,000</u> |

No part of the proceeds will be used to invest, underwrite or trade in securities other than those that qualify as an investment in which trust funds may be invested under the laws of the jurisdiction in which the securities offered by this Prospectus may be lawfully sold. Should the Issuer intend to use the proceeds to acquire other than trustee type securities after the distribution of the securities offered by this Prospectus, approval by the members of the Issuer must first be obtained and notice of the intention must be filed with the regulatory securities bodies having jurisdiction over the sale of the securities offered by this Prospectus.

The allocation of funds to the performance of further development of the Issuer's properties appears warranted on the basis of information presently available to the Issuer and current circumstances, economic and otherwise. However, the Issuer's Directors may elect to redirect these funds to other properties in light of further information or a subsequent change in such circumstances. The Issuer will not discontinue or depart from the recommended programs of work unless advised in writing by its consulting engineers to do so.

In the event of any material change in the affairs of the Issuer during the primary distribution of the securities offered by this Prospectus, an amendment to this Prospectus will be filed. Following completion of the primary distribution of the securities offered by this Prospectus, shareholders will be notified of changes in the affairs of the Issuer in accordance with the requirements of the appropriate regulatory authorities.

DESCRIPTION OF THE ISSUER'S SHARES

The authorized share capital of the Issuer consists of 10,000,000 common shares without par value. As of the date of this Prospectus, 1,344,100 shares were issued and outstanding.

All common shares of the Issuer, both issued and unissued, rank equally as to dividends, voting powers and participation in assets. No shares have been issued subject to call or assessment. There are no pre-emptive or conversion rights and no provisions for redemption, purchase for cancellation, surrender or sinking or purchase funds. Provisions as to the modifications, amendments or variations of such rights or such provisions are contained in the Company Act of the Province of British Columbia.

SHARE AND LOAN CAPITAL STRUCTURE

| <u>Designation of Security</u> | <u>Amount Authorized</u> | Amount issued and allotted as of June 30, 1989 (date of Balance Sheet in the <u>Prospectus</u>) | Amount Outstanding as of the Effective Date set out on the front cover of this <u>Prospectus</u> | <u>Amount Outstanding if all securities are sold</u> |
|--------------------------------|--------------------------|--|--|--|
| Common Shares | 10,000,000 | 1,344,100 | 1,344,100 | 2,044,100 ⁽¹⁾ |

⁽¹⁾ This figure does not include 136,200 shares which are subject to options exercisable at a price of \$0.37 per share granted to the Issuer's directors (see the heading "Options to Purchase Securities").

PRIOR SALES

During the period from incorporation of the Issuer on March 6, 1987 to the date of this Prospectus, the Issuer sold the following shares for cash:

| <u>Number of Shares</u> | <u>Price Per Share</u> | <u>Net Cash Received</u> | <u>Commissions Paid</u> |
|-------------------------|------------------------|--------------------------|-------------------------|
| 558,945 | \$ 0.25 | \$ 139,736.25 | Nil |
| 35,155 | \$ 0.25 | \$ 8,789.00 | Nil |
| 750,000 | \$ 0.01 | \$ 7,500.00 | Nil |
| Total: | | \$ 156,025.25 | |

· indicates shares issued for debt.

SALES OTHERWISE THAN FOR CASH

No securities are being offered under this Prospectus otherwise than for cash. To date, the Issuer has issued 35,155 Common Shares for debt. All other securities have been issued for cash consideration.

DIRECTORS AND OFFICERS

The names, addresses and principal business or occupations in which each of the Directors and Officers of the Issuer has been engaged during the immediately preceding five years are as follows:

| <u>Names & Addresses</u> | <u>Positions Held</u> |
|---|---|
| Glen Charles (Kelly) Loder [*] 304 - 1311 Beach Avenue Vancouver, B.C. | President Chief Executive Officer Director and Promoter |
| Michael Jay Loder [*] 250 East 20th Street North Vancouver, B.C. | Chief Financial Officer Director |
| Richard Lee LeBlanc 9531 Gilbert Crescent Richmond, B.C. | Director |
| Nigel John Hulme 3265 East 8th Avenue Vancouver, B.C. V5M 1X7 | Director |

^{*} Denotes member of the Audit Committee

^{*} Glen Charles (Kelly) Loder and Michael Jay Loder will be primarily responsible for day to day administration of the Issuer's affairs. An outline of their backgrounds follows.

GLEN CHARLES (KELLY) LODER President, Chief Executive Officer, Director and Promoter

Mr. Loder has been a self-employed businessman since 1964. Mr. Loder has extensive marketing and management expertise in the Retail Automotive Industry having owned and managed automotive dealerships and related service businesses in Alberta. He also brings

to the Company experience in the public company field. He has held directorships in two public companies, Argonaut Resources Ltd. and International Sinabarb Industries Ltd. and is currently the President and a director of Jaguar Equities Inc., a mining company whose shares are listed for trading on the Exchange. Mr. Loder has been the President of Jaguar Equities since incorporation of that company. He has been instrumental in corporate reorganizations and packaging of projects for public companies.

MICHAEL JAY LODER
Director and Promoter

Mr. Loder has been a claims adjuster with the Insurance Corporation of British Columbia since January, 1989. He was a Branch Administration Officer with the Royal Bank of Canada from April 1985 to April 1988, wherein he was responsible for the administration of branch operations and personnel management. From January 1984 to March 1985, Mr. Loder performed various bookkeeping and promotional services for several junior resource companies. From January 1983 to August 1983, he was a Field Sales Representative with Lainer Business Products. Mr. Loder was previously employed by Mobil Oil Canada Ltd. Mr. Loder has a Bachelor of Arts degree from Simon Fraser University.

RICHARD LEE LeBLANC
Director and Promoter

Mr. LeBlanc has been a certification engineer for the Canadian Standards Association for the past seven years. Previously Mr. LeBlanc was a project engineer in the British Columbia pulp and paper industry for eight years. Mr. LeBlanc is a registered professional engineer and has a Bachelor of Science in Electrical Engineering from the University of Manitoba.

NIGEL JOHN HULME
Director

Mr. Hulme is a geologist and has been employed since 1989 by Robertson Info-data Inc. of Vancouver, British Columbia, a manufacturer and distributor of computer software for the mining industry. For five years previous to this, Mr. Hulme was a self-employed geologist providing consulting services to the mining industry. Mr. Hulme is a Fellow of the Geological Association of Canada and has a Bachelor of Science (Honours) in Geology from Carleton University, Ottawa. Mr. Hulme is a director of two public companies, Silver Drake Resources Ltd. and Nortran Resources Ltd. Mr. Hulme is also a director of Delgratia Developments Ltd., a company which is in the process of obtaining a listing on the Exchange.

It is anticipated that G.C. (Kelly) Loder will be the most active director of the Issuer, devoting his time as required to the direction of the Issuer's affairs. The remaining directors will not be involved in managing the day-to-day affairs of the Issuer.

STATEMENT OF EXECUTIVE COMPENSATION

The Issuer has two executive officers, Glen C. Loder and Michael Jay Loder.

The following table sets forth the aggregate remuneration paid or payable by the Company in respect to the fiscal period ended June 1, 1991 to its directors in their capacity as directors and to its three senior officers (including directors):

| | <u>Nature of Remuneration</u> | | |
|---------------------------|--|---|--------------|
| | <u>From Office Employment and Employer Contributions</u> | <u>Cost of Pension Benefits</u> | <u>Other</u> |
| Directors (total 3) | nil | nil | nil |
| Senior Officers (total 2) | nil | nil | nil |

The Issuer has granted to senior officers options to purchase 136,200 common shares. See "Options to Purchase Securities". The number of securities under option to each executive officer is determined by a variety of factors including the number of executive officers eligible for stock options, job function, past performance and anticipated future performance. Pursuant to an agreement dated July 1, 1989, the Issuer has agreed to pay Glen Charles (Kelly) Loder, an officer and director of the Issuer, \$2,000 per month for providing management and public relations services commencing on the Company's listing. Mr. Loder will, among other duties, seek out opportunities for the Issuer to participate in the exploration or development of natural resource properties, assist in obtaining financing for the Issuer as required, maintaining relations with shareholders and serve as the Issuer's liaison with the brokerage community. The agreement can be terminated by either party by the giving of three months written notice.

There are no plans in effect pursuant to which cash or non-cash compensation was paid or distributed to executive officers during the most recently completed financial year, or is proposed to be paid or distributed in a subsequent year other than as disclosed herein. Options to purchase securities have been granted to directors, see the heading "Option to Purchase Securities".

OPTIONS TO PURCHASE SECURITIES

By Agreements dated July 1, 1989 options to purchase a total of 136,200 common shares in the capital of the Issuer at a price of \$0.37 per share exercisable during a two year period commencing on the effective date set out on the front cover of this Prospectus were granted as follows:

| <u>Name</u> | <u>Nature of Option</u> | <u>Number of Shares</u> |
|--------------------|-------------------------|-------------------------|
| Glen Charles Loder | Director's | 68,100 |
| Michael Loder | Director's | 68,100 |

PRINCIPAL HOLDERS OF SECURITIES

As of the date of this Prospectus, the following table sets forth the number of shares owned of record or beneficially, directly or indirectly, by each person who owns more than 10% of the Issuer's shares:

| <u>Name and Address</u> | <u>Designation Ownership</u> | <u>Type of Class</u> | <u>Number of Shares Outstanding</u> | <u>Percentage of Shares Outstanding</u> |
|--|------------------------------|----------------------|-------------------------------------|---|
| Richard Lee LeBlanc 9531 Gilbert Crescent Richmond, B.C. | Direct | Common | 750,000 | 56% |

The percentage of common shares held by all directors, promoters and senior officers is 56% of the total issued common shares of the Issuer. After completion of this offering, this percentage will be 37%.

By an agreement dated August 13, 1990, certain shareholders of the Issuer holding a total of 268,000 shares granted an option to purchase those shares to Glen C. Loder. See the heading "Other Material Facts" for further details.

ESCROWED SHARES

As of the date of this Prospectus 750,000 common shares are held in escrow (the "Escrow Shares") by The Royal Trust Company of 505 Burrard Street, Vancouver, B.C. subject to the direction or determination of the Superintendent of Brokers (the "Superintendent") or, in the event that the Company is listed for trading on the Vancouver Stock Exchange (the

"Exchange"), of the Exchange. These shares are "Principal Shares" as defined in the Superintendent's Local Policy 3-07 and were purchased at a price of \$0.01 per share. The escrow restrictions provide that the shares may not be traded in, dealt with in any manner whatsoever, or released, nor may the Issuer, its Transfer Agent or holder of the escrowed shares make any transfer or record any trading of shares without the consent of the Superintendent or the Exchange, as the case may be. However, the escrowed shares may be released at the discretion of the Superintendent or Exchange, as the case may be, in accordance with applicable policy in the event the Issuer becomes successful due in part to the efforts of the holders of the escrowed shares. Any shares not released from escrow after 10 years from the date of the Escrow Agreement will be subject to cancellation.

| <u>Designation of Class</u> | <u>Number of Shares Held in Escrow</u> | <u>Percentage of Class</u> |
|-----------------------------|--|--|
| Common Shares | 750,000 | 56% ⁽¹⁾ 37% ⁽²⁾ |

⁽¹⁾ Prior to completion of public offering.

⁽²⁾ After completion of public offering.

Richard Lee LeBlanc has agreed in principle to grant an option to Glen Charles Loder to acquire the escrowed shares at a price of \$0.01 per share at any time after the date of listing of the Company's shares on the Exchange.

POOLED SHARES

None of the Issuer's shares are held in pool.

DIVIDEND RECORD

The Issuer has not, since the incorporation of the Issuer on March 6, 1987, paid any dividends on any of its shares. The Issuer has no present intention of paying dividends, but the future dividend policy will be determined by the Board of Directors on the basis of earnings, financial requirements and other relevant factors.

PROMOTERS

By virtue of the definition as set out in Section 1(1) of the Securities Act (British Columbia), the directors of the Issuer are the Promoters of the Issuer.

The Promoters have acquired the following common shares in the capital of the Issuer for cash:

| <u>Name</u> | <u>Number of Shares</u> | <u>Price per Share</u> |
|---------------------|-------------------------|------------------------|
| Richard Lee LeBlanc | 750,000 | \$0.01 |

The Issuer has granted options to certain promoters as disclosed herein under the heading "Options to Purchase Securities". Refer to the heading "Statement of Executive Compensation" for details of the management service agreement entered into by the Issuer and Mr. G. Loder.

PENDING LEGAL PROCEEDINGS

The Issuer is not a party with respect to any legal proceedings.

INTEREST OF MANAGEMENT AND OTHERS IN MATERIAL TRANSACTIONS

No director, senior officer or person owning more than 10% of the outstanding voting rights of the Issuer or any associate or affiliate of the foregoing has any interest in any material transactions in which the Issuer has participated or intends to participate at this time.

MATERIAL CONTRACTS

There are no material contracts entered into by the Issuer other than as disclosed in this Prospectus. The Issuer is party to the following material contracts:

| <u>Date</u> | <u>Party Contracting with Issuer</u> | <u>Consideration</u> | <u>General Nature of the Contract</u> |
|---------------------------|--------------------------------------|-----------------------------------|--|
| Apr 15/87 (as amended) | P.M. Explorations Ltd. | \$75,000 and expenditures | Property Agreement |
| Jul 1/89 | Glen Charles Loder | 68,100 shares | Stock Option Agreement |
| Jul 1/89 | Michael Loder | 68,100 shares | Stock Option Agreement |
| Jun 14/89 | Royal Trust Company | nil | Escrow Agreement Principal's Shares |
| Jul 1/89 (as amended) | Glen Charles Loder | \$2,000 per month | Management Agreement |
| Sep 1/90 | Georgia Pacific Securities Corp. | 700,000 shares at \$0.37/share | Agency Agreement |

Material contracts may be inspected at the offices of Douglas, Symes & Brissenden, 2100 One Bentall Centre, 505 Burrard Street, Vancouver, British Columbia, during normal business hours, during the period of primary distribution of the securities being offered under this Prospectus.

OTHER MATERIAL FACTS

There are no other material facts relating to the offering of the securities under this Prospectus other than as disclosed herein except as follows. By an agreement dated August 13, 1990, certain shareholders of the Issuer holding a total of 268,000 shares (the "Seed Shares") of the Issuer granted to Glen Charles Loder an option (the "Option") to purchase the Seed Shares at a price of \$0.25 per share. The option is exercisable up to the earlier of 121 days from the date the Shares of the Issuer are called for trading on the Exchange or 120 days from December 31, 1991.

SOLICITORS

The solicitors for the Issuer are Messrs. Douglas, Symes & Brissenden, 2100 One Bentall Centre, 505 Burrard Street, Vancouver, British Columbia.

AUDITORS, TRANSFER AGENTS AND REGISTRARS

The auditor for the Issuer is Gee & Company, Chartered Accountants, 2280 - 650 West Georgia Street, Vancouver, British Columbia.

The Registrar and Transfer Agent for the Issuer is the Royal Trust Company of 505 Burrard Street, Vancouver, British Columbia.

PURCHASER'S STATUTORY RIGHT OF WITHDRAWAL AND RESCISSION

The Securities Act of British Columbia provides a purchaser with a right to withdraw from an agreement to purchase securities within two business days after receipt or deemed receipt of a prospectus and further provides a purchaser with remedies for rescission or damages where the prospectus and any amendment contains a material misrepresentation or is not delivered to the purchaser prior to delivery of the written confirmation of sale or prior to midnight on the second business day after entering into the agreement, but such remedies must be exercised by the purchaser within the time limit prescribed. For further information concerning these rights and the time limits within which they must be exercised the purchaser should refer to Sections 66, 114, 118 and 124 of the Securities Act of British Columbia or consult a lawyer.

QUALIS RESOURCES INC.

FINANCIAL STATEMENTS

MAY 31, 1991

(Unaudited)

REVIEW ENGAGEMENT REPORT

BALANCE SHEET

STATEMENT OF
DEFERRED EXPLORATION COSTS

STATEMENT OF
LOSS AND DEFICIT

STATEMENT OF
CHANGES IN FINANCIAL POSITION

NOTES TO
THE FINANCIAL STATEMENTS

Gee & Company

CHARTERED ACCOUNTANTS

P O. BOX 11573
#2280-650 W. GEORGIA
VANCOUVER, B C
V6B 4N8
TELEPHONE: (604) 687-6463
FAX: (604) 687-1331

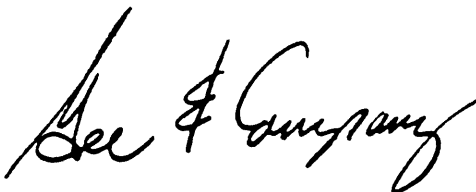
REVIEW ENGAGEMENT REPORT

To the Directors of
Qualis Resources Inc.

We have reviewed the balance sheet of Qualis Resources Inc. as at May 31, 1991, and the statements of deferred exploration costs, loss and deficit and changes in financial position for the period then ended. Our review was made in accordance with generally accepted standards for review engagements and accordingly consisted primarily of enquiry, analytical procedures and discussion related to information supplied to us by the Company.

A review does not constitute an audit and consequently we do not express an audit opinion on these financial statements.

Based on our review, nothing has come to our attention that causes us to believe that these financial statements are not, in all material respects, in accordance with generally accepted accounting principles.



Chartered Accountants
Vancouver, British Columbia

August 8, 1991, except as to Note 9
which is as of August 27, 1991.

QUALIS RESOURCES INC.

BALANCE SHEET

MAY 31, 1991

(Unaudited)

ASSETS

| | <u>May 31, 1991</u> | <u>August 31, 1990</u> |
|----------------------------|-------------------------|----------------------------|
| CURRENT | | |
| Prepays | \$ - | \$ 2,800 |
| RESOURCE PROPERTY (Note 3) | 39,500 | 39,000 |
| DEFERRED EXPLORATION COSTS | <u>74,555</u> | <u>74,555</u> |
| | <u>\$ 114,055</u> | <u>\$ 116,355</u> |
| | ===== | ===== |

LIABILITIES AND SHAREHOLDERS' EQUITY

| | | |
|--|-------------------|-------------------|
| CURRENT | | |
| Cheques written in excess of funds | \$ 979 | \$ 9 |
| Accounts payable | 58,339 | 50,868 |
| Loans payable (Note 4) | <u>9,760</u> | <u>3,450</u> |
| | <u>69,078</u> | <u>54,327</u> |
| SHARE CAPITAL (Note 5) | | |
| Authorized | | |
| 10,000,000 common shares without par value | | |
| Issued | | |
| 1,344,100 common shares | 156,025 | 156,025 |
| DEFICIT | <u>(111,048)</u> | <u>(93,997)</u> |
| | <u>44,977</u> | <u>62,028</u> |
| | <u>\$ 114,055</u> | <u>\$ 116,355</u> |
| | ===== | ===== |

APPROVED ON BEHALF OF THE DIRECTORS:

Director

Director

The accompanying notes are an integral part of these financial statements.

QUALIS RESOURCES INC.

STATEMENT OF DEFERRED EXPLORATION COSTS
FOR THE NINE MONTH PERIOD ENDED MAY 31, 1991

(Unaudited)

| | For the Nine Month Period Ended May 31, 1991 | For the Year Ended August 31, 1990 |
|--------------------------------------|--|---|
| <u>YMIR CREEK CLAIM GROUP</u> | | |
| BALANCE, BEGINNING AND END OF PERIOD | \$ 74,555 ===== | \$ 74,555 ===== |

The accompanying notes are an integral part of these financial statements.

QUALIS RESOURCES INC.

STATEMENT OF LOSS AND DEFICIT

FOR THE NINE MONTH PERIOD ENDED MAY 31, 1991

(Unaudited)

| | For the Nine Month Period Ended May 31, <u>1991</u> | For the Year Ended August 31, <u>1990</u> |
|------------------------------|---|--|
| REVENUE | | |
| Interest income | \$ <u>78</u> | \$ <u>124</u> |
| EXPENSES | | |
| Accounting and legal | 750 | 10,191 |
| Administration | 5,052 | 7,900 |
| Bank charges and interest | 446 | 152 |
| Filing fees | 5,410 | - |
| Office | 698 | 500 |
| Printing | 123 | 186 |
| Transfer fees | 850 | 131 |
| VSE fees | <u>3,800</u> | <u>1,000</u> |
| | <u>17,129</u> | <u>20,060</u> |
| NET LOSS FOR THE PERIOD | (17,051) | (19,936) |
| DEFICIT, BEGINNING OF PERIOD | <u>(93,997)</u> | <u>(74,061)</u> |
| DEFICIT, END OF PERIOD | \$ <u>(111,048)</u> ===== | \$ <u>(93,997)</u> ===== |

The accompanying notes are an integral part of these financial statements.

QUALIS RESOURCES INC.

STATEMENT OF CHANGES IN FINANCIAL POSITION
 FOR THE NINE MONTH PERIOD ENDED MAY 31, 1991
 (Unaudited)

| | For the Nine Month Period Ended May 31, 1991 | For the Year Ended August 31, 1990 |
|---|--|---|
| OPERATING ACTIVITIES | | |
| Net loss for the period | \$ (17,051) | \$ (19,936) |
| Cash provided by changes in non-cash working capital items | <u>16,581</u> | <u>15,568</u> |
| Cash used in operating activities | <u>(470)</u> | <u>(4,368)</u> |
| INVESTING ACTIVITIES | | |
| Acquisition of resource property | <u>(500)</u> | <u>(2,000)</u> |
| Cash used in investing activities | <u>(500)</u> | <u>(2,000)</u> |
| FINANCING ACTIVITIES | | |
| Issuance of common shares | <u>-</u> | <u>6,289</u> |
| Cash provided by financing activities | <u>-</u> | <u>6,289</u> |
| DECREASE IN CASH DURING THE PERIOD | (970) | (79) |
| CASH, BEGINNING OF PERIOD | <u>(9)</u> | <u>70</u> |
| CASH, END OF PERIOD | \$ (979) ===== | \$ (9) ===== |
| CASH CONSISTS OF: | | |
| Cheques written in excess of funds | \$ (979) ===== | \$ (9) ===== |

The accompanying notes are an integral part of these financial statements.

QUALIS RESOURCES INC.

NOTES TO THE FINANCIAL STATEMENTS

MAY 31, 1991

(Unaudited)

1. NATURE OF OPERATIONS:

The Company is in the process of exploring its resource property and has not yet determined whether the resource property contains ore reserves that are economically recoverable. The recoverability of amounts shown for the resource property and related deferred exploration costs are dependent upon the discovery of economically recoverable reserves, confirmation of the Company's interest in the underlying mineral claims, the ability of the Company to obtain necessary financing to complete the development and upon future profitable production or proceeds from the disposition thereof.

2. SIGNIFICANT ACCOUNTING POLICIES:

a) Resource Property:

The amount shown for resource property represents costs to date and does not necessarily reflect present or future values. If the property is sold, allowed to lapse or abandoned, accumulated costs will be written off. The Company is in the exploration stage with respect to its interest in the resource property. On the basis of information to date, the property does not yet have economically recoverable reserves.

b) Deferred Exploration Costs:

The Company capitalizes all exploration costs that result in the acquisition and retention of resource properties or an interest therein. The accumulated costs including applicable exploration expenses relative to non-productive properties that the Company abandons interest in are written off. Otherwise the exploration costs are amortized over the estimated useful life of the producing properties, based on a method relating recoverable reserves to production.

c) Administrative Expenses:

The Company expenses all administrative costs in the year of expenditure that are not specifically related to a property.

d) Values:

The amounts shown for resource property and deferred exploration costs represent costs to date and do not necessarily reflect present or future values.

QUALIS RESOURCES INC.

NOTES TO THE FINANCIAL STATEMENTS

MAY 31, 1991

(Unaudited)

3. RESOURCE PROPERTY:

Ymir Creek Claim Group:

By agreement dated April 15, 1987 and amended July 13, 1989 and August 13, 1990 and February 4, 1991 the Company was assigned an option to purchase a 100% interest in the Scott Property consisting of the following Crown granted mineral claims:

| <u>Claim Name</u> | <u>Lot Number</u> |
|-----------------------|-------------------|
| Good Hope | 4382 |
| Good Hope Fraction #1 | 4383 |
| Stanley | 4384 |

The Crown granted mineral claims are located in the Kootenay Land District of the Province of British Columbia.

In the event of commercial production, the Company must pay a royalty of 2- 1/2% interest in net smelter returns to the original optionor of the crown granted mineral claims.

The agreement dated April 15, 1987 also granted the Company an option to purchase 100% interest in the YMIR Property consisting of the following mineral claims and reverted Crown grants:

| <u>Claim Name</u> | <u>Record Number</u> |
|-------------------|----------------------|
| Pendant # 1 | 4390 |
| Pendant # 2 | 4391 |
| Pendant # 3 | 4392 |
| Foghorn | 3710 |
| Silver Reaf | 3711 |
| Rainy Day | 3712 |

The reverted Crown grants and mineral claims are located in the Nelson Mining Division, Province of British Columbia.

In consideration, the Company has agreed to make the following payments:

| | | |
|------|---------------|---|
| i) | \$ 29,000 | upon execution of the agreement; (paid) |
| ii) | 4,000 | on or before April 1, 1988; (paid) |
| iii) | 4,000 | on or before April 1, 1989; (paid) |
| iv) | 500 | on or before January 1, 1991; (paid) |
| v) | 4,500 | on or before May 31, 1991; |
| vi) | 11,000 | on or before January 1, 1992; |
| vii) | <u>20,000</u> | on or before January 1, 1993. |
| | \$ 73,000 | |
| | ===== | |

QUALIS RESOURCES INC.

NOTES TO THE FINANCIAL STATEMENTS

MAY 31, 1991

(Unaudited)

3. RESOURCE PROPERTY: (Continued)

Ymir Creek Claim Group: (Continued)

The Company paid \$2,000 as consideration to the optionor for amendments to the agreement.

In addition to paying the above installment payments and exploration expenditures incurred to date, the Company is required to incur a further \$80,000 in exploration expenditures on the property on or before July 31, 1991.

See Note 9.

4. LOANS PAYABLE:

There are no specific terms of repayment to these non-interest bearing loans to the shareholders of the Company. (See Note 6)

5. SHARE CAPITAL:

| | <u>May 31, 1991</u> | | <u>August 31, 1990</u> | |
|---------------------------------------|-------------------------|--------------------|-------------------------|------------------|
| | <u>Number of Shares</u> | <u>Amount</u> | <u>Number of Shares</u> | <u>Amount</u> |
| BALANCE, BEGINNING OF PERIOD | 1,344,100 | \$156,025 | 1,318,945 | \$149,736 |
| Issued and allotted during the period | | | | |
| For cash | <u> -</u> | <u> -</u> | <u> 25,155</u> | <u> 6,289</u> |
| BALANCE, END OF PERIOD | <u>1,344,100</u> | <u>\$156,025</u> | <u>1,344,100</u> | <u>\$156,025</u> |

750,000 shares issued at \$0.01 per share are held in escrow subject to release upon approval by regulatory authorities.

Stock Options:

The following stock options are outstanding as at May 31, 1991:

| | <u>Number of Shares</u> | <u>Exercise Price</u> |
|-------------------------|-------------------------|-----------------------|
| Directors and employees | <u>136,200</u> | <u>\$0.37</u> |

The above stock options expire two years from the date of receipt by regulatory authorities of the Company's 1991 Prospectus.

See Note 7(b).

QUALIS RESOURCES INC.

NOTES TO THE FINANCIAL STATEMENTS

MAY 31, 1991

(Unaudited)

6. RELATED PARTY TRANSACTIONS:

- a) During the period, a shareholder of the Company paid \$2,450 for fees on behalf of the Company.
- b) \$500 included in loans payable is indebted to a director of the Company.

7. COMMITMENT:

a) Management Agreement:

By agreement dated July 1, 1989, the Company entered into an agreement with a director of the Company for management services. The fee for this service is \$2,000 per month. The agreement may be terminated by the Company serving 30 days written notice or paying one month's fee in lieu of notice. The manager may terminate the agreement by giving 90 days written notice. This fee is being waived until such time as the Company becomes listed on the Vancouver Stock Exchange.

b) Prospectus:

The Company has commenced the process of filing a prospectus with the Superintendent of Brokers for the Province of British Columbia and the Vancouver Stock Exchange. Thus, the Company has appointed an agent to offer 700,000 common shares at \$0.37 per share through the facilities of the Vancouver Stock Exchange. This public offering is subject to approval by regulatory authorities.

8. LOSS PER SHARE:

At the current stage of development in the Company's operation, loss per share information is not considered meaningful.

9. SUBSEQUENT EVENT:

Subsequent to May 31, 1991, the remaining option payments required to acquire a 100% interest in the Ymir Creek Claim Group, as disclosed in Note 3, has been amended as follows:

- i) \$4,500 on the earlier of two weeks from the date that the Company's shares are listed and posted for trading on the Vancouver Stock Exchange or August 31, 1991.
- ii) \$11,000 on or before January 31, 1993.
- iii) \$20,000 on or before July 2, 1993.

QUALIS RESOURCES INC.

NOTES TO THE FINANCIAL STATEMENTS

MAY 31, 1991

(Unaudited)

9. SUBSEQUENT EVENT: (Continued)

The optionor has agreed that the Company may elect not to make the \$4,500 payment on August 31, 1991, in which case the underlying option on the following crown granted mineral claims will expire.

Claim Name

Good Hope

Good Hope Fraction #1

Stanley

In addition to paying the above installment payments and exploration expenditures to date, the Company is required to incur a further \$80,000 in exploration expenditures on the property on or before July 2, 1992.

QUALIS RESOURCES INC.

FINANCIAL STATEMENTS

AUGUST 31, 1990

AUDITORS' REPORT

BALANCE SHEET

STATEMENT OF
DEFERRED EXPLORATION COSTS

STATEMENT OF DEFICIT

STATEMENT OF LOSS

STATEMENT OF
CHANGES IN FINANCIAL POSITION

NOTES TO
THE FINANCIAL STATEMENTS

Gee & Company

CHARTERED ACCOUNTANTS

P O BOX 11573
#2280-650 W GEORGIA
VANCOUVER, B C
V6B 4N8
TELEPHONE (604) 687-6463
FAX (604) 687-1331

AUDITORS' REPORT

To the Shareholders of
Qualis Resources Inc.

We have audited the balance sheets of Qualis Resources Inc. as at August 31, 1990 and 1989, and the statements of deferred exploration costs, loss, deficit and changes in financial position for each of the years in the three year period ended August 31, 1990, and from the date of incorporation to August 31, 1987. These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with generally accepted auditing standards. Those standards require that we plan and perform an audit to obtain reasonable assurance whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial presentation.

In our opinion, these financial statements present fairly, in all material respects, the financial position of the Company as at August 31, 1990 and 1989, and the results of its operations and the changes in its financial position for each of the years in the three year period ended August 31, 1990 and from the date of incorporation to August 31, 1987 in accordance with generally accepted accounting principles. As required by the Companies Act (British Columbia), we report that, in our opinion, these principles have been applied on consistent basis.



Chartered Accountants
Vancouver, British Columbia

February 12, 1991

QUALIS RESOURCES INC.

BALANCE SHEETS

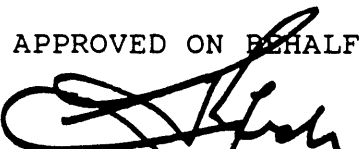
AUGUST 31, 1990 AND 1989

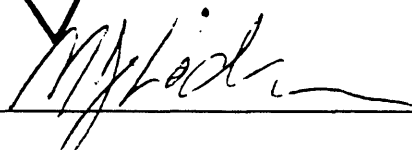
| | <u>ASSETS</u> | |
|----------------------------|-------------------|-------------------|
| | <u>1990</u> | <u>1989</u> |
| CURRENT | | |
| Cash | \$ - | \$ 70 |
| Prepays | 2,800 | 3,800 |
| Loan receivable | <u>-</u> | <u>6,500</u> |
| | 2,800 | 10,370 |
| RESOURCE PROPERTY (Note 3) | 39,000 | 37,000 |
| DEFERRED EXPLORATION COSTS | <u>74,555</u> | <u>74,555</u> |
| | <u>\$ 116,355</u> | <u>\$ 121,925</u> |
| | ===== | ===== |

LIABILITIES AND SHAREHOLDERS' EQUITY

| | | |
|--|-------------------|-------------------|
| CURRENT | | |
| Cheques written in excess of funds | \$ 9 | \$ - |
| Accounts payable | 50,868 | 39,961 |
| Loans payable (Note 4) | <u>3,450</u> | <u>6,289</u> |
| | 54,327 | 46,250 |
| SHARE CAPITAL (Note 6) | | |
| Authorized | | |
| 10,000,000 common shares without par value | | |
| Issued and allotted | | |
| 1,344,100 common shares | 156,025 | 149,736 |
| DEFICIT (Note 5) | <u>(93,997)</u> | <u>(74,061)</u> |
| | <u>62,028</u> | <u>75,675</u> |
| | <u>\$ 116,355</u> | <u>\$ 121,925</u> |
| | ===== | ===== |

APPROVED ON BEHALF OF THE DIRECTORS:


 _____ Director


 _____ Director

The accompanying notes are an integral part of these financial statements.

QUALIS RESOURCES INC.

STATEMENTS OF DEFERRED EXPLORATION COSTS

FOR THE YEARS ENDED AUGUST 31, 1990, 1989 AND 1988
AND FROM THE DATE OF INCORPORATION TO AUGUST 31, 1987

| | For the Year Ended August 31, <u>1990</u> | For the Year Ended August 31, <u>1989</u> | For the Year Ended August 31, <u>1988</u> | From the Date of In- corporation to August 31, <u>1987</u> |
|-------------------------------|--|--|--|--|
| <u>YMIR CREEK CLAIM GROUP</u> | | | | |
| BALANCE, BEGINNING OF YEAR | \$ 74,555 | \$ 69,730 | \$ 65,230 | \$ - |
| Assays | - | - | - | 9,235 |
| Geological | - | 4,825 | 4,500 | 27,905 |
| Geological mapping | - | - | - | 21,640 |
| Report preparation | <u>-</u> | <u>-</u> | <u>-</u> | <u>6,450</u> |
| BALANCE, END OF YEAR | <u>\$ 74,555</u> | <u>\$ 74,555</u> | <u>\$ 69,730</u> | <u>\$ 65,230</u> |

The accompanying notes are an integral part of these financial statements.

QUALIS RESOURCES INC.

STATEMENTS OF DEFICIT

FOR THE YEARS ENDED AUGUST 31, 1990, 1989 AND 1988
AND FROM THE DATE OF INCORPORATION TO AUGUST 31, 1987

| | For the Year Ended August 31, 1990 | For the Year Ended August 31, 1989 | For the Year Ended August 31, 1988 | From the Date of In- corporation to August 31, 1987 |
|--|---|---|---|---|
| DEFICIT, BEGINNING OF YEAR, As previously reported | \$ (74,061) | \$ (38,061) | \$ (6,445) | \$ - |
| Adjustment for VSE fees (Note 5) | <u>-</u> (74,061) | <u>1,250</u> (36,811) | <u>-</u> (6,445) | <u>-</u> - |
| NET LOSS FOR THE YEAR | <u>(19,936)</u> | <u>(37,250)</u> | <u>(30,366)</u> | <u>(6,445)</u> |
| DEFICIT, END OF YEAR | \$ (93,997) ===== | \$ (74,061) ===== | \$ (36,811) ===== | \$ (6,445) ===== |

The accompanying notes are an integral part of these financial statements.

QUALIS RESOURCES INC.

STATEMENTS OF LOSS

FOR THE YEARS ENDED AUGUST 31, 1990, 1989 AND 1988
AND FROM THE DATE OF INCORPORATION TO AUGUST 31, 1987

| | For the Year Ended August 31, 1990 | For the Year Ended August 31, 1989 | For the Year Ended August 31, 1988 | From the Date of In- corporation to August 31, 1987 |
|------------------------------|---|---|---|---|
| REVENUE | | | | |
| Interest income | \$ <u>124</u> | \$ <u>134</u> | \$ <u>579</u> | \$ <u>697</u> |
| EXPENSES | | | | |
| Audit and legal | 10,191 | 16,761 | 14,276 | 4,000 |
| Administration | 7,900 | 12,550 | 8,800 | 2,500 |
| Bank charges and interest | 152 | 99 | 272 | 113 |
| Consulting | - | 1,500 | - | - |
| Filing fees | - | 3,500 | 1,680 | - |
| Office | 500 | 928 | 1,627 | 529 |
| Printing | 186 | 352 | 1,240 | - |
| Professional development | - | - | 1,050 | - |
| Transfer fees | 131 | 1,694 | - | - |
| VSE fees | <u>1,000</u> | <u>-</u> | <u>2,000</u> | <u>-</u> |
| | <u>20,060</u> | <u>37,384</u> | <u>30,945</u> | <u>7,142</u> |
| NET LOSS FOR THE YEAR | \$ <u>(19,936)</u> | \$ <u>(37,250)</u> | \$ <u>(30,366)</u> | \$ <u>(6,445)</u> |

The accompanying notes are an integral part of these financial statements.

QUALIS RESOURCES INC.

STATEMENTS OF CHANGES IN FINANCIAL POSITION

FOR THE YEARS ENDED AUGUST 31, 1990, 1989 AND 1988
AND FROM THE DATE OF INCORPORATION TO AUGUST 31, 1987

| | For the Year Ended August 31, 1990 | For the Year Ended August 31, 1989 | For the Year Ended August 31, 1988 | From the Date of In- corporation to August 31, 1987 |
|--|---|---|---|---|
| OPERATING ACTIVITIES | | | | |
| Net loss for the year | \$ (19,936) | \$ (37,250) | \$ (30,366) | \$ (6,445) |
| Cash provided by changes in non-cash working capital items | <u>15,568</u> | <u>15,864</u> | <u>20,086</u> | <u>-</u> |
| Cash used in operating activities | <u>(4,368)</u> | <u>(21,386)</u> | <u>(10,280)</u> | <u>(6,445)</u> |
| INVESTING ACTIVITIES | | | | |
| Acquisition of resource property | (2,000) | (4,000) | (4,000) | (29,000) |
| Exploration costs | <u>-</u> | <u>(4,825)</u> | <u>(4,500)</u> | <u>(65,230)</u> |
| Cash used in investing activities | <u>(2,000)</u> | <u>(8,825)</u> | <u>(8,500)</u> | <u>(94,230)</u> |
| FINANCING ACTIVITIES | | | | |
| Issuance of common shares | <u>6,289</u> | <u>30,236</u> | <u>-</u> | <u>119,500</u> |
| Cash provided by financing activities | <u>6,289</u> | <u>30,236</u> | <u>-</u> | <u>119,500</u> |
| INCREASE (DECREASE) IN CASH DURING THE YEAR | (79) | 25 | (18,780) | 18,825 |
| CASH, BEGINNING OF YEAR | <u>70</u> | <u>45</u> | <u>18,825</u> | <u>-</u> |
| CASH, END OF YEAR | \$ <u>(9)</u> ===== | \$ <u>70</u> ===== | \$ <u>45</u> ===== | \$ <u>18,825</u> ===== |
| CASH CONSISTS OF: | | | | |
| Cash | \$ - | \$ 70 | \$ 45 | \$ 18,825 |
| Cheques written in excess of funds | <u>(9)</u> | <u>-</u> | <u>-</u> | <u>-</u> |
| | \$ <u>(9)</u> ===== | \$ <u>70</u> ===== | \$ <u>45</u> ===== | \$ <u>18,825</u> ===== |

The accompanying notes are an integral part of these financial statements.

QUALIS RESOURCES INC.

NOTES TO THE FINANCIAL STATEMENTS

AUGUST 31, 1990

1. NATURE OF OPERATIONS:

The Company is in the process of exploring its resource property and has not yet determined whether the resource property contain reserves that are economically recoverable. The recoverability of amounts shown for the resource property and related deferred exploration costs are dependent upon the discovery of economically recoverable reserves, confirmation of the company's interest in the underlying mineral claims, the ability of the Company to obtain necessary financing to complete the development and upon future profitable production.

2. SIGNIFICANT ACCOUNTING POLICIES:

a) Resource Property:

The amount shown for resource property represents costs to date and does not necessarily reflect present or future values. If the property is sold, allowed to lapse or abandoned, accumulated costs will be written off. The Company is in the exploration stage with respect to its interest in the resource property. On the basis of information to date, the property does not yet have economically recoverable reserves.

b) Deferred Exploration Costs:

The Company capitalizes all exploration costs that result in the acquisition and retention of resource properties or an interest therein. The accumulated costs including applicable exploration expenses relative to non-productive properties that the Company abandons interest in are written off. Otherwise the exploration costs are amortized over the estimated useful life of the producing properties, based on a method relating recoverable reserves to production.

c) Administrative Expenses:

The Company expenses all administrative costs in the year of expenditure that are not specifically related to a property.

d) Values:

The amounts shown for resource property and deferred exploration costs represent costs to date and do not necessarily reflect present or future values.

QUALIS RESOURCES INC.

NOTES TO THE FINANCIAL STATEMENTS

AUGUST 31, 1990

3. RESOURCE PROPERTY:

Ymir Creek Claim Group:

By agreement dated April 15, 1987 and amended July 13, 1989 and August 13, 1990, the Company was assigned an option to purchase a 100% interest in the Scott Property consisting of the following Crown granted mineral claims:

| <u>Claim Name</u> | <u>Lot Number</u> |
|-----------------------|-------------------|
| Good Hope | 4382 |
| Good Hope Fraction #1 | 4383 |
| Stanley | 4384 |

The Crown granted mineral claims are located in the Kootenay Land District of the Province of British Columbia.

In the event of commercial production, the Company must pay a royalty of 2- 1/2% interest in net smelter returns to the original optionor of the crown granted mineral claims.

The agreement dated April 15, 1987 also granted the Company an option to purchase 100% interest in the YMIR Property consisting of the following mineral claims and reverted Crown grants:

| <u>Claim Name</u> | <u>Record Number</u> |
|-------------------|----------------------|
| Pendant # 1 | 4390 |
| Pendant # 2 | 4391 |
| Pendant # 3 | 4392 |
| Foghorn | 3710 |
| Silver Reaf | 3711 |
| Rainy Day | 3712 |

The reverted Crown grants and mineral claims are located in the Nelson Mining Division, Province of British Columbia.

In consideration, the Company has agreed to make the following payments:

| | | |
|------|------------------|---|
| i) | \$ 29,000 | upon execution of the agreement; (paid) |
| ii) | 4,000 | on or before April 1, 1988; (paid) |
| iii) | 4,000 | on or before April 1, 1989; (paid) |
| iv) | 5,000 | on or before January 1, 1991; |
| v) | 11,000 | on or before January 1, 1992; |
| vi) | <u>20,000</u> | on or before January 1, 1993. |
| | <u>\$ 73,000</u> | |
| | ===== | |

QUALIS RESOURCES INC.

NOTES TO THE FINANCIAL STATEMENTS

AUGUST 31, 1990

3. RESOURCE PROPERTY: (Continued)

Ymir Creek Claim Group: (Continued)

The Company paid \$2,000 as consideration to the optionor for amendments to the agreement. See Note 7.

In addition to paying the above installment payments and exploration expenditures incurred to date, the Company is required to incur a further \$80,000 in exploration expenditures on the property on or before December 31, 1990.

See Note 10.

4. LOANS PAYABLE:

There are no specific terms of repayment to these non-interest bearing loans.

5. ADJUSTMENT FOR VANCOUVER STOCK EXCHANGE FEES:

As a result of a Vancouver Stock Exchange filing fee adjustment applicable to the year ended August 31, 1988, the balance of the deficit at September 1, 1988 has been adjusted by \$1,250. The adjustment is applicable to the year ended August 31, 1988 and has been charged to income for 1988.

6. SHARE CAPITAL:

| | <u>1990</u> | | <u>1989</u> | |
|--|-----------------------------------|------------------|-----------------------------------|------------------|
| | <u>Number of</u> <u>Shares</u> | <u>Amount</u> | <u>Number of</u> <u>Shares</u> | <u>Amount</u> |
| BALANCE, BEGINNING OF YEAR | 1,318,945 | \$149,736 | 1,198,001 | \$119,500 |
| Issued and allotted during the year | | | | |
| For cash | <u>25,155</u> | <u>6,289</u> | <u>120,944</u> | <u>30,236</u> |
| BALANCE, END OF YEAR | <u>1,344,100</u> | <u>\$156,025</u> | <u>1,318,945</u> | <u>\$149,736</u> |

750,000 common shares issued at \$0.01 per share are held in escrow subject to release upon approval by regulatory authorities.

QUALIS RESOURCES INC.

NOTES TO THE FINANCIAL STATEMENTS

AUGUST 31, 1990

6. SHARE CAPITAL: (Continued)

Stock Options:

The following stock options are outstanding as at August 31, 1990.

| | <u>Number of Shares</u> | <u>Exercise Price</u> |
|-------------------------|-----------------------------|---------------------------|
| Directors and employees | 136,200 ===== | \$0.37 ===== |

The above stock options expire two years from the date of receipt by regulatory authorities of the Company's 1991 prospectus.

See Note 8(b).

7. RELATED PARTY TRANSACTIONS:

During the year, a shareholder of the Company paid \$1,000 for a property extension fee on behalf of the Company.

8. COMMITMENT:

a) Management Agreement:

By agreement dated July 1, 1989, the Company entered into an agreement with a director of the Company for management services. The fee for the services is \$2,000 per month. The agreement may be terminated by the Company serving 30 days written notice or paying one month's fee in lieu of notice. The manager may terminate the agreement by giving 90 days written notice. This fee is being waived until such time as the Company becomes listed on the Vancouver Stock Exchange.

b) Prospectus:

The Company has commenced the process of filing a prospectus with the Superintendent of Brokers for the Province of British Columbia and the Vancouver Stock Exchange. Thus, the Company has appointed an agent to offer 700,000 common shares at \$0.37 per share through the facilities of the Vancouver Stock Exchange. This public offering is subject to approval by regulatory authorities.

9. LOSS PER SHARE:

At the current stage of development in the Company's operation, loss per share information is not considered meaningful.

QUALIS RESOURCES INC.

NOTES TO THE FINANCIAL STATEMENTS

AUGUST 31, 1990

10. SUBSEQUENT EVENT:

Subsequent to August 31, 1990, the payment required in Note 3(iv) \$5,000 on or before January 1, 1991 has been amended as follows:

- i) \$ 500 upon execution of the amendment agreement.
- ii) \$4,500 on or before May 31, 1991.

In addition to paying the above installment payments and exploration expenditures incurred to date, the Company is required to incur a further \$80,000 in exploration expenditures on the property on or before July 31, 1991.

As consideration for this extension, it has been agreed by both parties to waive the "Notice of Default" requirement, therefore, the Company shall no longer be entitled to a sixty day extension of time in order to rectify a default in payment.

RAM EXPLORATIONS LTD.

CERTIFIED A TRUE COPY
this day of 19

**SUMMARY REPORT
AND
PROPOSED EXPLORATION PROGRAM**

**YMIR CREEK CLAIM GROUP
NELSON MINING DIVISION
SOUTH EASTERN BRITISH COLUMBIA**

Longitude = 117° 20' W

Latitude = 50° 40' N

NTS = 82K11W

Mineral Claims

Pendant 1, Record No. 4390

Pendant 2, Record No. 4391

Pendant 3, Record No. 4392

Crown Grants and Reverted Crown Grants

Foghorn, Record No. 3710

Good Hope, Lot 4382

Silver Reef, Record No. 3711

Good Hope Fr., Lot 4383

Rainy Day, Record No. 3712

Stanley, Lot No. 4384

Owner/Operator: Qualis Resources Inc.

Reported By: M. Magrum, P.Eng.

C. von Einsiedel, B.Sc.

Submitted: July 27, 1987

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A total of 11 rock chip and grab samples were collected. Of these, eight returned grades ranging from 0.05 to 0.30 oz./ton. The remaining samples returned grades of over 1.0 oz./ton and one sample (LSC-7C) assayed 593,110 ppb gold (equivalent to 17.3 oz./ton). The locations of the various adits and trenches as well as the location of each rock sample series is shown in Figure No. 3.

"Foghorn" Prospect

These workings consist of several open cuts, short adits and inclined shafts and also a 1,200 foot long crosscut tunnel driven to test a series of three auriferous quartz veins termed No. 1, No. 2 and No. 3. GSC Memoir 94 contains an excellent description of the Foghorn Prospect which is reproduced here.

No. 1 vein is the most northerly and the highest and No. 2 the most southerly and lowest with No. 3 vein traversing the intervening ground. No. 1 vein, as exposed in an open-cut, strikes north 8 degrees east (magnetic) and dips at an angle of 52 degrees to the west. The foot-wall of the quartz vein is an aplitic variety of granite grading into gneiss; the hanging-wall is normal granite and contains small angulars of quartz. The quartz is honey-combed and iron stained in places and varies from six inches to two feet in width. A little farther north there is a prospect shaft about 15 feet deep on the same vein. About 40 feet below the prospect shaft, a crosscut tunnel 166 feet long taps the vein after passing through a fine-grained siliceous granite which is, in many places, foliated. The vein, where it is intersected by the crosscut tunnel, strikes north 10 degrees east (magnetic) and dips at 45 degrees to the west.

No. 2 vein is exposed in an open-cut about 250 feet lower in elevation than the tunnel on No. 1 vein. No. 2 vein strikes north 40 degrees east (magnetic) and dips 45 to 50 degrees in a northwesterly direction. A crosscut tunnel 20 feet long is driven 40 feet below the level of the open-cut and from the crosscut there is a drift on the vein for 66 feet. The vein in the face shows one inch of

quartz containing pyrite and limonite with several inches of oxidized and kaolinized granitic vein rock. The country rock is salic, foliated granite containing large phenocrysts of orthoclase.

No. 3 vein is opened up by three surface cuts, a shaft with drifts and an adit tunnel. The open-cuts expose a vein $1\frac{1}{2}$ to 3 feet wide of comminuted, decomposed granite containing bunches of quartz (honeycombed in places). The hanging-wall is well defined and undulating and both walls are of granite. Large quartz crystals are present in vugs in the oxidized vein. An incline shaft sunk on the vein is down about 20 feet and there appear to be drifts in both directions from it which were filled with water at the time of this examination. The elevation of the shaft collar and portal of the tunnel is about 100 feet higher than that of the tunnel on No. 2 vein, and about 235 feet lower than the uppermost open-cut on No. 3 vein. The workings are close to the upper terminal of the aerial tram. Samples collected from the collar of this shaft and from dump material near the portal assayed up to 72,860 (sample FHTDD-3) ppb Au (equivalent to 2.18 oz./ton).

The vein is encountered 39 feet in from the portal and there it strikes north 33 degrees east (magnetic) and dips northwesterly at an angle of 53 degrees. This strike persists for 99 feet; then the dip steepens to 65 degrees and the vein swings northwesterly and strikes north 61 degrees east (magnetic) for 54 feet to the face. A mica-lamprophyre dyke in the face of the tunnel striking north 50 degrees west (magnetic) truncates the vein and offset extensions have not yet been identified.

In 1900 the Golden Monarch Company commenced a crosscut tunnel several hundred feet lower than the apex of No. 1 vein, intending to tap the veins at depth, particularly No. 3 vein from which the highest values were obtained. The tunnel runs north 65 degrees west (magnetic) and is all in granite. At a distance of 525 feet in from the portal a shear zone, striking north 36 degrees east (magnetic) and with a steep dip to the northwest, was encountered and

drifted on for 51 feet in a southwesterly direction and for 8 feet in a northeasterly direction. This may be the lower extension of No. 2 vein. Thirty-nine feet farther along the tunnel another parallel shear zone dipping 70 degrees to the northwest has been raised on for 10 feet. A 20 foot drift has been driven to the northeast on a small shear in the granite, 123 feet farther in. Forty-five feet farther a vein which, in all probability, is No. 3 vein in depth is met. Here the fractured zone is drifted on for 80 feet to the south where the same lamprophyre dyke which terminates No. 3 vein at the upper tunnel is encountered. The vein southwest of the dyke was searched for in all directions by running short workings, but without success. No work was done northeast of the crosscut, although the upper tunnel and shaft proved that the best values in No. 3 vein are at that level, over 200 feet northeast of the lamprophyre dyke. What is probably the lower extension of No. 1 vein is opened up on a 210 foot drift (110 feet northwest and 100 feet southeast from the crosscut) about 1,100 feet in from the portal of the tunnel. At this level the vein has little quartz and is a shear zone pinching at the northwest end to a gouge seam.

"Good Hope" Prospect

The principal workings are located at about 6,250 feet elevation on a steep southeasterly facing slope above Ymir Creek. The "Good Hope" adit is collared at 6,250 foot elevation and was driven 95 feet in a direction N30°W where it cut across a quartz vein about 12 inches wide. Here a short drift was driven to the northeast for 6 feet, while a longer drift explored the vein over a length of about 205 feet to the southwest. In addition, an inclined winze shaft was sunk on the vein at the end of the 95 feet crosscut to a reported depth of 130 feet. This winze is flooded and, therefore, no examination was made.

The quartz vein is 12 to 18 inches wide over a length of some 55 feet in the winze area, but narrows to between one and six inches throughout the rest of the drift. The vein strikes northeast and dips about 50 to 55° northwest approximately parallel to the most common fractures noted in the host granite.

In fact, the vein probably occupies a fault zone along the entire length exposed in the adit, as gouge or crushed granite accompanies the quartz in varying thicknesses at most places.

In two open cuts located northwest of the adit, the vein is poorly exposed at present due to caving and sloughing, however, quartz on the dumps is up to six inches wide. These cuts are doubtless on the projection of the main vein exposed in the adit. From six samples collected from these trenches, five returned values of over 1.5 oz./ton. Sample GHTR 11 returned an assay of 5.22 oz./ton gold.

It is recommended that the flooded winze be drained and rehabilitated for sampling and mapping purposes. This may provide useful information in positioning the proposed drill holes.

SECTION 3
GEOCHEMICAL SURVEYS

3.1 Survey Description **(please refer to Figure Nos. 4, 5 and 6)**

To assess the potential for the discovery of additional auriferous veins on the Ymir Creek Property, a total of 365 soil samples were collected and assayed for gold (FAA) and a suite of 28 major and trace elements (ICP).

In the south central part of the claim group soils were collected at between 12.5 and 25.0 meter intervals on 50 meter spaced lines. On the east side of a north trending ridge in the central part of the property, soil samples were collected at 25 meter intervals along parallel contour lines spaced 200 feet apart. These lines traverse roughly north-south below the known veins and extend approximately one kilometer to the north.

Soils within the project area are poorly developed and comprise light red brown material mixed with angular locally derived bedrock fragments.

3.2 Results

The principal target of this survey was to identify additional gold bearing veins in overburden covered parts of the property. These veins are enriched in gold, silver, lead and zinc and, therefore, these elements are considered the best indicators.

Samples collected from topographically below the known veins exhibit elevated gold (50 - 250 ppb range), silver (values are erratic ranging from 0.5 to 4.0 ppm), lead (values range from 75 to over 400 ppm) and zinc (values range from 200 to 700 ppm). Several anomalous areas are indicated, however, only one of these is clearly not related to known mineralization.

It is recommended that a field examination of all anomalous sites be carried out to clearly identify the source of these anomalies.

REFERENCES

The following maps and publications were used in the preparation of this report.

Little, H.W. (1960) Geological Survey of Canada, Memoir 308, Nelson Map Area, West Half, British Columbia.

Ministry of Mines Annual Reports (Foghorn), 1900 - pp 846; 1901 - pp 1224; 1902 - pp 160; 1903 - pp 148; 1904 - pp 125, 135, 141; 1911 - pp 1590; 1916 - pp 204.

Ministry of Mines Annual Reports (Good Hope), 1900 - pp 984; 1918 - pp 174; 1918 - pp 174; 1923 - pp 166; 1930 - pp 271; 1938 - pp A36.

Geological Survey of Canada, Map No. 1091A.

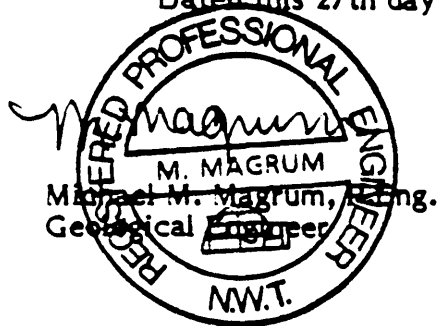
Meyer, B.H. (1985), Geochemical Report on the Fourth of July Mineral Property, Nelson Mining Division, Goldrich Resources, Assessment Report No. 14,555.

CERTIFICATE

I, Michael M. Magrum of the City of Yellowknife in the Northwest Territories, certify that:

1. My address is Box 2045, Yellowknife, NWT, Canada, X1A 2N3 and that my occupation is that of a Geological Engineer.
2. I am a graduate of University of Alaska in Geological Engineering, 1976, with a degree of BSc.
3. I have been a practicing engineer since 1976 and I am a member in good standing of the Association of Professional Engineers, Geologists and Geophysicists of the Northwest Territories.
4. This report is based on results of several examinations made during June and July 1987, an examination of previous operator's technical data and on results of geological mapping and geochemical sampling carried out under my supervision during the present survey.
5. I have no interest, either directly or indirectly, in the properties or securities of Qualis Resources Inc.
6. I consent to the use of this report in the Prospectus, Statement of Material Facts or Qualifying Report for submittal to the Superintendent of Brokers or the Vancouver Stock Exchange.

Dated this 27th day of July, 1987 at Vancouver, British Columbia.

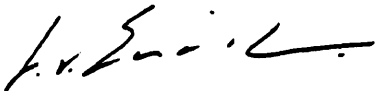


CERTIFICATE

I, Carl A. von Einsiedel of the City of Vancouver in the Province of British Columbia, certify that:

1. I am a consulting geologist with offices located at 210 - 470 Granville Street, Vancouver, B.C.
2. I am a graduate of Carleton University in Ontario in Geological Sciences with a degree of BSc.
3. I have been employed in the field of mineral exploration industry continuously since 1980 and have made application to the Fellowship of the Geological Association of Canada.
4. This report is based on an examination of published technical data and on results of geological mapping and geochemical sampling carried out during June and early July 1987.
5. I have no interest, either directly or indirectly, in the properties or securities of Qualis Resources Inc.

Dated this 27th day of July, 1987 at Vancouver, British Columbia.



Carl von Einsiedel, BSc.
Consulting Geologist

APPENDIX I
ROCK SAMPLE DESCRIPTIONS AND
GEOCHEMICAL ASSAY RESULTS



VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 986-6211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L8
(604) 251-6666

GEOCHEMICAL ANALYTICAL REPORT

CLIENT: RAM EXPLORATION
ADDRESS: 210-470 W. Granville St.
: Vancouver, B.C.
: V6C 1V5

DATE: July 16 1987

REPORT#: 870681 GA
JOB#: 870681

PROJECT#: None Given
SAMPLES ARRIVED: July 16 1987
REPORT COMPLETED: July 16 1987
ANALYSED FOR: Au (FA/AAS) ICP

INVOICE#: 870681 NA
TOTAL SAMPLES: 65
SAMPLE TYPE: 65 ROCK
REJECTS: SAVED

SAMPLES FROM: RAM EXPLORATION
COPY SENT TO: RAM EXPLORATION

PREPARED FOR: RAM EXPLORATION

ANALYSED BY: VGC Staff

SIGNED: _____


GENERAL REMARK: See Attached Memo



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(604) 251-6656

REPORT NUMBER: 870681 GA

JOB NUMBER: 870681

RAM EXPLORATION

PAGE 1 OF 2

| SAMPLE # | Au ppb |
|-----------|-----------|
| A - 1 | 110 |
| A - 2 | nd |
| A - 29 | 70 |
| A - 34 | 55 |
| B - 5 | 10 |
| B - 13 | nd |
| B - 23 | 5 |
| B - 26 | 20 |
| B - 29 | nd |
| B - 30 | nd |
| BSC - 8A | 12130 |
| BSC - 8B | 4150 |
| C - CORE | 100 |
| C - 1 | 170 |
| C - 4 | 310 |
| C - 9 | 1095 |
| C - 10 | 220 |
| C - 16 | 10 |
| C - 26 | 2050 |
| D - 14 | 40 |
| D - 18 | 11590 |
| FHAD - 2 | 1300 |
| FHLD - 4 | 1815 |
| FHLDA - 4 | 3360 |
| FHTDS - 3 | 9050 |
| FHTDD - 3 | 72860 |
| FHTR - 1 | 2610 |
| FHTTS - 3 | 15460 |
| FHTV - 3 | 890 |
| H - 15 | 350 |
| H - 49B | 1090 |
| HFH - 9A | 340 |
| HFH - 9B | 445 |
| HFH - 9C | 995 |
| HFH - 9D | 1540 |
| HR - 1 | 8290 |
| HSC - 6A | 2845 |
| HSC - 6B | 670 |
| HSC - 6C | 1610 |

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample



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(604) 251-6656

REPORT NUMBER: 870681 GA

JOB NUMBER: 870681

RAW EXPLORATION

PAGE 2 OF 2

| SAMPLE # | As ppb |
|----------------|-----------|
| HSC - 6D | 1440 |
| LSC - 7A | 2950 |
| LSC - 7B | 35000 |
| LSC - 7C | 593110 |
| LSC - 7D | 97890 |
| LSC - 7E | 1885 |
| N - 49 | 8845 |
| N - 137 | 5100 |
| N - 211 | 850 |
| N - 256 | 80 |
| N - 259 | 10 |
| GH - DUMP | 21460 |
| GH - PIT-S | 1540 |
| GH - MCRK PILE | 5100 |
| GHFR - 5A | 8600 |
| GHFR - 5B | 8365 |
| GHFR - 5C | 15600 |
| GHFR - 5D | 2090 |
| GHFR - 5E | 3085 |
| GHFR - 5F | 90 |
| GHTR - 11 | 180890 |
| GHTR - 11B | 52900 |
| GHTR - 12 | 70930 |
| GHTR - 12B | 10830 |
| GHTR - 12C | 110430 |
| GHTR - 12D | 151300 |

DETECTION LIMIT
nd = none detected

5
-- = not analysed

is = insufficient sample

VANGEOCHEM LAB LIMITED

MAIN OFFICE: 1521 PEMBERTON AVE. N. VANCOUVER B.C. V7P 2B3 PH: (604)986-5211 TELEX: 04-352578
 BRANCH OFFICE: 1630 PANDORA BT. VANCOUVER B.C. V5L 1L6 PH: (604)251-5656

ICAP GEOCHEMICAL ANALYSIS

A .5 GRAM SAMPLE IS DIGESTED WITH 5 ML OF 3:1:2 HCL TO HNO3 TO H2O AT 95 DEG. C FOR 90 MINUTES AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR SN, MN, FE, CA, P, CR, NG, BA, PB, AL, NA, K, U, PT AND SR. AU AND PD DETECTION IS 3 PPM.
 IS= INSUFFICIENT SAMPLE, ND= NOT DETECTED, -- NOT ANALYZED

CLIENT: RAM EXPLORATIONS
 ATTENTION:
 PROJECT:

REPORT#: PA
 JOB#: 870681
 INVOICE#: NA

DATE RECEIVED: 87/07/09
 DATE COMPLETED: 87/07/25
 COPY SENT TO:

ANALYST *W. Jones*

PAGE 1 OF 2

| SAMPLE # | AG | AL | AS | AU | BA | BI | CA | CD | CO | CR | CU | FE | K | MG | MN | MO | NA | NI | P | PB | PD | PT | SB | SN | SR | U | V | ZN |
|----------|------|------|------|-----|-----|-----|------|-------|-----|-----|-----|-------|-----|------|------|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-------|
| | PPH | % | PPH | PPH | PPH | PPH | % | PPH | PPH | PPH | PPH | % | % | % | PPH | PPH | % | PPH | % | PPH | PPH | PPH | PPH | PPH | PPH | PPH | PPH | PPH |
| A-1 | 3.2 | .13 | 119 | ND | 17 | 4 | .02 | .6 | 1 | 150 | 50 | 5.63 | .05 | .01 | 162 | ND | .01 | 5 | .01 | 10 | ND | ND | 3 | 1 | 3 | ND | ND | 345 |
| A-2 | .2 | .42 | 16 | ND | 35 | ND | .12 | 0.4 | 1 | 63 | 57 | 1.09 | .09 | .06 | 729 | 1 | .01 | 2 | .03 | 12 | ND | ND | ND | 1 | 25 | 3 | 4 | 327 |
| A-29 | .4 | .26 | 21 | ND | 35 | 4 | .07 | 0.3 | 4 | 144 | 26 | 1.51 | .10 | .02 | 681 | 9 | .01 | 4 | .01 | 19 | ND | ND | ND | 1 | 17 | 5 | ND | 287 |
| A-34 | .1 | .32 | 8 | ND | 44 | ND | .12 | 7.7 | 2 | 79 | 40 | 1.21 | .12 | .02 | 770 | ND | .01 | ND | .02 | 4 | ND | ND | ND | 1 | 19 | 7 | ND | 342 |
| B-5 | .1 | .46 | 4 | ND | 51 | 4 | .20 | 4.9 | 1 | 103 | 15 | .03 | .14 | .03 | 646 | 6 | .01 | 2 | .02 | 7 | ND | ND | ND | 1 | 26 | 7 | ND | 210 |
| B-13 | .1 | .56 | 11 | ND | 79 | ND | 2.50 | 15.2 | 4 | 67 | 13 | 3.23 | .25 | .09 | 3410 | ND | .01 | 3 | .19 | 71 | ND | ND | ND | 2 | 89 | ND | ND | 732 |
| B-23 | .1 | .34 | 8 | ND | 41 | ND | .49 | 9.5 | 2 | 89 | 8 | 1.04 | .16 | .04 | 1141 | 6 | .01 | 1 | .07 | 6 | ND | ND | ND | 1 | 41 | 7 | ND | 299 |
| B-26 | .1 | .40 | 5 | ND | 190 | ND | 2.45 | 16.7 | 1 | 50 | 5 | 2.95 | .21 | .00 | 4100 | ND | .01 | 1 | .24 | 8 | ND | ND | ND | 2 | 102 | ND | ND | 404 |
| B-29 | .1 | .25 | 4 | ND | 60 | ND | 2.70 | 1.5 | ND | 129 | 3 | 3.23 | .12 | .00 | 2769 | 8 | .01 | 1 | .24 | 1 | ND | ND | ND | 2 | 170 | ND | ND | 71 |
| B-30 | .1 | .36 | 23 | ND | 63 | ND | 7.14 | 2.0 | 6 | 37 | 4 | 6.05 | .13 | .17 | 4295 | ND | .01 | 3 | .25 | 7 | ND | ND | ND | 2 | 133 | ND | ND | 113 |
| BSC-BA | 7.9 | .25 | 216 | 10 | 30 | ND | .92 | 5.3 | 6 | 179 | 21 | 4.09 | .13 | .16 | 630 | 11 | .01 | 24 | .02 | 127 | ND | ND | ND | 1 | 117 | ND | ND | 501 |
| BSC-BD | 42.0 | .82 | 2670 | 4 | 7 | 401 | .00 | 153.1 | 12 | 119 | 156 | 19.55 | .11 | .03 | 214 | 7 | .01 | 6 | .03 | 536 | ND | ND | 6 | 4 | 14 | ND | ND | 4120 |
| C-CORE | .5 | 1.07 | 29 | ND | 164 | 12 | .36 | 1.0 | 16 | 216 | 32 | 4.00 | .39 | 1.25 | 770 | 11 | .01 | 35 | .05 | 9 | ND | ND | ND | ND | 33 | ND | ND | 145 |
| C-1 | 2.9 | .33 | 34 | ND | 40 | 3 | 1.60 | 20.4 | 14 | 101 | 72 | 4.22 | .15 | .06 | 069 | 6 | .01 | 1 | .01 | 31 | ND | ND | ND | 2 | 126 | ND | ND | 1155 |
| C-6 | 1.0 | .31 | 57 | ND | 31 | 5 | .77 | 5.4 | 2 | 107 | 5 | 1.16 | .10 | .02 | 930 | ND | .01 | 7 | .01 | 142 | ND | ND | ND | 1 | 30 | ND | ND | 307 |
| C-9 | 1.5 | .32 | 300 | ND | 50 | ND | .55 | 6.0 | 1 | 164 | 6 | 1.30 | .14 | .02 | 645 | 10 | .01 | 4 | .01 | 163 | ND | ND | ND | 1 | 31 | 6 | ND | 249 |
| C-10 | 42.9 | .23 | 10 | ND | 41 | 31 | .05 | .7 | 2 | 116 | 23 | 4.07 | .10 | .03 | 131 | ND | .01 | 1 | .01 | 261 | ND | ND | 4 | 1 | 23 | 4 | ND | 105 |
| C-16 | 2.0 | .31 | 26 | ND | 62 | ND | .00 | 32.4 | 1 | 179 | 8 | 2.63 | .10 | .04 | 1665 | 12 | .01 | 3 | .01 | 79 | ND | ND | ND | 1 | 26 | ND | ND | 2029 |
| C-20 | .1 | 1.50 | 77 | ND | 126 | ND | 2.13 | 13.1 | 34 | 165 | 77 | 5.02 | .61 | 1.33 | 1454 | 1 | .01 | 142 | .74 | 12 | ND | ND | ND | 2 | 559 | ND | ND | 067 |
| D-14 | 9.2 | .70 | 102 | ND | 43 | 20 | .24 | 67.1 | 10 | 102 | 163 | 4.27 | .12 | .14 | 2912 | 9 | .01 | 2 | .00 | 1067 | ND | ND | ND | 1 | 79 | ND | ND | 7070 |
| D-10 | .1 | .42 | 21 | ND | 36 | ND | .15 | 5.7 | 2 | 96 | 22 | 1.53 | .10 | .00 | 010 | 1 | .01 | 8 | .04 | 29 | ND | ND | ND | 1 | 40 | 5 | ND | 274 |
| FMB-7 | 1100 | .03 | 293 | 9 | 4 | 396 | .01 | 13.4 | 50 | 193 | 44 | 11.42 | .03 | .01 | 80 | 1 | .01 | 1 | .01 | 469 | ND | ND | 4 | 3 | 2 | ND | ND | 992 |
| FMB-4 | 33.7 | .15 | 2027 | ND | 14 | 62 | .51 | .1 | 25 | 165 | 229 | 13.19 | .06 | .02 | 619 | 10 | .01 | 12 | .01 | 311 | ND | ND | 3 | 3 | 51 | ND | ND | 204 |
| FMB-4 | 51.0 | .11 | 2423 | ND | 13 | 00 | .10 | .9 | 37 | 105 | 106 | 14.34 | .06 | .02 | 207 | 12 | .01 | 12 | .01 | 2292 | ND | ND | 5 | 3 | 17 | ND | ND | 310 |
| FMB-3 | 22.5 | .40 | 025 | ND | 30 | 36 | .01 | 5.9 | ND | 100 | 40 | 3.74 | .12 | .02 | 53 | 1 | .01 | ND | .01 | 307 | ND | ND | 4 | 1 | 31 | ND | ND | 703 |
| FMB-3 | 45.0 | .16 | 20 | 7 | 21 | 67 | .01 | 206.6 | 3 | 50 | 43 | 2.49 | .04 | .01 | 30 | 1 | .01 | 1 | .01 | 352 | ND | ND | 3 | ND | 1 | ND | ND | 9556 |
| FMB-1 | 1100 | .10 | 1512 | 67 | 4 | 617 | .02 | 96.7 | 6 | 17 | 07 | 29.70 | .10 | .03 | 91 | 19 | .01 | ND | .05 | 1557 | ND | ND | 5 | 6 | 3 | ND | ND | 10029 |
| FMB-3 | 40.1 | .10 | 2093 | 3 | 10 | 36 | .01 | 63.5 | 20 | 210 | 27 | 0.02 | .04 | .01 | 26 | 13 | .01 | ND | .01 | 535 | ND | ND | 5 | 1 | 2 | ND | ND | 3267 |
| FMB-3 | 30.2 | .15 | 635 | 8 | 13 | 67 | .01 | 120.4 | 17 | 106 | 20 | 7.60 | .06 | .01 | 20 | 1 | .01 | 3 | .01 | 474 | ND | ND | 3 | 2 | 4 | ND | ND | 4023 |
| M-15 | 0.9 | .64 | 73 | ND | 53 | 19 | .13 | 20.2 | 6 | 83 | 21 | 2.46 | .12 | .14 | 712 | 7 | .01 | 6 | .02 | 325 | ND | ND | ND | 1 | 22 | ND | ND | 11539 |
| M-9B | 0.9 | .32 | 101 | ND | 35 | 14 | .06 | 14.0 | 3 | 107 | 19 | 3.00 | .10 | .02 | 705 | 1 | .01 | 3 | .01 | 1015 | ND | ND | 4 | 1 | 9 | 3 | ND | 1149 |
| MH-9A | 7.1 | .10 | 250 | ND | 22 | 6 | .01 | 16.9 | 2 | 55 | 13 | 4.67 | .06 | .02 | 1117 | 1 | .01 | 23 | .01 | 334 | ND | ND | 4 | 1 | 11 | ND | ND | 720 |
| MH-9B | 12.0 | .75 | 55 | ND | 50 | 3 | .06 | 14.7 | 3 | 160 | 9 | 2.00 | .13 | .06 | 1109 | 10 | .01 | 9 | .01 | 603 | ND | ND | 3 | 1 | 12 | 3 | ND | 1156 |
| MH-9C | 5.7 | .70 | 15 | ND | 07 | ND | .06 | 12.3 | 2 | 107 | 8 | 1.01 | .11 | .11 | 1400 | 1 | .01 | 12 | .01 | 501 | ND | ND | 3 | ND | 15 | ND | ND | 051 |
| MH-9D | 0.0 | .57 | 22 | ND | 140 | ND | .05 | 23.5 | 1 | 163 | 7 | 1.00 | .00 | .07 | 2243 | 1 | .01 | 10 | .01 | 500 | ND | ND | 3 | 1 | 19 | 6 | ND | 790 |
| MR-1 | 17.1 | .47 | ND | ND | 46 | 33 | .05 | 120.0 | 16 | 91 | 91 | 4.59 | .11 | .01 | 257 | 2 | .01 | 3 | .01 | 277 | ND | ND | 3 | 1 | 10 | ND | ND | 9156 |
| MSC-6A | 13.0 | .51 | 552 | 6 | 30 | ND | .04 | 17.0 | ND | 100 | 10 | 2.20 | .14 | .01 | 100 | 1 | .01 | 4 | .02 | 2506 | ND | ND | 6 | 1 | 42 | ND | ND | 1000 |
| MSC-6B | 6.2 | .47 | 414 | ND | 20 | ND | .03 | 16.2 | 1 | 173 | 6 | 1.79 | .13 | .01 | 164 | 11 | .01 | 3 | .01 | 1027 | ND | ND | 4 | 1 | 35 | 4 | ND | 1020 |
| MSC-6C | 3.0 | .00 | 101 | ND | 35 | ND | .09 | 13.3 | 2 | 106 | 7 | 1.31 | .10 | .02 | 752 | 7 | .01 | 4 | .02 | 013 | ND | ND | ND | 1 | 32 | ND | ND | 2110 |

| SAMPLE | AG | AL | AS | AU | BA | BI | CA | CD | CO | CR | CU | FE | K | MG | MN | MO | NA | NI | P | PB | PD | PI | SD | SM | SR | U | V | ZN |
|-----------------|------|------|------|------|-----|-----|------|-------|-----|-----|-----|-------|-----|------|------|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|-----|-----|-------|
| | PPH | L | PPH | PPH | PPH | PPH | L | PPH | PPH | PPH | PPH | L | L | L | PPH | PPH | L | PPH | L | PPH | PPH | PPH | PPH | PPH | PPH | PPH | PPH | PPH |
| HSC 6D | >100 | .14 | 357 | ND | 8 | 360 | .01 | 35.4 | 10 | 143 | 41 | 13.33 | .02 | .01 | 71 | 1 | .01 | 11 | .01 | 505 | ND | ND | 4 | 1 | 1 | ND | ND | 1127 |
| LSC 7A | 7.1 | .01 | 195 | ND | 1 | 7 | .01 | .1 | 1 | 337 | 9 | .56 | .01 | .01 | 48 | ND | .01 | 6 | .01 | 549 | ND | ND | 6 | ND | 1 | 10 | 9 | 41 |
| LSC 7B | 62.1 | .05 | 8778 | 30 | 5 | ND | .01 | .1 | 6 | 62 | 11 | 2.79 | .01 | .01 | 38 | 2 | .01 | 10 | .01 | 11050 | ND | ND | 37 | ND | 4 | ND | ND | 1274 |
| LSC 7C | >100 | .01 | 118 | 1248 | 2 | 14 | .01 | 86.3 | 1 | 338 | 9 | 1.38 | .01 | .01 | 48 | 24 | .01 | 5 | .01 | 25836 | ND | ND | 106 | ND | 8 | ND | ND | 4224 |
| LSC 7D | >100 | .17 | 1373 | 120 | 17 | 3 | .04 | 7.5 | 2 | 196 | 9 | 1.58 | .06 | .01 | 148 | 13 | .01 | 5 | .01 | 7382 | ND | ND | 16 | ND | 10 | 3 | ND | 1144 |
| LSC 7E | 3.7 | .26 | 237 | 5 | 23 | ND | .32 | 29.1 | 1 | 241 | 7 | 1.68 | .08 | .02 | 387 | 15 | .01 | 10 | .01 | 525 | ND | ND | 5 | ND | 33 | ND | ND | 1477 |
| N-49 | >100 | .17 | 171 | 7 | 16 | 266 | .01 | 215.8 | 4 | 274 | 19 | 4.79 | .05 | .01 | 46 | 19 | .01 | 4 | .01 | 5787 | ND | ND | 6 | ND | 4 | ND | ND | 8230 |
| N-137 | 21.7 | .28 | 186 | 3 | 88 | 37 | .13 | 65.1 | 4 | 119 | 7 | 4.47 | .13 | .03 | 6893 | 2 | .01 | 7 | .02 | 5639 | ND | ND | 5 | ND | 39 | ND | ND | 1999 |
| N-211 | 1.1 | .40 | 23 | ND | 49 | ND | .11 | 7.9 | 1 | 120 | 8 | .93 | .11 | .06 | 883 | 8 | .01 | 3 | .02 | 155 | ND | ND | 5 | ND | 26 | 8 | 3 | 421 |
| N-236 | 1.8 | .41 | 49 | ND | 47 | 3 | 1.25 | 52.9 | 3 | 114 | 48 | 1.92 | .11 | .30 | 677 | ND | .01 | 18 | .03 | 133 | ND | ND | 4 | ND | 185 | ND | ND | 1339 |
| N-237 | .1 | 2.57 | ND | 3 | 109 | ND | 3.66 | 2.2 | 34 | 624 | 25 | 4.57 | .32 | 6.07 | 1047 | 3 | .01 | 330 | .19 | 38 | ND | ND | ND | ND | 441 | ND | ND | 131 |
| GM 60A | 56.7 | .15 | 118 | 44 | 18 | 88 | .03 | 18.8 | 2 | 27 | 21 | 3.06 | .04 | .04 | 225 | 1 | .01 | 10 | .01 | 683 | ND | ND | 5 | ND | 6 | ND | ND | 696 |
| GM 61A | 61.5 | .19 | 54 | 4 | 9 | 139 | .02 | 58.7 | 8 | 79 | 174 | 23.98 | .18 | .03 | 82 | 20 | .01 | 8 | .01 | 643 | ND | ND | 6 | 1 | 4 | ND | ND | 3858 |
| GM 62A | 40.2 | .08 | 61 | ND | 9 | 19 | .01 | 4.3 | ND | 68 | 12 | 1.08 | .04 | .01 | 208 | 1 | .01 | 10 | .01 | 253 | ND | ND | 5 | ND | 4 | 9 | 9 | 144 |
| GM 63A | 18.6 | .83 | 228 | 8 | 35 | 21 | .18 | 51.1 | 3 | 188 | 35 | 3.16 | .08 | .18 | 949 | 2 | .01 | 6 | .01 | 792 | ND | ND | 7 | ND | 23 | ND | ND | 4653 |
| GM 64A | 11.1 | .38 | 78 | 6 | 17 | ND | .05 | 18.8 | 1 | 282 | 28 | 1.12 | .07 | .05 | 396 | 14 | .01 | 5 | .01 | 1467 | ND | ND | 7 | ND | 9 | ND | ND | 2881 |
| GM 65A | 15.8 | .73 | 76 | 12 | 68 | 22 | .14 | 58.1 | 8 | 185 | 68 | 2.54 | .13 | .18 | 3875 | 3 | .01 | 51 | .04 | 962 | ND | ND | 8 | ND | 39 | ND | ND | 11453 |
| GM 66A | 3.7 | .40 | 282 | 4 | 68 | ND | .38 | 229.1 | 7 | 183 | 16 | 8.83 | .19 | .11 | 7698 | 6 | .01 | 164 | .12 | 752 | ND | ND | 6 | ND | 95 | ND | ND | 6812 |
| GM 67A | 15.1 | .34 | 156 | ND | 31 | 28 | .18 | 42.2 | 2 | 75 | 19 | 2.92 | .15 | .04 | 1589 | 6 | .01 | 19 | .03 | 1896 | ND | ND | 7 | ND | 21 | ND | ND | 3318 |
| GM 68A | .4 | .32 | 28 | ND | 32 | ND | .45 | 25.8 | 1 | 71 | 7 | .78 | .12 | .05 | 1263 | 1 | .01 | 16 | .02 | 53 | ND | ND | 5 | ND | 23 | 7 | ND | 831 |
| GM 69A | >100 | .13 | 662 | 181 | 4 | 318 | .01 | 35.5 | 4 | 188 | 106 | 11.53 | .04 | .02 | 95 | 17 | .01 | 8 | .02 | 3282 | ND | ND | 11 | ND | 4 | ND | ND | 1989 |
| GM 70A | >100 | .19 | 661 | 43 | 18 | 248 | .01 | 18.1 | 4 | 185 | 74 | 9.08 | .08 | .02 | 244 | 5 | .01 | 5 | .02 | 617 | ND | ND | 13 | ND | 2 | 3 | 113 | 1169 |
| GM 71A | 57.1 | .08 | 12 | 47 | 4 | 77 | .01 | .8 | ND | 173 | 24 | .96 | .02 | .01 | 38 | 13 | .01 | 2 | .01 | 138 | ND | ND | 9 | ND | ND | 11 | 48 | 143 |
| GM 72A | 19.5 | .03 | 112 | 15 | 1 | 88 | .01 | 1.2 | ND | 37 | 16 | 1.06 | .02 | .01 | 49 | 1 | .01 | 4 | .01 | 147 | ND | ND | 8 | ND | 1 | 13 | 19 | 188 |
| GM 73A | >100 | .32 | 94 | 97 | 2 | 847 | .01 | 12.6 | 19 | 87 | 77 | 23.42 | .18 | .07 | 193 | 7 | .01 | 2 | .04 | 856 | ND | ND | 13 | ND | 2 | ND | 132 | 2845 |
| GM 74A | >100 | .24 | 84 | 123 | 3 | 291 | .01 | 9.6 | 12 | 126 | 111 | 11.85 | .08 | .03 | 138 | 12 | .01 | 2 | .02 | 488 | ND | ND | 11 | ND | 1 | ND | 56 | 1283 |
| DETECTION LIMIT | .1 | .01 | 3 | 3 | 1 | 3 | .01 | .1 | 1 | 1 | 1 | .01 | .01 | .01 | 1 | 1 | .01 | 1 | .01 | 2 | 3 | 5 | 2 | 2 | 1 | 5 | 3 | 1 |

| <u>SAMPLE #</u> | <u>LOCATION</u> | <u>DESCRIPTION</u> |
|-----------------|-----------------|---|
| A-1 | "Foghorn" | chip sample across 0.5 metre; shear zone in granodiorite, includes .15 m quartz vein & gouge material |
| A-2 | "Foghorn" | chip sample across 0.5 metre; shear zone in granodiorite, includes .15 m quartz vein & gouge material (see figure 5 for location) |
| A-29 | "Foghorn" | chip sample across 0.5 metre; shear zone in granodiorite, includes .15 m quartz vein & gouge material |
| A-34 | "Foghorn" | chip sample across 0.5 metre; shear zone in granodiorite, includes .15 m quartz vein & gouge material, nil quartz in shear |
| B-5 | "Foghorn" | chip sample across 1.3 m shear zone, includes 10 cm wide quartz stringer |
| B-13 | "Foghorn" | chip sample across 1.3 m shear zone, includes 10 cm wide quartz stringer |
| B-23 | "Foghorn" | chip sample across 1.3 m shear zone, includes 10 cm wide quartz stringer |
| B-26 | "Foghorn" | chip sample across 1.3 m shear zone, includes 10 cm wide quartz stringer |
| B-29 | "Foghorn" | chip sample across 0.65 gouge in hangingwall |
| B-30 | "Foghorn" | chip sample across 1.0m gouge at face of crossout |

| <u>SAMPLE #</u> | <u>LOCATION</u> | <u>DESCRIPTION</u> |
|-----------------|--|--|
| BSC-8A | north end of property, west side slope | grab sample from dump; highly oxidized quartz |
| BSC-8B | north end of property, west side slope | grab sample from dump; highly oxidized quartz |
| C-Core | "Foghorn" main adit; "C" crosscut | core sample; quartz stringer in aplite |
| C-1 | "Foghorn" main adit; "C" crosscut | chip sample across 0.5 metre aplite |
| C-4 | "Foghorn" main adit; "C" crosscut | chip sample across 0.5 metre aplite |
| C-9 | "Foghorn" main adit; "C" crosscut | chip sample across 0.5 metre aplite |
| C-10 | "Foghorn" main adit; "C" crosscut | chip sample across 0.5 metre aplite |
| C-16 | "Foghorn" main adit; "C" crosscut | chip sample across 0.5 metre highly oxidized zone containing aprox. 0.35 metre quartz |
| C-26 | "Foghorn" main adit; "C" crosscut | core sample; quartz stringer in aplite |
| D-14 | "Foghorn" main adit; "D" crosscut | chip sample from a shistose granodiorite fracture; 0.35 metre quartz vein. |
| D-18 | "Foghorn" main adit; "D" crosscut | chip sample across 0.5 metre of a melange zone with quartz stringers in a lamphrofyre dyke |

| <u>SAMPLE #</u> | <u>LOCATION</u> | <u>DESCRIPTION</u> |
|-----------------|--------------------------------------|---|
| FHAD-2 | "Foghorn" adit | smokey quartz sample containing massive pods of euhedral pyrite, trace fine grained spalerite, and limonite |
| FHLD-4 | "Foghorn" lower dump pile | grab sample of vuggy, oxidized quartz containing disseminated pyrite and arsenopyrite; trace sphalerite |
| FHLDA-4 | "Foghorn" lower dump pile | grab sample of quartz containing approximately 15 - 20% fine and coarse pyrite |
| FHTDS-3 | "Foghorn" lower dump pile | muck sample containing some crushed vein material |
| FHTDD-3 | "Foghorn" tram terminal decline dump | grab sample with quartz veining containing disseminated pyrite, trace arseno pyrite, a minor amount of galena, and some zinc staining |
| FHTR-1 | "Foghorn" upper trench | chip sample across 0.60 metre oxidized gouge zone, abundant Pyrite, zinc staining, limonitic |
| FHTTS-3 | "Foghorn" upper trench | chip sample across 0.50 metre including 0.40 metre quartz vein with abundant pyrite |
| FHTV-3 | "Foghorn" upper trench | grab sample oxidized granodiorite with minor disseminated pyrite |
| H-15 | "Foghorn" "H" crosscut | chip sample across 0.5 metre gouge zone in granite, "H" crosscut. |
| H-49B | "Foghorn" "H" crosscut | chip sample across 0.75 metre gouge zone containing several quartz stringers |

| <u>SAMPLE #</u> | <u>LOCATION</u> | <u>DESCRIPTION</u> |
|-----------------|-------------------------|---|
| HFH-9A | upper "Foghorn" | grab sample 0.35 metre wide quartz vein containing minor pyrite, abundant limonite staining. |
| HFH-9B | upper "Foghorn" | chip sample across 0.50 meter gouge zone with quartz, minor sulfides |
| HFH-9C | upper "Foghorn" | chip sample across 0.50 meter oxidized gouge zone (5 meters west of HFH-9B) |
| HFH-9D | upper "Foghorn" | chip sample across 0.30 meter quartz and 0.30 meter oxidized gouge zone |
| HR-1 | "Foghorn" | chip sample across 0.35 metre at face of raise in "H" crosscut |
| HSC-6A | "Foghorn" | chip sample across 0.35 metre wide gouge zone, minor quartz, pyrite-abundant limonitic stain |
| HSC-6B | upper "Swiss Cheese" | grab sample from gouge zone at same location as HSC-6A |
| HSC-6C | upper "Swiss Cheese" | chip sample across 0.40 metre vein at face of flooded decline, quartz, minor pyrite |
| HSC-6D | upper "Swiss Cheese" | grab sample - quartz and pyrite from dump at portal of crosscut |
| LSC-7A | lower "Swiss Cheese" | chip sample at portal of drift across 0.70 metre gouge zone with 0.40 metre quartz vein containing minor pyrite, heavily oxidized |
| LSC-7B | lower "Swiss Cheese" | dump sample, quartz with abundant pyrite, intense oxidation |

| <u>SAMPLE #</u> | <u>LOCATION</u> | <u>DESCRIPTION</u> |
|-----------------|-------------------------|--|
| LSC-7C | lower "Swiss Cheese" | dump sample, quartz with abundant pyrite, zinc staining and intense limonitic staining. Note: abundant fine free gold |
| LSC-7D | lower "Swiss Cheese" | chip sample across 0.40 metre vein 4.0 metre inside drift, abundant pyrite |
| LSC-7E | lower "Swiss Cheese" | chip sample across 0.5 metre gouge zone with quartz, pyrite |
| M-49 | "Foghorn" | chip sample over 0.5 metre; 0.35 metre wide quartz vein containing visible sulphides |
| M-137 | "Foghorn" | chip sample over 1.0 metre; containing quartz stringers, minor pyrite |
| M-211 | "Foghorn" | chip sample over 0.75 metre; 0.35 metre wide quartz vein |
| M-256 | "Foghorn" | chip sample over 1.0 metre in a quartz fissure zone |
| M-259 | "Foghorn" | chip sample over 0.35 metre in shistose granodiorite fractivities |
| GH-Dump | "Good Hope" | grab sample from the dump containing smokey, oxidized quartz |
| GH-Pit-S | "Good Hope" | grab sample from the dump containing smokey, oxidized quartz, pyrite |
| GH-Mcuk Pile | "Good Hope" | grab sample from the dump containing smokey, oxidized quartz, pyrite |
| GHFR-5A | "Good Hope" | chip sample across 0.25 metre of an oxidized fissure zone |

| <u>SAMPLE #</u> | <u>LOCATION</u> | <u>DESCRIPTION</u> |
|-----------------|--------------------|--|
| GHFR-5B | "Good Hope" | chip sample across 0.25 metre of an oxidized fissure zone |
| GHFR-5C | "Good Hope" | chip sample across 0.35 metre in a fault zone containing altered vein material |
| GHFR-5D | "Good Hope" | chip sample across 0.35 metre in a fault zone containing altered vein material |
| GHFR-5E | "Good Hope" | chip sample across 0.25 metre zone of altered vein material |
| GHFR-5F | "Good Hope" | chip sample across 0.5 metre zone of altered vein material |
| GHTR-11 | "Good Hope" trench | chip sample across a vein of oxidized quartz vein material |
| GHTR-11B | "Good Hope" trench | chip sample across a vein of oxidized quartz vein material |
| GHTR-12 | "Good Hope" trench | chip sample across 0.75 metre zone of quartz vein |
| GHTR-12B | "Good Hope" trench | chip sample across 0.75 metre zone of quartz vein |
| GHTR-12C | "Good Hope" trench | chip sample across a zone of oxidized quartz vein material |
| GHTR-12D | "Good Hope" trench | chip sample across a zone of oxidized quartz vein material |

APPENDIX 2
SOIL GEOCHEMICAL DATA



VANGEOCHEM LAB LIMITED

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BRANCH OFFICE
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VANCOUVER, B.C. V6L 1L8
(604) 251-6666

GEOCHEMICAL ANALYTICAL REPORT

CLIENT: RAM EXPLORATION
ADDRESS: 210-470 W. Granville St.
: Vancouver, B.C.
: V6C 1V5

DATE: July 22 1987

REPORT#: 870682 GA
JOB#: 870682

PROJECT#: None Given
SAMPLES ARRIVED: July 9 1987
REPORT COMPLETED: July 22 1987
ANALYSED FOR: Au ICP

INVOICE#: 870682 NA
TOTAL SAMPLES: 365
SAMPLE TYPE: 365 SOIL
REJECTS: DISCARDED

SAMPLES FROM: RAM EXPLORATION
COPY SENT TO: RAM EXPLORATION

PREPARED FOR: RAM EXPLORATION

ANALYSED BY: VGC Staff

SIGNED: _____

GENERAL REMARK: None



VANGEOCHEM LAB LIMITED

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(604) 251-6866

REPORT NUMBER: 870682 GA JOB NUMBER: 870682 RAN EXPLORATION PAGE 1 OF 10

| SAMPLE # | Au |
|-----------|----|
| LA-St-001 | 15 |
| LA-St-002 | 5 |
| LA-St-003 | 5 |
| LA-St-004 | 10 |
| LA-St-005 | 10 |
| LA-St-006 | 10 |
| LA-St-007 | 5 |
| LA-St-008 | nd |
| LA-St-009 | 50 |
| LA-St-010 | nd |
| LA-St-011 | 40 |
| LA-St-012 | 40 |
| LA-St-013 | 20 |
| LA-St-014 | 10 |
| LA-St-015 | 40 |
| LA-St-016 | 15 |
| LA-St-017 | 5 |
| LA-St-018 | 20 |
| LA-St-019 | 20 |
| LA-St-020 | 10 |
| LA-St-021 | 15 |
| LA-St-022 | 5 |
| LA-St-023 | 5 |
| LA-St-024 | 10 |
| LA-St-025 | 25 |
| LB-St-001 | 5 |
| LB-St-002 | 10 |
| LB-St-003 | 5 |
| LB-St-004 | nd |
| LB-St-005 | nd |
| LB-St-006 | 5 |
| LB-St-007 | 25 |
| LB-St-008 | 5 |
| LB-St-009 | 5 |
| LB-St-010 | 5 |
| LB-St-011 | nd |
| LB-St-012 | 5 |
| LB-St-013 | 25 |
| LB-St-014 | 5 |

DETECTION LIMIT 5
nd = none detected -- = not analysed is = insufficient sample



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(604) 251-6666

REPORT NUMBER: 870682 GA

JOB NUMBER: 870682

RAM EXPLORATION

PAGE 2 OF 10

| SAMPLE # | As ppb |
|---------------|-----------|
| LB-St-014 A | 10 |
| LB-St-015 | 20 |
| LB-St-016 | 30 |
| LB-St-017 | nd |
| LB-St-018 | nd |
| LB-St-019 | 5 |
| LB-St-020 | 55 |
| LB-St-021 | 30 |
| LB-St-022 | 5 |
| LB-St-023 | 5 |
| LB-St-024 | 30 |
| LB-St-025 | 75 |
| LB-St-026 | 30 |
| 0+00S 0+00.0M | 10 |
| 0+00S 0+12.5M | 35 |
| 0+00S 0+25.0M | nd |
| 0+00S 0+37.5M | 25 |
| 0+00S 0+50.0M | 5 |
| 0+00S 0+62.5M | 5 |
| 0+00S 0+75.0M | 5 |
| 0+00S 0+87.5M | 10 |
| 0+00S 1+00.0M | nd |
| 0+00S 1+12.5M | 10 |
| 0+00S 1+25.0M | 20 |
| 0+00S 1+37.5M | 15 |
| 0+00S 1+50.0M | 20 |
| 0+00S 1+62.5M | 5 |
| 0+00S 1+75.0M | 25 |
| 0+00S 1+87.5M | 10 |
| 0+00S 2+00.0M | nd |
| 0+00S 2+12.5M | 15 |
| 0+00S 2+25.0M | nd |
| 0+00S 2+37.5M | nd |
| 0+00S 2+50.0M | 5 |
| 0+00S 2+62.5M | nd |
| 0+00S 2+75.0M | nd |
| 0+00S 2+87.5M | 20 |
| 0+00S 3+00.0M | 5 |
| 0+00S 3+12.5M | 5 |

DETECTION LIMIT 5

nd = none detected

-- = not analysed

is = insufficient sample



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REPORT NUMBER: 870682 6A

JOB NUMBER: 870682

RAW EXPLORATION

PAGE 3 OF 10

| SAMPLE # | Au ppb |
|---------------|-----------|
| 0+00S 3+25.0W | 5 |
| 0+00S 3+37.5W | 5 |
| 0+00S 3+50.0W | 5 |
| 0+75S 0+00.0W | 30 |
| 0+75S 0+25.0W | 15 |
| 0+75S 0+50.0W | 10 |
| 0+75S 0+75.0W | nd |
| 0+75S 1+00.0W | 10 |
| 0+75S 1+25.0W | 5 |
| 0+75S 1+50.0W | 5 |
| 0+75S 1+75.0W | 10 |
| 0+75S 2+00.0W | 10 |
| 0+75S 2+25.0W | nd |
| 0+75S 2+50.0W | 10 |
| 0+75S 2+75.0W | 10 |
| 0+75S 3+00.0W | 10 |
| 0+75S 3+25.0W | 10 |
| 0+75S 3+50.0W | 10 |
| L1-St-001 | 40 |
| L1-St-002 | 5 |
| L1-St-003 | 40 |
| L1-St-004 | 65 |
| L1-St-005 | 80 |
| L1-St-006 | 25 |
| L1-St-007 | 10 |
| L1-St-008 | 20 |
| L1-St-009 | 20 |
| L1-St-010 | 30 |
| L1-St-011 | 40 |
| L1-St-012 | 20 |
| L1-St-013 | 50 |
| L1-St-014 | 30 |
| L1-St-015 | 20 |
| L1-St-016 | 5 |
| L1-St-017 | 15 |
| L1-St-018 | 25 |
| L1-St-019 | 45 |
| L1-St-020 | 20 |
| L1-St-021 | 45 |

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample



VANGEOCHEM LAB LIMITED

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REPORT NUMBER: 870682 GA

JOB NUMBER: 870682

RAW EXPLORATION

PAGE 4 OF 10

| SAMPLE # | Au |
|---------------|-----|
| | ppb |
| L1-St-022 | nd |
| L1-St-023 | nd |
| L1-St-024 | 140 |
| L1-St-025 | 25 |
| L1-St-026 | 30 |
| L1-St-027 | 65 |
| L1-St-028 | 5 |
| L1-St-029 | 25 |
| L1-St-030 | 25 |
| L1-St-031 | 65 |
| L1-St-032 | 185 |
| L1-St-033 | 75 |
| L1-St-034 | 70 |
| L1-St-035 | 15 |
| L1-St-036 | 25 |
| L1-St-037 | 30 |
| L1-St-038 | 10 |
| L1-St-039 | 10 |
| L1-St-040 | 10 |
| L1-St-041 | 25 |
| L1-St-042 | 25 |
| L1-St-043 | 5 |
| L1-St-044 | 5 |
| L1-St-045 | 10 |
| L1-St-046 | 10 |
| L1-St-047 | 5 |
| L1-St-048 | 20 |
| L1-St-049 | 5 |
| L1-St-050 | 20 |
| L1-St-051 | 5 |
| L1-St-052 | 10 |
| L1-St-053 | 40 |
| L1-St-054 | 30 |
| L1-St-055 | 60 |
| L1-St-056 | 10 |
| L1-St-010 | 35 |
| L1-St-020 54M | 20 |
| L1-St-030 26M | 10 |
| L1-St-040 56M | 190 |

DETECTION LIMIT 5

nd = none detected

-- = not analysed

is = insufficient sample



VANGEOCHEM LAB LIMITED

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REPORT NUMBER: 870682 GA

JOB NUMBER: 870682

RAN EXPLORATION

PAGE 5 OF 10

| SAMPLE # | Au |
|----------------|-----|
| | ppb |
| LI-St-050 79M | 70 |
| LI-St-060 105M | 350 |
| LI-St-070 130M | 50 |
| LI-St-080 157M | 60 |
| LI-St-090 185M | 40 |
| LI-St-100 209M | 25 |
| LI-St-110 238M | 75 |
| LI-St-120 266M | 40 |
| LI-St-130 294M | 20 |
| LI-St-140 327M | 20 |
| LI-St-150 | 35 |
| LI-St-160 | 15 |
| LI-St-170 | 25 |
| LI-St-180 | 25 |
| LI-St-190 | 40 |
| LI-St-200 | 30 |
| LI-St-210 | 40 |
| LI-St-220 | 30 |
| LI-St-230 | 40 |
| LI-St-240 | 15 |
| LI-St-250 | 15 |
| LI-St-260 | 65 |
| LI-St-270 | 40 |
| LI-St-280 | 10 |
| LI-St-290 | 30 |
| LI-St-300 | 15 |
| LI-St-310 | 30 |
| LI-St-320 | 20 |
| LI-St-330 | 15 |
| LI-St-340 | 15 |
| LI-St-350 | 50 |
| LI-St-360 | 15 |
| LI-St-370 | 5 |
| 1+50S 0+00.0M | 20 |
| 1+50S 0+12.5M | 5 |
| 1+50S 0+25.0M | 5 |
| 1+50S 0+37.5M | nd |
| 1+50S 0+50.0M | nd |
| 1+50S 0+62.5M | nd |

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample



VANGEOCHEM LAB LIMITED

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REPORT NUMBER: 870682 6A JOB NUMBER: 870682 RAN EXPLORATION PAGE 6 OF 10

| SAMPLE # | Au |
|---------------|-----|
| | ppb |
| 1+50S 0+75.0W | 15 |
| 1+50S 0+87.5W | 5 |
| 1+50S 1+00.0W | nd |
| 1+50S 1+12.5W | 5 |
| 1+50S 1+25.0W | 5 |
| 1+50S 1+37.5W | nd |
| 1+50S 1+50.0W | nd |
| 1+50S 1+62.5W | 50 |
| 1+50S 1+75.0W | nd |
| 1+50S 1+87.5W | 5 |
| 1+50S 2+00.0W | 10 |
| 1+50S 2+12.5W | 15 |
| 1+50S 2+25.0W | 10 |
| 1+50S 2+37.5W | 5 |
| 1+50S 2+50.0W | 20 |
| 1+50S 2+62.5W | 5 |
| 1+50S 2+75.0W | 10 |
| 1+50S 2+87.5W | nd |
| 1+50S 3+00.0W | 5 |
| 1+50S 3+12.5W | 5 |
| 1+50S 3+25.0W | 5 |
| 1+50S 3+37.5W | 5 |
| 1+50S 3+50.0W | 5 |
| L2-St-1 | 30 |
| L2-St-2 | 5 |
| L2-St-3 | 20 |
| L2-St-4 | nd |
| L2-St-5 | 70 |
| L2-St-6 | 15 |
| L2-St-7 | 30 |
| L2-St-8 | 60 |
| L2-St-9 | 35 |
| L2-St-10 | 25 |
| L2-St-11 | 25 |
| L2-St-12 | 70 |
| L2-St-13 | 35 |
| L2-St-14 | 25 |
| L2-St-15 | 15 |
| L2-St-16 | 55 |

DETECTION LIMIT 5

nd = none detected -- = not analysed is = insufficient sample



VANGEOCHEM LAB LIMITED

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(604) 251-8666

REPORT NUMBER: 870682 GA

JOB NUMBER: 870682

RAM EXPLORATION

PAGE 7 OF 10

| SAMPLE # | Au ppb |
|----------|-----------|
| L2-St-17 | 20 |
| L2-St-18 | 5 |
| L2-St-19 | 10 |
| L2-St-20 | 10 |
| L2-St-21 | 5 |
| L2-St-22 | 10 |
| L2-St-23 | 10 |
| L2-St-24 | 10 |
| L2-St-25 | 10 |
| L2-St-26 | 10 |
| L2-St-27 | 15 |
| L2-St-28 | 5 |
| L2-St-29 | 20 |
| L2-St-30 | 10 |
| L2-St-31 | 5 |
| L2-St-32 | 60 |
| L2-St-33 | 10 |
| L2-St-34 | 5 |
| L2-St-35 | nd |
| L2-St-36 | nd |
| L2-St-37 | nd |
| L2-St-38 | 20 |
| L2-St-39 | 25 |
| L2-St-40 | nd |
| L2-St-41 | 5 |
| L2-St-42 | 5 |
| L2-St-43 | 10 |
| L2-St-44 | 10 |
| L2-St-45 | 5 |
| L2-St-46 | 10 |
| L2-St-47 | 5 |
| L2-St-48 | 10 |
| L2-St-49 | 10 |
| L2-St-50 | nd |
| L2-St-51 | 5 |
| L2-St-52 | 10 |
| L2-St-53 | 10 |
| L2-St-54 | 40 |
| L2-St-55 | 5 |

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample



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REPORT NUMBER: 870682 6A

JOB NUMBER: 870682

RAW EXPLORATION

PAGE 8 OF 10

| SAMPLE # | Au |
|------------------|-----|
| | ppb |
| L2-St-56 | 30 |
| L2-St-001 | 130 |
| L2-St-002 12.5M | 10 |
| L2-St-003 37.5M | 20 |
| L2-St-004 55.0M | 30 |
| L2-St-005 75.0M | 5 |
| L2-St-006 100.0M | 25 |
| L2-St-007 125.0M | 40 |
| L2-St-008 150.0M | nd |
| L2-St-009 175.0M | nd |
| L2-St-010 200.0M | 10 |
| L2-St-011 240.0M | 25 |
| L2-St-012 275.0M | nd |
| L2-St-013 300.0M | 110 |
| L2-St-014 325.0M | 55 |
| L2-St-015 350.0M | 20 |
| L2-St-016 375.0M | 75 |
| L2-St-017 400.0M | 50 |
| L2-St-018 440.0M | 30 |
| L2-St-019 | 25 |
| L2-St-020 | 35 |
| L2-St-021 | 25 |
| L2-St-022 | 120 |
| L2-St-023 | 35 |
| L2-St-024 | 35 |
| L2-St-025 | 70 |
| L2-St-026 | 135 |
| L2-St-027 | 20 |
| L2-St-028 | 110 |
| L2-St-029 | 270 |
| L2-St-030 | 40 |
| L2-St-031 | 5 |
| L2-St-032 | 35 |
| 2+25S 0+00M | 5 |
| 2+25S 0+25M | 5 |
| 2+25S 0+50M | 5 |
| 2+25S 0+75M | 5 |
| 2+25S 1+00M | 10 |
| 2+25S 1+25M | nd |

DETECTION LIMIT 5

nd = none detected -- = not analysed is = insufficient sample



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(604) 251-6666

REPORT NUMBER: 870682 GA

JOB NUMBER: 870682

RAW EXPLORATION

PAGE 9 OF 10

| SAMPLE # | Au |
|---------------|-----|
| | ppb |
| 2+2SS 1+50W | 5 |
| 2+2SS 1+75W | 20 |
| 2+2SS 2+00W | 35 |
| 2+2SS 2+25W | 20 |
| 2+2SS 2+50W | 10 |
| 2+2SS 2+75W | nd |
| 2+2SS 3+00W | 5 |
| 2+2SS 3+25W | 5 |
| 2+2SS 3+50W | 5 |
| 3+00S 0+00.0W | 10 |
| 3+00S 0+12.5W | 5 |
| 3+00S 0+25.0W | 15 |
| 3+00S 0+37.5W | nd |
| 3+00S 0+50.0W | 5 |
| 3+00S 0+62.5W | 5 |
| 3+00S 0+75.0W | 10 |
| 3+00S 0+87.5W | 5 |
| 3+00S 1+00.0W | 5 |
| 3+00S 1+12.5W | 5 |
| 3+00S 1+25.0W | 5 |
| 3+00S 1+37.5W | 10 |
| 3+00S 1+50.0W | 10 |
| 3+00S 1+62.5W | 55 |
| 3+00S 1+75.0W | 10 |
| 3+00S 1+87.5W | nd |
| 3+00S 2+00.0W | 20 |
| 3+00S 2+12.5W | 30 |
| 3+00S 2+25.0W | 10 |
| 3+00S 2+37.5W | nd |
| 3+00S 2+50.0W | nd |
| 3+00S 2+62.5W | 15 |
| 3+00S 2+75.0W | 5 |
| 3+00S 2+87.5W | 5 |
| 3+00S 3+00.0W | 10 |
| 3+00S 3+12.5W | nd |
| 3+00S 3+25.0W | nd |
| 3+00S 3+37.5W | nd |
| 3+00S 3+50.0W | nd |
| 3+75S 0+00.0W | nd |

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample



VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 988-6211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-6656

REPORT NUMBER: 870682 GA

JOB NUMBER: 870682

RAM EXPLORATION

PAGE 10 OF 10

| SAMPLE # | Au |
|---------------|-----|
| | ppb |
| 3+75S 0+25.0W | 10 |
| 3+75S 0+50.0W | 10 |
| 3+75S 0+75.0W | 30 |
| 3+75S 1+00.0W | 30 |
| 3+75S 1+25.0W | 40 |
| 3+75S 1+50.0W | 10 |
| 3+75S 1+75.0W | nd |
| 3+75S 2+00.0W | nd |
| 3+75S 2+25.0W | nd |
| 3+75S 2+50.0W | 5 |
| 3+75S 2+75.0W | 5 |
| 3+75S 3+00.0W | nd |
| 3+75S 3+25.0W | nd |
| 3+75S 3+50.0W | nd |

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample

ICAP GEOCHEMICAL ANALYSIS

A .5 GRAM SAMPLE IS DIGESTED WITH 5 ML OF 3:1:2 HCL TO HNO3 IN H2O AT 95 DEG. C FOR 90 MINUTES AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR SH, NI, FE, CA, P, CR, NI, BA, PO, AL, NA, K, N, PT AND SR. AU AND PB DETECTION IS 3 PPM.
 IS- INSUFFICIENT SAMPLE, ND- NOT DETECTED, -- NOT ANALYZED

COMPANY: RAM EXPLORATIONS
 ATTENTION:
 PROJECT:

REPORT#: PA
 JOB#: 870682
 INVOICE#: NA

DATE RECEIVED: 87/07/09
 DATE COMPLETED: 87/07/16
 COPY SENT TO:

ANALYST *W. Paul*

PAGE 1 OF 10

| SAMPLE NAME | AG PPM | AL % | AS PPM | AU PPM | BA PPM | BI PPM | CA % | CD PPM | CO PPM | CR PPM | CU PPM | FE % | K % | MG % | NI PPM | NO PPM | NA % | NI PPM | P % | PB PPM | PD PPM | PT PPM | SD PPM | SH PPM | SR PPM | U PPM | V PPM | Zn PPM | |
|-----------------|-----------|---------|-----------|-----------|-----------|-----------|---------|-----------|-----------|-----------|-----------|---------|--------|---------|-----------|-----------|---------|-----------|--------|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|-----------|-----|
| LA-SI 001 | .2 | 3.24 | 19 | ND | 67 | ND | .07 | .3 | 6 | 20 | 10 | 2.40 | .01 | .22 | 337 | 3 | .00 | 19 | .07 | 24 | ND | ND | ND | 0 | 6 | ND | ND | 112 | |
| LA-SI 002 | .2 | 3.69 | 21 | ND | 63 | ND | .06 | .2 | 7 | 22 | 20 | 2.71 | .03 | .26 | 400 | 3 | .09 | 10 | .10 | 27 | ND | ND | 3 | 4 | 7 | ND | ND | 120 | |
| LA-SI 003 | .1 | 2.99 | 20 | ND | 60 | ND | .00 | .2 | 7 | 23 | 20 | 2.35 | .03 | .35 | 543 | 2 | .10 | 19 | .10 | 33 | ND | ND | ND | 1 | 0 | ND | ND | 172 | |
| LA-SI 004 | .1 | 2.16 | 16 | ND | 91 | ND | .09 | .6 | 0 | 47 | 10 | 2.42 | .03 | .54 | 2190 | 2 | .11 | 37 | .00 | 33 | ND | ND | 3 | 3 | 10 | ND | ND | 185 | |
| LA-SI 005 | .1 | 3.17 | 15 | ND | 76 | ND | .09 | .5 | 0 | 26 | 20 | 2.63 | .05 | .40 | 1562 | 3 | .11 | 23 | .17 | 32 | ND | ND | ND | 1 | 10 | ND | ND | 197 | |
| LA-SI 006 | .3 | 2.70 | 14 | ND | 73 | ND | .11 | .7 | 0 | 56 | 19 | 2.50 | .05 | .67 | 1693 | 2 | .10 | 36 | .10 | 32 | ND | ND | ND | 4 | 12 | ND | ND | 163 | |
| LA-SI 007 | .3 | 2.05 | 19 | ND | 62 | ND | .06 | .4 | 7 | 20 | 19 | 2.54 | .04 | .42 | 1023 | 2 | .11 | 19 | .10 | 35 | ND | ND | ND | 2 | 0 | ND | ND | 203 | |
| LA-SI 008 | .3 | 2.60 | 9 | ND | 01 | ND | .06 | 1.3 | 0 | 20 | 16 | 2.32 | .04 | .39 | 1640 | 1 | .12 | 23 | .09 | 37 | ND | ND | ND | 1 | 0 | ND | ND | 236 | |
| LA-SI 009 | .2 | 2.22 | 12 | ND | 06 | ND | .00 | 1.4 | 7 | 29 | 15 | 2.24 | .04 | .41 | 2199 | 2 | .11 | 19 | .13 | 46 | ND | ND | ND | 5 | 9 | ND | ND | 219 | |
| LA-SI 010 | .1 | 2.43 | 19 | ND | 95 | ND | .10 | 2.3 | 0 | 21 | 15 | 2.45 | .05 | .35 | 2615 | 2 | .14 | 16 | .10 | 69 | ND | ND | ND | 4 | 10 | ND | ND | 202 | |
| LA-SI 011 | .2 | 2.41 | 15 | ND | 00 | ND | .20 | 2.9 | 9 | 25 | 20 | 2.01 | .07 | .43 | 2004 | 2 | .10 | 23 | .13 | 96 | ND | ND | ND | 1 | 17 | ND | ND | 373 | |
| LA-SI 012 | .4 | 2.39 | 17 | ND | 90 | ND | .12 | 1.5 | 7 | 10 | 17 | 3.02 | .05 | .37 | 1503 | 1 | .16 | 16 | .09 | 69 | ND | ND | ND | ND | 13 | ND | ND | 304 | |
| LA-SI 013 | .3 | 2.43 | 15 | ND | 72 | ND | .10 | 2.0 | 0 | 17 | 19 | 2.60 | .06 | .35 | 2434 | 2 | .16 | 13 | .09 | 90 | ND | ND | ND | ND | 10 | ND | ND | 309 | |
| LA-SI 014 | .1 | 1.92 | 22 | ND | 120 | ND | .13 | 4.5 | 10 | 15 | 20 | 2.52 | .06 | .20 | 0309 | 1 | .22 | 14 | .09 | 374 | ND | ND | ND | ND | 15 | ND | ND | 501 | |
| LA-SI 015 | .1 | 1.07 | 19 | ND | 173 | ND | .12 | 1.3 | 9 | 23 | 17 | 3.29 | .07 | .44 | 3940 | 1 | .16 | 15 | .15 | 123 | ND | ND | ND | 1 | 14 | ND | ND | 269 | |
| LA-SI 016 | .1 | 2.64 | 12 | ND | 96 | ND | .00 | 2.2 | 9 | 24 | 10 | 2.70 | .06 | .41 | 2446 | 2 | .16 | 10 | .11 | 57 | ND | ND | ND | 2 | 9 | ND | ND | 313 | |
| LA-SI 017 | .2 | 1.50 | 7 | ND | 06 | ND | .17 | 1.1 | 5 | 14 | 12 | 2.45 | .05 | .29 | 015 | 1 | .11 | 0 | .06 | 57 | ND | ND | ND | 3 | 23 | ND | ND | 200 | |
| LA-SI 018 | .5 | 1.77 | 11 | ND | 05 | ND | .07 | 4.4 | 7 | 15 | 17 | 2.41 | .06 | .30 | 3007 | 1 | .17 | 9 | .00 | 240 | ND | ND | ND | ND | 10 | ND | ND | 352 | |
| LA-SI 019 | .5 | 2.07 | 14 | ND | 96 | 3 | .09 | 2.9 | 7 | 15 | 16 | 2.51 | .06 | .33 | 2410 | 2 | .17 | 11 | .00 | 93 | ND | ND | 3 | ND | 11 | ND | ND | 350 | |
| LA-SI 020 | .2 | 1.07 | 14 | ND | 101 | ND | .10 | 2.0 | 7 | 15 | 16 | 2.60 | .06 | .20 | 0000 | 1 | .16 | 11 | .00 | 73 | ND | ND | ND | ND | 12 | ND | ND | 319 | |
| LA-SI 021 | ND | 1.74 | 0 | ND | 147 | ND | .22 | 2.3 | 7 | 10 | 21 | 2.02 | .09 | .35 | 1007 | 2 | .16 | 24 | .06 | 42 | ND | ND | 3 | 1 | 20 | 3 | ND | ND | 302 |
| LA-SI 022 | .1 | 1.09 | 23 | ND | 250 | ND | .25 | 5.6 | 9 | 17 | 20 | 2.70 | .00 | .34 | 5973 | 2 | .10 | 17 | .09 | 00 | ND | ND | ND | 1 | 23 | ND | ND | 263 | |
| LA-SI 023 | .1 | 2.35 | 7 | ND | 304 | ND | .39 | 3.7 | 9 | 16 | 17 | 2.53 | .07 | .30 | 4903 | 1 | .16 | 10 | .16 | 47 | ND | ND | ND | ND | 33 | ND | ND | 313 | |
| LA-SI 024 | .1 | 2.51 | 0 | ND | 167 | ND | .45 | 1.7 | 10 | 29 | 20 | 3.40 | .10 | .06 | 3073 | 1 | .16 | 16 | .23 | 42 | ND | ND | ND | 1 | 29 | ND | ND | 256 | |
| LA-SI 025 | .3 | 2.63 | 0 | ND | 76 | ND | .10 | .2 | 7 | 25 | 10 | 3.01 | .05 | .44 | 765 | 2 | .12 | 16 | .00 | 35 | ND | ND | ND | 1 | 11 | ND | ND | 174 | |
| LB-SI 001 | .2 | 3.14 | 14 | ND | 66 | ND | .06 | .3 | 7 | 26 | 19 | 2.59 | .06 | .43 | 756 | 3 | .11 | 26 | .11 | 43 | ND | ND | ND | ND | 0 | ND | ND | 199 | |
| LB-SI 002 | .3 | 1.94 | 0 | ND | 72 | ND | .06 | .0 | 7 | 20 | 14 | 2.34 | .06 | .40 | 1743 | 2 | .10 | 27 | .07 | 42 | ND | ND | ND | ND | 0 | ND | ND | 174 | |
| LB-SI 003 | ND | 1.95 | 10 | ND | 92 | ND | .13 | 1.4 | 0 | 32 | 13 | 2.29 | .06 | .41 | 1020 | 2 | .11 | 26 | .00 | 46 | ND | ND | ND | ND | 13 | ND | ND | 109 | |
| LB-SI 004 | .0 | 1.37 | 0 | ND | 77 | ND | .00 | 1.1 | 6 | 10 | 10 | 2.20 | .06 | .20 | 1771 | 1 | .10 | 12 | .05 | 39 | ND | ND | ND | ND | 9 | 4 | 5 | 107 | |
| LB-SI 005 | .6 | 2.16 | 14 | ND | 132 | ND | .15 | 1.2 | 7 | 17 | 16 | 2.43 | .06 | .29 | 3550 | 2 | .12 | 14 | .13 | 47 | ND | ND | ND | ND | 16 | ND | ND | 222 | |
| LB-SI 006 | .2 | 1.70 | 5 | ND | 90 | ND | .09 | .9 | 0 | 24 | 15 | 2.45 | .06 | .32 | 2242 | 1 | .11 | 10 | .09 | 32 | ND | ND | ND | ND | 11 | 3 | ND | ND | 104 |
| LB-SI 007 | .5 | 2.19 | 5 | ND | 77 | ND | .00 | 1.6 | 6 | 21 | 16 | 2.30 | .07 | .35 | 1126 | 1 | .12 | 15 | .09 | 47 | ND | ND | ND | ND | 9 | ND | ND | 243 | |
| LB-SI 008 | .1 | 2.12 | 0 | ND | 62 | ND | .06 | 1.7 | 7 | 19 | 17 | 2.37 | .06 | .34 | 2234 | 2 | .12 | 12 | .12 | 45 | ND | ND | ND | ND | 9 | ND | ND | 223 | |
| LB-SI 009 | .1 | 2.44 | 9 | ND | 109 | ND | .09 | 1.9 | 0 | 19 | 16 | 2.39 | .00 | .34 | 1654 | 2 | .12 | 14 | .09 | 40 | ND | ND | ND | ND | 11 | 4 | ND | ND | 240 |
| LB-SI 010 | .2 | 3.34 | 12 | ND | 161 | ND | .11 | 2.9 | 10 | 17 | 10 | 2.60 | .06 | .30 | 2673 | 3 | .15 | 12 | .13 | 41 | ND | ND | ND | ND | 15 | ND | ND | 201 | |
| LB-SI 011 | .1 | 1.99 | 14 | ND | 153 | 7 | .14 | 3.4 | 9 | 20 | 14 | 2.66 | .06 | .33 | 2690 | 2 | .17 | 15 | .00 | 69 | ND | ND | ND | ND | 14 | ND | ND | 337 | |
| LB-SI 012 | .4 | 2.91 | 16 | ND | 104 | ND | .10 | 1.5 | 0 | 17 | 16 | 2.34 | .07 | .33 | 1161 | 2 | .15 | 13 | .09 | 56 | ND | ND | ND | ND | 12 | ND | ND | 305 | |
| LB-SI 013 | .0 | 2.41 | 10 | ND | 90 | ND | .12 | 2.7 | 9 | 16 | 21 | 2.50 | .00 | .35 | 3030 | 2 | .14 | 11 | .12 | 60 | ND | ND | ND | ND | 14 | ND | ND | 274 | |
| LB-SI 014 | .3 | 2.00 | 10 | ND | 154 | ND | .29 | 3.3 | 9 | 17 | 10 | 2.07 | .06 | .35 | 3402 | 1 | .17 | 14 | .15 | 45 | ND | ND | ND | ND | 27 | ND | 3 | 302 | |
| DETECTION LIMIT | .1 | .01 | 3 | 3 | 1 | 3 | .01 | .1 | 1 | 1 | 1 | .01 | .01 | .01 | 1 | 1 | .01 | 1 | .01 | 2 | 3 | 5 | 2 | 2 | 1 | 5 | 3 | 1 | |

| SAMPLE NAME | AG PPH | AL I | AS PPH | AU PPH | BA PPH | BI PPH | CA I | CD PPH | CO PPH | CR PPH | CU PPH | FE I | K I | MG I | NH PPH | NO PPH | NA I | NI PPH | P I | PB PPH | PD PPH | PI PPH | SD PPH | SN PPH | SR PPH | U PPH | V PPH | ZN PPH |
|-----------------|-----------|---------|-----------|-----------|-----------|-----------|---------|-----------|-----------|-----------|-----------|---------|--------|---------|-----------|-----------|---------|-----------|--------|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|-----------|
| LB SI 014A | .6 | 2.12 | 14 | ND | 109 | ND | .17 | 2.6 | 7 | 17 | 20 | 2.07 | .04 | .37 | 2730 | 2 | .17 | 29 | .10 | 173 | ND | ND | ND | ND | 16 | ND | ND | 332 |
| LB-SI 015 | .3 | 2.36 | 25 | ND | 92 | ND | .13 | 2.6 | 8 | 18 | 19 | 2.60 | .05 | .41 | 2869 | 2 | .15 | 30 | .10 | 139 | ND | ND | 3 | ND | 14 | ND | ND | 319 |
| LB-SI 016 | .8 | 2.53 | 17 | ND | 79 | 3 | .14 | 2.8 | 8 | 23 | 19 | 2.60 | .05 | .42 | 1743 | 2 | .13 | 27 | .09 | 73 | ND | ND | ND | ND | 16 | ND | ND | 300 |
| LB-SI 017 | .7 | 1.80 | 22 | ND | 147 | ND | .19 | 6.5 | 10 | 16 | 21 | 2.91 | .05 | .30 | 5857 | 1 | .16 | 10 | .12 | 111 | ND | ND | ND | ND | 23 | ND | ND | 327 |
| LB-SI 018 | 2.3 | 2.54 | 26 | ND | 131 | 3 | .26 | 3.8 | 10 | 51 | 24 | 4.37 | .03 | .57 | 2519 | 2 | .25 | 35 | .20 | 73 | ND | ND | 3 | ND | 26 | ND | ND | 459 |
| LB-SI 019 | .6 | 2.37 | 15 | ND | 133 | ND | .22 | 3.1 | 8 | 24 | 18 | 2.73 | .04 | .36 | 1543 | 1 | .16 | 20 | .10 | 52 | ND | ND | ND | ND | 20 | ND | ND | 322 |
| LE SI 020 | .4 | 1.92 | 7 | ND | 236 | ND | .23 | 2.5 | 7 | 17 | 15 | 2.20 | .02 | .34 | 4597 | 1 | .13 | 17 | .09 | 59 | ND | ND | ND | ND | 21 | ND | ND | 266 |
| LE SI 021 | .4 | 2.96 | 7 | ND | 119 | ND | .20 | .9 | 10 | 27 | 20 | 3.20 | .04 | .64 | 1196 | 2 | .15 | 18 | .11 | 52 | ND | ND | ND | ND | 15 | ND | ND | 250 |
| LF-SI 022 | .2 | 2.39 | 9 | ND | 149 | ND | .20 | 1.3 | 9 | 20 | 15 | 2.70 | .04 | .44 | 2843 | 1 | .15 | 17 | .10 | 47 | ND | ND | ND | ND | 18 | ND | ND | 200 |
| LF-SI 023 | .1 | 1.72 | 26 | ND | 173 | ND | .16 | 1.9 | 9 | 15 | 17 | 3.18 | .04 | .31 | 3897 | ND | .12 | 12 | .12 | 67 | ND | ND | ND | ND | 18 | 3 | ND | 214 |
| LF-SI 024 | 1.1 | 1.71 | 26 | ND | 222 | ND | .26 | 7.8 | 10 | 12 | 20 | 2.42 | .06 | .24 | 9041 | 1 | .09 | 12 | .15 | 167 | ND | ND | ND | ND | 31 | ND | ND | 259 |
| LB-SI 025 | .3 | 2.05 | 15 | ND | 190 | 4 | .21 | 4.0 | 11 | 16 | 20 | 2.07 | .04 | .32 | 6229 | 1 | .12 | 12 | .13 | 117 | ND | ND | ND | ND | 32 | ND | ND | 229 |
| LB-SI 026 | .7 | 1.90 | 25 | ND | 120 | ND | .14 | 2.6 | 8 | 15 | 16 | 3.03 | .03 | .34 | 5645 | ND | .13 | 12 | .13 | 171 | ND | ND | ND | ND | 17 | ND | ND | 240 |
| 0+005 0+00M | .5 | 2.80 | 8 | ND | 74 | ND | .06 | .6 | 6 | 16 | 15 | 2.03 | .01 | .19 | 1286 | 2 | .10 | 9 | .10 | 30 | ND | ND | ND | ND | 7 | ND | ND | 136 |
| 0+005 0+12.5M | .3 | 3.95 | 4 | ND | 53 | ND | .05 | .4 | 6 | 22 | 19 | 3.50 | .01 | .22 | 740 | 3 | .10 | 8 | .11 | 22 | ND | ND | ND | ND | 6 | ND | ND | 95 |
| 0+005 0+25M | .4 | 1.51 | ND | ND | 75 | 4 | .09 | .5 | 6 | 23 | 14 | 2.00 | .01 | .24 | 648 | 1 | .08 | 10 | .06 | 32 | ND | ND | ND | ND | 9 | ND | ND | 89 |
| 0+005 0+37.5M | .1 | 4.16 | 15 | ND | 89 | ND | .07 | .6 | 8 | 42 | 20 | 2.69 | .01 | .43 | 1618 | 2 | .10 | 26 | .12 | 32 | ND | ND | ND | ND | 9 | ND | ND | 142 |
| 0+005 0+50M | .3 | 2.93 | 8 | ND | 73 | ND | .06 | .3 | 7 | 29 | 16 | 2.99 | .01 | .35 | 845 | 2 | .10 | 18 | .20 | 24 | ND | ND | ND | ND | 8 | ND | ND | 124 |
| 0+005 0+62.5M | .1 | 3.62 | ND | ND | 229 | ND | .17 | .4 | 13 | 61 | 27 | 3.14 | .02 | .91 | 512 | 1 | .09 | 39 | .22 | 33 | ND | ND | ND | ND | 57 | ND | ND | 112 |
| 0+005 0+75M | .4 | 5.11 | ND | ND | 77 | ND | .06 | .1 | 9 | 25 | 22 | 2.35 | .01 | .29 | 329 | 3 | .08 | 13 | .17 | 6 | ND | ND | ND | ND | 9 | ND | ND | 127 |
| 0+005 0+87.5M | .2 | 3.42 | ND | ND | 166 | 3 | .14 | .5 | 11 | 50 | 25 | 3.47 | .01 | .69 | 532 | 2 | .15 | 41 | .15 | 28 | ND | ND | ND | ND | 21 | ND | ND | 244 |
| 0+005 1+00M | .1 | 3.67 | ND | ND | 209 | ND | .17 | .3 | 16 | 73 | 28 | 3.79 | .01 | 1.00 | 1114 | 2 | .16 | 51 | .20 | 20 | ND | ND | ND | ND | 31 | ND | ND | 230 |
| 0+005 1+12.5M | .4 | 3.06 | ND | ND | 179 | 5 | .23 | .4 | 16 | 92 | 30 | 3.85 | .02 | 1.36 | 626 | 2 | .23 | 59 | .20 | 26 | ND | ND | ND | ND | 57 | ND | ND | 465 |
| 0+005 1+25M | .1 | 3.70 | 7 | ND | 149 | 5 | .14 | .2 | 12 | 64 | 23 | 3.32 | .01 | .88 | 1106 | 2 | .20 | 43 | .16 | 42 | ND | ND | ND | ND | 26 | ND | ND | 301 |
| 0+005 1+37.5M | .1 | 4.04 | ND | ND | 92 | ND | .08 | .2 | 9 | 48 | 21 | 3.67 | .01 | .52 | 617 | 3 | .13 | 22 | .17 | 23 | ND | ND | ND | ND | 11 | ND | ND | 150 |
| 0+005 1+50M | .1 | 3.42 | 5 | ND | 103 | 3 | .09 | .1 | 9 | 53 | 20 | 3.73 | .01 | .67 | 443 | 2 | .13 | 29 | .17 | 26 | ND | ND | ND | ND | 13 | ND | ND | 161 |
| 0+005 1+62.5M | .1 | 1.55 | 3 | ND | 66 | ND | .07 | .5 | 5 | 23 | 10 | 2.72 | .01 | .22 | 349 | 1 | .07 | 9 | .06 | 35 | ND | ND | ND | ND | 11 | ND | 3 | 72 |
| 0+005 1+75M | .1 | 4.40 | ND | ND | 65 | ND | .05 | .1 | 6 | 37 | 17 | 2.96 | .01 | .36 | 419 | 2 | .10 | 16 | .14 | 15 | ND | ND | ND | ND | 8 | ND | ND | 121 |
| 0+005 1+87.5M | .1 | 1.33 | ND | ND | 45 | 3 | .05 | .2 | 3 | 16 | 8 | 1.68 | .01 | .18 | 265 | ND | .04 | 7 | .03 | 23 | ND | ND | ND | ND | 9 | 3 | 3 | 55 |
| 0+005 2+00M | .1 | 3.75 | ND | ND | 63 | ND | .06 | .2 | 6 | 39 | 15 | 3.05 | .01 | .42 | 291 | 2 | .11 | 19 | .11 | 18 | ND | ND | ND | ND | 10 | ND | ND | 125 |
| 0+005 2+12.5M | .1 | 2.25 | 4 | ND | 77 | ND | .06 | .2 | 6 | 34 | 13 | 2.61 | .01 | .41 | 364 | 1 | .09 | 16 | .05 | 21 | ND | ND | ND | ND | 9 | ND | ND | 121 |
| 0+005 2+25M | .1 | 1.47 | ND | ND | 78 | ND | .05 | .2 | 4 | 21 | 9 | 1.98 | .01 | .24 | 250 | ND | .06 | 8 | .03 | 16 | ND | ND | ND | ND | 9 | 3 | ND | 81 |
| 0+005 2+37.5M | .1 | .80 | ND | ND | 30 | ND | .04 | .5 | 3 | 8 | 6 | .80 | .01 | .08 | 86 | ND | .01 | 4 | .02 | 22 | ND | ND | ND | ND | 6 | 6 | 4 | 36 |
| 0+005 2+50M | .4 | 2.00 | 3 | ND | 63 | ND | .04 | .4 | 4 | 21 | 12 | 2.28 | .01 | .20 | 336 | 1 | .07 | 7 | .08 | 52 | ND | ND | ND | ND | 7 | ND | ND | 82 |
| 0+005 2+62.5M | .2 | 1.46 | 8 | ND | 54 | ND | .12 | .6 | 5 | 15 | 10 | 2.06 | .01 | .45 | 264 | ND | .07 | 6 | .05 | 45 | ND | ND | ND | ND | 16 | ND | 4 | 83 |
| 0+005 2+75M | .5 | 4.11 | 12 | ND | 67 | ND | .06 | .1 | 6 | 28 | 18 | 2.70 | .01 | .33 | 203 | 3 | .09 | 14 | .10 | 19 | ND | ND | ND | ND | 9 | ND | ND | 123 |
| 0+005 2+87.5M | .3 | 1.72 | ND | ND | 64 | ND | .06 | .1 | 5 | 30 | 10 | 2.41 | .01 | .39 | 245 | ND | .07 | 16 | .07 | 18 | ND | ND | ND | ND | 9 | ND | ND | 96 |
| 0+005 3+00M | .1 | 1.70 | ND | ND | 74 | ND | .07 | .4 | 5 | 29 | 10 | 2.17 | .01 | .37 | 606 | ND | .08 | 16 | .07 | 21 | ND | ND | ND | ND | 10 | ND | ND | 110 |
| 0+005 3+12.5M | .1 | 1.79 | 7 | ND | 90 | ND | .08 | .5 | 7 | 48 | 12 | 2.54 | .01 | .61 | 705 | ND | .09 | 27 | .07 | 28 | ND | ND | ND | ND | 11 | ND | ND | 144 |
| DETECTION LIMIT | .1 | .01 | 3 | 3 | 1 | 3 | .01 | .1 | 1 | 1 | 1 | .01 | .01 | .01 | 1 | 1 | .01 | 1 | .01 | 2 | 3 | 5 | 2 | 2 | 1 | 5 | 3 | 1 |

| SAMPLE NAME | AG PPH | AL I | AS PPH | AU PPH | BA PPH | BI PPH | CA I | CB PPH | CO PPH | CR PPH | CU PPH | FE I | K I | MG I | MN PPH | MO PPH | NA I | NI PPH | P I | PB PPH | PH PPH | PI PPH | SO PPH | SN PPH | SR PPH | U PPH | V PPH | ZN PPH |
|-----------------|-----------|---------|-----------|-----------|-----------|-----------|---------|-----------|-----------|-----------|-----------|---------|--------|---------|-----------|-----------|---------|-----------|--------|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|-----------|
| 0700S 3+25M | .9 | 2.65 | 10 | ND | 83 | 4 | .09 | .7 | 8 | 60 | 18 | 2.67 | .11 | .67 | 492 | 2 | .11 | 50 | .10 | 33 | ND | ND | ND | ND | 10 | ND | ND | 196 |
| 0700S 3+37.5M | 1.2 | 2.33 | 16 | ND | 78 | 4 | .10 | .5 | 8 | 55 | 15 | 2.46 | .12 | .63 | 627 | 2 | .10 | 41 | .08 | 31 | ND | ND | ND | ND | 11 | 5 | ND | 191 |
| 0700S 3+50M | 1.2 | 2.53 | 7 | ND | 75 | ND | .09 | .5 | 8 | 46 | 16 | 2.77 | .08 | .51 | 666 | 1 | .10 | 32 | .11 | 33 | ND | ND | ND | ND | 10 | ND | ND | 183 |
| 0755S 0+00M | 1.3 | 3.04 | 15 | ND | 122 | 3 | .09 | .4 | 9 | 36 | 21 | 2.89 | .10 | .46 | 2068 | 2 | .11 | 28 | .12 | 36 | ND | ND | ND | ND | 11 | 3 | ND | 190 |
| 0755S 0+25M | .9 | 2.20 | 28 | ND | 73 | 3 | .06 | .3 | 7 | 32 | 16 | 4.12 | .08 | .31 | 529 | 2 | .11 | 18 | .14 | 41 | ND | ND | 3 | ND | 8 | ND | ND | 116 |
| 0755S 0+50M | .9 | 2.50 | 9 | ND | 61 | 4 | .06 | .3 | 7 | 34 | 16 | 2.99 | .09 | .39 | 563 | 1 | .10 | 20 | .13 | 37 | ND | ND | ND | ND | 8 | 5 | ND | 159 |
| 0755S 0+75M | .8 | 2.07 | 7 | ND | 44 | ND | .05 | .1 | 5 | 17 | 12 | 1.89 | .08 | .17 | 180 | ND | .04 | 11 | .03 | 21 | ND | ND | ND | ND | 6 | 9 | ND | 68 |
| 0755S 1+00M | 1.2 | 3.33 | 12 | ND | 74 | ND | .07 | .1 | 8 | 35 | 18 | 2.82 | .08 | .40 | 499 | 1 | .10 | 20 | .09 | 24 | ND | ND | ND | ND | 9 | ND | ND | 168 |
| 0755S 1+25M | 1.5 | 5.47 | 15 | ND | 39 | ND | .05 | .2 | 5 | 25 | 14 | 2.88 | .06 | .15 | 250 | 3 | .07 | 8 | .10 | 14 | ND | ND | ND | ND | 6 | ND | ND | 70 |
| 0755S 1+50M | .7 | 1.70 | 6 | ND | 89 | ND | .10 | .4 | 6 | 27 | 11 | 2.68 | .09 | .21 | 251 | ND | .07 | 11 | .07 | 28 | ND | ND | ND | ND | 16 | ND | ND | 95 |
| 0755S 1+75M | 1.1 | 3.03 | 12 | ND | 45 | ND | .05 | .1 | 6 | 21 | 14 | 2.72 | .05 | .20 | 195 | 1 | .07 | 9 | .09 | 22 | ND | ND | ND | ND | 6 | ND | ND | 82 |
| 0755S 2+00S | 1.0 | 2.02 | 10 | ND | 39 | ND | .05 | .3 | 5 | 20 | 11 | 2.28 | .06 | .22 | 161 | 1 | .06 | 10 | .08 | 26 | ND | ND | ND | ND | 7 | ND | ND | 77 |
| 0755S 2+25M | 1.2 | 2.53 | 10 | ND | 60 | ND | .06 | .5 | 6 | 27 | 13 | 2.90 | .06 | .32 | 347 | 2 | .09 | 13 | .10 | 39 | ND | ND | ND | ND | 8 | ND | ND | 123 |
| 0755S 2+50M | 1.2 | 2.80 | 13 | ND | 112 | ND | .08 | .7 | 10 | 81 | 14 | 2.74 | .10 | .92 | 296 | 1 | .17 | 54 | .08 | 32 | ND | ND | ND | ND | 13 | ND | ND | 349 |
| 0755S 2+75M | 1.9 | 3.23 | 16 | ND | 78 | ND | .07 | .4 | 9 | 52 | 13 | 2.67 | .08 | .60 | 288 | 1 | .12 | 32 | .08 | 27 | ND | ND | ND | ND | 10 | ND | ND | 241 |
| 0755S 3+00M | 1.0 | 2.74 | 10 | ND | 73 | ND | .08 | .1 | 8 | 45 | 14 | 2.86 | .11 | .54 | 394 | 1 | .11 | 20 | .10 | 27 | ND | ND | ND | ND | 11 | ND | ND | 214 |
| 0755S 3+25M | .9 | 2.19 | 11 | ND | 91 | ND | .11 | 1.0 | 8 | 38 | 13 | 3.05 | .10 | .42 | 933 | ND | .11 | 20 | .15 | 32 | ND | ND | ND | ND | 16 | ND | ND | 191 |
| 0755S 3+50M | 1.4 | 2.01 | 3 | ND | 105 | 3 | .11 | .7 | 8 | 33 | 16 | 3.28 | .08 | .39 | 461 | 2 | .12 | 15 | .10 | 27 | ND | ND | ND | ND | 15 | ND | ND | 208 |
| LI-SI 001 | 1.6 | 2.71 | 15 | ND | 131 | ND | .21 | .9 | 11 | 47 | 17 | 3.61 | .12 | .83 | 2427 | 1 | .18 | 24 | .09 | 48 | ND | ND | ND | ND | 25 | ND | ND | 328 |
| LI-SI 002 | 1.2 | 2.81 | ND | ND | 822 | 5 | .49 | 2.3 | 27 | 86 | 34 | 5.82 | .21 | 1.94 | 4704 | 1 | .22 | 48 | .32 | 43 | ND | ND | ND | ND | 70 | ND | ND | 419 |
| LI-SI 003 | 1.4 | 3.09 | 12 | ND | 132 | ND | .32 | 1.1 | 14 | 96 | 22 | 3.87 | .13 | 1.23 | 2594 | 2 | .21 | 35 | .16 | 57 | ND | ND | ND | ND | 25 | ND | ND | 372 |
| LI-SI 004 | 1.3 | 2.75 | 16 | ND | 135 | 3 | .17 | 3.5 | 13 | 61 | 22 | 3.89 | .18 | .89 | 3726 | 2 | .34 | 26 | .11 | 39 | ND | ND | ND | ND | 19 | ND | ND | 704 |
| LI-SI 005 | 2.2 | 2.29 | 36 | ND | 145 | ND | .24 | 13.7 | 11 | 41 | 23 | 4.10 | .12 | .70 | 5625 | 1 | .39 | 16 | .20 | 152 | ND | ND | ND | ND | 29 | ND | ND | 820 |
| LI-SI 006 | 2.2 | 2.52 | 26 | ND | 93 | ND | .15 | 4.3 | 10 | 33 | 20 | 4.15 | .12 | .68 | 7383 | 1 | .22 | 13 | .22 | 179 | ND | ND | 81 | ND | 16 | ND | ND | 381 |
| LI-SI 007 | .8 | 2.12 | 19 | ND | 92 | ND | .11 | 1.8 | 8 | 22 | 14 | 3.64 | .10 | .44 | 3520 | 1 | .16 | 13 | .10 | 86 | ND | ND | ND | ND | 16 | ND | ND | 272 |
| LI-SI 008 | 1.0 | 2.47 | 21 | ND | 113 | ND | .12 | 1.8 | 9 | 24 | 16 | 3.12 | .08 | .43 | 3517 | 1 | .18 | 16 | .07 | 74 | ND | ND | ND | ND | 15 | ND | ND | 350 |
| LI-SI 009 | 1.2 | 3.21 | 16 | ND | 87 | ND | .16 | 1.2 | 8 | 29 | 17 | 3.73 | .11 | .60 | 977 | 2 | .19 | 18 | .10 | 45 | ND | ND | ND | ND | 18 | ND | ND | 348 |
| LI-SI 010 | .8 | 1.78 | 21 | ND | 98 | ND | .13 | .5 | 7 | 25 | 13 | 2.82 | .07 | .41 | 2895 | ND | .14 | 16 | .07 | 54 | ND | ND | ND | ND | 20 | ND | ND | 250 |
| LI-SI 011 | 1.2 | 2.83 | 20 | ND | 88 | ND | .10 | .9 | 8 | 26 | 13 | 3.14 | .09 | .44 | 3383 | 1 | .16 | 17 | .08 | 62 | ND | ND | ND | ND | 15 | ND | ND | 294 |
| LI-SI 012 | 1.4 | 3.33 | 13 | ND | 165 | ND | .23 | 1.3 | 17 | 147 | 26 | 4.38 | .18 | 1.19 | 2366 | 2 | .17 | 45 | .19 | 32 | ND | ND | ND | ND | 27 | ND | ND | 272 |
| LI-SI 013 | 1.0 | 2.60 | 17 | ND | 83 | ND | .10 | .9 | 8 | 38 | 17 | 3.12 | .10 | .50 | 2492 | 1 | .12 | 19 | .13 | 39 | ND | ND | ND | ND | 13 | ND | ND | 197 |
| LI-SI 014 | 1.2 | 2.87 | 9 | ND | 355 | 3 | .17 | .7 | 20 | 181 | 35 | 4.11 | .16 | 1.27 | 3194 | 1 | .15 | 54 | .18 | 53 | ND | ND | ND | ND | 26 | ND | ND | 242 |
| LI-SI 015 | 1.1 | 1.92 | 16 | ND | 158 | ND | .09 | .6 | 14 | 60 | 23 | 3.61 | .10 | .63 | 2747 | 1 | .12 | 20 | .12 | 48 | ND | ND | ND | ND | 12 | ND | ND | 171 |
| LI-SI 016 | .8 | 1.83 | 21 | ND | 229 | 4 | .18 | .7 | 16 | 75 | 26 | 3.71 | .11 | .84 | 2490 | 1 | .14 | 38 | .10 | 56 | ND | ND | ND | ND | 19 | ND | ND | 196 |
| LI-SI 017 | 1.6 | 2.75 | ND | ND | 1391 | 9 | 1.26 | .3 | 41 | 239 | 74 | 5.19 | .30 | 3.36 | 1548 | ND | .13 | 149 | .53 | 45 | ND | ND | ND | ND | 258 | ND | ND | 185 |
| LI-SI 018 | 1.0 | 3.42 | 25 | ND | 208 | ND | .22 | 1.2 | 12 | 47 | 21 | 3.39 | .08 | .69 | 1351 | 1 | .16 | 31 | .11 | 57 | ND | ND | ND | ND | 27 | ND | ND | 284 |
| LI-SI 019 | 1.1 | 2.87 | 21 | ND | 125 | ND | .12 | 1.6 | 10 | 23 | 15 | 3.58 | .10 | .43 | 4334 | 1 | .15 | 16 | .13 | 92 | ND | ND | ND | ND | 17 | ND | ND | 261 |
| LI-SI 020 | 1.0 | 1.67 | 24 | ND | 120 | ND | .15 | 3.2 | 7 | 13 | 12 | 3.29 | .10 | .29 | 4592 | ND | .14 | 9 | .14 | 93 | ND | ND | ND | ND | 20 | ND | ND | 254 |
| LI-SI 021 | 1.6 | 1.67 | 12 | ND | 68 | ND | .08 | 1.5 | 5 | 14 | 9 | 2.89 | .08 | .23 | 2422 | 1 | .15 | 8 | .07 | 64 | ND | ND | ND | ND | 13 | ND | ND | 260 |
| DETECTION LIMIT | .1 | .01 | 3 | 3 | 1 | 3 | .01 | .1 | 1 | 1 | 1 | .01 | .01 | .01 | 1 | 1 | .01 | 1 | .01 | 2 | 3 | 5 | 2 | 2 | 1 | 5 | 3 | 1 |

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Work

Work

| SAMPLE NAME | AG PPH | AL I | AS PPH | AU PPH | BA PPH | BI PPH | CA I | CD PPH | CU PPH | CR PPH | CU PPH | FE I | K I | Mg I | MN PPH | MO PPH | NA I | NI PPH | P I | PB PPH | PD PPH | PT PPH | SB PPH | SH PPH | SR PPH | U PPH | V PPH | Zn PPH | |
|-----------------|-----------|---------|-----------|-----------|-----------|-----------|---------|-----------|-----------|-----------|-----------|---------|--------|---------|-----------|-----------|---------|-----------|--------|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|-----------|-----|
| L1-ST 022 | .1 | 2.01 | 6 | NO | 90 | NO | .10 | .4 | 4 | 15 | 12 | 2.61 | .06 | .25 | 1121 | 1 | .11 | 19 | .05 | 61 | NO | NO | NO | 3 | 1 | 12 | NO | NO | 174 |
| L1-ST 023 | .1 | 2.44 | 11 | NO | 123 | NO | .12 | .6 | 7 | 20 | 15 | 2.91 | .08 | .34 | 4249 | 1 | .14 | 21 | .07 | 40 | NO | NO | NO | 3 | 1 | 15 | NO | NO | 246 |
| L1-ST 024 | .1 | 2.42 | 46 | NO | 111 | 5 | .42 | 9.7 | 10 | 50 | 22 | 3.41 | .15 | .60 | 3722 | 1 | .16 | 45 | .16 | 241 | NO | NO | NO | NO | NO | 53 | 5 | NO | 470 |
| L1-ST 025 | 2.4 | 2.23 | 24 | NO | 93 | NO | .13 | 9.2 | 11 | 24 | 18 | 3.35 | .08 | .34 | 6979 | 1 | .32 | 19 | .13 | 85 | NO | NO | NO | NO | NO | 16 | NO | NO | 600 |
| L1-ST 026 | 1.7 | 2.21 | 25 | NO | 87 | NO | .10 | 6.5 | 10 | 24 | 17 | 3.51 | .07 | .37 | 6026 | 1 | .31 | 17 | .11 | 68 | NO | NO | NO | NO | NO | 15 | NO | NO | 649 |
| L1-ST 027 | .1 | 2.79 | 19 | NO | 80 | NO | .15 | .7 | 7 | 23 | 15 | 2.87 | .08 | .50 | 1393 | 1 | .13 | 18 | .08 | 36 | NO | NO | NO | 3 | NO | 18 | 3 | NO | 223 |
| L1-ST 028 | .1 | 2.64 | 13 | NO | 87 | NO | .10 | .9 | 8 | 19 | 18 | 3.11 | .07 | .35 | 1954 | 1 | .13 | 15 | .07 | 51 | NO | NO | NO | 4 | NO | 13 | NO | NO | 263 |
| L1-ST 029 | .1 | 2.42 | 13 | NO | 75 | 5 | .09 | .9 | 8 | 18 | 13 | 2.97 | .07 | .34 | 2191 | 1 | .12 | 12 | .07 | 46 | NO | NO | NO | 4 | NO | 12 | 3 | NO | 190 |
| L1-ST 030 | .3 | 2.90 | 27 | NO | 66 | 3 | .16 | .5 | 7 | 20 | 15 | 3.55 | .08 | .50 | 1555 | 1 | .16 | 14 | .10 | 36 | NO | NO | NO | NO | NO | 24 | NO | NO | 250 |
| L1-ST 031 | .1 | 2.40 | 19 | NO | 81 | NO | .09 | 1.8 | 7 | 29 | 14 | 2.91 | .07 | .46 | 2419 | NO | .18 | 19 | .09 | 48 | NO | NO | NO | NO | NO | 15 | NO | NO | 356 |
| L1-ST 032 | 1.5 | 2.12 | 24 | NO | 87 | NO | .13 | 3.5 | 10 | 50 | 15 | 3.30 | .07 | .56 | 4113 | NO | .23 | 26 | .10 | 126 | NO | NO | NO | NO | NO | 15 | NO | NO | 433 |
| L1-ST 033 | .5 | 2.41 | 20 | NO | 160 | 3 | .24 | 3.2 | 10 | 30 | 16 | 3.95 | .09 | .55 | 5040 | NO | .23 | 22 | .13 | 122 | NO | NO | NO | NO | NO | 30 | NO | NO | 482 |
| L1-ST 034 | .3 | 2.22 | 24 | NO | 91 | NO | .10 | 1.5 | 8 | 19 | 17 | 4.04 | .06 | .32 | 3007 | 1 | .18 | 14 | .11 | 101 | NO | NO | NO | NO | NO | 14 | NO | NO | 266 |
| L1-ST 035 | .1 | 2.75 | 17 | NO | 88 | NO | .16 | 4.3 | 10 | 19 | 17 | 3.45 | .09 | .37 | 3826 | 1 | .21 | 15 | .14 | 93 | NO | NO | NO | NO | NO | 18 | 4 | NO | 421 |
| L1-ST 036 | .1 | 2.20 | 37 | NO | 62 | NO | .08 | 2.4 | 8 | 18 | 17 | 3.66 | .07 | .36 | 1952 | 1 | .25 | 13 | .11 | 53 | NO | NO | NO | NO | NO | 12 | NO | NO | 464 |
| L1-ST 037 | .1 | 2.66 | 20 | NO | 77 | NO | .07 | 2.2 | 9 | 20 | 18 | 3.57 | .08 | .38 | 2134 | 1 | .24 | 16 | .08 | 72 | NO | NO | NO | NO | NO | 10 | NO | NO | 477 |
| L1-ST 038 | .3 | .59 | 4 | NO | 83 | 3 | .24 | 2.5 | 3 | 10 | 14 | 1.05 | .06 | .12 | 1828 | NO | .04 | 6 | .07 | 180 | NO | NO | NO | 5 | NO | 18 | 6 | 3 | 188 |
| L1-ST 039 | .1 | 2.02 | 14 | NO | 92 | NO | .17 | .8 | 10 | 27 | 26 | 2.93 | .07 | .56 | 2398 | 1 | .13 | 20 | .13 | 42 | NO | NO | NO | NO | NO | 19 | NO | NO | 285 |
| L1-ST 040 | .1 | 2.15 | 51 | NO | 102 | NO | .23 | 1.1 | 13 | 33 | 32 | 4.05 | .07 | .50 | 2649 | 4 | .21 | 36 | .17 | 45 | NO | NO | NO | NO | NO | 22 | NO | NO | 326 |
| L1-ST 041 | .2 | 1.97 | 31 | NO | 131 | NO | .20 | 4.5 | 22 | 30 | 37 | 3.40 | .09 | .53 | 6004 | 4 | .17 | 31 | .18 | 78 | NO | NO | NO | NO | NO | 22 | NO | NO | 317 |
| L1-ST 042 | .1 | 1.69 | 18 | NO | 143 | NO | .37 | 1.7 | 15 | 38 | 34 | 3.10 | .07 | .62 | 2526 | 4 | .16 | 51 | .08 | 89 | NO | NO | NO | NO | NO | 33 | NO | NO | 253 |
| L1-ST 043 | .3 | 2.31 | 18 | NO | 60 | NO | .19 | .7 | 13 | 33 | 30 | 3.40 | .07 | .61 | 1890 | 5 | .20 | 49 | .11 | 48 | NO | NO | NO | NO | NO | 18 | NO | NO | 331 |
| L1-ST 044 | .3 | 1.78 | 20 | NO | 47 | 4 | .23 | 1.1 | 13 | 23 | 43 | 3.06 | .07 | .50 | 1475 | 3 | .17 | 51 | .13 | 65 | NO | NO | NO | 4 | NO | 21 | NO | NO | 500 |
| L1-ST 045 | .8 | 1.97 | 29 | NO | 65 | NO | .32 | 1.5 | 15 | 19 | 37 | 3.33 | .07 | .63 | 2456 | 2 | .20 | 40 | .22 | 100 | NO | NO | NO | NO | NO | 26 | NO | NO | 328 |
| L1-ST 046 | .8 | 1.53 | 31 | NO | 60 | NO | .29 | 1.7 | 20 | 23 | 41 | 3.23 | .06 | .52 | 2460 | 2 | .18 | 38 | .18 | 117 | NO | NO | NO | 4 | NO | 25 | NO | NO | 300 |
| L1-ST 047 | .5 | 1.94 | 24 | NO | 83 | NO | .45 | 2.0 | 22 | 20 | 30 | 3.68 | .08 | .84 | 2627 | 2 | .22 | 34 | .17 | 163 | NO | NO | NO | NO | NO | 33 | NO | NO | 360 |
| L1-ST 048 | .2 | 2.67 | 20 | NO | 49 | NO | .42 | .1 | 14 | 20 | 30 | 4.17 | .08 | .96 | 907 | 2 | .20 | 37 | .14 | 73 | NO | NO | NO | NO | NO | 38 | NO | NO | 275 |
| L1-ST 049 | .4 | 1.29 | 18 | NO | 89 | NO | .29 | 2.0 | 19 | 20 | 31 | 3.29 | .04 | .55 | 2652 | 2 | .16 | 19 | .09 | 132 | NO | NO | NO | 4 | NO | 20 | NO | NO | 218 |
| L1-ST 050 | 2.8 | 1.54 | 35 | NO | 228 | NO | .32 | 15.1 | 27 | 17 | 83 | 4.00 | .06 | .56 | 12520 | 3 | .37 | 42 | .19 | 239 | NO | NO | NO | NO | NO | 18 | NO | NO | 743 |
| L1-ST 051 | .6 | 1.50 | 21 | NO | 81 | NO | .31 | 5.8 | 22 | 18 | 82 | 3.22 | .04 | .55 | 3766 | 3 | .22 | 47 | .16 | 101 | NO | NO | NO | NO | NO | 19 | NO | NO | 384 |
| L1-ST 052 | 2.3 | 1.85 | 7 | NO | 72 | NO | .30 | 3.4 | 35 | 16 | 83 | 2.88 | .06 | .43 | 3908 | 3 | .20 | 33 | .18 | 201 | NO | NO | NO | NO | NO | 18 | NO | NO | 384 |
| L1-ST 053 | .7 | 1.46 | 20 | NO | 59 | NO | .20 | 2.3 | 21 | 17 | 55 | 3.04 | .05 | .50 | 3455 | 3 | .15 | 19 | .17 | 206 | NO | NO | NO | NO | NO | 14 | NO | NO | 244 |
| L1-ST 054 | 2.2 | 1.76 | 21 | NO | 68 | NO | .17 | 1.2 | 14 | 20 | 80 | 3.75 | .05 | .56 | 2412 | 4 | .17 | 24 | .16 | 116 | NO | NO | NO | NO | NO | 15 | NO | NO | 239 |
| L1-ST 055 | 2.8 | 1.11 | 13 | NO | 35 | 3 | .15 | .9 | 8 | 18 | 99 | 4.23 | .05 | .54 | 1875 | 2 | .15 | 17 | .10 | 90 | NO | NO | NO | 3 | NO | 13 | NO | NO | 151 |
| L1-ST 056 | .4 | 1.34 | 43 | NO | 25 | NO | .23 | .5 | 10 | 16 | 49 | 2.65 | .07 | .46 | 579 | 2 | .11 | 28 | .11 | 70 | NO | NO | NO | 5 | NO | 19 | 9 | NO | 172 |
| L1-ST 01 | .1 | 2.25 | 12 | 3 | 269 | NO | .21 | 1.6 | 16 | 55 | 25 | 4.19 | .12 | 1.02 | 4778 | 1 | .20 | 40 | .20 | 70 | NO | NO | NO | NO | NO | 29 | 3 | NO | 317 |
| L1-ST 02 54H | .1 | 3.02 | 16 | 4 | 162 | 4 | .18 | .5 | 16 | 67 | 27 | 3.69 | .11 | 1.15 | 1192 | 1 | .15 | 58 | .13 | 47 | NO | NO | NO | NO | NO | 34 | 3 | NO | 233 |
| L1-ST 03 26H | .1 | 3.29 | NO | 5 | 1027 | 7 | 1.61 | .4 | 35 | 164 | 63 | 4.99 | .30 | 3.46 | 1299 | NO | .07 | 168 | .71 | 26 | NO | NO | NO | NO | NO | 481 | NO | NO | 169 |
| L1-ST 04 36H | 1.0 | 1.78 | 95 | NO | 105 | NO | .14 | 3.0 | 8 | 19 | 16 | 2.92 | .10 | .37 | 3384 | NO | .18 | 16 | .11 | 125 | NO | NO | NO | 3 | NO | 24 | 8 | NO | 350 |
| DETECTION LIMIT | .1 | .01 | 3 | 3 | 1 | 3 | .01 | .1 | 1 | 1 | 1 | .01 | .01 | .01 | 1 | 1 | .01 | 1 | .01 | 2 | 3 | 5 | 2 | 2 | 1 | 5 | 3 | 1 | |

| SAMPLE NAME | AS PPM | AL I | AS PPM | AU PPM | BA PPM | BI PPM | CA I | CD PPM | CO PPM | CR PPM | CU PPM | FE I | K I | MG I | NH PPM | NO PPM | NA I | NI PPM | P I | PB PPM | PD PPM | PT PPM | SD PPM | SH PPM | SR PPM | U PPM | V PPM | ZN PPM |
|-----------------|-----------|---------|-----------|-----------|-----------|-----------|---------|-----------|-----------|-----------|-----------|---------|--------|---------|-----------|-----------|---------|-----------|--------|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|-----------|
| LI-ST 05 79H | .9 | 1.43 | 75 | ND | 48 | 4 | .07 | 2.2 | 4 | 11 | 10 | 2.32 | .09 | .21 | 686 | 2 | .09 | 18 | .09 | 318 | ND | ND | 6 | ND | 9 | 4 | ND | 183 |
| LI-ST 06 105H | .6 | 1.98 | 66 | ND | 50 | ND | .07 | 1.2 | 7 | 13 | 10 | 2.28 | .00 | .28 | 2865 | 2 | .14 | 16 | .10 | 147 | ND | ND | ND | ND | 8 | ND | ND | 281 |
| LI-ST 07 130H | .7 | 1.57 | 36 | ND | 55 | 4 | .07 | 3.2 | 7 | 15 | 10 | 2.30 | .08 | .23 | 2331 | 2 | .11 | 16 | .10 | 91 | ND | ND | 4 | ND | 9 | 5 | ND | 211 |
| LI-ST 08 157H | .2 | 1.59 | 42 | ND | 99 | ND | .08 | 1.9 | 7 | 16 | 9 | 2.60 | .08 | .30 | 4373 | 2 | .17 | 15 | .10 | 175 | ND | ND | ND | ND | 10 | ND | ND | 331 |
| LI-ST 09 185H | .1 | 1.69 | 21 | ND | 55 | 3 | .08 | .9 | 5 | 12 | 7 | 2.03 | .05 | .24 | 1441 | 1 | .11 | 13 | .06 | 81 | ND | ND | ND | 1 | 9 | ND | ND | 202 |
| LI-ST 010 209H | .1 | 1.71 | 23 | ND | 80 | ND | .06 | 1.4 | 6 | 14 | 7 | 2.36 | .04 | .26 | 3924 | 1 | .12 | 14 | .08 | 60 | ND | ND | ND | 1 | 9 | ND | ND | 212 |
| LI-ST 011 238H | .1 | 1.74 | 34 | ND | 61 | ND | .07 | 1.0 | 6 | 13 | 8 | 2.48 | .06 | .31 | 2515 | 2 | .12 | 12 | .10 | 99 | ND | ND | ND | ND | 9 | ND | ND | 224 |
| LI-ST 012 266H | .1 | 2.46 | 21 | ND | 57 | ND | .07 | .9 | 5 | 11 | 7 | 2.31 | .01 | .27 | 1635 | 1 | .13 | 11 | .08 | 54 | ND | ND | ND | 2 | 9 | ND | ND | 226 |
| LI-ST 013 294H | .1 | 1.59 | 15 | ND | 68 | ND | .05 | .6 | 4 | 14 | 3 | 2.13 | .03 | .27 | 2303 | 1 | .10 | 11 | .05 | 29 | ND | ND | ND | ND | 9 | ND | ND | 170 |
| LI-ST 014 327H | .1 | 1.80 | 15 | ND | 48 | ND | .04 | .5 | 5 | 12 | 6 | 2.26 | .04 | .25 | 729 | 1 | .09 | 11 | .04 | 24 | ND | ND | ND | ND | 6 | ND | ND | 128 |
| LI-ST 015 | .1 | 1.82 | 21 | ND | 57 | ND | .08 | .7 | 4 | 11 | 4 | 1.98 | .02 | .23 | 978 | 1 | .10 | 9 | .05 | 41 | ND | ND | ND | 1 | 11 | ND | ND | 179 |
| LI-ST 016 | .1 | 1.90 | 16 | ND | 70 | ND | .07 | .2 | 6 | 13 | 6 | 2.81 | .04 | .26 | 1883 | 2 | .12 | 12 | .05 | 61 | ND | ND | ND | ND | 10 | ND | ND | 175 |
| LI-ST 017 | .1 | 1.95 | 15 | ND | 56 | ND | .06 | .6 | 6 | 14 | 10 | 2.30 | .04 | .28 | 3088 | 1 | .09 | 10 | .13 | 25 | ND | ND | ND | 1 | 9 | ND | ND | 153 |
| LI-ST 018 | .1 | 2.21 | 10 | ND | 55 | ND | .06 | .5 | 6 | 15 | 12 | 2.29 | .03 | .29 | 2533 | 1 | .10 | 11 | .09 | 29 | ND | ND | ND | 2 | 8 | ND | ND | 158 |
| LI-ST 019 | .1 | 1.49 | 11 | ND | 68 | ND | .06 | .1 | 5 | 12 | 5 | 2.06 | .02 | .26 | 3179 | ND | .09 | 6 | .09 | 18 | ND | ND | ND | ND | 10 | ND | ND | 122 |
| LI-ST 020 | .1 | 1.94 | 17 | ND | 61 | ND | .06 | .5 | 7 | 18 | 8 | 2.46 | .04 | .35 | 3012 | ND | .12 | 13 | .12 | 66 | ND | ND | ND | 1 | 10 | ND | ND | 196 |
| LI-ST 021 | .1 | 1.94 | 53 | ND | 102 | ND | .81 | 7.5 | 6 | 24 | 10 | 2.39 | .09 | .40 | 3135 | ND | .12 | 16 | .14 | 107 | ND | ND | ND | 2 | 122 | ND | ND | 426 |
| LI-ST 022 | .1 | 1.31 | 14 | ND | 75 | ND | .16 | 1.8 | 6 | 15 | 5 | 1.85 | .06 | .29 | 2127 | 1 | .06 | 10 | .06 | 44 | ND | ND | ND | ND | 26 | ND | ND | 154 |
| LI-ST 023 | .1 | 2.30 | 19 | ND | 76 | ND | .16 | .6 | 7 | 29 | 15 | 2.61 | .05 | .55 | 548 | 2 | .12 | 23 | .06 | 22 | ND | ND | ND | 2 | 21 | ND | ND | 228 |
| LI-ST 024 | .1 | 1.49 | 21 | ND | 66 | ND | .07 | .9 | 6 | 16 | 5 | 2.23 | .01 | .29 | 675 | 1 | .09 | 11 | .03 | 24 | ND | ND | ND | ND | 10 | ND | ND | 137 |
| LI-ST 025 | .1 | 2.47 | 11 | ND | 62 | ND | .10 | .4 | 7 | 20 | 14 | 2.38 | .04 | .37 | 1741 | 2 | .12 | 29 | .11 | 19 | ND | ND | ND | 1 | 10 | ND | ND | 192 |
| LI-ST 026 | .1 | 2.50 | 14 | ND | 49 | ND | .09 | .3 | 7 | 21 | 13 | 2.35 | .04 | .37 | 869 | 2 | .10 | 21 | .08 | 17 | ND | ND | ND | ND | 11 | ND | ND | 173 |
| LI-ST 027 | .2 | 2.33 | 8 | ND | 62 | ND | .06 | .1 | 6 | 19 | 11 | 2.80 | .04 | .27 | 597 | 2 | .09 | 14 | .06 | 7 | ND | ND | ND | ND | 9 | ND | ND | 115 |
| LI-ST 028 | .1 | 1.99 | 18 | ND | 63 | ND | .10 | .6 | 7 | 34 | 13 | 2.47 | .04 | .54 | 986 | 1 | .10 | 24 | .09 | 44 | ND | ND | ND | 1 | 15 | ND | ND | 160 |
| LI-ST 029 | .1 | 1.88 | 16 | ND | 57 | ND | .06 | .4 | 6 | 15 | 9 | 2.49 | .04 | .33 | 2703 | 1 | .08 | 13 | .14 | 82 | ND | ND | ND | 1 | 9 | ND | ND | 142 |
| LI-ST 030 | .1 | 1.68 | 9 | ND | 67 | ND | .05 | .1 | 5 | 11 | 7 | 2.33 | .02 | .26 | 2895 | ND | .08 | 11 | .11 | 19 | ND | ND | ND | 2 | 8 | ND | ND | 134 |
| LI-ST 031 | .1 | 2.85 | 96 | ND | 101 | ND | .53 | 10.1 | 6 | 12 | 10 | 2.39 | .13 | .30 | 3575 | 1 | .13 | 11 | .14 | 197 | ND | ND | ND | 1 | 97 | 4 | ND | 508 |
| LI-ST 032 | .3 | 2.49 | 49 | ND | 159 | ND | .47 | 2.9 | 8 | 25 | 8 | 2.99 | .19 | .57 | 2847 | 2 | .01 | 19 | .10 | 40 | ND | ND | ND | 2 | 91 | 16 | ND | 266 |
| LI-ST 033 | .1 | 2.27 | 27 | ND | 61 | ND | .12 | .9 | 7 | 24 | 8 | 2.53 | .07 | .46 | 704 | 2 | .11 | 18 | .04 | 31 | ND | ND | ND | ND | 17 | ND | ND | 282 |
| LI-ST 034 | .3 | 1.69 | 20 | ND | 47 | ND | .06 | .7 | 6 | 18 | 6 | 2.48 | .08 | .32 | 923 | 1 | .10 | 13 | .05 | 41 | ND | ND | ND | ND | 10 | ND | ND | 177 |
| LI-ST 035 | .2 | 1.14 | 58 | ND | 202 | ND | .28 | 7.1 | 9 | 12 | 13 | 2.54 | .10 | .22 | 5192 | 1 | .16 | 10 | .07 | 319 | ND | ND | 6 | ND | 36 | ND | ND | 356 |
| LI-ST 036 | .5 | 1.46 | 21 | ND | 85 | ND | .13 | 1.2 | 10 | 23 | 12 | 2.96 | .10 | .43 | 1871 | 4 | .16 | 21 | .06 | 33 | ND | ND | 4 | ND | 15 | 4 | ND | 298 |
| LI-ST 037 | .7 | 1.49 | 28 | ND | 185 | 4 | .15 | 2.5 | 12 | 19 | 19 | 3.30 | .12 | .28 | 5314 | 5 | .13 | 18 | .10 | 70 | ND | ND | 8 | ND | 12 | 13 | ND | 232 |
| 1+S05 0+00H | .3 | 4.25 | ND | ND | 86 | 3 | .09 | .7 | 11 | 107 | 38 | 3.86 | .05 | .76 | 683 | 2 | .17 | 67 | .13 | 1 | ND | ND | ND | ND | 18 | ND | ND | 260 |
| 1+S05 0+22.5H | .2 | 1.92 | 7 | ND | 103 | 4 | .12 | .6 | 7 | 22 | 7 | 3.15 | .06 | .28 | 1700 | 1 | .10 | 12 | .10 | 21 | ND | ND | ND | ND | 18 | ND | ND | 125 |
| 1+S05 0+25H | .1 | 3.88 | 7 | ND | 49 | ND | .05 | .3 | 6 | 20 | 10 | 2.95 | .03 | .21 | 413 | 2 | .09 | 8 | .12 | 1 | ND | ND | ND | 1 | 6 | ND | ND | 99 |
| 1+S05 0+37.5H | .3 | 1.14 | 4 | ND | 37 | ND | .04 | .3 | 4 | 11 | 3 | 1.50 | .05 | .12 | 180 | 1 | .02 | 4 | .03 | 12 | ND | ND | 4 | ND | 6 | ND | 5 | 51 |
| 1+S05 0+50H | .4 | 2.85 | 4 | ND | 52 | 4 | .07 | .4 | 5 | 15 | 7 | 2.44 | .05 | .15 | 152 | 2 | .06 | 9 | .06 | 12 | ND | ND | ND | ND | 7 | ND | ND | 66 |
| 1+S05 0+62.5H | .6 | 2.41 | 8 | ND | 83 | 3 | .07 | 1.1 | 9 | 34 | 11 | 3.00 | .07 | .39 | 488 | 1 | .07 | 17 | .09 | 16 | ND | ND | ND | ND | 13 | 4 | ND | 108 |
| DETECTION LIMIT | .1 | .01 | 3 | 3 | 1 | 3 | .01 | .1 | 1 | 1 | 1 | .01 | .01 | .01 | 1 | 1 | .01 | 1 | .01 | 2 | 3 | 5 | 2 | 2 | 1 | 5 | 3 | 1 |

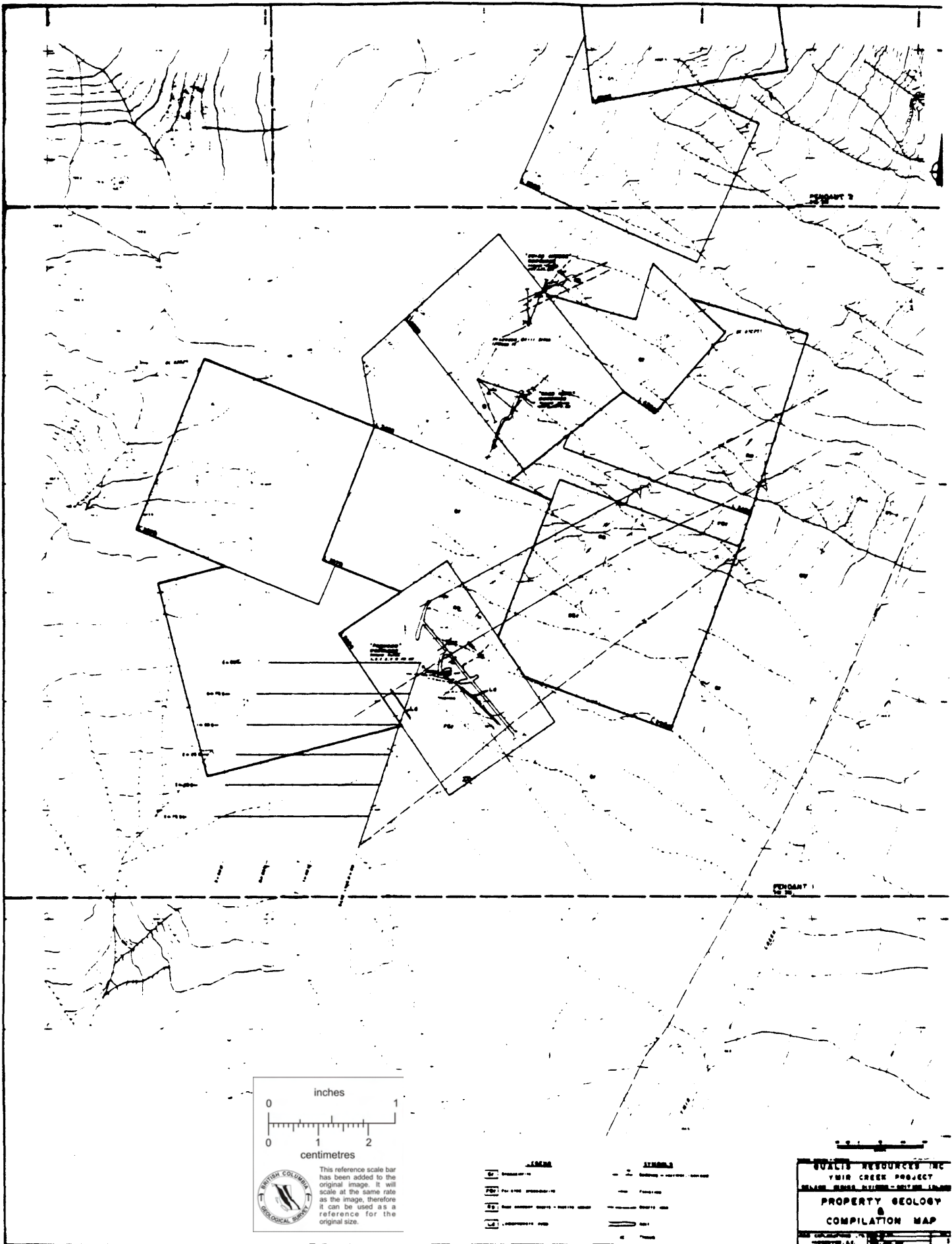
| SAMPLE NAME | AS PPM | AL I | AS PPM | AU PPM | BA PPM | BI PPM | CA I | CO PPM | CO PPM | CR PPM | CU PPM | FE I | K I | MG I | MM PPM | MO PPM | NA I | NI PPM | P I | PB PPM | PB PPM | PI PPM | SB PPM | SM PPM | SR PPM | U PPM | V PPM | Zn PPM |
|-----------------|--------|------|--------|--------|--------|--------|------|--------|--------|--------|--------|------|-----|------|--------|--------|------|--------|-----|--------|--------|--------|--------|--------|--------|-------|-------|--------|
| 1-505 0+75M | .2 | 2.50 | ND | ND | 103 | ND | .11 | .3 | 11 | 105 | 22 | 3.57 | .06 | .93 | 461 | 2 | .13 | 40 | .11 | 11 | ND | ND | ND | ND | 12 | ND | ND | 141 |
| 1-505 0+87.5M | .1 | 2.47 | ND | ND | 64 | ND | .05 | .1 | 6 | 24 | 13 | 3.00 | .03 | .29 | 250 | 1 | .00 | 15 | .07 | 7 | ND | ND | ND | ND | 7 | ND | ND | 94 |
| 1-505 1+60M | .1 | 2.62 | ND | ND | 84 | ND | .13 | .4 | 8 | 32 | 13 | 3.02 | .07 | .32 | 379 | 2 | .10 | 15 | .11 | 9 | ND | ND | ND | ND | 21 | ND | ND | 130 |
| 1-505 1+12.5M | .6 | 1.52 | 5 | ND | 43 | ND | .05 | .2 | 6 | 19 | 12 | 2.49 | .00 | .22 | 179 | 2 | .05 | 12 | .04 | 10 | ND | ND | 3 | ND | 7 | ND | ND | 73 |
| 1-505 1+25M | .4 | 3.17 | 3 | ND | 75 | ND | .07 | .1 | 7 | 24 | 14 | 2.84 | .00 | .30 | 309 | 2 | .00 | 16 | .00 | 6 | ND | ND | ND | ND | 9 | ND | ND | 126 |
| 1-505 1+37.5M | .4 | 2.36 | ND | ND | 39 | ND | .04 | .1 | 5 | 19 | 12 | 2.25 | .00 | .17 | 146 | 2 | .05 | 8 | .06 | 15 | ND | ND | ND | ND | 5 | ND | ND | 73 |
| 1-50M 1+50M | .4 | 5.20 | ND | ND | 40 | ND | .04 | .4 | 5 | 18 | 12 | 2.84 | .00 | .11 | 442 | 3 | .06 | 7 | .13 | ND | ND | ND | ND | ND | 4 | ND | ND | 66 |
| 1-50M 1+62.5M | .8 | 2.50 | 6 | ND | 56 | ND | .04 | .1 | 8 | 57 | 14 | 3.65 | .11 | .34 | 205 | 3 | .00 | 15 | .11 | 13 | ND | ND | ND | ND | 6 | ND | ND | 90 |
| 1-50M 1+75M | .6 | 3.44 | 6 | ND | 40 | ND | .04 | .1 | 7 | 39 | 12 | 3.15 | .00 | .32 | 221 | 3 | .00 | 20 | .00 | 5 | ND | ND | ND | ND | 6 | ND | ND | 104 |
| 1-50M 1+87.5M | .4 | 1.37 | ND | ND | 50 | ND | .04 | .1 | 5 | 21 | 8 | 2.54 | .00 | .20 | 267 | 1 | .05 | 10 | .05 | 14 | ND | ND | 3 | ND | 6 | ND | ND | 65 |
| 1-50M 2+00M | .7 | 3.06 | 5 | ND | 57 | ND | .04 | .3 | 7 | 45 | 14 | 2.54 | .10 | .44 | 207 | 2 | .00 | 22 | .00 | 15 | ND | ND | ND | ND | 7 | ND | ND | 155 |
| 1-50M 2+12.5M | .2 | 1.06 | ND | ND | 54 | ND | .04 | .1 | 5 | 27 | 9 | 2.11 | .06 | .27 | 316 | 1 | .07 | 13 | .05 | 9 | ND | ND | ND | ND | 6 | ND | ND | 109 |
| 1-50M 2+25M | .1 | 2.03 | ND | ND | 51 | ND | .04 | .1 | 7 | 40 | 12 | 2.70 | .06 | .30 | 260 | 1 | .10 | 19 | .10 | 3 | ND | ND | ND | ND | 7 | ND | ND | 141 |
| 1-50M 2+37.5M | .1 | 1.62 | ND | ND | 62 | ND | .05 | .2 | 5 | 28 | 7 | 2.24 | .00 | .32 | 340 | 1 | .06 | 13 | .07 | 14 | ND | ND | ND | ND | 8 | ND | ND | 109 |
| 1-50M 2+50M | .2 | 2.75 | 3 | ND | 50 | ND | .05 | .4 | 6 | 34 | 9 | 2.47 | .00 | .40 | 206 | 2 | .00 | 10 | .00 | 10 | ND | ND | ND | ND | 8 | ND | ND | 146 |
| 1-50M 2+62.5M | .1 | 2.59 | ND | ND | 69 | ND | .06 | .3 | 8 | 43 | 10 | 2.57 | .00 | .46 | 546 | 2 | .11 | 24 | .00 | 14 | ND | ND | ND | ND | 8 | ND | ND | 192 |
| 1-50M 2+75M | .2 | 2.37 | 3 | ND | 82 | ND | .00 | .6 | 9 | 57 | 11 | 2.41 | .12 | .60 | 490 | 2 | .11 | 32 | .00 | 16 | ND | ND | ND | ND | 11 | ND | ND | 220 |
| 1-50M 2+87.5M | .4 | 1.73 | 4 | ND | 70 | ND | .10 | .6 | 8 | 43 | 8 | 2.50 | .11 | .44 | 645 | 1 | .11 | 23 | .00 | 21 | ND | ND | ND | ND | 13 | ND | ND | 199 |
| 1-50M 3+00M | .4 | 1.82 | 6 | ND | 79 | ND | .22 | 2.7 | 9 | 72 | 12 | 2.74 | .15 | .44 | 2245 | 2 | .00 | 22 | .00 | 30 | ND | ND | ND | ND | 43 | 3 | ND | 205 |
| 1-50M 3+12.5M | .1 | 1.66 | ND | ND | 86 | ND | .00 | .5 | 7 | 36 | 12 | 2.61 | .00 | .35 | 570 | 1 | .10 | 17 | .00 | 17 | ND | ND | ND | ND | 14 | ND | ND | 160 |
| 1-50M 3+25M | .2 | 1.79 | 6 | ND | 73 | ND | .20 | .6 | 8 | 26 | 12 | 2.47 | .13 | .43 | 1644 | 2 | .03 | 23 | .07 | 9 | ND | ND | ND | ND | 34 | ND | ND | 120 |
| 1-50M 3+37.5M | .4 | 2.41 | ND | ND | 50 | ND | .10 | .4 | 7 | 22 | 13 | 2.62 | .12 | .34 | 304 | 2 | .04 | 16 | .04 | 9 | ND | ND | ND | ND | 16 | ND | ND | 110 |
| 1-50M 3+50M | .2 | 2.13 | ND | ND | 70 | ND | .00 | .1 | 8 | 23 | 14 | 3.11 | .11 | .40 | 530 | 2 | .00 | 15 | .05 | 10 | ND | ND | ND | ND | 14 | ND | ND | 131 |
| L2-ST 1 | .1 | 1.89 | 8 | ND | 394 | ND | .55 | 4.4 | 12 | 30 | 21 | 3.29 | .16 | .90 | 4419 | 1 | .13 | 33 | .16 | 122 | ND | ND | ND | ND | 76 | ND | ND | 265 |
| L2-ST 2 | .1 | 3.20 | ND | 3 | 936 | ND | .76 | .6 | 37 | 97 | 57 | 5.16 | .26 | 3.04 | 1300 | 2 | .00 | 96 | .40 | 61 | ND | ND | ND | ND | 123 | ND | ND | 171 |
| L2-ST 3 | .4 | 2.45 | 8 | ND | 240 | ND | .13 | .4 | 13 | 33 | 19 | 3.25 | .15 | .86 | 1943 | 2 | .13 | 35 | .16 | 57 | ND | ND | ND | ND | 19 | ND | ND | 215 |
| L2-ST 4 | .4 | 2.75 | 4 | ND | 232 | ND | .17 | .4 | 21 | 103 | 25 | 4.12 | .13 | 1.67 | 1613 | 3 | .16 | 70 | .20 | 34 | ND | ND | ND | ND | 20 | ND | ND | 189 |
| L2-ST 5 | .4 | 1.87 | 19 | ND | 70 | ND | .07 | 1.2 | 7 | 16 | 11 | 2.40 | .13 | .32 | 2815 | 2 | .10 | 13 | .11 | 76 | ND | ND | 3 | ND | 10 | ND | ND | 203 |
| L2-ST 6 | .4 | 2.25 | 22 | ND | 70 | ND | .00 | .8 | 8 | 16 | 14 | 2.24 | .14 | .32 | 1671 | 3 | .00 | 16 | .13 | 47 | ND | ND | ND | ND | 12 | 3 | ND | 175 |
| L2-ST 7 | .2 | 1.79 | 20 | ND | 75 | ND | .00 | .5 | 7 | 16 | 12 | 2.32 | .11 | .32 | 2400 | 3 | .10 | 13 | .07 | 32 | ND | ND | ND | ND | 13 | ND | ND | 202 |
| L2-ST 8 | .1 | 2.00 | 36 | ND | 60 | ND | .59 | 0.6 | 7 | 19 | 11 | 2.27 | .12 | .36 | 2155 | 2 | .20 | 14 | .00 | 40 | ND | ND | ND | ND | 120 | ND | ND | 483 |
| L2-ST 9 | .4 | 1.77 | 17 | ND | 63 | ND | .11 | 1.1 | 8 | 21 | 15 | 2.37 | .12 | .43 | 1376 | 3 | .11 | 19 | .05 | 32 | ND | ND | ND | ND | 14 | ND | ND | 215 |
| L2-ST 10 | .1 | 1.60 | 25 | ND | 101 | ND | .14 | 1.2 | 8 | 18 | 17 | 2.33 | .00 | .36 | 2541 | 2 | .12 | 17 | .07 | 29 | ND | ND | ND | ND | 17 | ND | ND | 210 |
| L2-ST 11 | .1 | 1.97 | 13 | ND | 59 | ND | .07 | 1.1 | 8 | 18 | 14 | 2.40 | .11 | .36 | 2541 | 2 | .10 | 13 | .10 | 40 | ND | ND | ND | ND | 10 | ND | ND | 197 |
| L2-ST 12 | .4 | 2.16 | 44 | ND | 54 | ND | .29 | 6.3 | 8 | 24 | 15 | 2.50 | .11 | .53 | 1167 | 2 | .16 | 23 | .06 | 29 | ND | ND | ND | ND | 60 | ND | ND | 256 |
| L2-ST 13 | .1 | 1.60 | 15 | ND | 92 | ND | .07 | 1.1 | 8 | 15 | 16 | 2.47 | .10 | .29 | 4471 | 2 | .11 | 12 | .11 | 40 | ND | ND | ND | ND | 11 | ND | ND | 217 |
| L2-ST 14 | .4 | 1.77 | 15 | ND | 56 | ND | .00 | .6 | 8 | 19 | 15 | 2.54 | .12 | .40 | 1007 | 3 | .10 | 16 | .00 | 33 | ND | ND | ND | ND | 13 | ND | ND | 189 |
| L2-ST 15 | .1 | 1.62 | 14 | ND | 70 | ND | .00 | 2.5 | 8 | 17 | 12 | 2.24 | .12 | .40 | 3235 | 2 | .06 | 14 | .00 | 44 | ND | ND | ND | ND | 14 | ND | ND | 219 |
| L2-ST 16 | .6 | 1.40 | 10 | 5 | 50 | ND | .06 | .2 | 6 | 16 | 11 | 2.37 | .10 | .32 | 967 | 2 | .00 | 14 | .05 | 22 | ND | ND | ND | ND | 10 | ND | 3 | 157 |
| DETECTION LIMIT | .1 | .01 | 3 | 3 | 1 | 3 | .01 | .1 | 1 | 1 | 1 | .01 | .01 | .01 | 1 | 1 | .01 | 1 | .01 | 2 | 3 | 5 | 2 | 2 | 1 | 5 | 3 | 1 |

| SAMPLE NAME | AG PPH | AL I | AS PPH | AU PPH | BA PPH | BI PPH | LA I | CO PPH | CO PPH | CR PPH | CU PPH | FE I | K I | MG I | NH PPH | NO PPH | NA I | NI PPH | P I | PB PPH | PB PPH | PI PPH | SO PPH | SH PPH | SR PPH | U PPH | U PPH | ZN PPH |
|-----------------|-----------|---------|-----------|-----------|-----------|-----------|---------|-----------|-----------|-----------|-----------|---------|--------|---------|-----------|-----------|---------|-----------|--------|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|-----------|
| L2-ST 17 | .5 | 1.70 | 16 | NO | 66 | NO | .09 | 1.0 | 6 | 16 | 10 | 2.52 | .06 | .24 | 415 | NO | .00 | 20 | .03 | 29 | NO | NO | 4 | NO | 11 | NO | NO | 124 |
| L2-ST 18 | .7 | 1.91 | 16 | NO | 46 | NO | .13 | .9 | 7 | 19 | 10 | 2.50 | .00 | .46 | 924 | 1 | .10 | 22 | .00 | 30 | NO | NO | NO | NO | 16 | NO | NO | 164 |
| L2-ST 19 | .1 | 2.45 | 13 | NO | 63 | NO | .12 | .9 | 13 | 25 | 23 | 2.94 | .00 | .59 | 2495 | 1 | .13 | 25 | .14 | 27 | NO | NO | NO | NO | 14 | NO | NO | 205 |
| L2-ST 20 | .9 | 1.95 | 34 | NO | 65 | NO | .10 | .7 | 10 | 21 | 30 | 3.76 | .00 | .57 | 2343 | 3 | .24 | 29 | .10 | 624 | NO | NO | NO | NO | 15 | NO | NO | 417 |
| L2-ST 21 | .1 | 2.79 | 3 | NO | 103 | NO | .35 | 2.5 | 25 | 50 | 29 | 3.33 | .16 | 1.27 | 1853 | NO | .10 | 30 | .14 | 77 | NO | NO | NO | 2 | 54 | NO | NO | 340 |
| L2-ST 22 | .5 | 2.41 | 6 | NO | 73 | NO | .19 | .5 | 14 | 32 | 20 | 3.16 | .11 | .95 | 1600 | 1 | .15 | 20 | .09 | 23 | NO | NO | NO | NO | 23 | NO | NO | 231 |
| L2-ST 23 | .5 | 1.62 | 11 | NO | 49 | 4 | .13 | .3 | 0 | 21 | 24 | 3.00 | .00 | .50 | 565 | 2 | .13 | 20 | .06 | 50 | NO | NO | 4 | NO | 19 | NO | NO | 185 |
| L2-ST 24 | .8 | 2.43 | 10 | NO | 92 | NO | .15 | 1.1 | 0 | 16 | 21 | 2.17 | .06 | .37 | 2316 | 1 | .11 | 23 | .06 | 62 | NO | NO | 3 | NO | 10 | NO | NO | 177 |
| L2-ST 25 | .6 | 2.15 | NO | NO | 130 | NO | .19 | 1.0 | 12 | 10 | 22 | 3.10 | .06 | .53 | 2050 | NO | .10 | 10 | .07 | 31 | NO | NO | NO | NO | 22 | NO | NO | 279 |
| L2-ST 26 | .3 | 1.20 | NO | NO | 156 | NO | .14 | .4 | 0 | 17 | 9 | 2.40 | .05 | .31 | 1544 | NO | .00 | 12 | .04 | 24 | NO | NO | 3 | NO | 21 | NO | NO | 105 |
| L2-ST 27 | .2 | 2.60 | 7 | NO | 94 | NO | .14 | .7 | 9 | 21 | 10 | 3.36 | .07 | .52 | 1352 | 1 | .14 | 17 | .09 | 30 | NO | NO | NO | NO | 10 | NO | NO | 192 |
| L2-ST 28 | .3 | 1.93 | 0 | NO | 93 | NO | .20 | .3 | 9 | 10 | 16 | 3.27 | .09 | .62 | 1610 | NO | .14 | 17 | .11 | 34 | NO | NO | NO | NO | 29 | NO | NO | 184 |
| L2-ST 29 | .4 | 1.77 | 10 | NO | 59 | NO | .10 | 1.0 | 9 | 22 | 16 | 3.02 | .00 | .67 | 1231 | 1 | .14 | 20 | .10 | 30 | NO | NO | NO | NO | 22 | NO | NO | 203 |
| L2-ST 30 | .5 | 2.63 | 20 | NO | 83 | 5 | .23 | .0 | 19 | 56 | 39 | 4.59 | .10 | 1.23 | 1103 | 5 | .20 | 59 | .10 | 70 | NO | NO | NO | NO | 29 | NO | NO | 422 |
| L2-ST 31 | .0 | 2.72 | 10 | NO | 56 | NO | .43 | 2.0 | 11 | 20 | 20 | 3.27 | .10 | .60 | 613 | 3 | .16 | 23 | .07 | 55 | NO | NO | NO | NO | 50 | NO | NO | 252 |
| L2-ST 32 | .1 | 2.26 | 31 | NO | 113 | NO | .30 | 2.5 | 10 | 20 | 12 | 3.75 | .11 | .76 | 1506 | 1 | .19 | 10 | .10 | 00 | NO | NO | NO | NO | 42 | NO | NO | 293 |
| L2-ST 33 | .1 | 2.10 | 11 | NO | 104 | NO | .54 | .9 | 11 | 19 | 16 | 3.76 | .10 | .03 | 1630 | 1 | .15 | 17 | .09 | 25 | NO | NO | NO | NO | 07 | NO | NO | 102 |
| L2-ST 34 | .2 | 2.06 | 6 | NO | 100 | 5 | .25 | .4 | 11 | 20 | 15 | 3.09 | .14 | .59 | 1101 | 2 | .14 | 17 | .00 | 30 | NO | NO | 4 | NO | 31 | 3 | NO | 105 |
| L2-ST 35 | .1 | 2.45 | 0 | NO | 121 | NO | .19 | 1.7 | 14 | 20 | 22 | 3.71 | .15 | .61 | 3407 | 2 | .14 | 19 | .11 | 50 | NO | NO | 4 | NO | 22 | 7 | NO | 233 |
| L2-ST 36 | .2 | 2.42 | 19 | NO | 136 | NO | .34 | 2.3 | 13 | 17 | 20 | 3.64 | .17 | .75 | 3340 | NO | .12 | 15 | .16 | 153 | NO | NO | NO | NO | 39 | 4 | NO | 200 |
| L2-ST 37 | .2 | 2.26 | 9 | NO | 200 | NO | .33 | 2.1 | 14 | 17 | 24 | 3.00 | .16 | .70 | 6036 | 1 | .14 | 30 | .20 | 113 | NO | NO | NO | NO | 36 | NO | NO | 241 |
| L2-ST 38 | .2 | 2.71 | 7 | NO | 232 | NO | .55 | 1.9 | 14 | 16 | 10 | 4.75 | .10 | .92 | 6739 | 1 | .20 | 17 | .23 | 74 | NO | NO | NO | NO | 60 | NO | NO | 304 |
| L2-ST 39 | .1 | 2.64 | 4 | NO | 85 | NO | .10 | .0 | 12 | 19 | 21 | 3.60 | .09 | .64 | 2032 | 2 | .14 | 20 | .15 | 43 | NO | NO | NO | 1 | 21 | NO | NO | 205 |
| L2-ST 40 | .1 | 2.00 | 6 | NO | 124 | 3 | .30 | 1.1 | 11 | 19 | 19 | 3.47 | .10 | .71 | 3101 | 1 | .15 | 20 | .13 | 42 | NO | NO | NO | NO | 39 | NO | NO | 230 |
| L2-ST 41 | .1 | 2.07 | 7 | NO | 133 | NO | .21 | 1.3 | 15 | 25 | 25 | 3.53 | .11 | .63 | 3450 | 1 | .13 | 24 | .10 | 45 | NO | NO | NO | NO | 27 | NO | NO | 227 |
| L2-ST 42 | .1 | 2.00 | 0 | NO | 06 | NO | .20 | 1.9 | 15 | 24 | 27 | 3.41 | .10 | .64 | 2320 | 2 | .14 | 27 | .09 | 53 | NO | NO | NO | NO | 24 | NO | NO | 261 |
| L2-ST 43 | .3 | 2.50 | 0 | NO | 79 | NO | .20 | .7 | 11 | 10 | 19 | 4.74 | .16 | .01 | 1074 | 1 | .15 | 22 | .15 | 32 | NO | NO | NO | 5 | 29 | NO | NO | 197 |
| L2-ST 44 | .3 | 2.09 | 10 | NO | 100 | 3 | .31 | 1.0 | 11 | 15 | 17 | 4.01 | .13 | .73 | 2902 | 1 | .12 | 10 | .15 | 69 | NO | NO | NO | NO | 32 | NO | NO | 195 |
| L2-ST 45 | .1 | 2.41 | NO | NO | 112 | NO | .30 | .9 | 13 | 15 | 14 | 4.66 | .15 | 1.04 | 3051 | NO | .10 | 16 | .17 | 24 | NO | NO | NO | 1 | 30 | NO | NO | 257 |
| L2-ST 46 | .1 | 2.56 | 7 | NO | 174 | 3 | .47 | 1.3 | 16 | 15 | 13 | 6.19 | .21 | 1.19 | 4703 | 1 | .26 | 13 | .21 | 37 | NO | NO | NO | NO | 47 | NO | NO | 330 |
| L2-ST 47 | .1 | 2.30 | 7 | NO | 140 | NO | .70 | 1.4 | 15 | 16 | 25 | 4.30 | .20 | 1.10 | 3055 | 1 | .10 | 22 | .23 | 79 | NO | NO | NO | 3 | 06 | NO | NO | 294 |
| L2-ST 48 | .1 | 2.21 | 11 | NO | 237 | NO | .70 | 2.3 | 12 | 16 | 21 | 4.21 | .17 | .07 | 5043 | NO | .19 | 15 | .24 | 92 | NO | NO | NO | NO | 76 | NO | NO | 295 |
| L2-ST 49 | .2 | 2.27 | 19 | NO | 197 | 3 | .43 | 2.0 | 22 | 21 | 50 | 5.55 | .13 | .00 | 6176 | 4 | .27 | 27 | .17 | 111 | NO | NO | NO | 2 | 49 | NO | NO | 394 |
| L2-ST 50 | .3 | 2.67 | 0 | NO | 75 | 3 | .22 | .4 | 11 | 21 | 21 | 4.46 | .11 | .02 | 691 | 2 | .10 | 21 | .09 | 27 | NO | NO | NO | NO | 27 | NO | NO | 219 |
| L2-ST 51 | .1 | 2.66 | 5 | NO | 76 | NO | .26 | .7 | 12 | 21 | 30 | 3.72 | .11 | .04 | 1072 | 2 | .14 | 23 | .13 | 34 | NO | NO | NO | NO | 29 | NO | NO | 204 |
| L2-ST 52 | .5 | 2.32 | NO | NO | 00 | NO | .21 | .7 | 12 | 19 | 29 | 3.99 | .11 | .76 | 1340 | 2 | .15 | 10 | .11 | 21 | NO | NO | NO | NO | 24 | NO | NO | 189 |
| L2-ST 53 | .1 | 1.72 | 10 | NO | 92 | NO | .10 | 1.2 | 9 | 33 | 41 | 4.07 | .09 | .93 | 1541 | 2 | .13 | 16 | .10 | 51 | NO | NO | NO | NO | 25 | NO | NO | 126 |
| L2-ST 54 | .1 | 2.12 | 16 | NO | 76 | NO | .10 | .0 | 23 | 21 | 54 | 5.36 | .12 | .06 | 3302 | 7 | .19 | 10 | .14 | 43 | NO | NO | NO | 1 | 21 | NO | NO | 222 |
| L2-ST 55 | .4 | 2.52 | 6 | NO | 126 | NO | .54 | .5 | 17 | 22 | 30 | 5.50 | .16 | 1.54 | 2540 | 1 | .23 | 16 | .21 | 22 | NO | NO | NO | NO | 64 | NO | NO | 231 |
| DETECTION LIMIT | .1 | .01 | 3 | 3 | 1 | 3 | .01 | .1 | 1 | 1 | 1 | .01 | .01 | .01 | 1 | 1 | .01 | 1 | .01 | 2 | 3 | 5 | 2 | 2 | 1 | 5 | 3 | 1 |

| SAMPLE NAME | AG PPM | AL % | AS PPM | AU PPM | BA PPM | BI PPM | CA % | CD PPM | CO PPM | CR PPM | CU PPM | FE % | K % | MG % | MN PPM | NI PPM | NA % | NI PPM | P % | PB PPM | PD PPM | PI PPM | SB PPM | SM PPM | SR PPM | U PPM | V PPM | ZN PPM |
|-----------------|-----------|---------|-----------|-----------|-----------|-----------|---------|-----------|-----------|-----------|-----------|---------|--------|---------|-----------|-----------|---------|-----------|--------|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|-----------|
| L2-ST 056 | 1.0 | 1.50 | 36 | ND | 122 | 9 | .32 | 1.1 | 20 | 21 | 73 | 4.97 | .13 | .81 | 3066 | 6 | .19 | 27 | .14 | 64 | ND | ND | 6 | ND | 37 | ND | 27 | 211 |
| L2-ST 001 | .1 | 2.25 | 14 | ND | 337 | ND | .32 | 2.2 | 13 | 33 | 23 | 3.95 | .11 | .77 | 6720 | 2 | .30 | 27 | .14 | 75 | ND | ND | ND | ND | 39 | ND | ND | 612 |
| L2-ST 002 12.5M | .1 | 2.95 | ND | ND | 1509 | 5 | 1.66 | 3.7 | 34 | 147 | 49 | 5.17 | .41 | 3.04 | 1321 | 1 | .10 | 90 | .71 | 33 | ND | ND | ND | ND | 364 | ND | ND | 336 |
| L2-ST 003 37.5M | .1 | 1.95 | 21 | ND | 176 | ND | .22 | 7.1 | 8 | 14 | 10 | 3.50 | .12 | .32 | 7665 | 2 | .17 | 13 | .17 | 71 | ND | ND | ND | 1 | 37 | ND | ND | 364 |
| L2-ST 004 55M | .1 | 2.16 | 12 | ND | 107 | ND | .11 | 5.1 | 8 | 20 | 15 | 3.49 | .12 | .46 | 6674 | 1 | .17 | 13 | .13 | 63 | ND | ND | ND | 1 | 17 | ND | ND | 361 |
| L2-ST 005 75M | .1 | 2.04 | 12 | ND | 117 | ND | .15 | 1.6 | 6 | 10 | 13 | 2.54 | .02 | .36 | 2930 | 1 | .13 | 11 | .12 | 32 | ND | ND | ND | 1 | 20 | ND | ND | 215 |
| L2-ST 006 100M | .1 | 2.04 | 16 | ND | 69 | ND | .10 | .2 | 4 | 20 | 11 | 2.06 | .02 | .32 | 602 | 1 | .00 | 17 | .04 | 23 | ND | ND | ND | 1 | 14 | ND | ND | 165 |
| L2-ST 007 125M | .2 | 1.60 | 16 | ND | 120 | ND | .11 | .6 | 6 | 10 | 10 | 2.29 | .04 | .32 | 2942 | 1 | .11 | 14 | .04 | 32 | ND | ND | 3 | ND | 16 | ND | ND | 200 |
| L2-ST 008 150M | .3 | 2.20 | 12 | ND | 199 | ND | .29 | 2.1 | 11 | 39 | 15 | 3.29 | .12 | .76 | 5320 | 1 | .17 | 16 | .12 | 51 | ND | ND | ND | ND | 39 | 4 | ND | 324 |
| L2-ST 009 175M | .1 | 1.00 | 17 | ND | 224 | ND | .36 | 2.7 | 15 | 120 | 21 | 3.27 | .00 | 1.06 | 2353 | 1 | .15 | 39 | .12 | 135 | ND | ND | 4 | ND | 30 | ND | ND | 210 |
| L2-ST 010 200M | .1 | 2.57 | 14 | ND | 404 | 3 | .29 | 2.4 | 32 | 326 | 65 | 4.79 | .10 | 2.66 | 3263 | 1 | .20 | 92 | .17 | 37 | ND | ND | ND | ND | 30 | ND | ND | 190 |
| L2-ST 011 240M | .1 | 1.92 | 12 | ND | 94 | ND | .16 | 1.1 | 8 | 20 | 12 | 2.57 | .07 | .46 | 3034 | 1 | .12 | 17 | .11 | 64 | ND | ND | ND | 1 | 20 | ND | ND | 212 |
| L2-ST 012 275M | .1 | 1.13 | 14 | ND | 190 | ND | .20 | 1.7 | 7 | 14 | 16 | 1.95 | .04 | .17 | 5037 | ND | .10 | 9 | .00 | 53 | ND | ND | 4 | ND | 22 | ND | ND | 100 |
| L2-ST 013 300M | .1 | 2.16 | 15 | ND | 116 | ND | .15 | 1.0 | 9 | 20 | 15 | 3.23 | .00 | .60 | 3964 | 2 | .17 | 10 | .14 | 73 | ND | ND | ND | ND | 22 | ND | ND | 330 |
| L2-ST 014 325M | .1 | 1.50 | 10 | ND | 111 | ND | .12 | 1.2 | 7 | 10 | 12 | 2.66 | .01 | .32 | 2375 | 1 | .13 | 13 | .07 | 90 | ND | ND | ND | ND | 16 | ND | ND | 231 |
| L2-ST 015 350M | .1 | 1.41 | 13 | ND | 87 | ND | .00 | 2.1 | 5 | 17 | 9 | 1.92 | .01 | .29 | 1230 | ND | .06 | 11 | .04 | 32 | ND | ND | ND | ND | 16 | ND | ND | 143 |
| L2-ST 016 375M | .1 | 2.40 | 15 | ND | 143 | ND | .30 | 4.1 | 9 | 22 | 17 | 3.29 | .00 | .44 | 2340 | 1 | .17 | 16 | .00 | 56 | ND | ND | ND | ND | 30 | ND | ND | 336 |
| L2-ST 017 400M | .2 | 2.04 | 7 | ND | 69 | ND | .06 | .6 | 5 | 15 | 12 | 3.13 | .01 | .32 | 753 | 2 | .14 | 13 | .00 | 30 | ND | ND | ND | 1 | 10 | ND | ND | 239 |
| L2-ST 018 440M | .2 | 2.00 | 12 | ND | 99 | ND | .00 | 1.1 | 6 | 19 | 11 | 2.75 | .01 | .32 | 3163 | ND | .15 | 13 | .00 | 40 | ND | ND | ND | 1 | 12 | ND | ND | 202 |
| L2-ST 019 | .2 | 2.09 | 14 | ND | 91 | ND | .00 | 1.2 | 7 | 19 | 13 | 3.06 | .01 | .36 | 4213 | ND | .15 | 14 | .11 | 71 | ND | ND | ND | 2 | 13 | ND | ND | 261 |
| L2-ST 020 | .1 | 1.35 | 00 | ND | 109 | ND | .15 | 3.1 | 6 | 11 | 15 | 2.62 | .01 | .20 | 0573 | ND | .12 | 22 | .10 | 103 | ND | ND | ND | 1 | 14 | ND | ND | 170 |
| L2-ST 021 | .4 | 2.34 | 35 | ND | 100 | ND | .11 | 1.5 | 10 | 16 | 15 | 3.25 | .05 | .32 | 5962 | 1 | .15 | 17 | .11 | 154 | ND | ND | ND | 1 | 13 | ND | ND | 203 |
| L2-ST 022 | 4.4 | 1.20 | 145 | ND | 197 | ND | .39 | 2.5 | 7 | 11 | 15 | 2.49 | .05 | .22 | 5703 | ND | .13 | 10 | .06 | 247 | ND | ND | 3 | 1 | 37 | ND | ND | 242 |
| L2-ST 023 | .1 | 1.45 | 55 | ND | 99 | ND | .12 | 1.1 | 6 | 12 | 10 | 2.01 | .01 | .24 | 1264 | ND | .13 | 11 | .04 | 130 | ND | ND | 3 | ND | 14 | ND | ND | 227 |
| L2-ST 024 | .9 | 1.50 | 27 | ND | 110 | ND | .11 | 2.7 | 7 | 12 | 13 | 2.50 | .01 | .25 | 5343 | ND | .12 | 10 | .00 | 96 | ND | ND | 3 | ND | 15 | ND | ND | 195 |
| L2-ST 025 | .9 | 1.97 | 29 | ND | 74 | ND | .00 | 1.5 | 6 | 13 | 15 | 2.97 | .01 | .32 | 3502 | ND | .15 | 12 | .00 | 51 | ND | ND | ND | 1 | 13 | ND | ND | 250 |
| L2-ST 026 | .1 | 1.92 | 15 | ND | 70 | ND | .11 | 1.2 | 5 | 16 | 14 | 3.17 | .01 | .34 | 1633 | ND | .17 | 12 | .06 | 30 | ND | ND | ND | 1 | 15 | ND | ND | 309 |
| L2-ST 027 | .1 | 2.34 | 23 | ND | 119 | ND | .14 | 1.0 | 7 | 17 | 16 | 3.25 | .01 | .30 | 3610 | ND | .19 | 14 | .12 | 76 | ND | ND | ND | 1 | 10 | ND | ND | 262 |
| L2-ST 028 | .1 | 1.56 | 29 | ND | 90 | ND | .00 | 2.1 | 6 | 9 | 11 | 3.39 | .01 | .19 | 5349 | ND | .13 | 8 | .12 | 211 | ND | ND | ND | 1 | 10 | ND | ND | 190 |
| L2-ST 029 | .1 | 1.61 | 33 | ND | 40 | ND | .07 | 3.5 | 7 | 8 | 11 | 2.91 | .01 | .20 | 5300 | 1 | .15 | 8 | .13 | 403 | ND | ND | ND | 1 | 10 | ND | ND | 306 |
| L2-ST 030 | .9 | 2.22 | 26 | ND | 60 | ND | .00 | 1.3 | 6 | 14 | 13 | 3.45 | .06 | .32 | 1067 | 2 | .20 | 14 | .07 | 142 | ND | ND | ND | 1 | 12 | ND | ND | 425 |
| L2-ST 031 | .1 | 1.77 | 10 | ND | 212 | ND | .27 | 2.5 | 7 | 15 | 13 | 3.17 | .06 | .40 | 4700 | 1 | .14 | 9 | .06 | 69 | ND | ND | ND | ND | 31 | ND | ND | 257 |
| L2-ST 032 | .5 | 2.22 | 20 | ND | 110 | ND | .24 | 3.7 | 7 | 12 | 13 | 3.70 | .00 | .51 | 3972 | 1 | .19 | 10 | .13 | 04 | ND | ND | ND | 1 | 25 | ND | ND | 377 |
| 2+75S 0+00M | .6 | 5.12 | ND | ND | 55 | ND | .05 | .5 | 6 | 20 | 12 | 2.54 | .01 | .24 | 622 | 1 | .10 | 9 | .17 | ND | ND | ND | ND | 3 | 7 | ND | ND | 124 |
| 2+75S 0+25M | .4 | 4.51 | ND | ND | 35 | ND | .05 | .2 | 5 | 16 | 12 | 2.75 | .01 | .17 | 369 | 1 | .00 | 6 | .13 | ND | ND | ND | 2 | 6 | ND | ND | 85 | |
| 2+75S 0+50M | .3 | 4.25 | ND | ND | 46 | ND | .05 | .1 | 7 | 17 | 14 | 2.50 | .01 | .17 | 529 | 1 | .00 | 6 | .12 | 4 | ND | ND | ND | 2 | 6 | ND | ND | 96 |
| 2+75S 0+75M | .6 | 3.94 | 4 | ND | 49 | 5 | .05 | .5 | 6 | 10 | 15 | 2.66 | .01 | .19 | 403 | 2 | .00 | 8 | .22 | 12 | ND | ND | ND | 1 | 6 | 7 | ND | 107 |
| 2+75S 1+00M | .1 | 2.22 | 4 | ND | 175 | ND | .32 | 6.1 | 11 | 74 | 13 | 3.00 | .01 | .60 | 2440 | ND | .14 | 24 | .04 | 32 | ND | ND | ND | ND | 56 | ND | ND | 259 |
| 2+75S 1+25M | .3 | 2.99 | ND | ND | 49 | ND | .05 | .1 | 5 | 26 | 12 | 3.25 | .01 | .25 | 220 | 1 | .10 | 8 | .06 | 11 | ND | ND | ND | ND | 7 | ND | ND | 95 |
| DETECTION LIMIT | .1 | .01 | 3 | 3 | 1 | 3 | .01 | .1 | 1 | 1 | 1 | .01 | .01 | .01 | 1 | 1 | .01 | 1 | .01 | 2 | 3 | 5 | 2 | 2 | 1 | 5 | 3 | 1 |

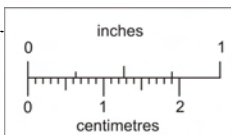
| SAMPLE NAME | AG PPH | AL I | AS PPH | AU PPH | BA PPH | BI PPH | CA I | CO PPH | CU PPH | CR PPH | CU PPH | FE I | K I | MG I | MM PPH | MU PPH | NA I | NI PPH | P I | PB PPH | PB PPH | PT PPH | SO PPH | SM PPH | SR PPH | U PPH | V PPH | ZN PPH | |
|-----------------|-----------|---------|-----------|-----------|-----------|-----------|---------|-----------|-----------|-----------|-----------|---------|--------|---------|-----------|-----------|---------|-----------|--------|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|-----------|-----|
| 2755 1750W | .1 | 4.25 | ND | ND | 46 | ND | .06 | .1 | 6 | 29 | 17 | 2.75 | .02 | .20 | 227 | 2 | .11 | 22 | .12 | 7 | ND | ND | ND | 4 | 6 | ND | ND | 132 | |
| 2755 1750W | .1 | 3.79 | ND | ND | 50 | ND | .05 | .1 | 4 | 33 | 13 | 2.52 | .02 | .35 | 209 | 1 | .14 | 21 | .00 | 8 | ND | ND | ND | 5 | 7 | ND | ND | 233 | |
| 2755 2000W | .1 | 3.13 | ND | ND | 59 | ND | .06 | .1 | 6 | 30 | 14 | 3.24 | .05 | .40 | 219 | 2 | .14 | 21 | .00 | 17 | ND | ND | ND | 2 | 8 | ND | ND | 191 | |
| 2755 2750W | .1 | 2.79 | ND | ND | 59 | ND | .05 | .3 | 6 | 31 | 13 | 2.97 | .05 | .35 | 227 | 2 | .12 | 18 | .00 | 16 | ND | ND | ND | 2 | 8 | ND | ND | 174 | |
| 2755 2750W | .1 | 2.72 | ND | ND | 59 | ND | .05 | .1 | 5 | 28 | 14 | 3.04 | .02 | .20 | 342 | 1 | .11 | 15 | .12 | 15 | ND | ND | ND | 2 | 8 | ND | ND | 137 | |
| 2755 2750W | .1 | 2.00 | ND | ND | 80 | ND | .05 | .1 | 6 | 19 | 15 | 2.77 | .02 | .20 | 607 | 1 | .10 | 10 | .11 | 22 | ND | ND | ND | ND | 7 | ND | ND | 130 | |
| 2755 3000W | .1 | 1.82 | ND | ND | 119 | ND | .32 | 1.3 | 7 | 46 | 12 | 2.66 | .02 | .40 | 1740 | ND | .00 | 18 | .06 | 21 | ND | ND | ND | 1 | 57 | ND | ND | 154 | |
| 2755 3750W | .1 | 2.34 | ND | ND | 75 | ND | .00 | .1 | 5 | 15 | 15 | 2.52 | .01 | .30 | 879 | ND | .00 | 11 | .07 | 5 | ND | ND | ND | 1 | 11 | ND | ND | 100 | |
| 2755 3750W | .1 | 2.56 | ND | ND | 50 | ND | .06 | .1 | 4 | 14 | 11 | 2.43 | .01 | .30 | 364 | ND | .00 | 7 | .00 | ND | ND | ND | ND | 3 | 10 | ND | ND | 84 | |
| 3005 0000W | .1 | 4.17 | ND | ND | 70 | ND | .05 | .1 | 5 | 31 | 14 | 2.91 | .01 | .34 | 200 | ND | .16 | 14 | .00 | ND | ND | ND | ND | 5 | 8 | ND | ND | 185 | |
| 3005 012.5W | .1 | 2.95 | ND | ND | 65 | ND | .05 | .2 | 7 | 26 | 14 | 2.01 | .00 | .25 | 678 | 2 | .11 | 17 | .07 | 24 | ND | ND | ND | 1 | 8 | ND | ND | 182 | |
| 3005 012.5W | .6 | 2.75 | 11 | ND | 82 | 4 | .07 | .3 | 10 | 53 | 18 | 2.75 | .14 | .60 | 270 | 3 | .00 | 25 | .00 | 33 | ND | ND | ND | 5 | 10 | 7 | ND | 165 | |
| 3005 037.5W | .5 | 3.34 | 8 | ND | 71 | 3 | .06 | .4 | 9 | 51 | 17 | 3.22 | .12 | .45 | 273 | 3 | .10 | 21 | .11 | 39 | ND | ND | ND | ND | 8 | ND | ND | 159 | |
| 3005 050W | .2 | 2.24 | 7 | ND | 80 | ND | .07 | 1.1 | 7 | 31 | 19 | 2.30 | .11 | .32 | 749 | 2 | .06 | 17 | .07 | 39 | ND | ND | ND | 5 | ND | 11 | ND | 118 | |
| 3005 062.5W | .6 | 1.85 | 8 | ND | 60 | ND | .06 | .2 | 6 | 25 | 14 | 2.43 | .11 | .26 | 216 | 2 | .05 | 12 | .04 | 34 | ND | ND | ND | 6 | ND | 8 | ND | 90 | |
| 3005 075W | 1.1 | 1.90 | 16 | ND | 62 | ND | .06 | .8 | 7 | 22 | 14 | 2.25 | .14 | .26 | 417 | 3 | .05 | 14 | .00 | 80 | ND | ND | ND | 9 | ND | 9 | 10 | ND | 122 |
| 3005 087.5W | .6 | 3.95 | 4 | ND | 66 | ND | .05 | .1 | 8 | 22 | 17 | 3.11 | .12 | .24 | 364 | 3 | .00 | 9 | .12 | 24 | ND | ND | ND | ND | 7 | 4 | ND | 130 | |
| 3005 1000W | .6 | 2.90 | 8 | ND | 75 | 5 | .07 | .3 | 8 | 24 | 13 | 2.95 | .13 | .22 | 506 | 4 | .00 | 12 | .12 | 39 | ND | ND | ND | 4 | ND | 9 | 4 | ND | 130 |
| 3005 112.5W | .6 | 4.90 | ND | ND | 69 | 4 | .14 | .6 | 8 | 20 | 18 | 2.07 | .11 | .22 | 296 | 3 | .00 | 11 | .17 | 23 | ND | ND | ND | 3 | 16 | ND | ND | 133 | |
| 3005 112.5W | .7 | 4.33 | ND | ND | 74 | ND | .06 | .3 | 8 | 24 | 16 | 2.91 | .11 | .20 | 319 | 3 | .00 | 14 | .10 | 22 | ND | ND | ND | 2 | 9 | ND | ND | 158 | |
| 3005 137.5W | .1 | 3.75 | ND | ND | 65 | ND | .00 | .4 | 7 | 32 | 18 | 2.43 | .00 | .35 | 237 | 3 | .00 | 31 | .00 | 19 | ND | ND | ND | 2 | 10 | ND | ND | 172 | |
| 3005 150W | .1 | 3.12 | 4 | ND | 100 | ND | .00 | .1 | 7 | 28 | 15 | 2.54 | .10 | .32 | 624 | 2 | .11 | 19 | .07 | 32 | ND | ND | ND | 1 | 11 | ND | ND | 204 | |
| 3005 162.5W | .1 | 2.29 | 3 | ND | 66 | ND | .06 | .6 | 7 | 26 | 13 | 2.45 | .10 | .34 | 443 | 3 | .00 | 17 | .05 | 29 | ND | ND | ND | 3 | ND | 9 | ND | 177 | |
| 3005 175W | .2 | 2.16 | 7 | ND | 60 | ND | .06 | .5 | 6 | 27 | 15 | 2.50 | .10 | .32 | 441 | 2 | .00 | 18 | .07 | 38 | ND | ND | ND | 3 | ND | 10 | ND | 161 | |
| 3005 187.5W | .2 | 1.26 | ND | ND | 89 | ND | .07 | .6 | 4 | 15 | 12 | 2.04 | .10 | .17 | 368 | 2 | .04 | 10 | .04 | 46 | ND | ND | ND | 9 | ND | 13 | ND | 86 | |
| 3005 2000W | .1 | 2.91 | ND | ND | 59 | ND | .06 | .3 | 6 | 27 | 14 | 3.07 | .00 | .30 | 265 | 2 | .12 | 12 | .10 | 26 | ND | ND | ND | 1 | 8 | ND | ND | 149 | |
| 3005 212.5W | .1 | 2.41 | 6 | ND | 87 | ND | .07 | .4 | 7 | 26 | 13 | 3.12 | .00 | .29 | 620 | 2 | .10 | 15 | .10 | 33 | ND | ND | ND | ND | 11 | ND | ND | 145 | |
| 3005 225W | .5 | 1.43 | 3 | ND | 79 | ND | .06 | .2 | 7 | 18 | 11 | 2.47 | .12 | .20 | 904 | 2 | .06 | 10 | .06 | 33 | ND | ND | ND | 8 | ND | 8 | 4 | ND | 115 |
| 3005 237.5W | .1 | .55 | ND | ND | 121 | ND | .05 | .2 | 3 | 7 | 6 | .06 | .05 | .07 | 806 | ND | .01 | 2 | .01 | 14 | ND | ND | ND | 7 | ND | 8 | ND | 3 | 49 |
| 3005 250W | .1 | 2.50 | 4 | ND | 51 | ND | .04 | .2 | 5 | 19 | 12 | 2.93 | .07 | .17 | 227 | 2 | .07 | 8 | .12 | 23 | ND | ND | ND | 1 | 7 | ND | ND | 87 | |
| 3005 262.5W | .1 | 1.83 | 4 | ND | 63 | ND | .00 | .8 | 6 | 32 | 11 | 2.27 | .11 | .41 | 433 | 2 | .07 | 20 | .07 | 31 | ND | ND | ND | 5 | ND | 10 | ND | 154 | |
| 3005 275W | .1 | 2.29 | 3 | ND | 74 | ND | .07 | .3 | 6 | 24 | 13 | 2.65 | .00 | .20 | 400 | 2 | .00 | 11 | .00 | 27 | ND | ND | ND | ND | 1 | 11 | ND | ND | 145 |
| 3005 287.5W | .1 | 2.31 | ND | ND | 81 | ND | .00 | .1 | 8 | 22 | 13 | 3.17 | .07 | .29 | 465 | 2 | .10 | 12 | .12 | 23 | ND | ND | ND | ND | 16 | ND | ND | 137 | |
| 3005 300W | .3 | 1.72 | 7 | ND | 100 | 3 | .53 | 4.6 | 9 | 65 | 16 | 2.62 | .14 | .30 | 1437 | 2 | .02 | 18 | .07 | 71 | ND | ND | ND | 4 | ND | 91 | ND | 146 | |
| 3005 312.5W | .1 | 1.87 | 3 | ND | 70 | 3 | .00 | .2 | 6 | 23 | 11 | 2.52 | .00 | .22 | 455 | 2 | .04 | 10 | .04 | 28 | ND | ND | ND | 4 | ND | 15 | ND | 72 | |
| 3005 325W | .1 | 2.50 | ND | ND | 66 | ND | .07 | .1 | 7 | 23 | 13 | 2.54 | .00 | .28 | 367 | 2 | .05 | 14 | .04 | 13 | ND | ND | ND | 1 | 9 | ND | ND | 85 | |
| 3005 337.5W | .1 | 1.67 | 5 | ND | 52 | ND | .07 | .8 | 6 | 21 | 11 | 3.75 | .11 | .25 | 290 | 2 | .00 | 10 | .00 | 28 | ND | ND | ND | 7 | ND | 12 | ND | 77 | |
| 3005 350W | .1 | 1.53 | 5 | ND | 54 | ND | .07 | .1 | 6 | 17 | 10 | 2.50 | .06 | .27 | 621 | 1 | .07 | 9 | .04 | 41 | ND | ND | ND | 3 | ND | 13 | ND | 99 | |
| 3755 000W | .1 | 3.37 | ND | ND | 63 | ND | .05 | .1 | 6 | 18 | 11 | 2.97 | .03 | .20 | 755 | 1 | .10 | 8 | .10 | 13 | ND | ND | ND | 1 | 7 | ND | ND | 118 | |
| DETECTION LIMIT | .1 | .01 | 3 | 3 | 1 | 3 | .01 | .1 | 1 | 1 | 1 | .01 | .01 | .01 | 1 | 1 | .01 | 1 | .01 | 2 | 3 | 5 | 2 | 2 | 1 | 5 | 3 | 1 | |

| SAMPLE NAME | AS PPH | AL I | AS PPH | AU PPH | BA PPH | BI PPH | CA I | CD PPH | CO PPH | CR PPH | CU PPH | FE I | K I | MG I | MN PPH | MO PPH | NA I | NI PPH | P I | PB PPH | PD PPH | PI PPH | SD PPH | SM PPH | SR PPH | U PPH | V PPH | ZN PPH | |
|-----------------|-----------|---------|-----------|-----------|-----------|-----------|---------|-----------|-----------|-----------|-----------|---------|--------|---------|-----------|-----------|---------|-----------|--------|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|-----------|----|
| 31755 0+25W | .8 | 1.81 | 15 | NO | 51 | 3 | .08 | .6 | 7 | 25 | 12 | 2.47 | .13 | .25 | 100 | 2 | .02 | 16 | .07 | 34 | NO | NO | 4 | 1 | 10 | 7 | NO | NO | 85 |
| 31755 0+50W | .6 | 3.30 | NO | NO | 60 | NO | .06 | .8 | 8 | 17 | 16 | 2.58 | .12 | .16 | 401 | 2 | .06 | 12 | .28 | 16 | NO | NO | NO | NO | 6 | NO | NO | 100 | |
| 31755 0+75W | .3 | 4.15 | 6 | NO | 67 | NO | .06 | .4 | 8 | 31 | 16 | 2.82 | .12 | .30 | 259 | 1 | .10 | 17 | .12 | 23 | NO | NO | NO | NO | 8 | NO | NO | 149 | |
| 31755 1+00W | .8 | 3.40 | 17 | NO | 55 | 4 | .06 | .4 | 8 | 26 | 14 | 3.16 | .13 | .26 | 171 | 2 | .08 | 16 | .12 | 30 | NO | NO | NO | NO | 9 | NO | NO | 123 | |
| 31755 1+25W | .3 | 2.81 | 7 | NO | 69 | NO | .08 | .8 | 8 | 30 | 12 | 2.57 | .12 | .40 | 260 | 1 | .08 | 22 | .07 | 25 | NO | NO | NO | NO | 11 | NO | NO | 128 | |
| 31755 1+50W | .2 | 3.41 | 4 | NO | 65 | NO | .06 | .6 | 9 | 25 | 14 | 2.54 | .11 | .44 | 367 | NO | .11 | 22 | .07 | 23 | NO | NO | NO | NO | 10 | NO | NO | 165 | |
| 31755 1+75W | .1 | 1.41 | 11 | NO | 63 | NO | .11 | .5 | 6 | 24 | 9 | 2.16 | .12 | .32 | 501 | NO | .04 | 17 | .05 | 30 | NO | NO | NO | 1 | 13 | NO | NO | 103 | |
| 31755 2+00W | .6 | 3.35 | 8 | NO | 60 | NO | .08 | .6 | 9 | 22 | 16 | 2.91 | .12 | .27 | 550 | 1 | .10 | 15 | .15 | 26 | NO | NO | NO | NO | 11 | NO | NO | 152 | |
| 31755 2+25W | .2 | .91 | 11 | NO | 51 | NO | .13 | 1.2 | 5 | 14 | 8 | 1.41 | .11 | .13 | 203 | NO | .01 | 10 | .03 | 30 | NO | NO | 3 | 1 | 21 | NO | 3 | 78 | |
| 31755 2+50W | .6 | 1.83 | 17 | NO | 85 | NO | .25 | 3.1 | 10 | 31 | 12 | 3.16 | .14 | .34 | 795 | 1 | .14 | 15 | .06 | 37 | NO | NO | NO | 1 | 44 | 4 | NO | 227 | |
| 31755 2+75W | .3 | 1.35 | 12 | NO | 87 | NO | .22 | 5.5 | 10 | 25 | 15 | 2.41 | .13 | .26 | 1831 | 1 | .02 | 15 | .06 | 73 | NO | NO | NO | 2 | 40 | NO | NO | 145 | |
| 31755 3+00W | .1 | 1.40 | 7 | NO | 149 | NO | .66 | 40.2 | 9 | 41 | 15 | 2.00 | .14 | .30 | 6015 | NO | .15 | 17 | .08 | 90 | NO | NO | NO | NO | 136 | 3 | NO | 400 | |
| 31755 3+25W | .1 | 1.77 | 11 | NO | 72 | NO | .10 | 1.7 | 8 | 22 | 11 | 2.52 | .12 | .30 | 1497 | NO | .07 | 14 | .05 | 34 | NO | NO | NO | 1 | 14 | NO | NO | 135 | |
| 31755 3+50W | .1 | 1.46 | 8 | NO | 100 | NO | .17 | .5 | 7 | 21 | 10 | 2.40 | .12 | .30 | 1039 | NO | .06 | 13 | .08 | 30 | NO | NO | NO | 1 | 33 | NO | NO | 125 | |
| DETECTION LIMIT | .1 | .01 | 3 | 3 | 1 | 3 | .01 | .1 | 1 | 1 | 1 | .01 | .01 | .01 | 1 | 1 | .01 | 1 | .01 | 2 | 3 | 5 | 2 | 2 | 1 | 5 | 3 | 1 | |



PERMIT 2

PERMIT 1

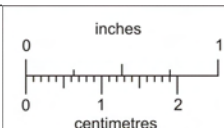
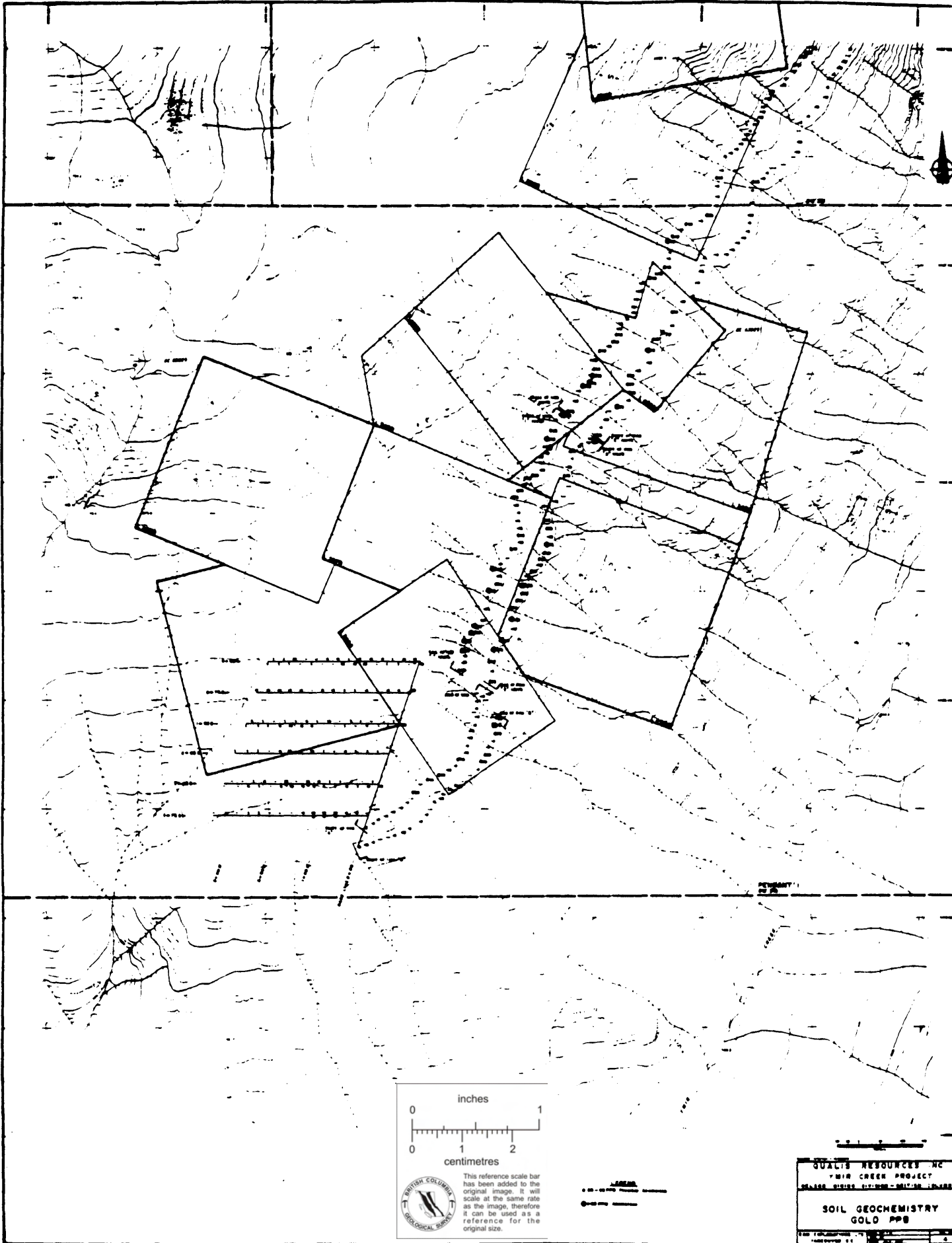


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| LEGEND | SYMBOLS |
| 1. PROPERTY BOUNDARY | 2. QUATERNARY DEPOSITS |
| 2. QUATERNARY DEPOSITS | 3. TERTIARY DEPOSITS |
| 3. TERTIARY DEPOSITS | 4. PRE-CAMBRIAN GNEISS |
| 4. PRE-CAMBRIAN GNEISS | 5. PRE-CAMBRIAN GRANITE |
| 5. PRE-CAMBRIAN GRANITE | 6. PRE-CAMBRIAN SLATE |
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QUALIS RESOURCES INC.
YMIR CREEK PROJECT
PROPERTY GEOLOGY
&
COMPILATION MAP

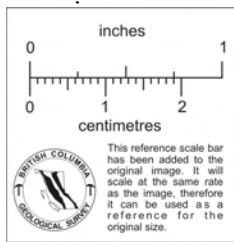
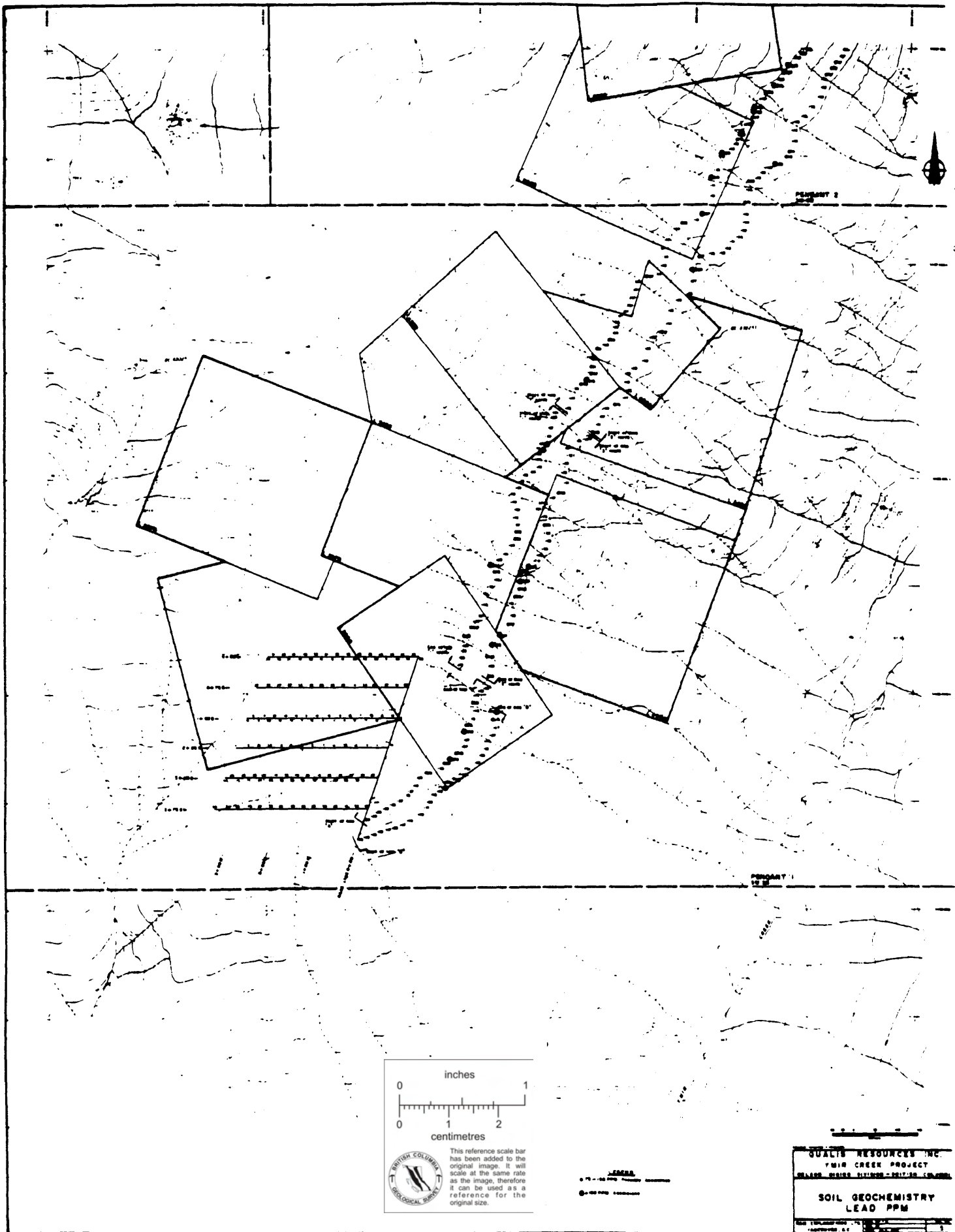


BRITISH COLUMBIA
GEOLOGICAL SURVEY

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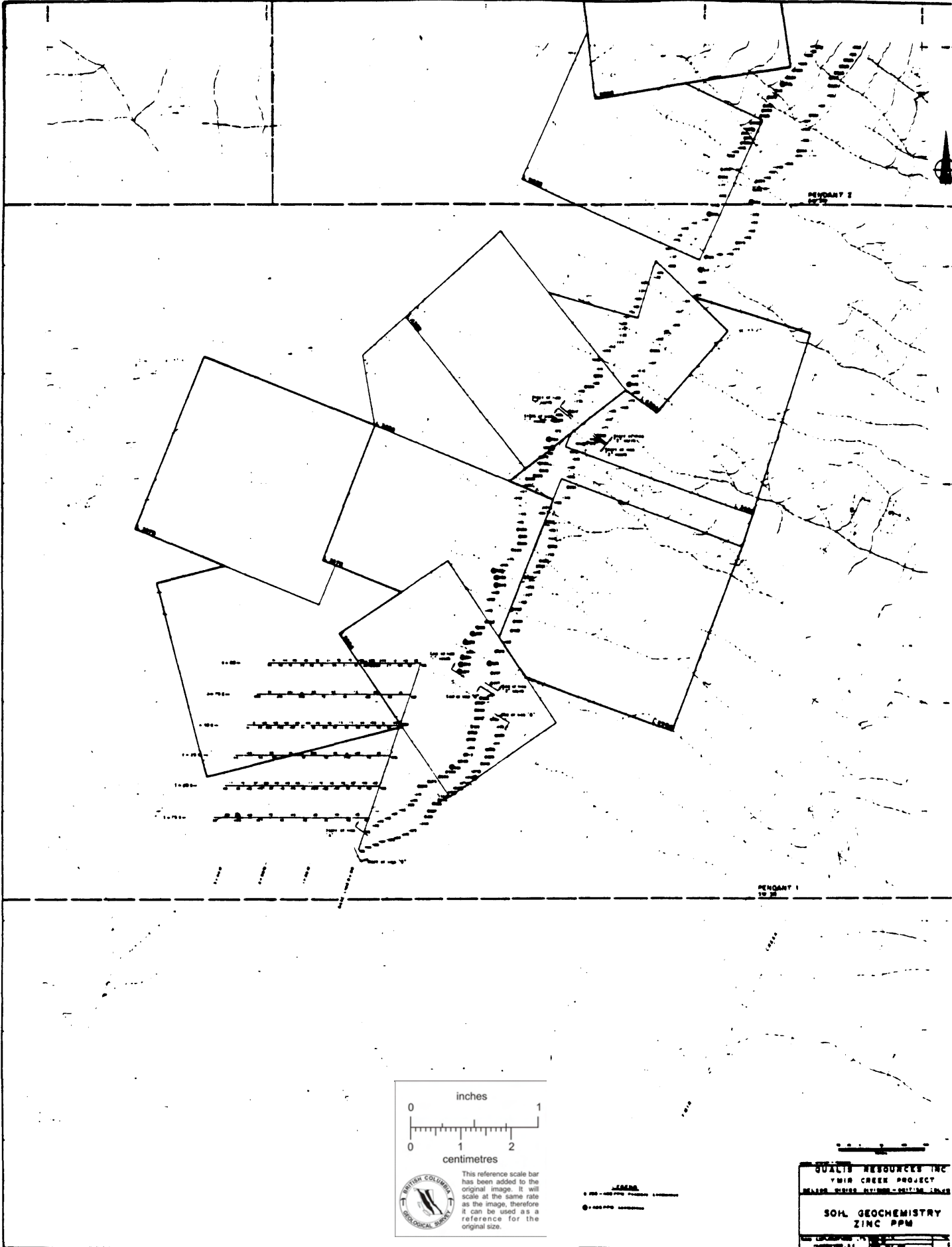
ROAD
PROPERTY

QUALIS RESOURCES INC
YIRD CREEK PROJECT
GEARER DESIGN SYSTEM - 2013-08-15
SOIL GEOCHEMISTRY
GOLD PPS



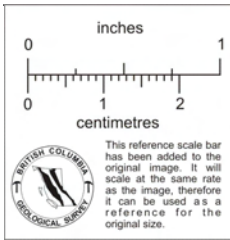
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| QUALIS RESOURCES INC. | |
| TWIN CREEK PROJECT | |
| MILLER - MAISE - MILLER - BRITISH COLUMBIA | |
| SOIL GEOCHEMISTRY | |
| LEAD PPM | |
| Scale 1:50,000 | Sheet 1 |



PERQUANT 2

PERQUANT 1



LEGEND

● 100-200 PPM ZINC

○ 200-500 PPM ZINC

QUALIS RESOURCES INC
YMIK CREEK PROJECT
 HELIX PLANT GROUND-WATER MONITORING

SOIL GEOCHEMISTRY
ZINC PPM

TERMS OF REFERENCE
AND
INTRODUCTION

TERMS OF REFERENCE

Pursuant to an agreement dated April 8, 1987, Qualis Resources Inc. acquired an option to purchase a 100% interest in 51 crown grants, reverted crown grants and mineral claims situated in the Ymir Gold Camp near Nelson in Southeastern B.C.

The property is of interest because it covers several known gold bearing vein structures which occur in a geologic setting similar to that at the largest producers of the Ymir Camp. Historical reports indicate that gold mineralization in some of these veins shows good vertical continuity, however, to date no systematic evaluation has been carried out.

On the basis of this information, Qualis Resources commissioned Ram Exploration Ltd. to evaluate the project and, if warranted, make recommendations for continued exploration.

INTRODUCTION

During June and July 1987 the authors made several site visits, mapped existing underground workings and supervised regional scale geologic mapping and soil/talus geochemical surveys.

The following report describes results of these surveys and outlines recommendations for continued exploration.

SUMMARY
&
RECOMMENDATIONS

SUMMARY AND RECOMMENDATIONS

The Ymir Creek Claim Group consists of 51 reverted crown grants, crown grants and mineral claims covering an area approximately five kilometers long and four claim units wide along the west side of Ymir Creek. The claims are situated in the northeastern part of the Ymir Gold Camp and cover an elongate roof pendant of Ymir Group sediments within granodiorites of the Nelson plutonic series.

According to Meyer (1985), mineralization within the Ymir Camp consists of sulfide enriched quartz filled fissure veins coincident with late stage activity of the Nelson plutonic series. The most enriched and persistent ore shoots are within veins having northeast/southwest and east/west strikes with steep northerly dips. These veins, which contain auriferous pyrite, galena and sphalerite and crosscut sedimentary formations are characteristic in the Ymir, Yankee Girl, Dundee, Fern and Wilcox mines.

The property covers several known prospects termed the "Foghorn", "Good Hope" and "Swiss Cheese" workings, each consisting of limited development work on a series of northeast/southwest striking auriferous quartz veins. In total, some 20 short adits, inclined shafts and trenches have been driven to test the various vein structures. The most important of these is the "Foghorn" crosscut which extends for over 1,200 feet and intersects at least one auriferous vein. This intersection suggests good vertical continuity of the gold mineralization and it is concluded that these veins represent significant targets on which to develop reserves.

The objectives of the current exploration program were to locate and sample the known vein structures and to assess the potential for the discovery of additional mineralized veins.

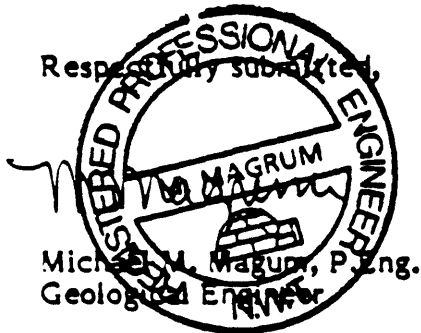
During May and June 1987, several helicopter fly camps were established and a program of geological mapping and talus/soil geochemical sampling was carried out. In addition, several of the old trenches and adits were rehabilitated and cleaned for mapping and sampling purposes. A total of 65 rock samples and 365 soil samples were

assayed for gold and a suite of 26 elements. Rock samples from the various vein structures returned high to extremely high gold values including several assays over 1.0 oz./ton. One sample collected from a trench at the "Swiss Cheese" workings assayed 593,160 ppb gold, equivalent to approximately 17.30 oz./ton.

Geochemical surveys topographically below the known veins established the intensity of geochemical response associated with this type of mineralization. The present survey identified at least one additional anomalous area (north of the "Swiss Cheese" workings) which has not yet been attributed to any known source.

In summary, at least five potentially economic vein structures are known and results of reconnaissance geochemical surveys suggest potential for additional discoveries. It is important to note that these veins outcrop near the top of a ridge and therefore surficial work will be difficult and costly. Alternatively, it is recommended that a two stage program of detailed geologic mapping and diamond drilling be carried out at a total estimated cost of \$200,000.

Respectfully submitted,



Michael M. Magrum, P. Eng.
Geological Engineer


C. von Einsiedel, B.Sc.
Consulting Geologist

SECTION 1
PROPOSED EXPLORATION
PROGRAM

1.1 Exploration Targets

Exploration to date has identified several auriferous vein structures including the "Foghorn", "Good Hope" and "Swiss Cheese" prospects. As part of the present survey, all known trenches, prospect adits, shafts and tailings dumps were systematically sampled. From 65 samples, nine returned grades of over 1.0 oz./ton gold and seven of these were from the "Good Hope" and "Swiss Cheese" prospects.

It is recommended that 1,500 to 2,000 feet of drilling be completed in several holes at each of these prospects. The "Good Hope" and "Swiss Cheese" are most easily accessible for short hole drilling and these will be tested during Phase 1. Phase 2 will consist of an additional 2,500 feet of unallocated diamond drilling pending results of Phase 1.

1.2 Estimated Costs

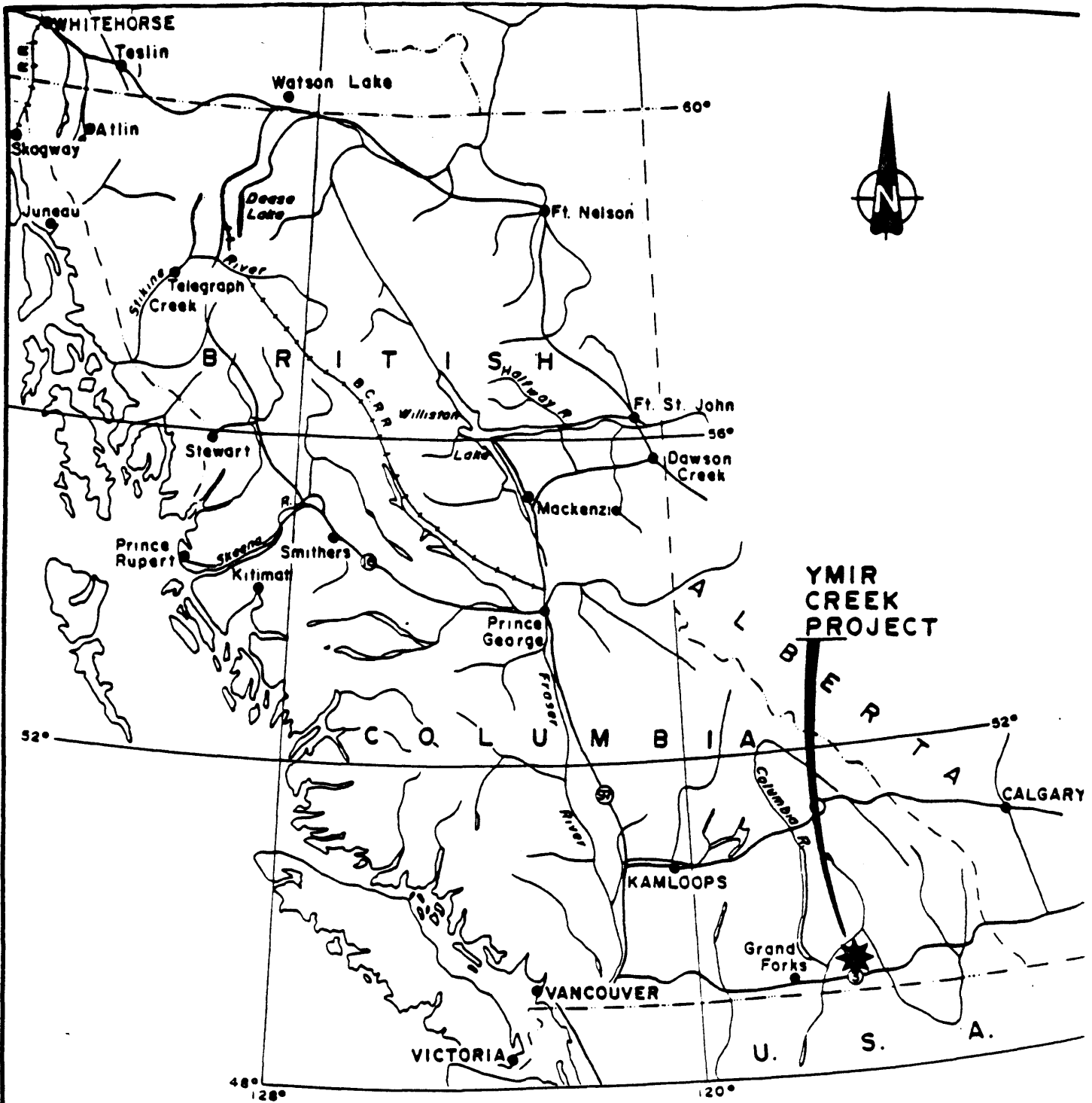
Phase 1

| | |
|--|---------------|
| Engineering/Supervision/Reports | \$ 10,000 |
| Mobilization/Drill Site Preparation (Good Hope/Swiss Cheese area) | 10,000 |
| Diamond Drilling (helicopter capable) - allow 2,000 feet @ \$30 inclusive | 60,000 |
| Contingency | <u>10,000</u> |
| | \$ 90,000 |

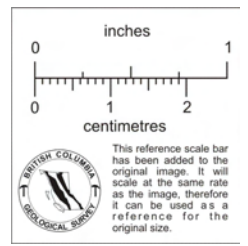
Phase 2

| | |
|--|---------------|
| Engineering/Supervision/Reports | \$ 10,000 |
| Mobilization/Drill Site Preparation (unallocated) | 15,000 |
| Diamond Drilling (helicopter capable) - allow 2,500 feet @ \$30 inclusive | 75,000 |
| Contingency | <u>10,000</u> |
| | \$110,000 |

SECTION 2
GENERAL



QUALIS RESOURCES INC.
LOCATION MAP
 OF
YMIR CREEK PROJECT



2.1 Location, Access, Ownership
(please see Figure No. 1A)

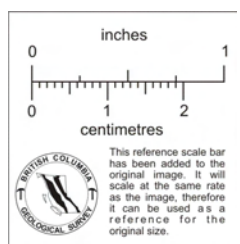
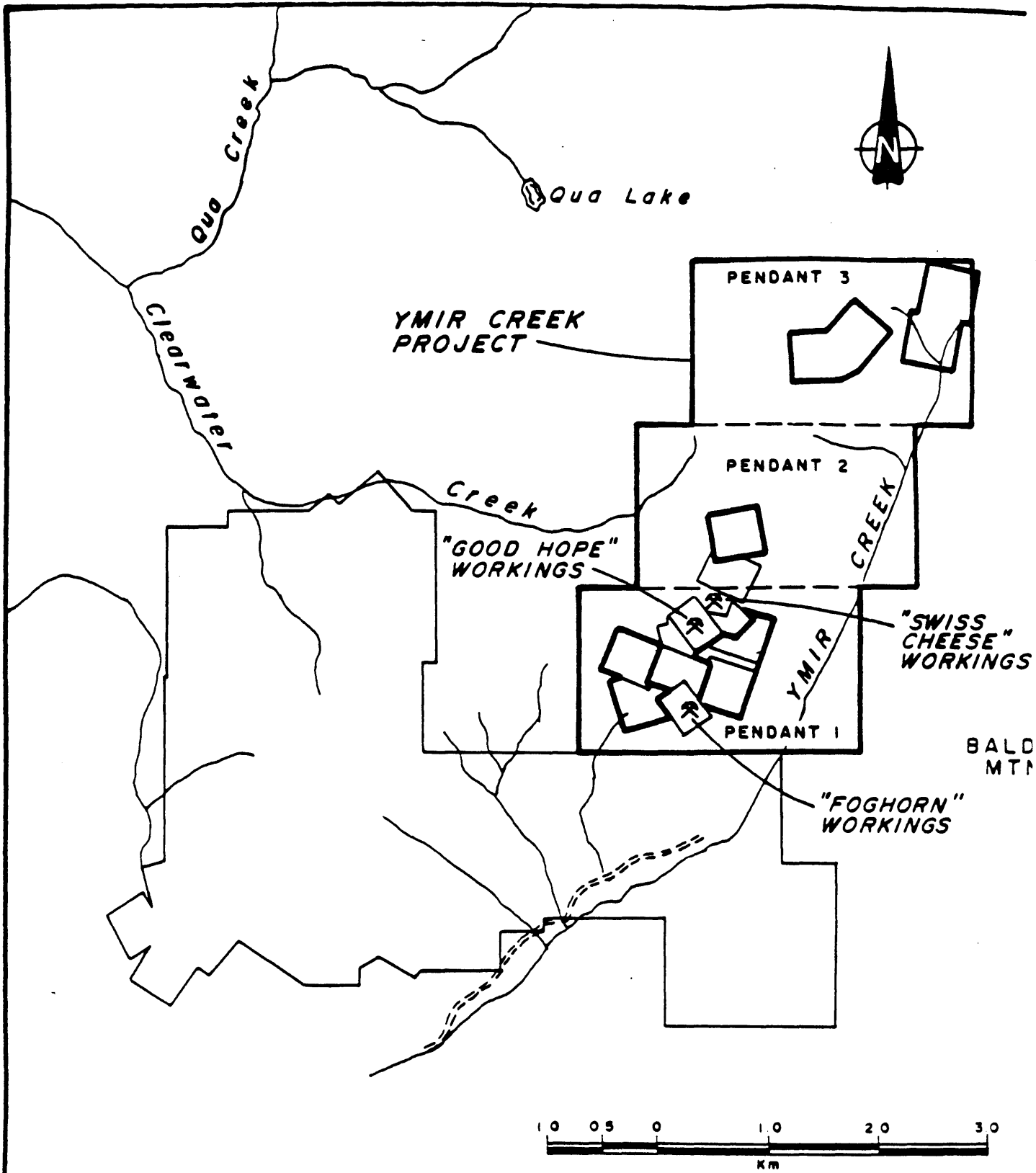
The Ymir Creek Claim Group is situated in the Nelson Range of the Selkirk Mountains, ten kilometers northeast of the town of Ymir, which is 30 kilometers (Highway No. 6) south of the city of Nelson. The property is in the Nelson Mining Division recorded on Mineral Title Reference Map No. 82F-6E.

The claims cover the northwestern slope of Ymir Creek valley and the headwaters of Clearwater Creek extending north from Ymir Creek at 3,500 feet elevation to the ridge top of 6,500 feet elevation. Access from Ymir to the property is gained via 10 kilometers of four-wheel drive road along Ymir Creek to the old Wilcox millsite. From here, access is gained by foot along an old foot trail to the "Foghorn" and "Good Hope" workings. Alternate access is by helicopter to a ridge above the "Good Hope" and "Swiss Cheese" workings.

The topography of the area is steep and rugged with numerous granite cliffs and subsequent talus slopes. Principal vein structures are exposed between 5,500 and 6,200 feet elevation on a steep sided ridge in the southern part of the claim area.

Title is recorded as follows:

| <u>Claim Name</u> | <u>Record No.</u> | <u>No. of Units</u> | <u>Expiry Date</u> | <u>Ownership</u> |
|------------------------------|------------------------|---------------------|--------------------|-----------------------|
| <u>Mineral Claims</u> | | | | |
| Pendant 1 | 4390 | 15 | August 8, 1988 | P.M. Exploration Ltd. |
| Pendant 2 | 4391 | 15 | August 8, 1988 | P.M. Exploration Ltd. |
| Pendant 3 | 4392 | 15 | August 8, 1988 | P.M. Exploration Ltd. |
| <u>Reverted Crown Grants</u> | | | | |
| Foghorn | 3710 (Lot No. 5204) | 1 | April 30, 1988 | P.M. Exploration Ltd. |
| Rainy Day | 3712 (Lot No. 3978) | 1 | April 30, 1988 | P.M. Exploration Ltd. |
| Silver Reef | 3711 (Lot No. 5088) | 1 | April 30, 1988 | P.M. Exploration Ltd. |



QUALIS RESOURCES INC.
YMIR CREEK PROJECT
 NELSON MINING DIVISION - BRITISH COLUMBIA

CLAIM MAP

| | | |
|--|------------------|--------|
| RAM EXPLORATIONS LTD. VANCOUVER, B.C. | OWN. BY: T.M. | FIG. N |
| | CHK. BY: | IA |
| | DATE: JULY, 1987 | |

| <u>Claim Name</u> | <u>Record No.</u> | <u>No. of Units</u> | <u>Expiry Date</u> | <u>Ownership</u> |
|----------------------------|-------------------|---------------------|--------------------|------------------|
| <u>Crown Grants</u> | | | | |
| Good Hope | Lot 4382 | 1 | Taxes Paid 1987 | James K. Scott |
| Good Hope Fr. | Lot 4383 | 1 | Taxes Paid 1987 | James K. Scott |
| Stanley | Lot 4384 | 1 | Taxes Paid 1987 | James K. Scott |

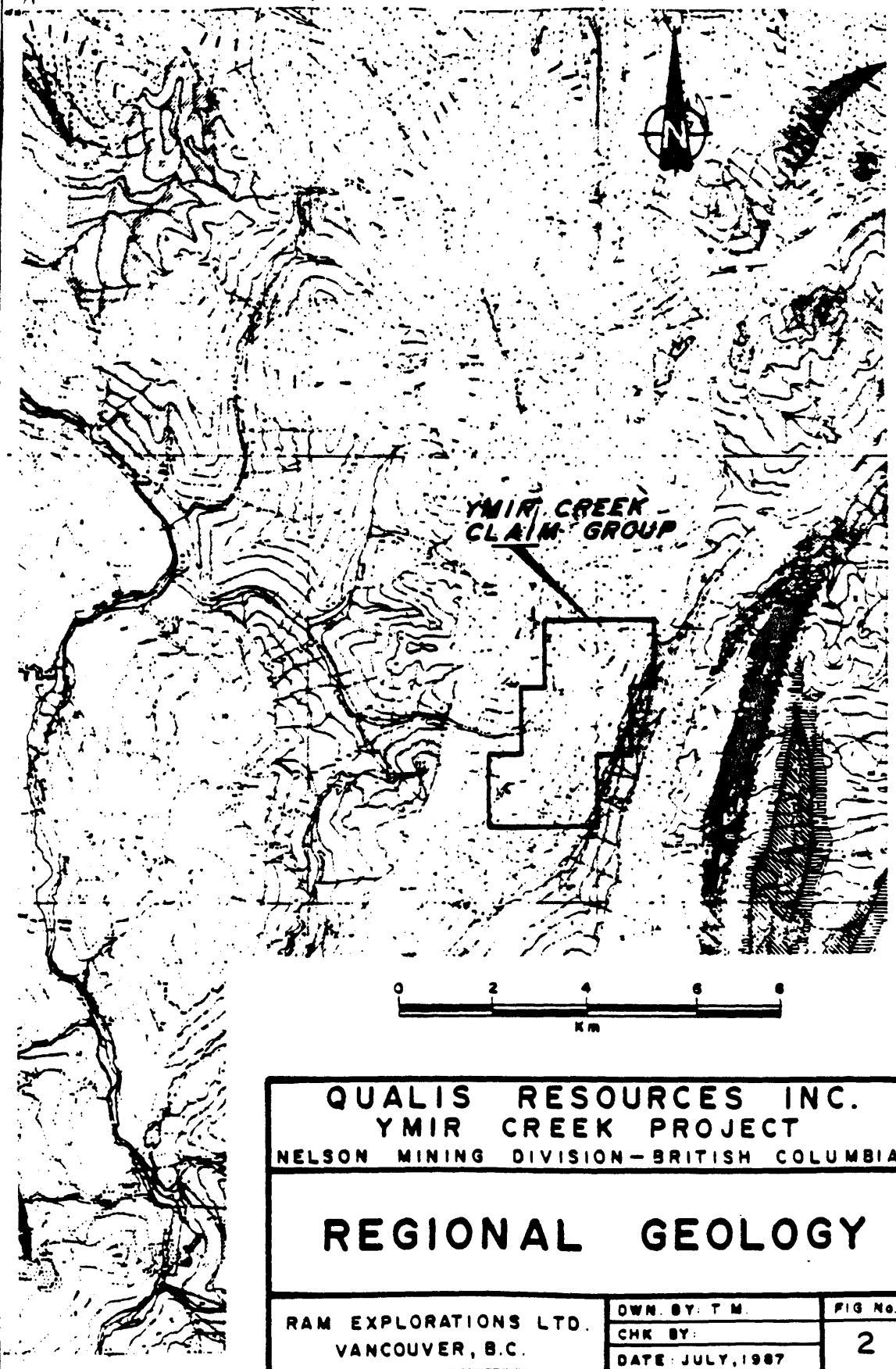
2.2 Regional Geology and Exploration Model

The Ymir Creek Claim Group is situated structurally within the Kootenay Arc, which is a belt of highly deformed sedimentary and volcanic rock extending from the Revelstoke area southwards along Kootenay Lake and southwest into the United States. This miogeosynclinal suite of rocks is locally intruded by acidic phases of Nelson plutonic rock.

The area is underlain by north-south trending lower Cambrian quartzites, argillites and limestones of the Quartzite Range, Reno, and Laib Formations, and Triassic and Jurassic sediments of the Ymir Group. These sediments are largely isoclinally folded and locally overturned, and thrust faulted eastwards. Porphyritic and gneissic granitic rocks have intruded much of the area during Lower Cretaceous emplacement of the Nelson batholith. Kersantite lamprophyre dykes and aplite dykes of Cretaceous and/or Tertiary age commonly cross-cut the granitic intrusives.

The most important deposit "type" in the Ymir Creek area are northeast-southwest and east-west striking quartz veins variably mineralized with pyrite, galena and sphalerite. At the former Yankee Girl, Dundee and Ymir Mines, a total of over 700,000 tons of ore was produced averaging more than 0.30 oz./ton gold. These veins are typically 2 - 5 feet (0.60 - 1.30 metres) in width (locally up to 12 feet in ore bearing sections) and dip steeply north. At the Yankee Girl Mine, a continuous ore shoot was mined over a vertical range of 1,000 feet (330 meters) and a horizontal range of approximately 400 feet (125 meters).

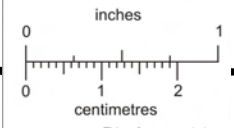
- LEGEND**
- CEANOZOIC**
- CRETACEOUS
 - JURASSIC AND CRETACEOUS
- MESOZOIC**
- TRIASSIC
 - TRIASSIC AND EARLIER
 - QUATERNARY AND LATER
 - QUATERNARY
- PALEOZOIC**
- CARBONIFEROUS
 - DEVONIAN
 - PERMIAN
- PROTEROZOIC**
- PROTEROZOIC



QUALIS RESOURCES INC.
YMIR CREEK PROJECT
 NELSON MINING DIVISION - BRITISH COLUMBIA

REGIONAL GEOLOGY

| | | |
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| RAM EXPLORATIONS LTD. VANCOUVER, B.C. | DWN BY: T.M. | FIG No. |
| | CHK BY: | 2 |
| | DATE: JULY, 1987 | |



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Drysdale, 1917 reports the formation of "L" and "T" shaped mineralized zones where veins abut the roof pendant-granitic contacts, and considering the high grade nature of local mineralization, such occurrences represent a significant target.

2.3 Property Geology and Description of Mineral Occurrences (please refer to Figure No. 3)

Locally, the property is underlain by porphyritic and gneissic granodiorite, which is foliated north-south with a near vertical dip, subparallel to the regional structural trend. Roof pendants of Ymir Group sediments have been incorporated within the intrusives, elongated north-northeast to south-southwest, with steep to near vertical dips. These pendants, which originally consisted of argillaceous quartzite and argillite, have been metamorphosed to quartz biotite schist and biotite schist. Figure 3 shows the location of these roof pendants and also shows approximate contacts between porphyritic and gneissic granodiorite.

Three principal areas of underground workings are known on the property including the "Foghorn", "Good Hope" and "Swiss Cheese" prospects. The focus of the present exploration program was to locate and evaluate these occurrences.

"Swiss Cheese" Prospect

The "Swiss Cheese" prospect consists of several short adits and trenches driven on both sides of a narrow steep ridge at an elevation of approximately 6,400 feet. These workings explore a 0.20 to 0.40 meter wide quartz vein striking N80°E within a 0.50 meter wide gouge zone near the contact with a quartz-biotite schist (roof pendant). The vein contains massive fine grained and coarse grained pyrite, however, oxidation is intense and vein/wallrock relationships are difficult to determine.


CERTIFICATE OF THE ISSUER

The foregoing constitutes full, true and plain disclosure of all material facts relating to the securities offered by this prospectus as required by the Securities Act of British Columbia and its regulations.

DATED: SEPT 12, 1991




Glen Charles (Kelly) Loder
Chief Executive Officer,
President, Director and Promoter



Michael Jay Loder
Chief Financial Officer,
Director and Promoter

On Behalf of the Board of Directors



Richard Lee LeBlanc
Director and Promoter



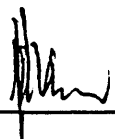
Nigel John Hulme
Director

CERTIFICATE OF THE AGENT

To the best of our knowledge, information and belief the foregoing constitutes full, true and plain disclosure of all material facts relating to the securities offered by this prospectus as required by the Securities Act of British Columbia and its regulations.

DATED: SEPT 12, 1991

GEORGIA PACIFIC SECURITIES CORPORATION

Per: 

Per: 