

85-648 -
14555

GEOCHEMICAL REPORT
ON THE FOURTH OF JULY MINERAL PROPERTY
NELSON MINING DIVISION, B.C.

Latitude: 49°20'N
Longitude: 117°08'W

08/86

NTS 82F-6E

Mineral Claims: Ariz. #1 Ray #1 to 10

Reverted Crown Grants: New Victor, Royal, Bywater, M.S.
Fourth of July, Arizona

Owner/Operator: Goldrich Resources Inc.
Vancouver, B.C.

FILMED

Author: B.H. Meyer, P. Geol.

Date Submitted: August 21, 1985

GEOLOGICAL BRANCH
ASSESSMENT REPORT

14,555

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SUMMARY

The property is underlain by porphyritic and gneissic granodiorite of the Nelson plutonic series, within the Kootenay Arc structural province. Roof pendants of Ymir Group sediments have been incorporated within the intrusives elongated north-northeast to south-southwest. These roof pendants have been metamorphosed to quartz-biotite schist and biotite schist.

Three east-west trending steeply dipping quartz fissure veins are known to exist on the property. They are mineralized with auriferous pyrite, galena and sphalerite and contain significant gold with minor silver, lead, and zinc values. Two veins closely situated to each other are present on the Fourth of July reverted grant. They are situated within the granodiorite and either terminate or are offset at the granodiorite-sediment contact. These veins have been partially mined, and constitute a portion of the Wilcox mine workings.

The third vein, situated on the Arizona reverted crown grant, has been geochemically interpreted as being offset near the Arizona-Willcock border, or decreasing in mineral content, or pinching out within the near surface rocks.

Further exploratory work has been recommended to be conducted along the roof pendant-granodiorite contact, and on the northwestern side of the roof pendant, within the granodiorite country rock.

BRITISH COLUMBIA

MINING DIVISIONS

Gold Commissioner's office

INDEX MAP

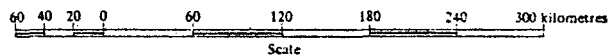
Figure 1

FOURTH OF JULY PROPERTY

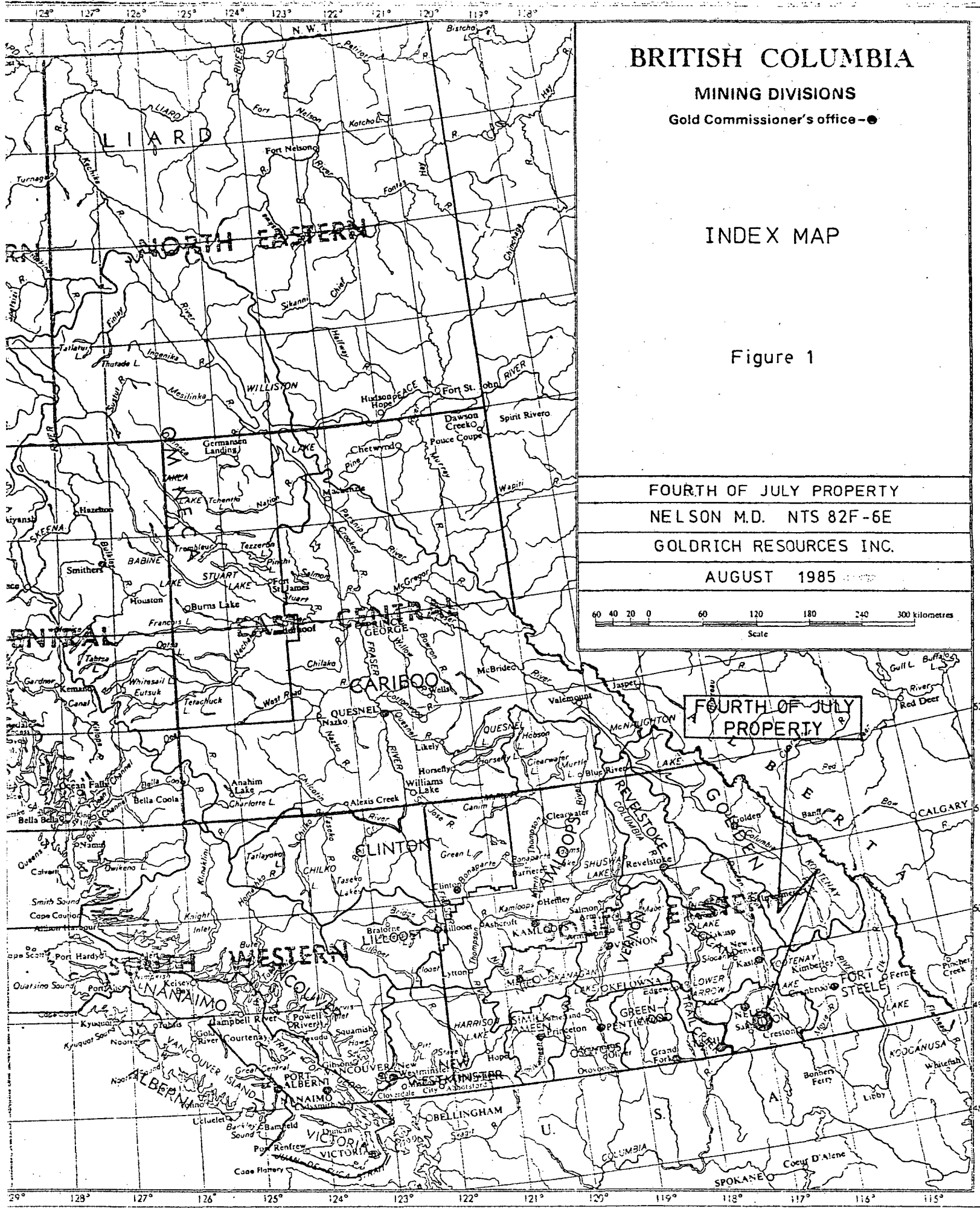
NELSON M.D. NTS 82F-6E

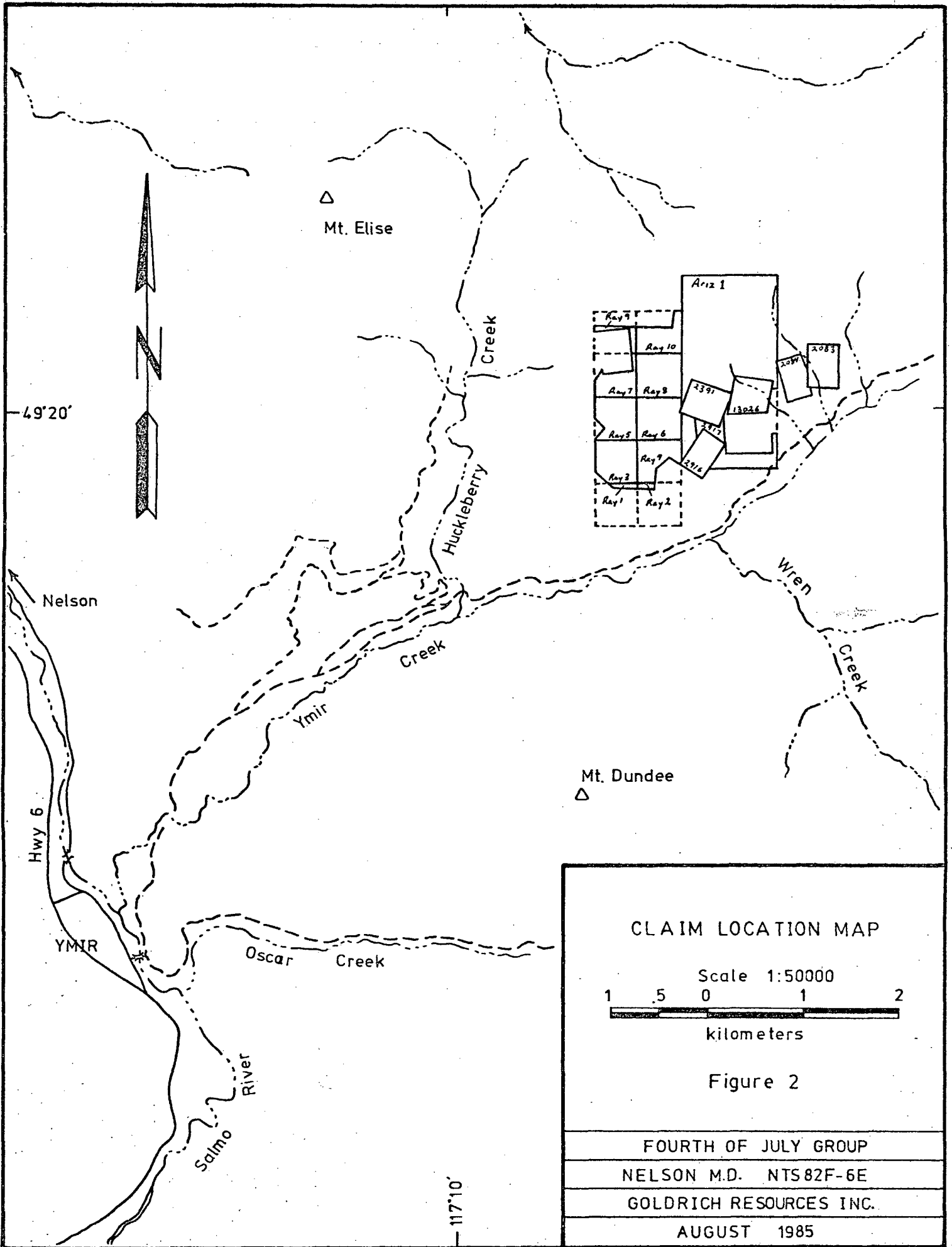
GOLDRICH RESOURCES INC.

AUGUST 1985



FOURTH OF JULY PROPERTY





CLAIM LOCATION MAP

Scale 1:50000



kilometers

Figure 2

| |
|-------------------------|
| FOURTH OF JULY GROUP |
| NELSON M.D. NTS 82F-6E |
| GOLDRICH RESOURCES INC. |
| AUGUST 1985 |

INTRODUCTION

An exploration program was conducted on the Fourth of July Group in July of 1985. The program consisted of geochemical soil sampling along certain elevation contours, and collecting rock samples for the purpose of geochemical analysis.

Location and Access (Latitude 49°20'N Longitude 117°08'W)

The property is situated in the Nelson Range of the Selkirk Mountains, eight kilometers northeast of the town of Ymir, which is 30 road kilometers (Hwy # 6) south of the city of Nelson. It is in the Nelson Mining Division, within map area 82F-6E of the National Topographic System.

The Fourth of July Group occupies the northwestern slope of Ymir Creek valley, extending north from Ymir Creek at 3500 feet elevation (1070 m.) to 6300 feet elevation (1920 m.). Access from Ymir to the property is gained via 10 kilometers of 2-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 Wilcox mine workings, part of which are situated on the Fourth of July property.

The topography of the area is steep and rugged with numerous granite cliffs and subsequent talus slopes. Two creeks (Rapid and Avalanche) drain the property area southeast to Ymir Creek, which in turn flows southwest into the Salmo River. Vegetation consists of cedar, spruce and fir near the base of the valley, and a thick growth of willow, alder and maple on the steep mountain slope. The climate is cool temperate, with an average annual precipitation of 60 to 80 centimeters. There is a heavy accumulation of snow in the winter months.

Property and Ownership

The Fourth of July Group consists of the following mineral claims and reverted crown grants, all of which are 100 percent owned by Goldrich Resources Inc. of Vancouver, B.C.:

Property and Ownership Cont'd

| <u>Reverted Crown Grant</u> | <u>Lot Number</u> | <u>Record Number</u> | <u>Hectares</u> | <u>Expiry Date</u> |
|-----------------------------|-------------------|----------------------|-----------------|--------------------|
| New Victor | 2083 | 3398 | 39.24 | Aug 30, 1985 |
| Royal | 2084 | 3399 | 13.06 | Sept 29, 1985 |
| Bywater | 2391 | 3400 | 18.00 | Sept 29, 1985 |
| M. S. | 2916 | 3402 | 12.51 | Sept 29, 1986 |
| Fourth of July | 2917 | 3402 | 3.14 | Sept 29, 1986 |
| Arizona | 13026 | 2946 | 13.15 | Feb 22, 1986 |

| <u>Located Mineral Claim</u> | <u>Record Number</u> | <u>Hectares</u> | <u>Expiry Date</u> |
|------------------------------|----------------------|-----------------|--------------------|
| Ariz # 1 (8 units) | 3162 | 200 | June 16, 1986 |
| Ray # 1 | 3471 | 20.9 | Aug 26, 1985 |
| Ray # 2 | 3472 | 20.9 | " |
| Ray # 3 | 3473 | 20.9 | " |
| Ray # 4 | 3474 | 20.9 | " |
| Ray # 5 | 3475 | 20.9 | " |
| Ray # 6 | 3476 | 20.9 | " |
| Ray # 7 | 3477 | 20.9 | Sept 23, 1985 |
| Ray # 8 | 3478 | 20.9 | " |
| Ray # 9 | 3479 | 20.9 | " |
| Ray # 10 | 3480 | 20.9 | " |

History

The Ymir Creek area first received attention by prospectors in 1885 when some placer mining was attempted. With the completion of the Nelson and Fort Sheppard railway in 1893, the area became more accessible, and the first mineral claims were staked in the summer of 1895. The year 1896 saw the beginning of increased mining activity, with numerous mineral claims being staked, mainly for the purpose of extracting gold from fissure vein deposits.

The Wilcox mine consisted of the Wilcock, Fourth of July and Bywater crown grants which were staked in 1896, and the three veins situated on the property (Fourth of July, Willcock and Little Willcock) were worked until 1904. Intermittent work continued until 1914 with the outbreak of war. Mining operations commenced in 1930 and continued intermittantly until 1943. Total production recorded from the Wilcox

History Cont'd

mine is: 16,040 tons yeilding 7,780 oz. gold(.485 oz./ton), 16,931 oz. silver(1.06 oz./ton), 216,547 lbs. lead, and 67,569 lbs. zinc (MINFILE, 1985).

There are three main tunnel levels within the Wilcox mine consisting of nearly 6,000 feet of development work. A four-stamp amalgamation mill, and later a Joshua Hendry mill was connected to the mine by a tramway 2200feet in length. Concentrates were shipped to smelters in Nelson and later to Trail.

A small amount of mining was carried out on the adjacent Arizona crown grant which contained a similarly mineralized quartz vein. The property was worked sporadically from 1905 to 1945, with a total estimated production of 326 tons of ore yeilding 254 oz. gold, 148 oz. silver and 232 lbs. copper.

Very little work has been conducted in the area since the 1940's. Last recorded work was carried out by Goldrich Resources Inc. in 1984, which consisted of geological mapping and geochemical soil sampling on the Fourth of July Group.

Present Activity

A total of five days was spent conducting a geochemical exploration program on the property between July 12 and July 24, 1985. The work crew consisted of two men.

Soil samples were collected at chained intervals of 25 and 50 meters along elevation contour lines, utilizing a contour interval of 200 vertical feet. These soil sample lines have a general trend of north-east-southwest and extend from the eastern edge of the New Victor to the southern edge of the Arizona reverted crown grants. A total of 126 soil samples were collected along these lines.

Ten rock samples were collected from the property for geochemical analysis. These include both surface grab and chip samples.

Present Activity Cont'd

The purpose of the program was to assess the mineral content of known veins, and to explore, by geochemical methods, the area adjacent to mineralized veins. Interpretation of the geochemical survey would indicate the correct procedure for further evaluation of this property.

GEOLOGY

Regional Geology

The Fourth of July 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.

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 cross cut sedimentary formations, are characteristic in the Ymir, Yankee Girl, Dundee, Fern and Wilcox mines.

Other vein types of lesser importance are those which parallel the strike of formations, in which lenses and pockets of quartz and associated gold, pyrrhotite, chalcopyrite, and pyrite mineralization occur

Regional Geology Cont'd

mainly within the Rossland Volcanics. Another mineralized fissure type is lenses of auriferous pyrite-bearing quartz striking along sediment-granitic contacts.

Local Geology

Locally, the property is underlain by porphyritic and gneissic granodiorite, which is foliated north-south with a near vertical dip, sub-parallel 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.

Three east-west trending quartz veins are situated on the property. Two veins, located on the Fourth of July claim at 4800 feet elevation (1460 m.) strike 95-115° and dip 50-55° north. The veins, which are 10-20 centimeters wide, are separated by 20 meters of foliated granodiorite, and are covered to the east by a talus slope of quartz-biotite schist. They extend westwards onto the Willcock crown grant. Part of the veins have been stoped to surface, and reportedly terminate at the schist-granodiorite contact (Drysdale 1917). Analyzed chip samples numbered J-07, J-08 and J-10 contained 0.813 (27,840 ppb), 0.021 (710 ppb), and 0.540 (18,480 ppb) oz./ton gold respectively. Minor disseminations and stringers of pyrite and occasional clusters of galena are present in the veins.

Three samples were collected from the roof pendant near its eastern contact with the granodiorite and the Fourth of July veins. Very low gold values were obtained upon analysis. The western contact of the sediments and granodiorite was not encountered.

One quartz vein encountered on the Arizona claim was exposed in old workings between 4400 and 4600 feet elevation (1340-1400 m.). The vein strikes 78-90° with a dip of 55-70° north, and pinches and swells

Local Geology Cont'd

varying on surface from 10 to 25 centimeters width. Three analyzed chip samples of the vein numbered J-01, J-03 and J-04 contained 0.024 (840 ppb), 3.415 (116,983 ppb) and 1.75 (59,006 ppb) oz./ton gold respectively. Samples J-03 and J-04 both consisted of smoky, drusy quartz with dense limonitic box works indicating the former presence of abundant fine to coarse grained sulfides (pyrite?) in clusters and disseminations. Sample number J-02 consisted of moderately sericitized and silicified granodiorite wall rock adjacent to the quartz vein. It contained only a trace of gold. The Arizona vein was not exposed above 4600 feet elevation.

Geochemistry

A total of 126 soil samples were collected along elevation contour lines between 4200 feet (1280 m.) and 5000 feet (1525 m.) elevation, utilizing 200 feet (60 m.) contour spacing. Samples were collected at 50 meter chained intervals along sample lines J0S and J1S at 4400 and 4200 feet elevation respectively. These lines trend northeast-southwest and extend from the east edge of the New Victor claim to Rapid Creek, which transects the Arizona claim. Samples were collected at 25 meter chained intervals along lines J0W, J1W, J2W and J3W at 4400, 4600, 4800, and 5000 feet elevations respectively. These lines trend north-south and extend from Rapid Creek to slightly beyond the southern border of the Arizona claim.

The area sampled generally consists of a thin layer of overburden, with localized areas of poorly developed immature soil existing at or near rock cliffs and talus slopes. Samples were collected from the B Horizon at a depth of about 18 centimeters. Rarely, a combination of A and C Horizons were sampled where only a very thin soil cover was present. Soil colors are generally medium brown to orange-brown.

All samples were analyzed by Vangeochem Lab Limited of Vancouver, B.C. for multi-element abundances. The detection method used was a hot acid extraction and ICAP geochemical analysis, with values recorded in parts per million or percentage. The gold detection method was by fire assay with values recorded in parts per billion.

Geochemistry Cont'd

A geochemical map showing both rock and soil sample locations has been produced at 1:5000 scale. Gold concentrations have been plotted with anomalous values arbitrarily chosen to be greater than 15ppb(see Figure 3). Relative abundances of silver, lead, zinc, and arsenic correlate favorably with the gold values.

A significant anomaly exists near the boundary of the Willcock and Arizona claims. The anomalous area is elongated east-west paralleling the topographical slope of the land. It reflects the position of the Wilcox mine area(partially due to contamination by mine dumps), and also the known strike of the mineralized veins.

In the southern part of the Arizona claim, a highly anomalous gold value reflects the position of the Arizona vein. However, the soil samples collected above slope and directly to the east of this location contain only background values. At this same elevation and slightly south, gold values are once again anomalous, which may suggest a southerly offset of the western part of the Arizona vein, or a decrease in mineralization or pinching out of the vein near surface.

Other anomalous values present within the sampled area are weak and scattered.

CONCLUSIONS AND RECOMMENDATIONS

The analyzed rock samples indicate that gold mineralization within east-west trending quartz veins is of economic significance. Unfortunately, the soil geochemistry did not outline an easterly continuation of the Arizona vein along strike. As mentioned previously, this vein may be offset or may pinch out.

While the mineralized veins within the Fourth of July reverted crown grant appear to terminate eastwards at the sediment-granodiorite contact along strike, the possibility of these veins being offset still exists(see assessment report # 12,726).

Conclusions and Recommendations Cont'd

Drysdale(1917) has reported the formation of L and T shaped mineralized zones where veins abut up against the roof pendant-granitic contact. This may be due to a damming effect by the less rigid roof pendant on the mineralizing solutions. This assumption leads to a proposal for further exploratory work to be conducted along the roof pendant-granodiorite contact. Exploration should also be conducted along the northwestern side of the roof pendant, where the geology is more favorable for the existence of mineralized quartz veins(i.e. a granitic host rock).

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A P P E N D I C E S



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REPORT NUMBER: 85-35-003

JOB NUMBER: 85228

GOLDRICH RESOURCES INC.

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| SAMPLE # | Au |
|------------|------|
| | ppb |
| J05 0+00 | nd |
| J05 0+50W | nd |
| J05 1+00W | 10 |
| J05 1+50W | 10 |
| J05 2+00W | 20 |
| J05 2+50W | 10 |
| J05 3+00W | nd |
| J05 3+50W | nd |
| J05 4+00W | nd |
| J05 4+50W | 15 |
| J05 5+00W | nd |
| J05 5+50W | 20 |
| J05 6+00W | nd |
| J05 6+50W | nd |
| J05 7+00W | nd |
| J05 7+50W | 20 |
| J05 8+00W | nd |
| J05 8+50W | nd |
| J05 9+00W | nd |
| J05 9+50W | nd |
| J05 10+00W | 30 |
| J05 10+50W | 20 |
| J05 11+00W | nd |
| J05 11+50W | nd |
| J05 12+00W | 30 |
| J05 12+50W | 10 |
| J05 13+00W | 20 |
| J05 13+50W | 20 |
| J05 14+00W | 10 |
| J05 14+50W | 10 |
| J05 15+00W | 20 |
| J05 15+50W | 80 |
| J05 16+00W | 10 |
| J05 17+00W | 10 |
| J05 17+50W | nd |
| J05 18+00W | nd |
| J05 18+40W | nd |
| J0W 0+00 | 4700 |
| J0W 0+25N | nd |

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample



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| SAMPLE # | Au |
|------------|-------|
| J0W 0+50N | 140 |
| J0W 0+75N | 10 |
| J0W 1+00N | 30 |
| J0W 1+25N | 5 |
| J0W 1+50N | 5 |
| J0W 0+25S | 5 |
| J0W 0+50S | 70 |
| J0W 0+75S | 35 |
| J0W 1+00S | 11300 |
| J0W 1+25S | 6000 |
| J0W 1+50S | 180 |
| J1S 0+00 | nd |
| J1S 0+50W | 20 |
| J1S 1+00W | nd |
| J1S 1+50W | nd |
| J1S 2+00W | 20 |
| J1S 2+50W | nd |
| J1S 3+00W | 20 |
| J1S 3+50W | nd |
| J1S 4+00W | nd |
| J1S 4+50W | 10 |
| J1S 5+00W | 50 |
| J1S 5+50W | 20 |
| J1S 6+00W | nd |
| J1S 6+50W | 10 |
| J1S 7+00W | nd |
| J1S 7+50W | nd |
| J1S 8+00W | nd |
| J1S 8+50W | nd |
| J1S 9+00W | 10 |
| J1S 9+50W | nd |
| J1S 10+00W | 20 |
| J1S 10+50W | 10 |
| J1S 11+00W | nd |
| J1S 11+50W | nd |
| J1S 12+00W | 10 |
| J1S 12+50W | nd |
| J1S 13+00W | nd |
| J1S 13+50W | 80 |

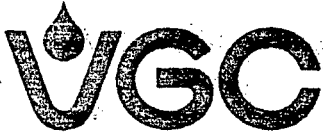
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| SAMPLE # | Au ppb |
|------------|-----------|
| J1S 14+00W | 610 |
| J1S 14+50W | 20 |
| J1S 15+00W | nd |
| J1S 15+50W | nd |
| J1S 16+00W | nd |
| J1S 16+50W | nd |
| J1S 17+00W | 140 |
| J1S 17+50W | nd |
| J1S 18+00W | nd |
| J1W 0+00 | nd |
| J1W 0+25N | 10 |
| J1W 0+50N | 10 |
| J1W 0+75N | nd |
| J1W 1+00N | nd |
| J1W 1+25N | nd |
| J1W 1+50N | 10 |
| J1W 0+25S | nd |
| J1W 0+50S | 1000 |
| J1W 0+75S | 270 |
| J1W 1+00S | 350 |
| J1W 1+25S | 230 |
| J1W 1+50S | 330 |
| J2W 0+00 | nd |
| J2W 0+25N | nd |
| J2W 0+50N | nd |
| J2W 0+75N | 10 |
| J2W 1+00N | nd |
| J2W 1+25N | 5 |
| J2W 1+50N | 5 |
| J2W 0+25S | 90 |
| J2W 0+50S | 80 |
| J2W 0+75S | nd |
| J2W 1+00S | 150 |
| J2W 1+25S | 180 |
| J2W 1+50S | 90 |
| J3W 0+00 | nd |
| J3W 0+25N | nd |
| J3W 0+50N | nd |
| J3W 0+75N | nd |

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample



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| SAMPLE # | Au |
|-----------|----|
| J3W 1+00N | nd |
| J3W 1+25N | 5 |
| J3W 1+50N | nd |
| J3W 0+25S | nd |
| J3W 0+50S | 10 |
| J3W 0+75S | 15 |
| J3W 1+00S | 15 |
| J3W 1+25S | 10 |
| J3W 1+50S | 10 |

DETECTION LIMIT

5

nd = none detected

— = not analysed

is = insufficient sample

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ICAP GEOCHEMICAL ANALYSIS

A .5 GRAM SAMPLE IS DIGESTED WITH 5 ML OF 3:1:3 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 SM, MA, FE, CA, P, CR, MG, BA, PD, AL, NA, K, W, PT AND SR. AU AND PD DETECTION IS 3 PPM.
 IS= INSUFFICIENT SAMPLE, ND= NOT DETECTED, -- NOT ANALYZED

COMPANY: GOLDRICH RESOURCES INC.
 ATTENTION: MR. BILL DAY
 PROJECT: FOURTH OF JULY

REPORT#: 85-35-008
 JOB#: 85228
 INVOICE#: 0787

DATE RECEIVED: 85/07/26
 DATE COMPLETED: 85/08/01
 COPY SENT TO: MR. BILL DAY

ANALYST: *W. Rees*

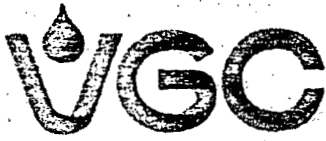
PAGE 1 OF 4

| 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 | MO PPM | NA % | NI PPM | P % | PB PPM | PD PPM | PT PPM | SB PPM | SM PPM | SR PPM | U PPM | W PPM | ZN PPM |
|-------------|-----------|---------|-----------|-----------|-----------|-----------|---------|-----------|-----------|-----------|-----------|---------|--------|---------|-----------|-----------|---------|-----------|--------|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|-----------|
| JOS 0+00 | .5 | 2.17 | 11 | ND | 106 | ND | .09 | 1.5 | 7 | 19 | 15 | 2.15 | .06 | .37 | 1328 | ND | .01 | 16 | .07 | 45 | ND | ND | ND | ND | 21 | ND | ND | 123 |
| JOS 0+50W | .2 | 2.09 | 11 | ND | 402 | ND | .47 | 13.6 | 8 | 12 | 22 | 2.24 | .09 | .28 | 5267 | ND | .01 | 12 | .11 | 67 | ND | ND | ND | 1 | 95 | ND | ND | 303 |
| JOS 1+00W | .1 | 2.33 | 8 | ND | 199 | ND | .30 | 8.8 | 8 | 17 | 18 | 2.43 | .09 | .43 | 2576 | ND | .01 | 14 | .17 | 59 | ND | ND | ND | ND | 58 | ND | ND | 348 |
| JOS 1+50W | .6 | 3.11 | ND | ND | 359 | ND | .62 | 6.4 | 10 | 22 | 23 | 3.32 | .17 | .90 | 3485 | ND | .01 | 18 | .22 | 65 | ND | ND | ND | 3 | 104 | ND | 4 | 302 |
| JOS 2+00W | .6 | 3.14 | ND | ND | 222 | ND | .42 | 9.6 | 10 | 19 | 16 | 2.52 | .11 | .54 | 2525 | ND | .01 | 22 | .15 | 35 | ND | ND | ND | 3 | 117 | ND | ND | 369 |
| JOS 2+50W | .5 | 2.47 | ND | ND | 114 | ND | .32 | 2.2 | 7 | 17 | 15 | 2.25 | .10 | .44 | 1096 | 1 | .01 | 15 | .13 | 45 | ND | ND | ND | 1 | 66 | ND | 3 | 155 |
| JOS 3+00W | 1.1 | 2.32 | 3 | ND | 118 | ND | .15 | .3 | 7 | 17 | 14 | 2.45 | .08 | .39 | 759 | 1 | .01 | 14 | .08 | 33 | ND | ND | ND | 5 | 52 | ND | ND | 116 |
| JOS 3+50W | .6 | 2.39 | ND | ND | 114 | ND | .15 | .8 | 7 | 15 | 13 | 2.42 | .05 | .36 | 1617 | 1 | .01 | 13 | .07 | 34 | ND | ND | ND | 4 | 31 | ND | ND | 116 |
| JOS 4+00W | .5 | 2.37 | ND | ND | 93 | ND | .28 | .8 | 8 | 18 | 14 | 2.55 | .10 | .54 | 844 | 3 | .01 | 16 | .10 | 30 | ND | ND | ND | 4 | 60 | ND | 4 | 149 |
| JOS 4+50W | .8 | 2.72 | ND | ND | 546 | 4 | .30 | 1.7 | 13 | 43 | 21 | 3.02 | .13 | .90 | 2628 | ND | .01 | 41 | .24 | 33 | ND | ND | ND | 5 | 66 | ND | 6 | 178 |
| JOS 5+00W | .6 | 2.71 | ND | ND | 227 | ND | .23 | .8 | 11 | 29 | 15 | 2.96 | .12 | .79 | 1022 | ND | .01 | 26 | .11 | 33 | ND | ND | ND | 3 | 45 | ND | ND | 143 |
| JOS 5+50W | .6 | 2.70 | 4 | ND | 105 | ND | .11 | .4 | 9 | 23 | 14 | 2.84 | .05 | .66 | 714 | 1 | .01 | 19 | .06 | 26 | ND | ND | ND | 1 | 19 | ND | 3 | 115 |
| JOS 6+00W | 1.1 | 3.03 | ND | ND | 253 | ND | .20 | .6 | 10 | 24 | 16 | 2.75 | .12 | .74 | 1624 | ND | .01 | 24 | .08 | 33 | ND | ND | ND | 3 | 38 | ND | ND | 165 |
| JOS 6+50W | .6 | 2.04 | 3 | ND | 143 | ND | .19 | 1.1 | 7 | 17 | 12 | 2.54 | .10 | .51 | 1294 | ND | .01 | 15 | .12 | 90 | ND | ND | ND | 1 | 30 | ND | ND | 153 |
| JOS 7+00W | .8 | 3.88 | ND | ND | 258 | ND | .25 | 2.7 | 10 | 19 | 16 | 2.85 | .12 | .49 | 2002 | ND | .01 | 18 | .16 | 33 | ND | ND | ND | 3 | 37 | ND | ND | 179 |
| JOS 7+50W | .8 | 1.49 | 5 | ND | 326 | ND | .92 | 6.1 | 8 | 16 | 28 | 2.05 | .13 | .41 | 3082 | ND | .01 | 14 | .20 | 43 | ND | ND | ND | 2 | 124 | ND | ND | 238 |
| JOS 8+00W | 1.2 | 1.94 | 5 | ND | 121 | ND | .45 | 1.3 | 9 | 22 | 17 | 2.68 | .14 | .74 | 845 | ND | .01 | 17 | .16 | 20 | ND | ND | ND | 1 | 65 | ND | ND | 111 |
| JOS 8+50W | .6 | 1.36 | 10 | ND | 85 | ND | .20 | 1.7 | 6 | 17 | 24 | 2.25 | .10 | .38 | 583 | 2 | .01 | 14 | .18 | 31 | ND | ND | ND | 2 | 36 | ND | ND | 85 |
| JOS 9+00W | .8 | 2.83 | ND | ND | 141 | ND | .11 | 1.3 | 8 | 18 | 13 | 2.41 | .08 | .44 | 1045 | ND | .01 | 17 | .22 | 33 | ND | ND | ND | ND | 18 | ND | ND | 167 |
| JOS 9+50W | 1.1 | 2.36 | 9 | ND | 116 | ND | .16 | .8 | 8 | 23 | 14 | 2.75 | .11 | .68 | 593 | 1 | .01 | 22 | .09 | 37 | ND | ND | ND | ND | 22 | ND | ND | 134 |
| JOS 10+00W | 1.1 | 1.61 | 9 | ND | 173 | ND | .28 | 3.5 | 7 | 16 | 14 | 2.01 | .05 | .38 | 1756 | 1 | .01 | 21 | .11 | 50 | ND | ND | ND | 1 | 48 | ND | ND | 139 |
| JOS 10+50W | .8 | 3.00 | ND | ND | 115 | ND | .14 | .4 | 8 | 18 | 10 | 2.99 | .09 | .37 | 439 | ND | .01 | 15 | .22 | 34 | ND | ND | ND | 4 | 22 | ND | ND | 121 |
| JOS 11+00W | 1.1 | 3.08 | ND | ND | 177 | ND | .10 | 1.1 | 8 | 11 | 10 | 2.04 | .07 | .18 | 1171 | ND | .01 | 9 | .12 | 23 | ND | ND | ND | ND | 18 | ND | ND | 127 |
| JOS 11+50W | 1.2 | 3.10 | ND | ND | 160 | ND | .09 | .6 | 8 | 16 | 14 | 2.71 | .09 | .33 | 498 | ND | .01 | 11 | .10 | 32 | ND | ND | ND | 3 | 18 | ND | ND | 115 |
| JOS 12+00W | .8 | 3.54 | ND | ND | 244 | ND | .27 | 3.0 | 7 | 11 | 12 | 2.27 | .09 | .28 | 3248 | ND | .01 | 10 | .22 | 29 | ND | ND | ND | 3 | 53 | ND | ND | 159 |
| JOS 12+50W | 1.1 | 3.63 | ND | ND | 229 | ND | .17 | 1.6 | 8 | 15 | 12 | 2.53 | .09 | .39 | 1340 | ND | .01 | 16 | .09 | 40 | ND | ND | ND | 2 | 37 | ND | ND | 155 |
| JOS 13+00W | .8 | 2.69 | ND | ND | 865 | ND | .46 | 4.3 | 12 | 24 | 16 | 2.92 | .11 | .63 | 3352 | ND | .01 | 24 | .31 | 41 | ND | ND | ND | 3 | 79 | ND | ND | 246 |
| JOS 13+50W | .8 | 2.48 | ND | ND | 669 | 3 | .29 | 2.4 | 14 | 35 | 20 | 2.86 | .13 | 1.01 | 1693 | ND | .01 | 33 | .24 | 62 | ND | ND | ND | 3 | 56 | ND | 5 | 198 |
| JOS 14+00W | .8 | 1.90 | 5 | ND | 595 | ND | .60 | 7.5 | 8 | 13 | 27 | 2.29 | .12 | .38 | 5545 | ND | .01 | 15 | .22 | 166 | ND | ND | ND | ND | 121 | ND | ND | 255 |
| JOS 14+50W | .6 | 2.14 | 20 | ND | 309 | ND | .28 | 4.6 | 7 | 13 | 16 | 2.38 | .09 | .33 | 3699 | ND | .01 | 12 | .10 | 93 | ND | ND | ND | ND | 45 | ND | ND | 226 |
| JOS 15+00W | 1.1 | 2.18 | 42 | ND | 218 | ND | .22 | 3.7 | 7 | 13 | 18 | 2.54 | .09 | .31 | 3501 | ND | .01 | 13 | .20 | 68 | ND | ND | 3 | ND | 34 | ND | ND | 230 |
| JOS 15+50W | 1.2 | 3.05 | 54 | ND | 114 | ND | .20 | 3.4 | 6 | 13 | 18 | 2.90 | .09 | .37 | 2267 | ND | .01 | 14 | .10 | 175 | ND | ND | ND | ND | 30 | ND | ND | 311 |
| JOS 16+00W | .8 | 2.08 | 38 | ND | 289 | ND | .31 | 4.1 | 7 | 18 | 16 | 2.77 | .10 | .47 | 3185 | ND | .01 | 16 | .11 | 118 | ND | ND | 3 | ND | 55 | ND | ND | 255 |
| JOS 17+00W | .6 | 2.62 | ND | ND | 396 | ND | .54 | 21.2 | 8 | 17 | 21 | 2.55 | .12 | .44 | 3952 | ND | .01 | 19 | .11 | 59 | ND | ND | ND | ND | 150 | ND | ND | 306 |
| JOS 17+50W | .6 | 2.58 | 3 | ND | 143 | ND | .11 | 1.1 | 8 | 23 | 17 | 2.42 | .08 | .54 | 1630 | ND | .01 | 20 | .05 | 32 | ND | ND | ND | ND | 20 | ND | ND | 124 |
| JOS 18+00W | 1.1 | 2.81 | 3 | ND | 175 | ND | .37 | 1.6 | 9 | 22 | 17 | 2.59 | .11 | .60 | 794 | ND | .01 | 20 | .10 | 31 | ND | ND | ND | 1 | 72 | ND | ND | 123 |
| JOS 19+00W | 1.1 | 2.47 | 26 | ND | 204 | ND | .53 | 23.5 | 13 | 18 | 26 | 3.90 | .17 | .66 | 1985 | 1 | .01 | 25 | .22 | 74 | ND | ND | ND | ND | 82 | ND | ND | 429 |
| JOW 0+00 | 6.8 | .87 | 691 | 5 | 160 | ND | .16 | 55.7 | 6 | 16 | 38 | 4.42 | .13 | .30 | 1738 | 4 | .01 | 11 | .10 | 565 | ND | ND | 4 | ND | 59 | ND | ND | 2167 |
| JOW 0+25H | .6 | 1.68 | 19 | ND | 218 | ND | .39 | 7.5 | 6 | 10 | 14 | 2.50 | .11 | .32 | 3213 | ND | .01 | 10 | .08 | 93 | ND | ND | 3 | ND | 86 | ND | ND | 323 |

| SAMPLE NAME | AG 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 | MA PPM | MO PPM | NA I | NI PPM | P I | PB PPM | PD PPM | PT PPM | SE PPM | SN PPM | SP PPM | U PPM | W PPM | ZN PPM |
|-------------|-----------|---------|-----------|-----------|-----------|-----------|---------|-----------|-----------|-----------|-----------|---------|--------|---------|-----------|-----------|---------|-----------|--------|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|-----------|
| JOW 0+50N | 1.4 | 2.34 | 12 | ND | 158 | ND | .31 | 7.4 | 6 | 14 | 18 | 2.59 | .16 | .36 | 1653 | ND | .01 | 11 | .12 | 88 | ND | ND | ND | ND | 57 | ND | ND | 385 |
| JOW 0+75N | .4 | 1.61 | 12 | ND | 391 | ND | .61 | 12.5 | 6 | 10 | 13 | 2.13 | .09 | .30 | 3701 | ND | .01 | 10 | .14 | 46 | ND | ND | ND | ND | 116 | ND | ND | 319 |
| JOW 1+00N | .4 | 1.64 | 14 | ND | 492 | ND | .26 | 6.4 | 8 | 15 | 15 | 2.64 | .10 | .50 | 3053 | ND | .01 | 16 | .11 | 55 | ND | ND | ND | ND | 59 | ND | ND | 252 |
| JOW 1+25N | .8 | 2.66 | ND | ND | 355 | ND | .25 | 2.5 | 8 | 15 | 12 | 2.63 | .09 | .56 | 1543 | ND | .01 | 17 | .13 | 37 | ND | ND | ND | ND | 66 | ND | ND | 180 |
| JOW 1+50N | .6 | 4.02 | ND | ND | 461 | 4 | .20 | 1.1 | 11 | 23 | 15 | 3.19 | .11 | .80 | 722 | ND | .01 | 34 | .13 | 30 | ND | ND | ND | 1 | 51 | ND | 4 | 149 |
| JOW 0+25S | .2 | 1.39 | 17 | ND | 577 | ND | .86 | 29.3 | 5 | 6 | 22 | 2.08 | .12 | .32 | 8526 | ND | .01 | 6 | .12 | 173 | ND | ND | ND | ND | 166 | ND | ND | 456 |
| JOW 0+50S | .8 | 2.41 | 16 | ND | 277 | ND | .45 | 11.3 | 6 | 12 | 20 | 2.77 | .11 | .45 | 2459 | ND | .01 | 13 | .27 | 312 | ND | ND | ND | ND | 104 | ND | ND | 522 |
| JOW 0+75S | .4 | 1.77 | 40 | ND | 123 | ND | .22 | 3.9 | 4 | 15 | 9 | 2.71 | .09 | .39 | 1594 | ND | .01 | 5 | .08 | 110 | ND | ND | ND | ND | 57 | ND | ND | 303 |
| JOW 1+00S | 26.3 | .43 | 421 | 16 | 73 | 21 | .09 | 17.1 | 3 | 19 | 39 | 6.25 | .13 | .07 | 1067 | 4 | .01 | 2 | .12 | 4009 | ND | ND | 4 | ND | 53 | ND | ND | 1315 |
| JOW 1+25S | 16.3 | 1.19 | 253 | 6 | 132 | 15 | .34 | 75.5 | 11 | 25 | 38 | 5.01 | .15 | .60 | 2396 | 5 | .01 | 11 | .15 | 3081 | ND | ND | 3 | ND | 60 | ND | 3 | 2943 |
| JOW 1+50S | 1.2 | 2.74 | 31 | ND | 108 | ND | .14 | 5.0 | 6 | 11 | 12 | 2.54 | .06 | .28 | 1389 | ND | .01 | 9 | .09 | 194 | ND | ND | ND | ND | 23 | ND | ND | 399 |
| JIS 0+00 | .4 | 1.92 | 10 | ND | 223 | ND | .27 | 1.3 | 6 | 18 | 12 | 2.06 | .06 | .33 | 1843 | ND | .01 | 16 | .07 | 36 | ND | ND | ND | ND | 58 | ND | ND | 123 |
| JIS 0+50W | .6 | 1.93 | 14 | ND | 237 | ND | .29 | 2.7 | 10 | 26 | 17 | 2.42 | .07 | .40 | 2815 | ND | .01 | 18 | .09 | 40 | ND | ND | ND | ND | 49 | ND | ND | 191 |
| JIS 1+00W | .3 | 2.28 | 5 | ND | 292 | ND | .37 | 4.3 | 10 | 30 | 17 | 2.60 | .08 | .47 | 3268 | ND | .01 | 27 | .06 | 32 | ND | ND | ND | ND | 68 | ND | ND | 180 |
| JIS 1+50W | .1 | 2.15 | 8 | ND | 219 | ND | .29 | 6.0 | 9 | 25 | 17 | 2.55 | .09 | .51 | 2249 | ND | .01 | 20 | .15 | 48 | ND | ND | ND | ND | 53 | ND | ND | 265 |
| JIS 2+00W | .2 | 2.68 | 7 | ND | 152 | ND | .41 | 18.7 | 8 | 22 | 17 | 2.58 | .10 | .47 | 2796 | ND | .01 | 21 | .12 | 78 | ND | ND | ND | ND | 77 | ND | ND | 738 |
| JIS 2+50W | .2 | 2.01 | 7 | ND | 299 | ND | .38 | 11.1 | 9 | 25 | 15 | 2.44 | .09 | .59 | 2053 | ND | .01 | 21 | .14 | 67 | ND | ND | ND | ND | 71 | ND | ND | 398 |
| JIS 3+00W | .4 | 2.54 | 3 | ND | 205 | ND | .37 | 4.5 | 9 | 25 | 14 | 2.47 | .11 | .55 | 1729 | ND | .01 | 21 | .08 | 41 | ND | ND | ND | ND | 93 | ND | ND | 252 |
| JIS 3+50W | .6 | 2.45 | ND | ND | 175 | ND | .23 | 1.7 | 7 | 16 | 14 | 2.22 | .06 | .37 | 915 | ND | .01 | 12 | .06 | 21 | ND | ND | ND | ND | 43 | ND | ND | 126 |
| JIS 4+00W | .5 | 3.14 | ND | ND | 111 | ND | .17 | .6 | 6 | 19 | 15 | 2.47 | .07 | .54 | 529 | ND | .01 | 16 | .10 | 22 | ND | ND | ND | ND | 27 | ND | ND | 99 |
| JIS 4+50W | .6 | 1.97 | 6 | ND | 152 | ND | .22 | 2.2 | 8 | 21 | 14 | 2.37 | .09 | .57 | 1297 | ND | .01 | 22 | .07 | 27 | ND | ND | ND | 2 | 40 | ND | ND | 169 |
| JIS 5+00W | 1.6 | 2.58 | 44 | ND | 156 | ND | .24 | 1.5 | 8 | 18 | 16 | 2.53 | .09 | .55 | 973 | ND | .01 | 19 | .08 | 80 | ND | ND | 6 | 1 | 45 | ND | ND | 125 |
| JIS 5+50W | .6 | 2.19 | 16 | ND | 93 | ND | .22 | .4 | 8 | 23 | 18 | 2.63 | .10 | .79 | 456 | 3 | .01 | 21 | .09 | 34 | ND | ND | ND | ND | 30 | ND | ND | 108 |
| JIS 6+00W | .6 | 2.73 | 13 | ND | 155 | ND | .39 | 2.0 | 6 | 23 | 17 | 2.58 | .11 | .69 | 823 | ND | .01 | 19 | .12 | 51 | ND | ND | ND | 1 | 79 | ND | ND | 117 |
| JIS 6+50W | 1.2 | 1.68 | 30 | ND | 139 | ND | .27 | 2.9 | 6 | 18 | 13 | 2.42 | .09 | .47 | 923 | 1 | .01 | 12 | .05 | 47 | ND | ND | ND | ND | 59 | ND | ND | 160 |
| JIS 7+00W | .6 | 1.81 | 12 | ND | 164 | ND | .23 | 2.4 | 6 | 14 | 8 | 2.29 | .06 | .33 | 1646 | ND | .01 | 10 | .12 | 43 | ND | ND | ND | ND | 45 | ND | ND | 167 |
| JIS 7+50W | .6 | 2.01 | 13 | ND | 142 | ND | .23 | 1.2 | 6 | 15 | 9 | 2.25 | .07 | .45 | 740 | 1 | .01 | 11 | .13 | 22 | ND | ND | ND | ND | 37 | ND | ND | 133 |
| JIS 8+00W | .3 | 1.89 | 11 | ND | 202 | ND | .33 | 2.9 | 6 | 16 | 11 | 2.03 | .08 | .49 | 1057 | ND | .01 | 14 | .14 | 49 | ND | ND | ND | ND | 54 | ND | ND | 128 |
| JIS 8+50W | .6 | 2.11 | 10 | ND | 691 | ND | .63 | 9.6 | 6 | 11 | 15 | 1.79 | .06 | .19 | 6167 | ND | .01 | 9 | .29 | 71 | ND | ND | ND | 1 | 128 | ND | ND | 231 |
| JIS 9+00W | 1.1 | 2.36 | 16 | ND | 141 | ND | .19 | 9.6 | 6 | 12 | 10 | 2.56 | .06 | .30 | 1890 | ND | .01 | 10 | .11 | 73 | ND | ND | ND | ND | 33 | ND | ND | 413 |
| JIS 9+50W | .2 | 2.11 | 5 | ND | 288 | ND | .39 | 5.9 | 6 | 12 | 15 | 2.29 | .08 | .41 | 2636 | ND | .01 | 10 | .17 | 31 | ND | ND | ND | ND | 62 | ND | ND | 250 |
| JIS 10+00W | .2 | 2.64 | 6 | ND | 266 | ND | .40 | 3.4 | 7 | 13 | 16 | 2.50 | .08 | .40 | 1958 | ND | .01 | 11 | .15 | 42 | ND | ND | ND | 1 | 66 | ND | ND | 216 |
| JIS 10+50W | .2 | 2.13 | 39 | ND | 261 | ND | .19 | 5.4 | 6 | 12 | 14 | 2.22 | .06 | .34 | 1855 | ND | .01 | 10 | .11 | 96 | ND | ND | ND | ND | 38 | ND | ND | 237 |
| JIS 11+00W | .8 | 2.39 | 28 | ND | 670 | ND | .47 | 6.5 | 7 | 15 | 17 | 2.36 | .09 | .46 | 2520 | ND | .01 | 14 | .23 | 104 | ND | ND | ND | 1 | 156 | ND | ND | 239 |
| JIS 11+50W | .8 | 1.86 | 10 | ND | 487 | ND | .49 | 4.5 | 6 | 18 | 16 | 2.10 | .09 | .56 | 1766 | ND | .01 | 19 | .15 | 58 | ND | ND | ND | 2 | 94 | ND | ND | 197 |
| JIS 12+00W | .6 | 3.13 | 54 | ND | 341 | ND | .39 | 5.8 | 8 | 20 | 19 | 2.73 | .09 | .55 | 2626 | ND | .01 | 18 | .17 | 98 | ND | ND | ND | 3 | 77 | ND | ND | 300 |
| JIS 12+50W | .3 | 1.80 | 32 | ND | 154 | ND | .22 | 6.6 | 5 | 10 | 14 | 2.08 | .07 | .31 | 1827 | ND | .01 | 8 | .11 | 58 | ND | ND | ND | ND | 36 | ND | ND | 301 |
| JIS 13+00W | .1 | 1.52 | 19 | ND | 140 | ND | .26 | 3.9 | 4 | 11 | 9 | 1.91 | .07 | .29 | 1918 | ND | .01 | 9 | .06 | 45 | ND | ND | ND | ND | 39 | ND | ND | 190 |
| JIS 13+50W | .3 | 2.12 | 16 | ND | 147 | 3 | .21 | 9.3 | 7 | 13 | 11 | 2.48 | .08 | .40 | 2673 | ND | .01 | 10 | .08 | 196 | ND | ND | ND | ND | 38 | ND | ND | 363 |

| 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 | MO PPM | NA % | NI PPM | P % | PB PPM | PD PPM | PT PPM | SB PPM | SH PPM | SE PPM | U PPM | W PPM | ZN PPM | |
|-------------|--------|------|--------|--------|--------|--------|------|--------|--------|--------|--------|------|-----|------|--------|--------|------|--------|-----|--------|--------|--------|--------|--------|--------|-------|-------|--------|-----|
| J1S 14+00W | .8 | 3.69 | 8 | ND | 111 | ND | .25 | 1.1 | 6 | 12 | 11 | 2.30 | .09 | .39 | 448 | ND | .01 | 11 | .17 | 46 | ND | ND | ND | 1 | 38 | ND | ND | 112 | |
| J1S 14+50W | .2 | 3.01 | ND | ND | 132 | ND | .23 | 1.3 | 7 | 13 | 12 | 2.73 | .10 | .48 | 1318 | ND | .01 | 11 | .18 | 32 | ND | ND | ND | 3 | 43 | ND | ND | 149 | |
| J1S 15+00W | .5 | 2.74 | 6 | ND | 181 | ND | .37 | 4.1 | 9 | 36 | 13 | 3.18 | .14 | .90 | 1039 | ND | .01 | 19 | .12 | 35 | ND | ND | ND | 4 | 49 | ND | ND | 260 | |
| J1S 15+50W | .5 | 2.77 | ND | ND | 102 | ND | .13 | 1.2 | 5 | 15 | 12 | 2.90 | .06 | .45 | 546 | ND | .01 | 10 | .20 | 32 | ND | ND | ND | ND | 21 | ND | ND | 161 | |
| J1S 16+00W | .3 | .97 | 16 | ND | 247 | ND | .18 | 5.9 | 4 | 7 | 9 | 1.78 | .05 | .21 | 3295 | ND | .01 | 5 | .06 | 67 | ND | ND | ND | ND | 53 | ND | ND | 202 | |
| J1S 16+50W | .2 | 1.47 | 6 | ND | 153 | ND | .22 | 2.7 | 5 | 9 | 6 | 1.88 | .06 | .29 | 1305 | ND | .01 | 7 | .11 | 28 | ND | ND | ND | ND | 47 | ND | ND | 152 | |
| J1S 17+00W | .6 | 1.08 | 30 | ND | 173 | ND | .21 | 7.5 | 3 | 12 | 12 | 1.72 | .06 | .23 | 1521 | ND | .01 | 5 | .08 | 101 | ND | ND | ND | ND | 46 | ND | ND | 326 | |
| J1S 17+50W | .4 | 2.02 | 3 | ND | 119 | ND | .19 | 3.4 | 4 | 13 | 9 | 1.74 | .06 | .24 | 945 | ND | .01 | 5 | .08 | 105 | ND | ND | ND | ND | 35 | ND | ND | 217 | |
| J1S 18+00W | .1 | 1.17 | 10 | ND | 172 | ND | .18 | 3.7 | 3 | 15 | 8 | 1.65 | .06 | .30 | 1285 | ND | .01 | 6 | .08 | 43 | ND | ND | ND | ND | 36 | ND | ND | 200 | |
| J1W 0+00 | .1 | 1.26 | 8 | ND | 228 | ND | .26 | 2.0 | 2 | 15 | 6 | 1.53 | .06 | .21 | 1600 | ND | .01 | 5 | .07 | 53 | ND | ND | ND | ND | 77 | ND | ND | 126 | |
| J1W 0+25N | .3 | 1.75 | 5 | ND | 222 | ND | .20 | 2.4 | 5 | 25 | 8 | 2.33 | .08 | .50 | 1205 | ND | .01 | 13 | .11 | 78 | ND | ND | ND | 2 | 42 | ND | ND | 214 | |
| J1W 0+50N | .1 | 1.19 | 5 | ND | 286 | ND | .31 | 5.5 | 4 | 9 | 10 | 2.09 | .08 | .22 | 3980 | ND | .01 | 5 | .12 | 32 | ND | ND | ND | ND | 67 | ND | ND | 189 | |
| J1W 0+75N | .1 | 1.46 | 5 | ND | 207 | ND | .23 | 3.0 | 4 | 12 | 9 | 1.91 | .07 | .29 | 2273 | ND | .01 | 6 | .12 | 29 | ND | ND | ND | ND | 62 | ND | ND | 143 | |
| J1W 1+00N | .2 | 1.36 | 4 | ND | 126 | ND | .15 | 1.7 | 3 | 11 | 7 | 1.68 | .05 | .26 | 1285 | ND | .01 | 5 | .09 | 23 | ND | ND | ND | ND | 37 | ND | ND | 114 | |
| J1W 1+25N | 1.2 | 2.39 | ND | ND | 217 | ND | .23 | 5.5 | 6 | 10 | 10 | 2.23 | .07 | .25 | 2926 | ND | .01 | 8 | .12 | 50 | ND | ND | ND | ND | 73 | ND | ND | 212 | |
| J1W 1+50N | 1.8 | 2.49 | ND | ND | 147 | ND | .14 | 1.5 | 8 | 11 | 13 | 2.88 | .07 | .41 | 2410 | ND | .01 | 10 | .09 | 35 | ND | ND | ND | 2 | 24 | ND | ND | 133 | |
| J1W 0+25S | .1 | 1.28 | 7 | ND | 251 | ND | .28 | 3.9 | 4 | 12 | 9 | 1.67 | .07 | .33 | 1569 | ND | .01 | 9 | .08 | 67 | ND | ND | ND | ND | 75 | ND | ND | 163 | |
| J1W 0+50S | 1.5 | 1.50 | 12 | ND | 72 | ND | .09 | 2.5 | 1 | 7 | 5 | 2.11 | .06 | .23 | 886 | ND | .01 | 3 | .05 | 425 | ND | ND | ND | ND | 24 | ND | ND | 302 | |
| J1W 0+75S | 1.1 | 2.36 | 9 | ND | 227 | ND | .23 | 9.5 | 5 | 12 | 13 | 2.49 | .09 | .44 | 1429 | ND | .01 | 9 | .13 | 317 | ND | ND | ND | ND | 58 | ND | ND | 370 | |
| J1W 1+00S | 1.3 | 2.55 | 9 | ND | 136 | ND | .19 | 6.0 | 7 | 20 | 13 | 2.55 | .08 | .43 | 1400 | ND | .01 | 13 | .12 | 205 | ND | ND | ND | ND | 30 | ND | ND | 404 | |
| J1W 1+25S | 2.5 | 1.56 | 37 | ND | 197 | ND | .23 | 8.6 | 4 | 14 | 11 | 2.05 | .07 | .29 | 1826 | ND | .01 | 14 | .09 | 499 | ND | ND | ND | ND | 41 | ND | ND | 450 | |
| J1W 1+50S | 3.5 | 1.68 | 7 | 3 | 189 | ND | .22 | 4.8 | 4 | 12 | 9 | 1.79 | .05 | .28 | 1677 | ND | .01 | 8 | .07 | 228 | ND | ND | ND | ND | 44 | ND | ND | 322 | |
| J2W 0+00 | .6 | 2.71 | ND | ND | 286 | ND | .14 | 2.2 | 8 | 15 | 13 | 2.53 | .08 | .52 | 2745 | ND | .01 | 16 | .11 | 65 | ND | ND | ND | 2 | 30 | ND | ND | 155 | |
| J2W 0+25N | .1 | 1.74 | 5 | ND | 159 | ND | .12 | 1.1 | 5 | 9 | 10 | 2.39 | .06 | .31 | 2776 | ND | .01 | 7 | .12 | 41 | ND | ND | ND | ND | 26 | ND | ND | 157 | |
| J2W 0+50N | .3 | 2.18 | ND | ND | 213 | ND | .31 | 2.0 | 5 | 9 | 9 | 2.32 | .07 | .30 | 1308 | ND | .01 | 6 | .12 | 36 | ND | ND | ND | ND | 51 | ND | ND | 138 | |
| J2W 0+75N | .6 | 2.57 | ND | ND | 333 | ND | .15 | 2.4 | 7 | 7 | 10 | 2.24 | .05 | .15 | 3522 | ND | .01 | 5 | .19 | 27 | ND | ND | ND | 2 | 29 | ND | ND | 160 | |
| J2W 1+00N | 1.2 | 2.76 | ND | ND | 272 | ND | .20 | 1.2 | 10 | 27 | 11 | 2.87 | .09 | .72 | 775 | ND | .01 | 16 | .16 | 34 | ND | ND | ND | 4 | 26 | ND | ND | 134 | |
| J2W 1+25N | .4 | 2.17 | ND | ND | 68 | ND | .05 | .6 | 6 | 28 | 27 | 2.86 | .08 | .47 | 592 | ND | .01 | 16 | .09 | 35 | ND | ND | ND | 1 | 9 | ND | ND | 77 | |
| J2W 1+50N | .5 | 2.64 | ND | ND | 167 | ND | .14 | .4 | 8 | 16 | 11 | 2.48 | .05 | .42 | 490 | ND | .01 | 16 | .13 | 22 | ND | ND | ND | 2 | 29 | ND | ND | 91 | |
| J2W 0+25S | .5 | 2.59 | 5 | ND | 173 | ND | .17 | 2.0 | 6 | 10 | 12 | 2.44 | .08 | .37 | 2305 | ND | .01 | 8 | .12 | 256 | ND | ND | ND | ND | 30 | ND | ND | 203 | |
| J2W 0+50S | .8 | 2.79 | ND | ND | 370 | ND | .27 | 2.2 | 9 | 15 | 16 | 2.64 | .10 | .64 | 1567 | ND | .01 | 20 | .17 | 218 | ND | ND | ND | 1 | 57 | ND | ND | 188 | |
| J2W 0+75S | .8 | 1.38 | ND | ND | 1016 | ND | 1.32 | 23.1 | 4 | 7 | 20 | 1.86 | .11 | .35 | 4750 | ND | .01 | 6 | .15 | 174 | ND | ND | ND | 4 | ND | 316 | ND | ND | 415 |
| J2W 1+00S | .5 | 3.43 | ND | ND | 510 | ND | .23 | 2.7 | 9 | 21 | 14 | 2.67 | .09 | .66 | 994 | ND | .01 | 22 | .30 | 83 | ND | ND | ND | 2 | 37 | ND | ND | 194 | |
| J2W 1+25S | 1.1 | 3.31 | ND | ND | 425 | ND | .28 | 7.5 | 8 | 16 | 13 | 3.31 | .10 | .52 | 1815 | ND | .01 | 14 | .30 | 134 | ND | ND | ND | 4 | 47 | ND | ND | 531 | |
| J2W 1+50S | .5 | 2.25 | 8 | ND | 379 | ND | .43 | 6.6 | 7 | 14 | 17 | 2.61 | .10 | .43 | 3169 | ND | .01 | 12 | .26 | 142 | ND | ND | ND | 1 | 72 | ND | ND | 307 | |
| J3W 0+00 | .1 | 2.38 | ND | ND | 233 | ND | .11 | 2.0 | 8 | 21 | 12 | 2.54 | .06 | .52 | 1294 | ND | .01 | 18 | .16 | 28 | ND | ND | ND | 1 | 16 | ND | ND | 173 | |
| J3W 0+25N | 2.4 | 2.29 | ND | ND | 284 | ND | .16 | 3.7 | 8 | 15 | 12 | 2.20 | .05 | .28 | 1638 | ND | .01 | 23 | .12 | 82 | ND | ND | ND | ND | 27 | ND | ND | 299 | |
| J3W 0+50N | .6 | 3.45 | ND | ND | 116 | 4 | .26 | .4 | 12 | 54 | 23 | 3.35 | .11 | 1.24 | 540 | ND | .01 | 44 | .14 | 15 | ND | ND | ND | ND | 21 | ND | 4 | 77 | |
| J3W 0+75N | .4 | 3.45 | ND | ND | 66 | ND | .06 | .5 | 7 | 25 | 16 | 2.60 | .05 | .60 | 360 | ND | .01 | 18 | .06 | 16 | ND | ND | ND | ND | 10 | ND | ND | 94 | |

| SAMPLE NAME | AG 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 | MN PPM | MO PPM | NA I | NI PPM | P I | PB PPM | PD PPM | PT PPM | SB PPM | SN PPM | SR PPM | U PPM | W PPM | ZN PPM |
|-------------|-----------|---------|-----------|-----------|-----------|-----------|---------|-----------|-----------|-----------|-----------|---------|--------|---------|-----------|-----------|---------|-----------|--------|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|-----------|
| J3W 1+00N | .2 | 2.09 | 9 | ND | 79 | ND | .09 | .8 | 8 | 22 | 22 | 2.64 | .07 | .51 | 1142 | ND | .01 | 19 | .11 | 45 | ND | ND | ND | ND | 10 | ND | 5 | 150 |
| J3W 1+25N | .3 | 1.84 | 13 | ND | 122 | ND | .18 | 1.2 | 19 | 31 | 35 | 3.10 | .08 | .68 | 2133 | ND | .01 | 36 | .13 | 34 | ND | ND | ND | ND | 32 | ND | ND | 155 |
| J3W 1+50N | .6 | 3.90 | 5 | ND | 154 | ND | .21 | 1.6 | 13 | 65 | 16 | 3.40 | .15 | 1.04 | 1462 | ND | .01 | 39 | .19 | 35 | ND | ND | ND | 3 | 27 | ND | 4 | 179 |
| J3W 0+25S | .5 | 3.28 | ND | ND | 247 | ND | .12 | 2.5 | 9 | 22 | 15 | 2.42 | .07 | .49 | 1624 | ND | .01 | 19 | .21 | 33 | ND | ND | ND | 3 | 16 | ND | ND | 178 |
| J3W 0+50S | .8 | 2.65 | ND | ND | 987 | ND | .36 | 3.4 | 16 | 47 | 25 | 2.90 | .12 | .94 | 3423 | ND | .01 | 49 | .31 | 51 | ND | ND | ND | 7 | 67 | ND | ND | 260 |
| J3W 0+75S | .5 | 2.64 | ND | ND | 489 | ND | .27 | 5.3 | 12 | 37 | 19 | 2.54 | .11 | .81 | 1432 | ND | .01 | 38 | .29 | 36 | ND | ND | ND | 3 | 41 | ND | 6 | 217 |
| J3W 1+00S | .2 | 2.45 | 11 | ND | 171 | ND | .15 | 1.3 | 8 | 23 | 16 | 2.49 | .11 | .59 | 1377 | ND | .01 | 15 | .15 | 41 | ND | ND | ND | ND | 23 | ND | ND | 139 |
| J3W 1+25S | .2 | 2.50 | 9 | ND | 193 | ND | .20 | 1.3 | 8 | 20 | 16 | 2.50 | .10 | .53 | 2416 | ND | .01 | 15 | .16 | 46 | ND | ND | ND | 1 | 35 | ND | ND | 159 |
| J3W 1+50S | .4 | 2.63 | 11 | ND | 106 | ND | .11 | .6 | 8 | 24 | 16 | 2.32 | .09 | .62 | 658 | ND | .01 | 19 | .08 | 53 | ND | ND | ND | 1 | 15 | ND | ND | 123 |



VANGEOCHEM LAB LIMITED

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REPORT NUMBER: 85-35-002

JOB NUMBER: 85227

EOLDRICH RESOURCES INC.

PAGE 1 OF 1

| SAMPLE # | Cu | Pb | Zn | Ag | Au |
|----------|-----|-------|------|--------|---------|
| | ppm | ppm | ppm | ppm | ppb |
| J-01 | 26 | 324 | 210 | 8.6 | 840 |
| J-02 | 6 | 480 | 155 | 1.8 | 195 |
| J-03 | 21 | 5600 | 450 | 118.0* | 115983* |
| J-04 | 11 | 1250 | 204 | 31.2* | 53306* |
| J-05 | 25 | 44 | 70 | 1.3 | 115 |
| J-06 | 21 | 18 | 69 | .7 | 110 |
| J-07 | 6 | 19600 | 1240 | 51.4* | 27040* |
| J-08 | 5 | 2640 | 281 | 15.5* | 710 |
| J-09 | 6 | 75 | 4200 | .4 | 60 |
| J-10 | 1 | 273 | 99 | 5.8 | 18420* |

* Estimated values, assay recommended

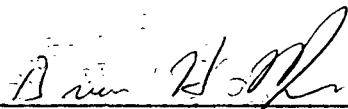
DETECTION LIMIT. 1 2 1 0.1 5
nd = none detected -- = not analysed is = insufficient sample

APPENDIX II

STATEMENT OF QUALIFICATIONS

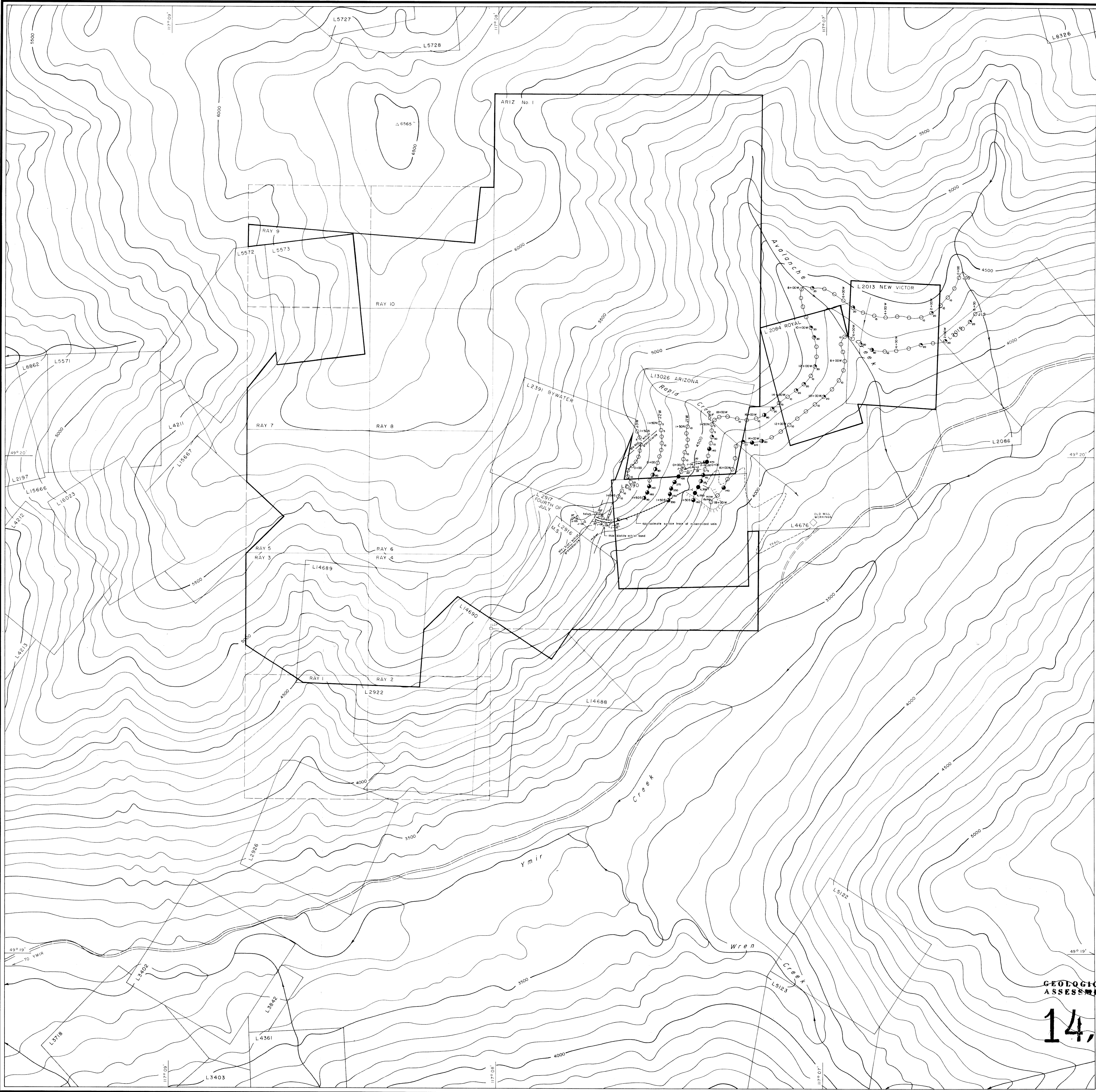
I, Brian H. Meyer, Professional Geologist, of the City of Nelson, B.C. do hereby certify as follows:

1. I am a Professional Geologist registered in the Province of Alberta.
2. I am a graduate of the University of Alberta, year 1979, and have been practicing my profession since that time.
3. I have received no interest either directly or indirectly, nor do I expect to receive any interest in this property.
4. The foregoing report on the FOURTH OF JULY MINERAL PROPERTY is based on field work carried out under my direction and my personal examination of the property, visited on between July 12 and July 24, 1985, and from previous related reports, and published material available from government geological departments.



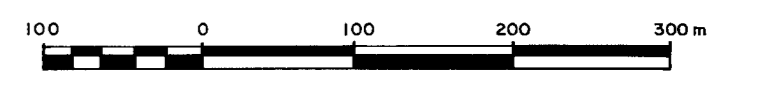
Brian H. Meyer, P. Geol.

August 21, 1985



LEGEND

- J15/0+00 Soil Sample Line
- Soil Sample Location
- 15 Gold Value (ppb)
- No Number Denotes no Detection
- ≤ 15 ppb Au
- 16 - 30 ppb Au
- 31 - 120 ppb Au
- 121 - 760 ppb Au
- > 760 ppb Au
- ▲ Rock Sample Number and Location
- Mineralized Quartz Vein
- - - Approximate Lithologic Contact
- ↗ Attitude of Foliation
- ↘ Attitude of Quartz Vein
- ↖ Adit
- Shaft



GOLDRICH RESOURCES INC.

FOURTH OF JULY GROUP

GEOLOGICAL BRANCH SOIL GEOCHEMISTRY
ASSESSMENT REPORT (GOLD)

14,555

NELSON MINING DIVISION, B.C.

Scale: 1: 5000

NTS: 82F 6E

Date:

Dwg. No.:

3