

85-811-14010

9/86

GEOCHEMICAL REPORT
ON THE HALL CREEK GROUP MINERAL PROPERTY
NELSON MINING DIVISION, B.C.

Latitude: 49 23'N
Longitude: 117 16'W

NTS 82F-6W

Mineral Claims: Jill 100, U.G.

Crown Grants: Bear

Reverted Crown Grants: Bear No. 1, Eclipse, Imperial

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

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

Date Submitted: October 10, 1985

GEOLOGICAL BRANCH
ASSESSMENT REPORT

14,010

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SUMMARY

The property is underlain by sediments of the Hall Formation and mafic volcanics of the Elise Formation, within the Kootenay Arc structural province. Porphyritic quartz diorite tongues of the Silver King Porphyry have intruded the area in a north-south direction, subparallel to the regional structural trend. The property comprises both east and west limbs of a southward plunging syncline, with the sediments situated along the axis. The volcanics range from massive augite porphyry to schistose andesites.

Soil geochemistry indicates a minor overall enrichment of chromium, nickel and zinc. The chromium-nickel association may indicate the presence of shallow ultramafic/mafic rocks underlying the sediments. A weak gold anomaly is situated near Noman Creek and within proximity of a granitic intrusive contact.

Further exploratory work consisting of mapping and prospecting has been recommended to be conducted along geologic contact zones and within the anomalous chromium area.



BRITISH COLUMBIA

MINING DIVISIONS

Gold Commissioner's office—●

INDEX MAP

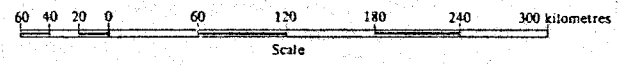
Figure 1

HALL CREEK GROUP

NELSON M.D. 82F-6W

GOLDRICH RESOURCES INC.

SEPTEMBER 1985



HALL CREEK GROUP

CLAIM LOCATION MAP

Scale 1:50000



kilometers

Figure 2

HALL CREEK GROUP

NELSON M.D. 82F-6W

GOLDRICH RESOURCES INC.

SEPTEMBER 1985



△ Toad Mtn

Noman Creek

Jill 100

Hall Creek

49° 23'

Bear
Bear No 1
Imperial
Eclipse

U.G.

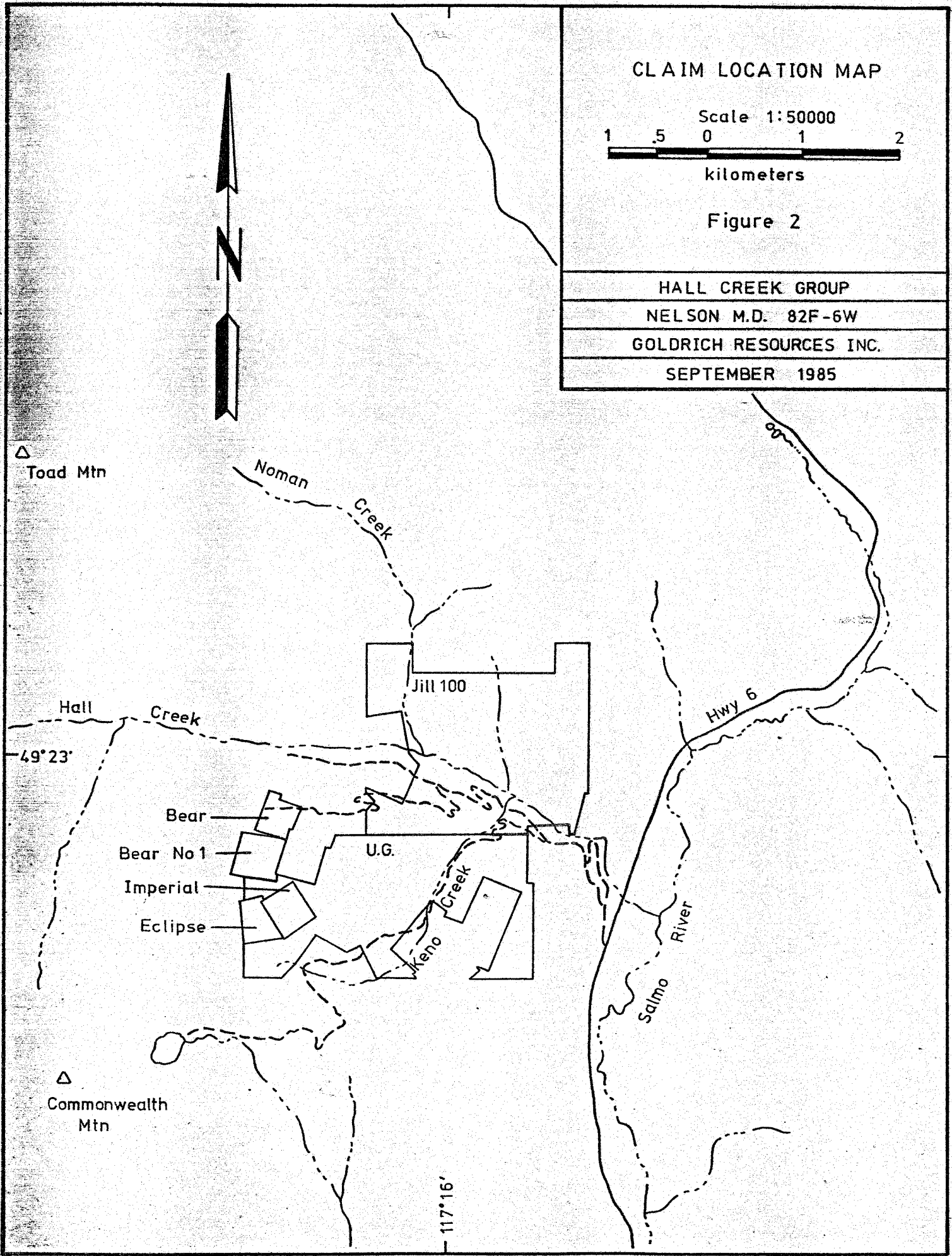
Keno Creek

Hwy 6

Salmo River

△ Commonwealth Mtn

117° 16'



INTRODUCTION

An exploration program was conducted on the Hall Creek Group in August 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 23'N Longitude 117 16'W)

The property is situated in the Bonnington Range of the Selkirk Mountains, .5 kilometers west of Hall Siding, which is 17 kilometers (Hwy #6) south of the city of Nelson. It is in the Nelson Mining Division, within map area 82F-6W of the National Topographic System.

The Hall Creek Group occupies both the north and south slopes of Hall Creek valley, and extends in an east-west direction along the creek, between 3100(945 m.) and 3500(1070 m.) elevation. The property extends north of the creek for one kilometer and reaches 5200 feet (1585 m.) in elevation. South of the creek, the property extends for 2.5 kilometers, and reaches an elevation of 6200 feet(1890 m.).

Access from Hall Siding to the property is gained by a good quality two wheel drive road which runs along Hall Creek. Another road transects the southern half of the property, but the condition of it is not known.

The topography of the north slope is steep and rugged, with numerous rock cliffs and talus slopes, while the south slope is less rugged with few cliffs. Noman Creek drains the north slope of the property into Hall Creek, and Keno Creek drains the south slope. Hall Creek flows easterly into the Salmo River. Vegetation consists of a thick growth of willow, alder and maple on the north slope, while the south slope consists of a mature cedar and hemlock forest. 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 Hall Creek Group consists of the following mineral claims, crown

Property and Ownership Cont'd

grants and reverted crown grants, all of which are 100 percent owned by Goldrich Resources Inc. of Vancouver, B.C.

<u>Crown Grant</u>	<u>Lot Number</u>	<u>Hectares</u>
Bear	14714	14.19

<u>Reverted Crown Grant</u>	<u>Lot Number</u>	<u>Record Number</u>	<u>Hectares</u>	<u>Expiry Date</u>
Imperial	3283	1639	20.31	April 18, 1986
Eclipse	3674	1640	13.01	"
Bear #1	14716	1641	19.48	"

<u>Located Mineral Claim</u>	<u>Record Number</u>	<u>Hectares</u>	<u>Expiry Date</u>
U.G. (18 units)	2190	450	April 3, 1986
Jill 100 (20 units)	3892	500	Sept 25, 1985

History

The Hall Creek area first received attention by prospectors in the mid 1890's, coinciding with the completion of the Nelson and Fort Sheppard railway. The Fern property, which is the most notable claim in the Hall Creek area, was located in 1897. Within the same year, the Fern Mining and Milling Company erected a ten-stamp mill and a gravity rail tramway connecting the mill to the Fern mine. The majority of production from the mine took place between 1897 and 1904. Between 1904 and 1942, the mine operated intermittently. Total production from the Fern mine is documented as follows: 12,430 tons mined, 6,316 ounces gold, and 530 ounces silver recovered.

The only recorded work history of the original crown grants within the Hall Creek Group is that the Eclipse and Imperial claims were recorded in 1901. A geochemical soil survey was conducted on part of the property in 1984 by Goldrich Resources Inc.

Present Activity

A total of four days was spent conducting a geochemical exploration program on the property between August 9 and August 27, 1985. The work crew consisted of two men.

Present Activity Cont'd

Soil samples were collected on the Jill 100 claim at chained intervals of 50 meters along elevation contour lines, utilizing a contour interval of 250 vertical feet. A total of 223 soil samples and four rock samples were collected.

The purpose of the program was to assess, by geochemical means, the economic mineral potential of the Jill 100 claim.

GEOLOGY

The Hall Creek Group is situated structurally within the Kootenay Arc, which is a belt of 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 the Nelson plutonic series.

Locally, the claim area is underlain by Lower Jurassic volcanics of the Elise Formation, which conformably overlies Ymir Group sediments of Lower Jurassic and older age. The volcanics are mainly augite andesite and augite porphyry ranging from massive to schistose. Occasionally beds of agglomerate and flow breccia exist in the area.

Overlying the volcanics possibly disconformably, are Early to Middle Jurassic sediments of the Hall Formation. The sediments mainly consist of argillite, although interbeds of siltstone, sandstone, and argillaceous quartzite and conglomerate are present. Structurally, these sediments are situated in a north-south trending southward plunging syncline.

Intrusive plugs of Late Jurassic to Early Cretaceous Nelson plutonic series may be present in the area, as well as dyke-like bodies of porphyritic hornblende-quartz diorite (Silver King Porphyry) of similar age. Cretaceous and/or Tertiary age lamprophyre dykes may also be present in the area.

The geology of the nearby former gold producing Fern mine consists of gold and pyrite-bearing quartz fissure veins (with minor chalcopyrite

Geology Cont'd

and bornite) striking northeast-southwest and dipping steeply to the northwest. Vein width varies from a few inches to over eight feet (2.5 m.). Ore shoots are mainly concentrated along granite porphyry dykes which represent either the footwall or hangingwall of the vein.

GEOCHEMISTRY

A total of 223 soil samples were collected along elevation contour lines between 3500 feet (1070 m.) and 4250 feet (1295 m.) elevation, utilizing 250 feet (75 m.) contour intervals. Samples were collected at 50 meter chained intervals along sample lines H0N (3500 feet), H1N (3750 feet), H2N (4000 feet), and H3N (4250 feet). These lines trend northwest-southeast and extend from the eastern edge of the Jill 100 claim to the north boundary of the claim. Four rock samples were collected from within the soil sampled area.

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. A thick, mature soil cover exists along Noman Creek. 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 soil and rock 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 (induction couple argon plasma) emission spectrometry, with values recorded in parts per million or percentage. The gold detection method was by fire assay for rock analyses, and atomic absorption spectrometry for soil analyses. Soils are sieved to -80 mesh, and rocks are pulverized to -100 mesh.

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 30 ppb and greater (Figure 3). A weak gold anomaly is present at the west end of line H1N near Noman Creek, with the highest value being 55 ppb. This zone is within the

Geochemistry Cont'd

Hall sediments near the volcanic contact. A tongue of porphyritic quartz diorite extends south into this area also. There are no anomalous values on adjacent lines nearby. All other anomalous gold values are weak and scattered.

Of interest is a correlation of relatively high chromium, nickel, and to a lesser degree cobalt values in the sampled area. Two populations of values are present, with the upper values being designated anomalous. Chromium values have been plotted on the map with anomalous areas outlined. Values of 110 ppm and greater have been classed anomalous. The anomalous area is within the Hall sediments, and extends across all four soil sample lines.

Zinc values in the sampled area are generally all high, with a background value calculated to be 290 ppm. Zinc values have been plotted on the map, with anomalous values being 500 ppm or greater. Anomalous values are scattered.

The four rock samples analyzed were obtained from small open cuts along quartz veins and shear zones near 4+00W on lines HON and HLN. Gold concentrations were not detectable in all but one sample, which contained 20 ppb. No mineralization was observed in these samples.

CONCLUSIONS AND RECOMMENDATIONS

Analyses of soil samples collected on the Jill 100 claim indicate a minor overall enrichment generally of chromium, nickel, and zinc. Anomalous gold values near Noman Creek may reflect the presence of an underlying granitic tongue or dykes, with possible mineralization along the contact of intrusives.

The moderately high values of chromium and nickel within a localized area on the property may indicate the presence of near surface ultramafic and/or mafic igneous rocks. However, approximately six kilometers south of Hall Creek, a skarn zone containing abundant fuchsite (chromium mica) is present.

Conclusions and Recommendations Cont'd

Further exploratory work on the property should consist of geological mapping and prospecting near geologic contact zones, with special emphasis on intrusive contacts. Also, mapping within and near the high chromium area may result in an explanation of this anomaly.

BIBLIOGRAPHY

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A P P E N D I C E S



VANGEOCHEM LAB LIMITED

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VANCOUVER, B.C. V5L 1L6
(604) 251-5656

REPORT NUMBER: 85-35-006

JOB NUMBER: 85336

GOLDRICH RESOURCES INC.

PAGE 1 OF 1

SAMPLE #	Au
H-01	ppb
H-02	nd
H-03	nd
H-04	20

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 SN,MN,FE,CA,P,CR,MG,BA,PD,AL,NA,X,W,PT AND SR. AU AND PD DETECTION IS 3 PPM.
 IS= INSUFFICIENT SAMPLE, ND= NOT DETECTED, -= NOT ANALYZED

COMPANY: GEOSPHERE SERVICES LTD.
 ATTENTION: Mr. Bill Day
 PROJECT: HALL CREEK

REPORT#: 85-35-006
 JOB#: 85336
 INVOICE#: 8909

DATE RECEIVED: 85/08/29

DATE COMPLETED: 85/09/02

COPY SENT TO: GEOSPHERE & GOLDRICH RES. ANALYST *W. Rees*

PAGE 1 OF 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	MO PPM	NA %	NI PPM	P %	PB PPM	PD PPM	PT PPM	SB PPM	SN PPM	SR PPM	U PPM	W PPM	ZN PPM
H-01	.5	1.77	42	ND	35	ND	5.00	9.8	11	41	108	3.51	.16	1.07	970	1	.21	11	.14	290	ND	ND	3	1	457	ND	ND	455
H-02	.1	2.43	34	ND	44	ND	1.19	.5	13	69	104	4.73	.15	1.43	766	3	.15	13	.17	14	ND	ND	ND	1	103	ND	10	80
H-03	.7	2.22	4	ND	31	4	1.40	.4	18	36	56	4.77	.15	1.53	858	3	.14	15	.18	16	ND	ND	3	2	68	ND	12	76
H-04	.1	.21	ND	ND	2	ND	4.70	.1	1	110	36	.67	.08	.18	639	1	.02	5	.01	8	ND	ND	ND	ND	225	3	ND	17



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GOLDRICH RESOURCES INC.

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SAMPLE #	Au ppb
HON 0+00W	25
HON 0+50W	10
HON 1+00W	10
HON 1+50W	5
HON 2+00W	10
HON 2+50W	10
HON 3+00W	nd
HON 3+50W	5
HON 4+00W	5
HON 4+50W	20
HON 5+00W	15
HON 5+50W	15
HON 6+00W	15
HON 6+50W	10
HON 7+00W	15
HON 7+50W	10
HON 8+00W	25
HON 8+50W	20
HON 9+00W	20
HON 9+50W	30
HON 10+00W	20
HON 10+50W	25
HON 11+00W	20
HON 11+50W	15
HON 12+00W	20
HON 12+50W	15
HON 13+00W	10
HON 13+50W	nd
HON 14+00W	nd
HON 14+50W	15
HON 15+00W	20
HON 15+50W	10
HON 16+00W	nd
HON 16+50W	30
HON 17+00W	10
HON 17+50W	20
HON 18+00W	30
HON 18+50W	20
HON 19+00W	10

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample



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SAMPLE #	Au
	ppb
HON 19+50W	20
HON 20+00W	20
HON 20+50W	20
HON 21+00W	20
HON 21+50W	25
HON 22+00W	5
HIN 0+00W	5
HIN 0+50W	10
HIN 1+00W	10
HIN 1+50W	25
HIN 2+00W	30
HIN 2+50W	10
HIN 3+00W	10
HIN 3+50W	10
HIN 4+00W	15
HIN 4+50W	30
HIN 5+00W	20
HIN 5+50W	10
HIN 6+00W	15
HIN 6+50W	10
HIN 7+00W	5
HIN 7+50W	10
HIN 8+00W	20
HIN 8+50W	nd
HIN 9+00W	20
HIN 9+50W	10
HIN 10+00W	20
HIN 10+50W	20
HIN 11+00W	5
HIN 11+50W	20
HIN 12+00W	20
HIN 12+50W	10
HIN 13+00W	10
HIN 13+50W	nd
HIN 14+00W	nd
HIN 14+50W	5
HIN 15+00W	10
HIN 15+50W	nd
HIN 16+00W	5

DETECTION LIMIT

5

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SAMPLE #	Au ppb
H1N 16+50W	25
H1N 17+00W	15
H1N 17+50W	10
H1N 18+00W	50
H1N 18+50W	20
H1N 19+00W	10
H1N 19+50W	15
H1N 20+00W	20
H1N 20+50W	10
H1N 21+00W	5
H1N 21+50W	10
H1N 22+00W	20
H1N 22+50W	30
H1N 23+00W	30
H1N 23+50W	20
H1N 24+00W	35
H1N 24+50W	30
H1N 25+00W	40
H2N 0+00W	20
H2N 0+50W	20
H2N 1+00W	20
H2N 1+50W	15
H2N 2+00W	15
H2N 2+50W	5
H2N 3+00W	15
H2N 3+50W	20
H2N 4+00W	20
H2N 4+50W	20
H2N 5+00W	25
H2N 5+50W	15
H2N 6+00W	25
H2N 6+50W	20
H2N 7+00W	20
H2N 7+50W	30
H2N 8+00W	30
H2N 8+50W	30
H2N 9+00W	10
H2N 9+50W	20
H2N 10+00W	10

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SAMPLE #	Au
H2N 10+50W	15
H2N 11+00W	nd
H2N 11+50W	15
H2N 12+00W	20
H2N 12+50W	15
H2N 13+00W	20
H2N 13+50W	15
H2N 14+00W	15
H2N 14+50W	10
H2N 15+00W	25
H2N 15+50W	30
H2N 16+00W	5
H2N 16+50W	5
H2N 17+00W	15
H2N 17+50W	10
H2N 18+00W	40
H2N 18+50W	20
H2N 19+00W	20
H2N 19+50W	20
H2N 20+00W	30
H2N 20+50W	20
H2N 21+00W	35
H2N 21+50W	10
H2N 22+00W	10
H2N 22+50W	20
H2N 23+00W	20
H2N 23+50W	25
H2N 24+00W	20
H2N 24+50W	20
H2N 25+00W	10
H2N 25+50W	20
H2N 26+00W	30
H2N 26+50W	25
H2N 27+00W	20
H2N 27+50W	20
H2N 28+00W	35
H2N 28+50W	30
H2N 29+00W	25
H2N 29+50W	40

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SAMPLE #	Au ppb
H2N 30+00W	20
H3N 0+00W	20
H3N 0+50W	5
H3N 1+00W	10
H3N 1+50W	5
H3N 2+00W	nd
H3N 2+50W	nd
H3N 3+00W	5
H3N 3+50W	20
H3N 4+00W	10
H3N 4+50W	15
H3N 5+00W	10
H3N 5+50W	15
H3N 6+00W	20
H3N 6+50W	10
H3N 7+00W	10
H3N 7+50W	10
H3N 8+00W	20
H3N 8+50W	10
H3N 9+00W	15
H3N 9+50W	20
H3N 10+00W	25
H3N 10+50W	20
H3N 11+00W	20
H3N 11+50W	20
H3N 12+00W	25
H3N 12+50W	25
H3N 13+00W	20
H3N 13+50W	10
H3N 14+00W	20
H3N 14+50W	nd
H3N 15+00W	20
H3N 15+50W	nd
H3N 16+00W	15
H3N 16+50W	nd
H3N 17+00W	20
H3N 17+50W	10
H3N 18+00W	55
H3N 18+50W	20

DETECTION LIMIT 5

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H3N 19+00W	10
H3N 19+50W	15
H3N 20+00W	20
H3N 20+50W	20
H3N 21+00W	20
H3N 21+50W	20
H3N 22+00W	30
H3N 22+50W	nd
H3N 23+00W	10
H3N 23+50W	10
H3N 24+00W	35
H3N 24+50W	40
H3N 25+00W	20
H3N 25+50W	15
H3N 26+00W	30
H3N 26+50W	10
H3N 27+00W	10
H3N 27+50W	25
H3N 28+00W	50
H3N 28+50W	10
H3N 29+00W	20
H3N 29+50W	35
H3N 30+00W	30
H3N 30+50W	40
H3N 31+00W	20
H3N 31+50W	20
H3N 32+00W	10
H3N 32+50W	20

DETECTION LIMIT

5

nd = none detected

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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, MN, FE, CA, P, CR, AG, BA, PD, AL, NA, K, V, 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: HALL CREEK

REPORT#: 85-35-007
 JOB#: 85343
 INVOICE#: 8925

DATE RECEIVED: 85/08/29
 DATE COMPLETED: 85/09/04
 COPY SENT TO: GEOSPHERE SERVICES LTD. ANALYST *W. Powell*

PAGE 1 OF 6

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	SN PPM	SR PPM	U PPM	W PPM	ZN PPM
HON 0+00W	.5	2.99	12	ND	95	4	.72	.8	29	24	35	5.46	.15	2.86	1064	1	.01	12	.14	17	ND	ND	ND	1	58	ND	7	144
HON 0+50W	.1	2.81	ND	ND	465	ND	.72	1.1	14	32	25	3.29	.12	.89	2725	1	.01	29	.36	23	ND	ND	ND	ND	76	ND	ND	76
HON 1+00W	.2	3.17	6	ND	212	ND	.50	1.0	18	33	74	4.04	.12	1.09	2272	1	.01	28	.22	24	ND	ND	ND	ND	51	ND	ND	115
HON 1+50W	.5	3.54	ND	ND	377	6	.71	1.4	27	98	65	4.41	.16	2.62	1657	1	.01	127	.18	26	ND	ND	ND	6	57	ND	11	92
HON 2+00W	.1	2.85	7	ND	271	ND	.59	1.7	22	36	79	4.49	.13	1.46	2352	1	.01	27	.22	34	ND	ND	ND	ND	64	ND	ND	132
HON 2+50W	.1	3.05	ND	ND	648	ND	.55	3.9	21	48	62	4.54	.15	1.31	3393	1	.01	35	.27	28	ND	ND	ND	ND	101	ND	ND	120
HON 3+00W	.1	3.17	5	ND	426	ND	.47	1.9	18	42	57	4.10	.12	1.10	2547	1	.01	26	.27	26	ND	ND	ND	ND	61	ND	ND	110
HON 3+50W	.1	2.63	ND	ND	333	ND	.40	1.5	15	35	33	3.54	.10	.90	2985	1	.01	20	.16	26	ND	ND	ND	ND	48	ND	ND	127
HON 4+00W	.1	2.28	7	ND	288	ND	.65	4.1	18	31	49	3.62	.11	.98	2695	1	.01	21	.17	28	ND	ND	ND	ND	66	ND	ND	178
HON 4+50W	.1	2.84	13	ND	252	ND	.56	2.2	20	32	55	3.96	.12	1.00	2801	1	.01	23	.14	40	ND	ND	ND	ND	51	ND	ND	119
HON 5+00W	.1	3.12	14	ND	159	ND	.46	1.1	26	44	122	5.40	.15	1.64	1750	1	.01	40	.18	22	ND	ND	ND	ND	44	ND	ND	118
HON 5+50W	.1	2.88	11	ND	180	ND	.57	1.7	26	30	128	5.71	.15	1.32	2214	1	.01	27	.20	39	ND	ND	ND	ND	52	ND	ND	127
HON 6+00W	.1	3.60	9	ND	450	ND	.65	10.5	20	33	42	4.73	.14	1.10	3370	2	.01	42	.43	24	ND	ND	ND	ND	73	ND	ND	388
HON 6+50W	.2	3.50	22	ND	282	ND	.51	8.7	17	33	55	3.99	.12	.96	1745	2	.01	32	.36	29	ND	ND	ND	ND	62	ND	ND	333
HON 7+00W	.4	1.39	102	ND	337	ND	.37	7.8	17	22	69	4.73	.12	.63	1736	18	.01	71	.20	27	ND	ND	4	ND	44	ND	ND	667
HON 7+50W	.2	4.02	306	ND	265	ND	.36	4.8	17	34	49	4.43	.13	.87	1208	9	.01	69	.32	28	ND	ND	ND	1	50	ND	ND	411
HON 8+00W	.1	2.97	46	ND	247	ND	.52	8.9	16	83	29	3.79	.11	1.67	1342	3	.01	53	.21	25	ND	ND	ND	ND	51	ND	7	291
HON 8+50W	.2	2.77	34	ND	260	ND	.34	5.4	16	52	35	4.04	.12	1.14	1711	2	.01	38	.23	21	ND	ND	ND	ND	38	ND	ND	252
HON 9+00W	.1	3.53	32	ND	148	4	.39	3.4	21	105	33	4.66	.13	2.46	1152	2	.01	48	.15	28	ND	ND	ND	ND	35	ND	10	248
HON 9+50W	.1	4.19	57	ND	211	ND	.37	6.5	24	61	44	4.39	.12	1.43	2172	3	.01	59	.18	22	ND	ND	ND	ND	47	ND	3	273
HON 10+00W	.2	2.99	50	ND	237	ND	.43	4.8	17	45	40	3.77	.10	.92	1926	2	.01	42	.29	33	ND	ND	ND	ND	61	ND	ND	211
HON 10+50W	.1	2.21	40	ND	190	ND	.30	2.5	17	58	44	4.25	.11	1.24	1415	2	.01	40	.19	19	ND	ND	ND	ND	42	ND	ND	213
HON 11+00W	.1	2.46	33	ND	72	ND	.24	1.8	21	105	71	4.62	.12	1.78	951	2	.01	43	.11	24	ND	ND	ND	ND	23	ND	ND	150
HON 11+50W	.1	2.65	27	ND	122	ND	.18	2.0	13	41	34	3.55	.09	.92	1047	1	.01	30	.14	17	ND	ND	ND	ND	21	ND	ND	130
HON 12+00W	.1	3.13	18	ND	123	ND	.25	1.8	14	45	37	3.65	.10	1.05	962	2	.01	31	.14	20	ND	ND	ND	ND	29	ND	ND	139
HON 12+50W	.4	3.47	27	ND	356	ND	.40	1.7	28	91	100	4.90	.16	2.11	789	2	.01	71	.19	22	ND	ND	ND	2	66	ND	11	183
HON 13+00W	.2	2.89	15	ND	153	ND	.31	4.0	20	147	27	4.06	.10	2.19	1701	1	.01	44	.17	19	ND	ND	ND	ND	28	ND	5	223
HON 13+50W	.4	3.60	22	ND	118	ND	.29	5.3	17	124	28	3.56	.09	1.14	1164	2	.01	69	.17	16	ND	ND	ND	2	25	ND	ND	320
HON 14+00W	.1	2.74	15	ND	120	ND	.23	4.3	15	110	12	3.70	.09	1.45	1105	1	.01	40	.20	22	ND	ND	ND	ND	20	ND	ND	274
HON 14+50W	.4	3.86	16	ND	118	ND	.18	5.9	20	114	55	4.24	.11	1.66	1114	3	.01	55	.18	27	ND	ND	ND	1	19	ND	5	264
HON 15+00W	.3	3.30	19	ND	216	ND	.27	6.0	18	113	22	4.14	.11	1.51	1528	2	.01	43	.32	19	ND	ND	ND	1	25	ND	ND	292
HON 15+50W	.3	3.05	14	ND	304	3	.25	8.3	17	123	14	3.94	.11	1.54	3670	2	.01	39	.31	27	ND	ND	ND	ND	24	ND	ND	279
HON 16+00W	.2	3.21	13	ND	188	ND	.25	3.2	17	109	13	3.98	.10	1.36	1818	2	.01	38	.28	18	ND	ND	ND	ND	23	ND	ND	219
HON 16+50W	.3	3.29	15	ND	125	ND	.18	2.9	17	90	40	3.44	.10	1.16	1538	2	.01	38	.28	19	ND	ND	ND	ND	18	ND	ND	192
HON 17+00W	.2	3.34	11	ND	89	ND	.26	2.5	17	134	20	3.67	.09	1.40	1048	2	.01	41	.23	14	ND	ND	ND	2	16	ND	3	210
HON 17+50W	.3	2.74	14	ND	306	ND	.36	3.2	16	47	17	3.62	.10	.75	1963	1	.01	27	.25	22	ND	ND	ND	ND	49	ND	ND	247
HON 18+00W	.2	3.21	22	ND	81	ND	.21	1.5	17	67	39	3.84	.09	.97	515	3	.01	38	.08	20	ND	ND	ND	ND	32	ND	ND	169
HON 18+50W	.3	1.98	16	ND	88	ND	.18	1.1	11	36	34	2.98	.08	.66	660	1	.01	21	.13	13	ND	ND	ND	ND	30	ND	ND	96
HON 19+00W	.6	3.41	23	ND	185	ND	.16	2.3	17	36	52	3.64	.09	.62	2562	2	.01	25	.23	25	ND	ND	ND	ND	21	ND	ND	182

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	SN PPM	SR PPM	U PPM	W PPM	ZN PPM
HON 19+50W	.3	2.42	8	ND	194	ND	.17	1.8	15	46	34	3.56	.09	.59	1745	2	.01	26	.18	18	ND	ND	ND	ND	26	ND	ND	135
HON 20+00W	.2	3.27	14	ND	129	ND	.16	1.2	14	45	42	3.55	.09	.72	1200	3	.01	29	.22	21	ND	ND	ND	ND	24	ND	ND	143
HON 20+50W	.2	3.22	18	ND	129	3	.16	.9	14	41	31	3.33	.07	.61	1293	2	.01	22	.31	18	ND	ND	ND	ND	21	ND	ND	142
HON 21+00W	.3	3.11	14	ND	105	ND	.14	.7	13	39	32	3.40	.08	.58	1768	2	.01	22	.21	20	ND	ND	ND	ND	20	ND	ND	133
HON 21+50W	.3	5.91	19	ND	120	ND	.14	.8	20	48	34	3.72	.07	.52	1417	3	.01	24	.44	31	ND	ND	ND	4	18	ND	5	152
HON 22+00W	.4	4.03	11	ND	157	ND	.22	1.1	14	51	31	3.58	.08	.60	930	2	.01	23	.48	19	ND	ND	ND	3	30	ND	ND	165
HIN 0+00W	.1	3.54	9	ND	203	ND	.63	1.0	26	16	133	5.56	.13	.85	2399	3	.01	13	.24	16	ND	ND	ND	1	49	ND	ND	112
HIN 0+50W	.2	2.55	ND	ND	679	ND	.95	1.8	15	24	96	3.20	.11	.72	4502	1	.01	20	.24	49	ND	ND	ND	1	92	ND	ND	122
HIN 1+00W	.1	2.46	ND	ND	657	3	.54	1.9	19	40	62	3.94	.11	.99	3014	1	.01	39	.31	46	ND	ND	ND	ND	52	ND	ND	155
HIN 1+50W	.1	2.91	4	ND	425	4	.41	1.1	21	53	91	3.85	.10	1.35	2921	1	.01	51	.17	33	ND	ND	ND	1	43	ND	ND	96
HIN 2+00W	.1	3.04	ND	ND	343	ND	.40	1.4	18	36	105	3.41	.09	.83	2481	1	.01	29	.17	26	ND	ND	ND	ND	39	ND	ND	81
HIN 2+50W	.2	3.71	ND	ND	408	4	.53	2.0	24	38	123	3.66	.12	.87	4190	2	.01	32	.27	24	ND	ND	ND	2	82	ND	ND	106
HIN 3+00W	.1	3.65	5	ND	239	ND	.30	.9	18	34	125	3.94	.10	.91	1693	2	.01	26	.20	25	ND	ND	ND	ND	38	ND	ND	102
HIN 3+50W	.2	4.09	8	ND	455	ND	.34	1.5	21	47	87	3.82	.11	1.11	3817	1	.01	54	.16	31	ND	ND	ND	3	40	ND	4	118
HIN 4+00W	.1	2.84	3	ND	544	ND	.45	2.4	25	61	120	4.64	.13	1.64	2705	1	.01	58	.21	22	ND	ND	ND	1	56	ND	3	184
HIN 4+50W	.2	3.52	5	ND	290	ND	.38	.9	18	36	97	3.95	.10	.83	2376	2	.01	27	.21	18	ND	ND	ND	2	46	ND	ND	110
HIN 5+00W	.1	3.46	5	ND	283	ND	.43	1.2	18	32	98	3.85	.10	.82	2035	2	.01	27	.22	22	ND	ND	ND	ND	43	ND	ND	107
HIN 5+50W	.1	3.77	28	ND	253	ND	.62	2.6	24	24	108	3.70	.11	.69	2855	2	.01	25	.17	40	ND	ND	ND	ND	50	ND	ND	162
HIN 6+00W	.2	3.70	28	ND	266	ND	.54	4.3	23	27	99	4.07	.11	.82	2128	2	.01	36	.15	57	ND	ND	ND	ND	49	ND	ND	208
HIN 6+50W	.2	4.24	22	ND	650	ND	.42	5.6	16	15	40	2.83	.08	.31	4451	2	.01	18	.79	41	ND	ND	ND	ND	64	ND	ND	246
HIN 7+00W	.2	3.31	57	ND	246	ND	.54	10.9	17	23	54	3.26	.09	.53	2135	3	.01	44	.27	32	ND	ND	ND	ND	58	ND	ND	376
HIN 7+50W	.1	2.56	26	ND	390	ND	.34	13.9	20	23	44	4.24	.10	.74	2116	4	.01	67	.39	24	ND	ND	ND	ND	50	ND	ND	777
HIN 8+00W	.2	3.31	72	ND	355	ND	.34	14.1	24	49	79	4.34	.11	1.07	1525	4	.01	80	.25	20	ND	ND	ND	ND	47	ND	ND	491
HIN 8+50W	.2	3.48	46	ND	599	3	.27	9.9	18	30	47	3.49	.09	.62	2146	3	.01	37	.53	20	ND	ND	ND	1	44	ND	ND	362
HIN 9+00W	.1	2.32	50	ND	373	ND	.34	10.4	16	35	46	3.58	.10	.74	1711	2	.01	48	.26	29	ND	ND	ND	ND	46	ND	ND	330
HIN 9+50W	.3	3.05	37	ND	269	ND	.16	12.5	16	34	37	3.89	.10	.67	1166	3	.01	53	.33	19	ND	ND	ND	ND	25	ND	ND	881
HIN 10+00W	.3	2.12	46	ND	118	ND	.10	4.1	18	41	83	3.93	.09	.94	532	3	.01	52	.10	19	ND	ND	ND	ND	14	ND	ND	260
HIN 10+50W	.4	3.58	45	ND	193	ND	.18	5.4	22	39	50	4.07	.10	.72	987	3	.01	51	.26	20	ND	ND	ND	ND	28	ND	ND	373
HIN 11+00W	.3	4.48	44	ND	266	ND	.25	5.6	19	41	50	3.85	.09	.67	1151	2	.01	43	.42	18	ND	ND	ND	1	31	ND	3	336
HIN 11+50W	.1	1.72	23	ND	140	ND	.19	2.9	20	35	45	4.24	.09	.70	1050	2	.01	30	.15	18	ND	ND	ND	ND	25	ND	ND	228
HIN 12+00W	.3	3.23	14	ND	153	ND	.19	3.6	17	43	38	3.11	.07	.67	1288	2	.01	43	.24	15	ND	ND	ND	1	20	ND	ND	340
HIN 12+50W	.3	3.69	28	ND	146	3	.14	2.0	19	36	75	3.73	.09	.75	630	3	.01	40	.15	17	ND	ND	ND	1	16	ND	ND	227
HIN 13+00W	.5	3.11	14	ND	104	ND	.36	3.1	18	49	55	3.60	.08	.96	653	2	.01	63	.19	16	ND	ND	ND	ND	31	ND	ND	317
HIN 13+50W	.2	3.53	27	ND	110	3	.39	3.4	26	117	87	4.37	.11	1.60	1162	3	.01	72	.15	16	ND	ND	ND	ND	37	ND	5	325
HIN 14+00W	.3	2.63	17	ND	126	4	.56	6.9	25	109	85	4.50	.11	1.51	1368	3	.01	68	.11	16	ND	ND	ND	ND	46	ND	ND	422
HIN 14+50W	.6	3.64	32	ND	90	ND	.37	4.2	26	98	97	3.90	.10	1.14	697	3	.01	77	.20	16	ND	ND	ND	1	20	ND	ND	275
HIN 15+00W	.2	2.84	25	ND	126	7	.31	4.9	23	148	41	4.14	.10	1.61	1161	2	.01	63	.11	19	ND	ND	ND	1	25	ND	ND	299
HIN 15+50W	.2	3.24	25	ND	132	ND	.27	6.4	20	105	33	3.73	.10	1.08	1395	2	.01	59	.27	17	ND	ND	ND	1	27	ND	ND	372
HIN 16+00W	.1	2.71	25	ND	172	ND	.32	4.8	22	129	39	3.96	.08	1.27	1359	2	.01	57	.23	27	ND	ND	ND	ND	30	ND	ND	298

SAMPLE NAME	AG PPM	AL %	AS PPM	AU PPM	BA PPM	BT 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
H1N 16+50W	.5	2.97	27	ND	144	ND	.37	6.4	24	134	56	4.52	.13	1.54	1045	2	.01	67	.26	31	ND	ND	ND	2	37	ND	ND	310
H1N 17+00W	.4	3.13	12	ND	275	ND	.43	10.2	22	74	31	3.73	.10	.75	1862	1	.01	46	.28	20	ND	ND	ND	2	46	ND	ND	432
H1N 17+50W	.4	3.06	11	ND	265	ND	.29	7.3	15	48	19	2.87	.08	.39	2018	1	.01	39	.39	27	ND	ND	ND	2	27	ND	ND	355
H1N 18+00W	.4	2.75	22	ND	257	ND	.47	2.9	25	47	59	4.15	.12	.97	2068	2	.01	37	.22	22	ND	ND	ND	2	52	ND	5	308
H1N 18+50W	.5	3.49	18	ND	176	ND	.26	1.9	17	51	39	3.71	.09	.81	824	2	.01	38	.32	17	ND	ND	ND	3	39	ND	ND	235
H1N 19+00W	.3	3.74	15	ND	175	ND	.14	2.9	19	61	84	4.15	.11	1.12	762	3	.01	57	.17	17	ND	ND	ND	2	21	ND	4	307
H1N 19+50W	.3	3.68	14	ND	193	ND	.20	4.8	22	48	58	4.33	.12	.83	1380	2	.01	52	.14	17	ND	ND	ND	3	31	ND	ND	320
H1N 20+00W	.5	4.01	14	ND	90	ND	.23	1.0	18	103	67	3.56	.10	1.24	260	3	.01	50	.05	17	ND	ND	ND	3	33	ND	ND	188
H1N 20+50W	.4	2.46	27	ND	190	ND	.16	10.0	21	39	77	4.94	.12	.55	948	3	.01	71	.26	19	ND	ND	ND	ND	22	ND	ND	521
H1N 21+00W	.7	2.48	30	ND	193	ND	.18	4.9	21	38	76	4.53	.12	.55	1380	3	.01	64	.23	36	ND	ND	3	ND	28	ND	ND	421
H1N 21+50W	.1	2.28	63	ND	193	ND	.27	4.1	23	39	64	4.80	.11	.48	1239	2	.01	61	.12	23	ND	ND	ND	ND	36	ND	ND	338
H1N 22+00W	.3	2.70	45	ND	158	ND	.15	3.0	22	55	63	4.88	.12	.80	922	3	.01	62	.18	20	ND	ND	ND	ND	23	ND	ND	339
H1N 22+50W	.7	3.16	24	ND	240	ND	.16	4.9	23	55	47	4.68	.12	.87	2456	2	.01	41	.43	25	ND	ND	3	2	23	ND	ND	348
H1N 23+00W	.4	3.00	23	ND	204	ND	.15	3.0	23	52	56	4.69	.11	.75	1751	2	.01	36	.33	21	ND	ND	ND	1	21	ND	ND	247
H1N 23+50W	.4	2.88	16	ND	224	ND	.15	2.4	17	34	39	3.73	.09	.47	2011	1	.01	24	.36	21	ND	ND	ND	2	23	ND	ND	166
H1N 24+00W	.4	3.16	13	ND	182	ND	.15	2.1	19	41	61	4.15	.09	.65	920	2	.01	35	.25	19	ND	ND	ND	1	22	ND	ND	218
H1N 24+50W	.5	3.00	17	ND	294	ND	.24	5.6	21	43	69	4.20	.11	.57	2859	1	.01	31	.31	62	ND	ND	ND	2	36	ND	ND	225
H1N 25+00W	.4	2.28	11	ND	110	ND	.32	.8	18	81	82	3.65	.11	1.17	606	1	.01	39	.13	15	ND	ND	ND	1	41	ND	ND	94
H2N 0+00W	.4	2.68	ND	ND	478	ND	.75	3.0	19	26	70	4.00	.13	1.30	4060	1	.01	22	.23	56	ND	ND	ND	1	85	ND	ND	130
H2N 0+50W	.2	2.03	ND	ND	852	ND	1.14	2.8	14	16	88	2.79	.12	.64	4558	ND	.01	16	.33	44	ND	ND	ND	ND	105	ND	ND	130
H2N 1+00W	.2	2.46	30	ND	481	ND	.67	1.4	20	35	118	4.17	.14	.90	2794	1	.01	36	.20	37	ND	ND	ND	ND	89	ND	ND	96
H2N 1+50W	1.9	3.75	3	ND	1391	11	1.05	.9	44	203	121	5.70	.36	3.25	1831	2	.01	141	.48	47	6	ND	ND	16	344	ND	11	138
H2N 2+00W	.9	3.78	8	ND	535	6	.68	1.1	30	94	186	5.19	.22	2.23	1665	1	.01	82	.29	32	ND	ND	ND	8	112	ND	10	129
H2N 2+50W	.1	2.67	ND	ND	1263	ND	1.10	4.5	16	21	68	3.22	.12	.75	7756	ND	.01	21	.42	60	ND	ND	ND	ND	107	ND	ND	304
H2N 3+00W	.2	3.11	11	ND	364	ND	.54	2.0	21	35	87	4.36	.13	1.22	2884	1	.01	28	.22	32	ND	ND	ND	1	59	ND	ND	159
H2N 3+50W	.4	3.27	16	ND	317	ND	.51	5.8	23	29	88	4.14	.13	1.01	3203	2	.01	27	.31	120	ND	ND	ND	ND	58	ND	ND	344
H2N 4+00W	.4	3.38	40	ND	284	ND	.45	6.0	24	30	82	3.96	.11	.90	2982	1	.01	26	.24	117	ND	ND	ND	ND	48	ND	4	334
H2N 4+50W	.2	2.69	81	ND	274	ND	.66	4.4	19	25	61	3.53	.12	.78	2895	2	.01	29	.22	98	ND	ND	ND	ND	68	ND	ND	276
H2N 5+00W	.2	2.15	59	ND	400	ND	.65	5.6	16	30	63	3.63	.11	.94	3054	1	.01	28	.25	87	ND	ND	ND	ND	65	ND	ND	251
H2N 5+50W	.3	2.41	40	ND	444	ND	.42	3.8	16	25	54	3.62	.11	.77	3604	1	.01	25	.28	57	ND	ND	ND	ND	54	ND	ND	200
H2N 6+00W	.1	2.45	151	ND	281	ND	.54	2.2	18	27	58	4.02	.12	.89	2866	1	.01	28	.26	42	ND	ND	ND	ND	66	ND	ND	165
H2N 6+50W	.1	3.17	114	ND	216	ND	.22	4.2	18	24	43	3.89	.10	.78	2569	3	.01	39	.22	41	ND	ND	ND	ND	28	ND	ND	210
H2N 7+00W	.3	3.18	182	ND	525	ND	.31	14.3	22	44	51	4.62	.13	1.13	2676	8	.01	72	.28	25	ND	ND	ND	ND	44	ND	ND	530
H2N 7+50W	.1	3.11	17	ND	467	ND	.31	5.1	18	34	51	3.93	.12	.79	2431	1	.01	38	.32	18	ND	ND	ND	ND	53	ND	ND	209
H2N 8+00W	.3	2.98	30	ND	198	ND	.15	1.0	20	46	82	4.71	.13	1.07	1071	2	.01	37	.13	20	ND	ND	ND	1	25	ND	ND	154
H2N 8+50W	.1	2.74	14	ND	354	ND	.22	3.5	19	34	46	4.13	.11	.81	2119	1	.01	36	.20	19	ND	ND	ND	ND	36	ND	ND	183
H2N 9+00W	.3	2.98	14	ND	354	ND	.37	6.3	19	43	49	4.03	.12	.89	2552	2	.01	42	.30	18	ND	ND	ND	ND	62	ND	ND	249
H2N 9+50W	.2	2.31	25	ND	555	ND	.45	15.6	20	28	46	4.18	.13	.78	4198	2	.01	38	.26	22	ND	ND	ND	ND	70	ND	ND	339
H2N 10+00W	.1	2.84	34	ND	362	ND	.24	3.2	20	35	40	4.51	.13	.85	1775	2	.01	43	.23	23	ND	ND	ND	ND	39	ND	ND	218

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 %	MM PPM	MO PPM	NA %	NI PPM	P %	PB PPM	PD PPM	PT PPM	SB PPM	SN PPM	SR PPM	U PPM	W PPM	ZN PPM
H2N 10+50W	.1	2.90	70	ND	120	ND	.31	6.7	32	82	110	5.60	.14	1.81	1239	7	.01	90	.21	32	ND	ND	5	ND	25	ND	4	439
H2N 11+00W	.1	2.72	39	ND	99	ND	.28	2.6	21	72	74	4.67	.12	1.51	954	3	.01	51	.16	21	ND	ND	ND	ND	31	ND	ND	227
H2N 11+50W	.1	1.79	33	ND	52	ND	.28	.9	18	46	60	4.29	.10	1.01	566	2	.01	31	.05	16	ND	ND	3	ND	23	ND	ND	142
H2N 12+00W	.1	2.76	20	ND	184	ND	.32	8.7	22	77	31	4.10	.10	1.09	1559	2	.01	56	.16	30	ND	ND	ND	1	31	ND	ND	498
H2N 12+50W	.8	3.38	58	ND	113	ND	.34	7.8	48	117	117	6.12	.15	1.74	1915	7	.01	94	.20	33	ND	ND	4	2	31	ND	6	563
H2N 13+00W	.4	3.14	18	ND	71	3	.29	5.3	32	124	100	5.87	.14	1.87	1123	3	.01	82	.12	27	ND	ND	3	2	28	ND	3	501
H2N 13+50W	.1	3.96	16	ND	38	ND	.19	2.5	25	194	63	5.43	.11	2.94	519	4	.01	73	.04	18	ND	ND	ND	2	19	ND	12	292
H2N 14+00W	.4	3.27	13	ND	132	ND	.29	4.8	24	101	43	4.12	.10	1.07	1359	2	.01	71	.11	24	ND	ND	ND	4	19	ND	ND	395
H2N 14+50W	.1	2.45	7	ND	340	ND	.41	12.3	19	75	24	3.49	.10	.87	2500	1	.01	48	.23	25	ND	ND	ND	3	37	ND	ND	439
H2N 15+00W	.1	3.15	17	ND	254	ND	.29	11.6	20	64	25	3.31	.09	.70	2507	2	.01	50	.20	36	ND	ND	ND	3	27	ND	ND	379
H2N 15+50W	.2	2.82	13	ND	125	ND	.37	7.5	26	177	51	4.30	.11	1.60	1655	2	.01	61	.18	22	ND	ND	ND	3	20	ND	ND	546
H2N 16+00W	.2	3.26	23	ND	135	ND	.34	5.9	23	102	60	4.10	.11	1.16	667	2	.01	69	.16	21	ND	ND	ND	2	26	ND	ND	373
H2N 16+50W	.2	3.55	25	ND	172	ND	.45	4.6	24	87	61	4.01	.11	.94	1215	2	.01	67	.14	21	ND	ND	ND	3	36	ND	4	277
H2N 17+00W	.1	3.15	28	ND	227	ND	.37	4.4	22	86	41	3.49	.10	.86	1343	2	.01	66	.31	23	ND	ND	ND	1	30	ND	ND	280
H2N 17+50W	.1	3.32	17	ND	169	4	.32	5.8	23	83	54	3.87	.10	1.02	1402	2	.01	65	.11	22	ND	ND	ND	3	25	ND	ND	348
H2N 18+00W	.1	2.71	13	ND	186	ND	.23	7.6	19	61	30	3.32	.08	.80	1727	1	.01	47	.16	21	ND	ND	ND	ND	23	ND	ND	309
H2N 18+50W	.1	2.99	29	ND	110	ND	.46	5.9	26	151	64	4.39	.12	1.95	1361	2	.01	64	.14	18	ND	ND	ND	2	35	ND	3	373
H2N 19+00W	.1	3.14	19	ND	87	ND	.31	4.6	24	141	48	4.51	.11	1.91	847	2	.01	80	.12	21	ND	ND	ND	4	23	ND	6	430
H2N 19+50W	.1	2.88	60	ND	80	ND	.18	3.0	28	144	68	5.42	.13	1.02	877	2	.01	82	.14	20	ND	ND	ND	2	23	ND	ND	401
H2N 20+00W	.3	3.47	24	ND	56	3	.16	2.8	26	138	80	4.83	.11	1.94	407	3	.01	96	.06	20	ND	ND	ND	2	24	ND	6	423
H2N 20+50W	.1	3.51	20	ND	117	ND	.33	5.9	20	48	77	4.15	.12	1.09	627	3	.01	78	.17	20	ND	ND	ND	1	52	ND	ND	408
H2N 21+00W	.1	3.39	21	ND	214	4	.33	7.1	23	108	54	4.54	.12	1.86	1121	4	.01	70	.33	21	ND	ND	ND	1	48	ND	5	448
H2N 21+50W	.1	3.35	22	ND	150	ND	.16	6.2	16	41	46	3.68	.10	1.02	785	3	.01	48	.38	19	ND	ND	ND	1	24	ND	ND	411
H2N 22+00W	.3	2.94	20	ND	243	ND	.15	9.2	17	37	36	3.75	.11	.75	1382	3	.01	47	.47	26	ND	ND	3	2	28	ND	ND	499
H2N 22+50W	.1	2.38	32	ND	96	ND	.14	4.4	21	53	65	4.52	.11	1.26	495	3	.01	67	.12	19	ND	ND	4	ND	17	ND	ND	520
H2N 23+00W	.1	2.79	28	ND	156	ND	.13	7.7	21	63	53	4.10	.10	1.05	1007	2	.01	58	.19	19	ND	ND	ND	ND	19	ND	ND	426
H2N 23+50W	.1	2.37	22	ND	147	ND	.22	7.2	19	38	38	3.56	.10	.58	911	1	.01	42	.21	20	ND	ND	ND	ND	29	ND	ND	386
H2N 24+00W	.1	2.05	14	ND	125	ND	.17	3.6	13	33	47	3.05	.09	.61	599	1	.01	26	.16	16	ND	ND	ND	ND	29	ND	ND	201
H2N 24+50W	.7	2.58	11	ND	227	ND	.25	5.9	13	37	30	3.11	.10	.53	1063	1	.01	33	.27	22	ND	ND	ND	ND	38	ND	ND	269
H2N 25+00W	.1	2.58	23	ND	151	ND	.21	3.1	17	65	41	3.92	.11	.84	520	2	.01	42	.20	21	ND	ND	3	ND	34	ND	ND	244
H2N 25+50W	.2	2.03	21	ND	171	ND	.20	3.2	17	62	40	4.05	.11	.68	1204	2	.01	31	.20	20	ND	ND	3	ND	32	ND	ND	231
H2N 26+00W	.1	2.52	19	ND	111	ND	.20	1.9	17	35	60	3.66	.10	.64	535	1	.01	32	.22	20	ND	ND	ND	ND	34	ND	ND	135
H2N 26+50W	.3	3.07	23	ND	226	ND	.26	2.9	18	38	52	3.67	.10	.64	1177	1	.01	29	.25	20	ND	ND	ND	ND	40	ND	ND	165
H2N 27+00W	.1	2.72	26	ND	126	ND	.21	1.5	17	61	61	3.75	.10	.87	520	2	.01	33	.17	19	ND	ND	ND	1	33	ND	ND	119
H2N 27+50W	.3	2.94	26	ND	162	3	.18	1.7	16	70	52	4.17	.10	.90	581	2	.01	39	.12	20	ND	ND	ND	1	24	ND	ND	200
H2N 28+00W	1.2	2.43	19	ND	238	ND	.30	2.0	16	45	33	3.54	.10	.63	1353	1	.01	26	.34	19	ND	ND	ND	ND	43	ND	ND	184
H2N 28+50W	.8	3.46	30	ND	136	ND	.22	2.0	16	37	48	3.92	.12	.65	817	2	.01	38	.17	24	ND	ND	ND	ND	31	ND	ND	209
H2N 29+00W	.3	4.06	14	ND	148	ND	.11	.9	14	23	66	2.92	.08	.43	646	2	.01	22	.16	21	ND	ND	ND	1	16	ND	ND	155
H2N 29+50W	.1	1.81	18	ND	96	ND	.12	1.2	13	30	52	3.14	.09	.66	635	2	.01	24	.11	21	ND	ND	3	ND	20	ND	ND	110

SAMPLE NAME	AG PPM	AL I	AS PPM	AU PPM	BA PPM	BT PPM	CA I	CD PPM	CO PPM	CR PPM	CU PPM	FE I	K %	MG I	MN PPM	MO PPM	NA I	NI PPM	P I	PB PPM	PD PPM	PT PPM	SB PPM	SM PPM	SR PPM	U PPM	W PPM	ZN PPM	
H2N 30+00W	.2	2.00	20	ND	82	ND	.29	.8	18	79	80	4.06	.12	1.20	805	2	.01	39	.09	23	ND	ND	3	ND	43	ND	ND	94	
H3N 0+00W	.6	3.13	6	ND	540	9	.63	1.4	30	89	113	4.29	.15	2.27	2357	2	.01	109	.11	52	ND	ND	ND	6	61	ND	ND	94	
H3N 0+50W	.1	1.65	ND	ND	1212	ND	1.60	3.3	12	18	103	2.15	.14	.47	11326	ND	.01	19	.24	86	ND	ND	ND	ND	240	ND	ND	246	
H3N 1+00W	.2	4.85	6	ND	572	5	.67	.7	23	71	94	4.14	.16	1.84	1677	3	.01	117	.51	27	ND	ND	ND	5	78	ND	9	114	
H3N 1+50W	.1	3.39	3	ND	529	ND	.67	1.9	21	32	95	4.22	.15	.95	2978	2	.01	27	.34	32	ND	ND	ND	2	75	ND	ND	141	
H3N 2+00W	.1	3.71	6	ND	277	ND	.57	1.8	23	42	108	4.43	.15	1.13	2136	2	.01	33	.33	29	ND	ND	ND	2	63	ND	ND	144	
H3N 2+50W	.2	2.95	5	ND	346	ND	.88	2.8	17	22	92	3.07	.12	.62	2959	1	.01	16	.31	44	ND	ND	ND	ND	72	ND	ND	155	
H3N 3+00W	.1	1.35	5	ND	555	ND	2.70	6.3	8	10	43	1.56	.12	.36	3453	1	.01	12	.16	175	ND	ND	ND	ND	194	ND	ND	187	
H3N 3+50W	.5	2.75	184	ND	330	ND	.75	5.3	24	23	119	3.69	.12	.60	2759	3	.01	46	.31	56	ND	ND	ND	ND	78	ND	ND	310	
H3N 4+00W	.1	2.83	492	ND	306	ND	.51	11.0	37	30	124	4.69	.14	.86	4143	4	.01	64	.24	263	ND	ND	3	ND	64	ND	ND	523	
H3N 4+50W	.1	3.17	794	ND	306	ND	.46	7.5	31	29	88	4.38	.14	.79	3566	4	.01	57	.27	91	ND	ND	ND	ND	54	ND	ND	395	
H3N 5+00W	.1	2.95	745	ND	364	ND	.44	9.3	32	22	89	4.30	.13	.64	4555	4	.01	67	.33	126	ND	ND	ND	ND	62	ND	ND	443	
H3N 5+50W	.1	3.11	408	ND	295	ND	.43	2.7	25	25	70	4.01	.12	.68	2969	3	.01	43	.33	64	ND	ND	ND	ND	49	ND	ND	245	
H3N 6+00W	.1	4.08	46	ND	272	ND	.35	2.3	20	28	82	3.84	.13	.67	3766	3	.01	24	.23	28	ND	ND	ND	1	40	ND	ND	139	
H3N 6+50W	.1	3.25	78	ND	380	ND	.48	2.7	24	31	74	4.14	.13	.74	3574	2	.01	33	.26	36	ND	ND	ND	ND	59	ND	ND	200	
H3N 7+00W	.1	3.62	89	ND	391	ND	.33	4.5	26	28	75	4.04	.12	.72	3616	2	.01	34	.44	40	ND	ND	ND	1	49	ND	ND	322	
H3N 7+50W	.1	3.45	58	ND	257	ND	.29	1.7	20	32	66	4.37	.14	.73	1771	3	.01	35	.31	29	ND	ND	ND	ND	44	ND	ND	186	
H3N 8+00W	.1	2.58	28	ND	230	ND	.36	1.6	20	35	72	4.36	.14	.85	1922	2	.01	35	.18	24	ND	ND	ND	ND	54	ND	ND	134	
H3N 8+50W	.3	2.67	20	ND	311	ND	.22	5.2	16	36	45	3.69	.13	.78	1518	3	.01	57	.28	19	ND	ND	ND	ND	35	ND	ND	456	
H3N 9+00W	.1	2.21	6	ND	240	ND	.24	1.4	16	27	49	3.52	.12	.66	1773	1	.01	30	.12	23	ND	ND	ND	ND	35	ND	ND	115	
H3N 9+50W	.2	3.52	37	ND	274	ND	.15	3.0	16	31	53	3.32	.12	.62	949	3	.01	39	.28	22	ND	ND	ND	1	26	ND	ND	181	
H3N 10+00W	.1	2.98	27	ND	302	ND	.26	2.2	19	34	63	3.88	.13	.82	1132	2	.01	31	.29	27	ND	ND	ND	ND	35	ND	ND	172	
H3N 10+50W	.4	3.12	14	ND	369	ND	.14	3.4	16	33	47	3.57	.11	.60	1452	2	.01	31	.25	21	ND	ND	ND	ND	24	ND	ND	197	
H3N 11+00W	1.2	2.46	146	ND	78	ND	.43	13.9	78	107	225	7.90	.22	1.99	1819	10	.01	156	.16	44	ND	ND	13	ND	35	6	3	628	
H3N 11+50W	.2	3.06	46	ND	148	ND	.27	3.4	24	41	70	4.75	.14	.77	1303	3	.01	50	.13	28	ND	ND	ND	1	31	4	ND	259	
H3N 12+00W	.3	3.42	35	ND	124	ND	.23	3.4	25	124	86	5.01	.15	1.78	614	4	.01	88	.10	21	ND	ND	ND	3	1	26	5	5	374
H3N 12+50W	.2	2.75	27	ND	139	4	.40	6.4	29	111	49	4.25	.13	1.27	1627	2	.01	60	.12	25	ND	ND	ND	2	31	4	ND	412	
H3N 13+00W	.6	2.06	12	ND	239	ND	1.02	8.1	26	54	124	3.21	.15	.90	2065	2	.01	55	.08	20	ND	ND	ND	ND	109	13	ND	302	
H3N 13+50W	.2	2.94	9	ND	168	ND	.31	6.0	24	55	74	4.38	.13	1.19	1285	3	.01	60	.06	19	ND	ND	ND	1	40	ND	ND	381	
H3N 14+00W	.4	2.59	8	ND	257	ND	.31	31.2	26	48	51	3.77	.12	.95	2397	2	.01	63	.07	26	ND	ND	ND	2	37	3	ND	833	
H3N 14+50W	.3	4.22	14	ND	168	6	.37	4.7	25	177	61	4.46	.14	1.85	1192	4	.01	70	.16	24	ND	ND	ND	4	33	7	10	261	
H3N 15+00W	.3	4.03	18	ND	76	6	.44	5.1	35	247	82	5.69	.17	2.66	1467	4	.01	90	.08	22	ND	ND	ND	4	25	6	8	413	
H3N 15+50W	.1	2.32	3	ND	600	ND	.82	19.9	17	56	41	2.72	.05	.67	4840	ND	.01	35	.31	88	ND	ND	ND	ND	59	ND	ND	535	
H3N 16+00W	.1	1.19	7	ND	290	ND	.78	6.9	18	53	36	2.41	.04	.49	2832	ND	.01	24	.10	79	ND	ND	ND	ND	49	ND	ND	246	
H3N 16+50W	.1	3.75	11	ND	212	ND	.59	6.1	23	55	40	3.48	.07	.69	1677	2	.01	65	.21	25	ND	ND	ND	3	45	ND	ND	370	
H3N 17+00W	.1	3.07	18	ND	229	ND	.68	7.5	26	91	64	3.99	.08	1.09	2549	2	.01	62	.16	25	ND	ND	ND	ND	52	ND	ND	484	
H3N 17+50W	.1	3.29	28	ND	251	ND	.51	9.0	31	83	61	4.73	.09	1.35	2508	2	.01	72	.14	48	ND	ND	ND	1	40	ND	ND	447	
H3N 18+00W	.1	2.93	52	ND	130	ND	.35	6.7	46	112	72	5.70	.10	1.51	1830	3	.01	75	.14	22	ND	ND	ND	ND	23	ND	ND	538	
H3N 18+50W	.1	2.60	28	ND	281	ND	.38	10.4	24	70	44	3.95	.06	.82	2339	1	.01	45	.25	19	ND	ND	ND	ND	37	ND	ND	389	

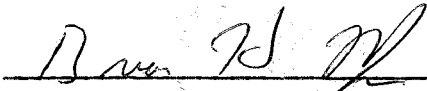
SAMPLE NAME	AG PPM	AL I	AS PPM	AU PPM	BA PPM	BI PPM	CA %	CD PPM	CO PPM	CR PPM	CU PPM	FE I	K I	MG I	MN PPM	MO PPM	NA I	NI PPM	P I	PB PPM	PD PPM	PT PPM	SB PPM	SN PPM	SR PPM	U PPM	W PPM	Zn PPM
H3N 19+00W	.3	4.66	33	ND	95	ND	.27	4.2	26	172	69	4.78	.13	2.27	782	3	.01	70	.10	20	ND	ND	ND	3	24	ND	7	315
H3N 19+50W	.2	3.51	27	ND	154	3	.20	4.2	23	136	62	4.77	.12	2.09	869	2	.01	67	.12	22	ND	ND	ND	1	17	ND	5	405
H3N 20+00W	.1	3.81	39	ND	191	ND	.29	4.5	24	86	54	4.42	.12	1.13	1130	3	.01	62	.22	27	ND	ND	ND	1	39	ND	ND	315
H3N 20+50W	.2	3.64	57	ND	68	3	.17	2.5	30	268	63	5.59	.16	2.42	677	3	.01	78	.05	19	ND	ND	ND	3	21	ND	3	248
H3N 21+00W	.5	3.69	31	ND	133	ND	.26	6.1	26	128	81	4.80	.15	1.47	1141	3	.01	71	.15	22	ND	ND	3	2	33	ND	4	375
H3N 21+50W	.1	2.43	15	ND	167	ND	.26	8.6	18	53	29	3.75	.10	.75	1405	2	.01	46	.23	22	ND	ND	ND	ND	41	ND	ND	393
H3N 22+00W	.3	2.59	12	ND	144	ND	.09	6.8	19	55	47	4.29	.11	1.29	863	4	.01	55	.12	22	ND	ND	3	ND	13	ND	ND	505
H3N 22+50W	.2	3.48	17	ND	188	ND	.14	11.3	23	56	64	4.96	.13	1.18	1198	5	.01	80	.25	23	ND	ND	3	ND	19	ND	3	682
H3N 23+00W	.7	3.24	19	ND	111	ND	.13	7.0	22	68	67	4.67	.12	1.37	721	4	.01	66	.19	23	ND	ND	ND	ND	17	ND	ND	526
H3N 23+50E	.3	3.57	29	ND	182	ND	.27	4.6	22	46	48	4.26	.12	.61	1772	2	.01	36	.29	24	ND	ND	ND	ND	34	ND	ND	321
H3N 24+00W	.4	3.62	34	ND	153	ND	.18	4.1	23	41	90	4.82	.12	.88	1124	3	.01	46	.15	41	ND	ND	ND	1	25	ND	ND	304
H3N 24+50W	.1	3.31	22	ND	135	4	.39	7.0	25	116	57	4.70	.12	1.52	1518	2	.01	62	.11	20	ND	ND	ND	ND	47	ND	ND	324
H3N 25+00W	.5	3.54	38	ND	119	ND	.13	4.9	27	69	70	4.79	.13	.82	829	3	.01	82	.12	23	ND	ND	ND	ND	21	ND	ND	376
H3N 25+50W	.2	2.68	64	ND	174	ND	.19	7.1	30	93	57	6.15	.14	.74	1821	2	.01	69	.20	23	ND	ND	3	ND	26	ND	ND	502
H3N 26+00W	.5	4.16	37	ND	181	ND	.15	2.4	24	52	87	4.77	.13	.72	959	3	.01	40	.19	26	ND	ND	ND	3	22	ND	ND	244
H3N 26+50W	1.0	3.77	26	ND	189	ND	.15	3.2	21	35	69	4.19	.11	.64	1655	3	.01	38	.16	26	ND	ND	ND	1	21	ND	ND	282
H3N 27+00W	.7	3.79	14	ND	104	ND	.11	2.8	21	114	66	4.52	.11	1.76	578	2	.01	62	.15	17	ND	ND	ND	ND	13	ND	ND	307
H3N 27+50W	.2	3.23	23	ND	193	ND	.15	1.3	15	34	72	4.61	.13	.82	674	3	.01	38	.14	22	ND	ND	ND	ND	28	ND	ND	194
H3N 28+00W	.1	2.00	21	ND	125	ND	.26	1.3	18	30	80	4.33	.13	.92	914	3	.01	29	.16	19	ND	ND	ND	ND	38	ND	ND	133
H3N 28+50W	.8	2.40	18	ND	274	ND	.19	1.8	16	26	41	3.76	.10	.59	1247	2	.01	29	.21	25	ND	ND	ND	ND	34	ND	ND	180
H3N 29+00W	.5	3.28	15	ND	137	ND	.15	1.7	14	29	64	3.86	.11	.66	968	3	.01	32	.25	21	ND	ND	ND	ND	23	ND	ND	182
H3N 29+50W	1.4	3.79	19	ND	187	ND	.23	2.1	15	27	47	3.73	.11	.59	1039	3	.01	28	.21	19	ND	ND	ND	ND	27	ND	ND	189
H3N 30+00W	.2	2.96	8	ND	298	ND	.17	2.1	16	27	48	3.77	.10	.51	1838	2	.01	24	.29	22	ND	ND	ND	ND	24	ND	ND	201
H3N 30+50W	.5	2.69	9	ND	220	ND	.24	2.0	15	26	43	3.68	.09	.57	1140	2	.01	23	.38	21	ND	ND	ND	ND	35	ND	ND	175
H3N 31+00W	.9	3.94	3	ND	256	ND	.13	1.0	13	24	34	3.63	.10	.42	796	2	.01	19	.18	22	ND	ND	ND	ND	21	ND	ND	204
H3N 31+50W	.4	3.42	22	ND	147	ND	.23	1.1	24	45	57	5.25	.13	.95	788	4	.01	42	.14	31	ND	ND	ND	ND	34	ND	ND	160
H3N 32+00W	.6	2.90	24	ND	203	ND	.25	1.3	20	66	62	4.02	.11	.84	1702	2	.01	33	.23	27	ND	ND	ND	1	32	ND	ND	179
H3N 32+50W	.7	3.49	26	ND	183	3	.16	.9	20	61	57	4.27	.11	.69	1876	1	.01	30	.16	23	ND	ND	ND	3	23	ND	ND	185

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 HALL CREEK MINERAL PROPERTY is based on field work carried out under my direction and my personal examination of the property, visited between August 9 and August 27, 1985, and from previous related reports, and published material available from government geological departments.



Brian H. Meyer, P. Geol.

October 10, 1985

ITEMIZED COST STATEMENT

Hall Creek Group

Period: August 9 to August 27, 1985

Personnel (Field)

B. Meyer	Geologist	4 Days @ \$200	\$800
J. Murray	Assistant	2 Days @ \$150	\$300
K. Murray	Assistant	2 Days @ \$150	\$300
Vehicle		4 Days @ \$40	\$160

Personnel (Office)

B. Meyer		2 Days @ \$150	\$300
Analyses Soil			\$2698.30
Rock			\$ 64.00
Map Preparation			<u>\$ 800.00</u>
			\$5422.30



LEGEND

- Soil Sample Location
- ²⁴ Gold Value, < 30 ppb
- ²⁴ Gold Value, ≥ 30 ppb
- No Value Denotes Not Detected
- ²⁴ Chromium Value, < 110 ppm
- ²⁴ Chromium Value, ≥ 110 ppm
- ²⁴ Zinc Value, < 500 ppm
- ▲²⁴ Zinc Value, ≥ 500 ppm
- Rock Sample Location
- - - Approximate Geological Contact

GEOLOGICAL BRANCH ASSESSMENT REPORT

14,010

GOLDRICH RESOURCES INC.
 HALL CREEK GROUP
SOIL GEOCHEMISTRY
 (GOLD, CHROMIUM, ZINC)

NELSON MINING DIVISION, B.C.

Scale: 1 : 5000 NTS: 82F 6W
 Date: SEPTEMBER 1985 Dwg. No.: