ARIS SUMMARY SHEET

District Geologist, Kamloops

Off Confidential: 94.12.14

ASSESSMENT REPORT 23223

MINING DIVISION: Osoyoos

PROPERTY:

Puma

LOCATION:

LAT 49 21 00

LONG 119 50 00

UTM 11 5470007 294224

NTS

082E05W

CAMP:

1

011

Hedley Camp

CLAIM(S):

Puma 3

OPERATOR(S):

Grand National Res. Topper Gold

AUTHOR(S):

Borovic, I.

REPORT YEAR:

1993, 28 Pages

COMMODITIES

SEARCHED FOR: Copper, Silver, Gold, Lead, Zinc

KEYWORDS:

Triassic, Old Tom Formation, Limestones, Andesites, Tuffs

WORK

DONE:

Geophysical, Geochemical

EMGR 12.3 km; VLF

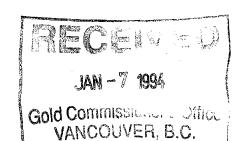
Map(s) - 1; Scale(s) - 1:5000

SOIL 260 sample(s);ME

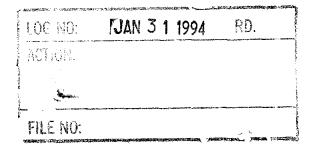
Map(s) - 4; Scale(s) - 1:5000

RELATED

REPORTS: 18237,19643,20747,22107



REPORT



and

THE GEOCHEMICAL

0 N

GEOPHYSICAL SURVEY

of

THE LAREDO PROJECT

Puma Claims

Lat. 49 21'N; Long. 119 50'W

N.I.S. 82 E/5W

OSOYOOS M. D.

British Columbia

Owner-Operator:

GRAND NATIONAL RESOURCES Inc

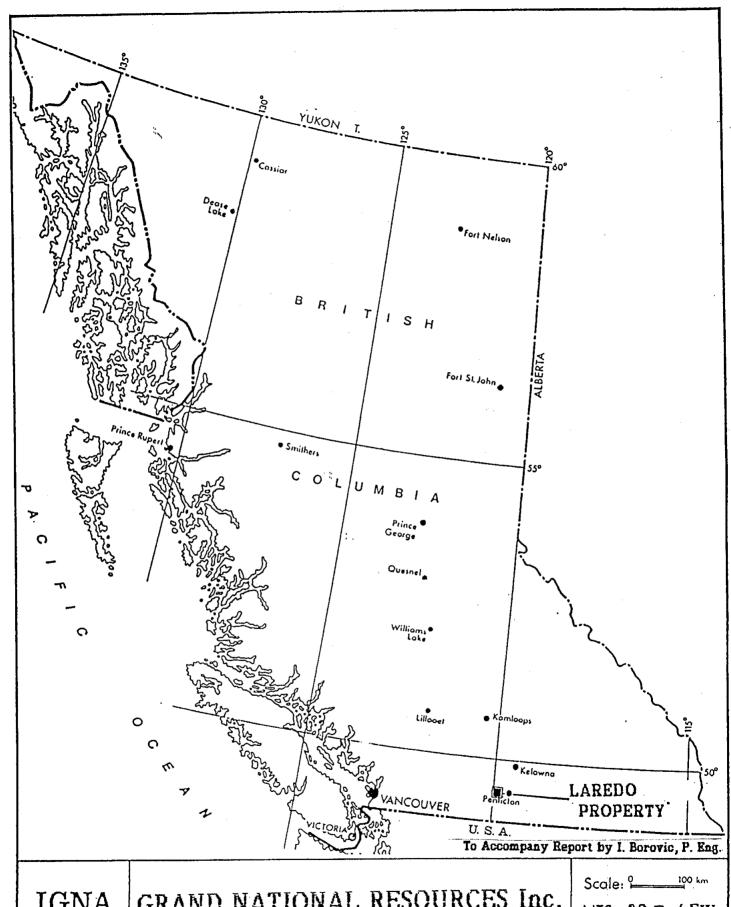
by

I. BOROVIC, P. Eng. geologist

VANCOUVER, B. C. Jan 04, 1994







IGNA

engineering & consulting Itd.

GRAND NATIONAL RESOURCES Inc. LAREDO PROPERTY Location Map

NTS 82 E / 5W

Date: Dec 30 1993

Figure:

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INTRODUCTION

Geochemical soil and geophysical VLF-EM surveys of the PUMA 3 claim has been done from Dec 3 to Dec 14 1993. Three men field crew comprising field supervisor, VLF operator and a soil sampler-field assisstant was employed in the field. The results of the surveys were examined by the writer and findings are described in this Report.

PROPERTY

Location: Lat. 49o21' Long. 119o50' (N.T.S. 82E/5) (Fig.s 1&2)

Puma Group of claims is located north of Keremeos Creek and on the road to Apex Ski Area, from about 12 to 19 km north of Keremeos.

| Claims | | No. | of | Un | iits | TE | enure | No. | Expi | ry | Date |
|--------|-----|-----|----|----|------|---------|-------|-----|------|----|---------|
| PUMA | #1 | | | 14 | | e sac 1 | 2464 | 82 | N | ov | 25/2001 |
| PUMA | #2 | | | 18 | | | 2464 | 83 | N | Oν | 25/2001 |
| PUMA | #3 | | | 18 | | | 2464 | 84 | D | ec | 15/95 |
| PUMA | #4 | | | 12 | | | 2464 | 90 | F | eb | 10/96 |
| PUMA | #5 | | | 12 | | | 2465 | 26 | | ct | 5/95 |
| PUMA | \$6 | | | 15 | | | 2471 | 49 | М | ar | 2/96 |

Access

Via Hwy 3A about 6 km to the north from Olalla, a Green Mtn. road turns west through the Indian Reserve and crosses the Kero-Laredo-Puma property 3 km from the intersection. The road crosscuts the Puma group in the north south direction.

OWNER-OPERATOR

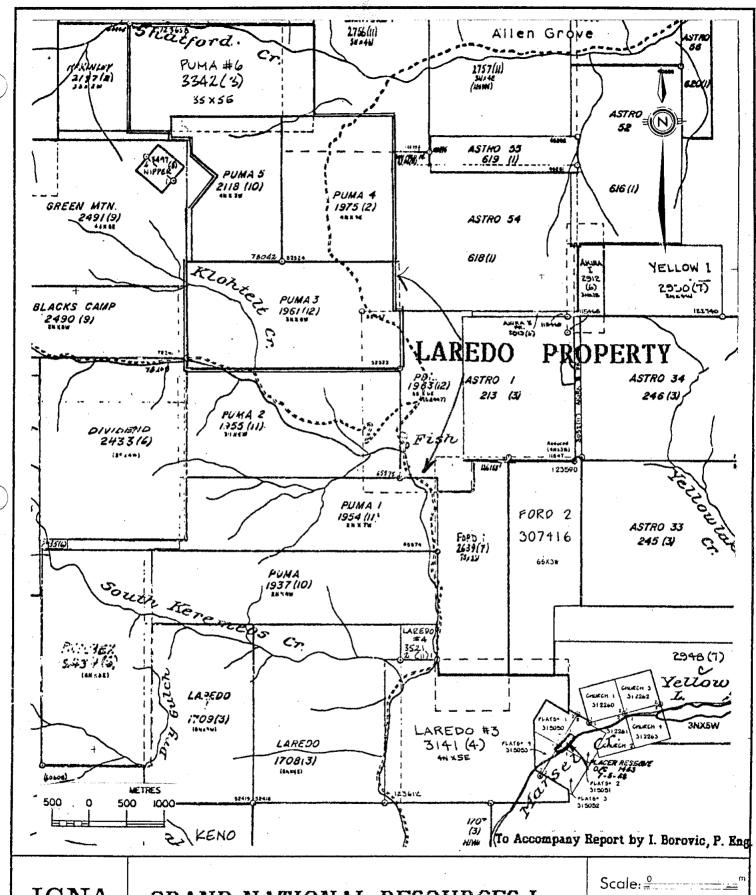
GRAND NATIONAL RESOURCES Inc. of #905-626 Pender St., Vancouver, B.C. V6B 1V9

Facilities and Services

The nearby settlement of Keremeos and Okanagan Falls have excellent room and board facilities for accommodating the exploration crew. Major socioeconomic centres with schools, hospitals and heavy-duty equipment are in Penticton about 25 km to the east; Princeton--some 80 km to the west, and Osoyoos, about 80 km to the southeast on Hwy 3.

Property Resources

There is ample timber available on the property, water for drilling is available from the Keremeos Creek.



IGNA

engineering & consulting Itd. GRAND NATIONAL RESOURCES Inc. LAREDO PROPERTY Claim Map

N.T.S.82 E / 5W Date: Dec 30 1993

Figure:

2 .

GEOLOGY, STRUCTURE AND MINERALIZATION

General Geology (Fig. 3)

The property is underlain by cherts, tuffs, and greenstones of the Shoemaker and Old Tom formations of the Triassic or earlier age. Jurassic limestones also outcrop on the property. All these rocks were intruded by the Cretaceous granites and granodiorites of the Nelson Plutonic complex.

Bedding strikes NE-Sw with moderate to steep dips to SE, Paleocene sediments and Eocene volcanics are unconformably capping the older units.

Mineralized rocks carry copper, gold, silver, lead and zinc mineralization.

HISTORY OF EXPLORATION AND WORK DONE

The mineral exploration of the area of Kero property was described and results of the past exploration recorded in the Annual Reports of the Ministry of Mines (B.C.) for 1899-1904, 1906, 1908 and 1928. Most of the existing underground workings and surface development was done before 1908. Complex mineralization composed mainly of pyrite and chalcopyrite, gold, silver, lead and zinc occurs in scarns and what appears epithermal quartz veins.

1964

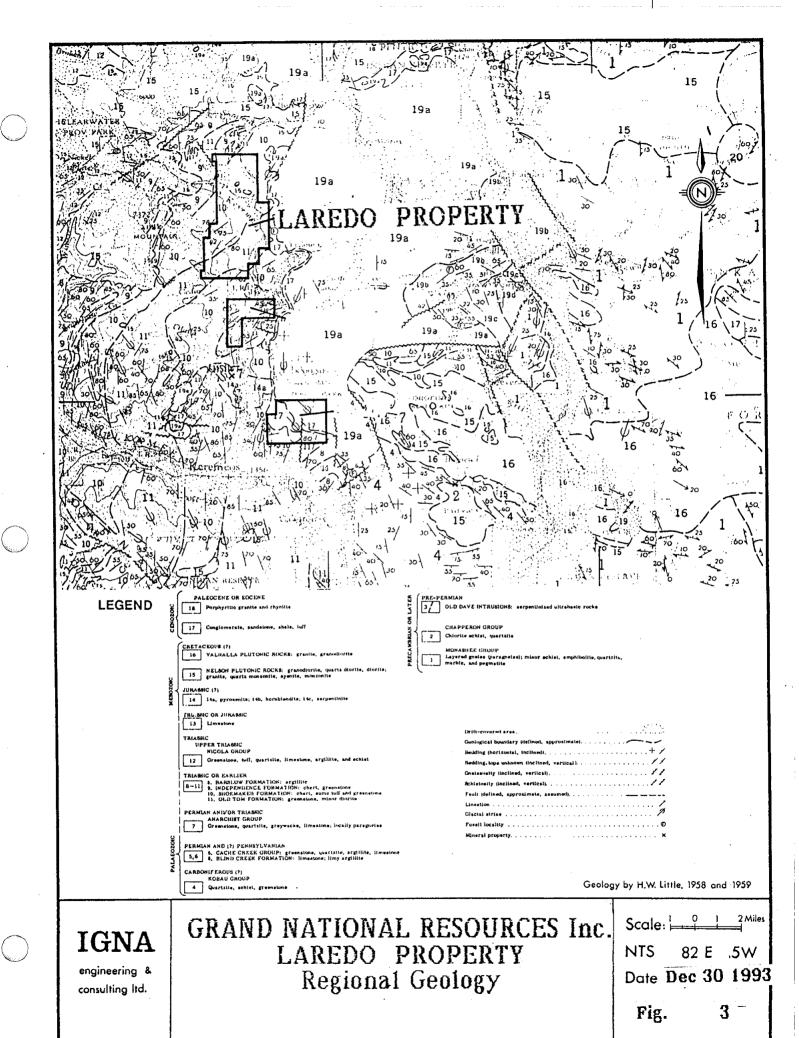
The Kero claims were staked in 1964 by M. Schram of Olalla some trenching on the vein structure was done.

1983

Grand National Resources Inc. became the owner of the Kero-Laredo-Puma claims.

1984

Work done in May and June 1984 (Kregosky, R., July 10, 1984) on the portion of Puma 3 and 4 claims consisted of geophysical VLF-EM and geochem soil survey and geological regional mapping. VLF-EM survey mapped strong NE-SW trending conductors coincident with lower positioned (slope effect) geochem, soil anomaly. Both anomalies are about 500 to 600 m , strong linear features open on both ends and very strong in the northern exploration area showing possibility of a close proximity of the mineralization to the surface.



To Accompany Report by I. Borovic P. Eng.

1985

Geological and Geochemical Investigations

The exploration on the Puma claims extended the existing geophysical and geochemical anomalies as outlined during the 1984 surveys. Additional information to aid in the interpretation of those anomalies was also obtained.

A comparison of the geochemical and the geological map indicates the close interrelationship between the diorite intrusion and gold trace elements in the soils. The gold geochemical values effectively trace out the observed outcropping of the diorite. This is, in part, substantiated by the lithogeochemical samples which indicate anomalous values are usually associated with the diorite. One anomalous sample was obtained from the quartzites which were in contact with the diorite. Another sample was obtained from the amygdaloidal basalts.

Soil survey delineated bifurcating geochemical anomaly with an apparent, discontinuous length of 1050 meters with a maximum width of 250 meters.

ULF-EM Survey

The VLF-EM survey has indicated a continuation to the anomaly outlined during the 1984 survey. This northerly trending westerly dipping anomaly has decreased considerably in magnitude except at L9+00N 1+25W which exhibits the strongest inflections. The prescence of a stuctural off-set of fault located at L5+00N 1+75W is supported by the VLF-EM data as well as the geological data which indicate a change in the bedding attitudes across this zone.

This extended VLF-EM anomaly has a length of 1400 meters. In addition, another secondary sub-parallel conductor has been located which extends from L7+00N 0+25E to L10+00N 1+25E for a length of 350 meters. These anomalies are open to the north with the main Puma anomaly also being open in a southerly direction.

Geochemical Soil Survey

A number of correlative anomalous zones were mapped by 1989 soil survey.

A large zone of anomalous coincidental copper, gold, arsenic, silver, zinc and lead values in the north and south grids was located and should be further explored by additional soil sampling to the north and east.

The reason for high spotty coincidental anomalies should be also found. In writer's opinion they are reflection of mineralized showings in the area.

The anomalies should be further investigated for possible disseminated sulfides by IP methods. Very high spotty anomalies should be examined for mineral showings.

1989

VLF-EM Survey

The survey successfully mapped possible expressions of the vein type mineralization and trenching is recommended for further examination of these areas.

The continuation of the geochemical survey supplemented by appropriate geophysical and physical methods of mineral exploration was strongly recommended.

1990

Geochemical Soil Survey

The soil survey was done in the northern and southern parts of the Puma 5 and 6 claims.

Two grids, composed of a total of 13.0 km/lines are extended from the old grid in the westerly direction for 500 to 1000 m. Lines are spaced at 100 m intervals and stations were marked at 25 m on the line.

Results

A number of significant copper, silver and zinc anomalies was mapped. Zinc anomalies located in the southern part show northerly trend.

VLF-EM Survey

The survey indicated three weak northeast trending crossovers. The anomalies are of the similar strength and probably reflection of either: mineralized veins or water filled open fractures and should be examined for possible mineralization.

1991

An exploration grid of just over 10.0 km/lines was established in continuo to the south end of the Puma Grid. Geochemical soil and geophysical VLF-EM surveys were done.

Results:

Geochemical soil survey

Significant copper, zinc (with some gold) anomalies were mapped. A northwest trending anomalous copper-zinc values should be further explored by additional soil sampling to the south.

VLF-EM Survey

The survey mapped two conductors. They could not be correlated with soil anomalies. The conductors should be trenched for possible mineralization.

WORK DONE 1993

Survey control

An exploration grid of over 12 km ($12\ 275 \text{ m/lines}$) was flagged in continuo of the 1990/91 Puma grid. It is located over the southeastern part of the Puma 3 claim (as shown on all survey maps).

Geochemical soil survey (Fig.s 4 to 8)

Sampling method

Samples were taken from the "B" horizon which is about 10 to 18 cm below surface. The soil material was collected with a spoon; cleaned of larger size particles and put in the standard soil sample envelope which was marked with coordinate location. Total of 260 samples was collected and assayed.

Analytical methods

Soil samples were dried, pulverized, screened to -80 mesh and subsequent analyses were done by Acme Analytical Laboratories Ltd. of Vancouver, B.C. ICP for 30 element were done on .500 g samples. (for details see Appendix: Geochem Analyses Certificate)

Discussion of Results

The results of the geochemical survey are presented in Figures No.4 to 7 of this report. These are contour maps, scale 1:5 000 showing copper, lead, zinc and silver content in parts per million (ppm).

Copper (Fig. 4)

Copper dispersion with background of less than 100 ppm is very high for the area. Anomalous values start at 100 ppm and values of 200 ppm and up are considered significantly anomalous. One significant anomaly is located on L12S St 750E and runs to L9S St 750E. The general trend appears to be north.

Lead (Fig. 5)

Assayed values of lead are very low. Values above 20 ppm are considered anomalous. One anomalous area is located on L1S to L3S Sts 800E to 1000E.

Zinc (Fig. 6)

Anomalous values start at 100 ppm and values of 200 ppm and over are considered significantly anomalous. Significant anomaly is located from L11S St 700E to L3S St 900E and in its southern part is coincidental with copper anomalous area.

Silver (Fig. 7)

Silver values are generally low in this area of the survey Anomalous values better than 1.00 ppm are located on lines 25 and 35 Sts 800 to 1000E.

Geophysical VLF-EM survey (Fig. 8)

The instrument used was a SABRE VLF-EM model 27 receiver. It was tuned to the Seattle, Washington transmitter station which operates at a frequency of 24.8 kHz.

Results

The VLF-EM survey has mapped a number of strong crossovers located on Lines 8S, 9S, 10S, 11S, 12S, 13S, 14S and 15S. The crossovers are runing north northwest.

CONCLUSIONS AND RECOMMENDATIONS

Soil Survey

The continuation of the geochemical survey supplemented by appropriate geophysical and physical methods of mineral exploration is recommended.

Estimated Budget

An estimated budget of \$ 60 000.00 is necessary to carry out small exploration program composed of geophysical IP survey, trenching, sampling and assaying and related geological work.

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STATEMENT OF EXPENSES

The following is a breakdown of expenses incurred in carrying out the exploration work in the area of the PUMA claims during the month of December (Dec 3 to 14) 1993. Work was done on Puma 3 claim and is applied on Puma 3, 4, 5 and 6 mineral claims with tenure numbers: 246484, 246490, 246526 and 247149.

Personnel:

I. Borovic, P. Eng. consultant and manager L. M. Schram Field Supervisor Dennis Wager VLF-EM operator Gerard Gaalissant Field Assistant

Field and Office Work

| Field Supervisor 6 days @ \$ 200/day\$ 1 | 200.00 |
|---|--------|
| VLF-EM operator 11 days @ \$ 150/day\$ 1 | 650.00 |
| Assistant, 11 days @ \$ 100/day\$ 1 | 100.00 |
| Truck 4/4 rental and expenes (two 4x4)17 days\$ 1 | 700.00 |
| Room and Board 28 man/days @ \$ 70/day\$ 1 | 960.00 |
| VLF rental\$ | 825.00 |
| Freight and supplies\$ | 200.00 |
| Assaying (Acme Analytical Labs Ltd)\$ 2 | 675 00 |
| Cosultant-manager 6 days @ \$ 450/day (supervision, | |
| report, draughting and repro)\$ 2 | 700.00 |

| TOTAL FIELD AND OFFICE WORK PAC Withdrawal | \$14 | 010.00 990.00 |
|--|----------|------------------|
| | \$15 | 000.00 |

H

CERTIFICATE

- I, I. Borovic, of the city of Vancouver, B. C., do hereby certify that:
- 1. I have supervised the exploration program carried out in the area of PUMA claims Laredo (KERO) project of Grand National Resources Inc. located 23 km northwest of Ollala, B.C.
- 2 The expenditures claimed for the performance of the work are correct.

Respectfully submitted

T. Borovic P. Fog

Vancouver, Jan 04, 1994.

APPENDIX

) 253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Grand National Resources Inc. PROJECT PUMA File # 93-3598 905 + 626 W. Pender St., Vancouver BC V6B 1V9 Submitted by: L.M. Schram

Page 1

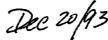


| | | | | | | | | | | | | | | | OB 14 | | | ieu D | | | | | | | | | | | | |
|----------------------------|-----|------------|----------|------------|----------|-----------|------------|------------------------------------|------------------|-----------|---------------|------------|---------|----------|------------|----------|----------|----------|-------------|-------|----------|----------|--------------|------------|------------|------|------|------------|------------|-----------|
| SAMPLE# | Мо | Cu | Pb | Zn | | Ni | | Mn | Fe | | U | Au | Th | Sr | Cd | Sb | Bi | V | | P | | Cr | Mg | Ba | Ti | _ | ΑL | Na | K | W |
| | ppm | ppm | ppm | bbus | ppm | ppm | ppm | ppm | - 7 - | ppm | bbw | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | 76 | ppm | ppm | - % | ppm | | ррп | %_ | % | - 76 | ppm |
| L1+00S 300E L1+00S 350E | 2 | 99 89 | 7 8 | 114 122 | .3 .3 | 52 53 | | 831 : 911 : | | 19 16 | <5 <5 | <2 <2 | 3 3 | 37 43 | .6 1.4 | 4 5 | <2 <2 | | .68 .75 | | 14 14 | 51 53 | .77 .76 | 412 585 | .16 .16 | | | .04 .05 | .56 .62 | 1 <1 |
| L1+00S 400E | 2 | 106 | 8 | 214 | .2 | 52 | 23 | 903 | 4.24 | 20 | <5 | <2 | 2 | 54 | 2.7 | <2 | <2 | 66 | .85 | .151 | 15 | | .83 | 560 | .15 | 7 1 | .91 | | .70 | <1 |
| L1+00S 450E L1+00S 500E | 2 | 96 299 | 7 | | .5 | 56 | | 715 | | 21 | <5 <5 | <2 <2 | 4 | 110 | .8 | <2 | <2 | | 2.37 | | 16 | | 1.08 | | .16 | 13 2 | | | .88 | <1 |
| F1+002 200E | 4 | 299 | 20 | 226 | 1.4 | 104 | 47 | 2750 | 7.33 | 229 | <>> | ₹2 | 4 | 28 | 1.0 | <2 | <2 | 97 | .54 | . 110 | 39 | 12 | 1.23 | 049 | . 14 | 6 3 | .01 | .03 ′ | 1.00 | <1 |
| L1+00S 550E | | 230 | | 177 | | 77 | | 1362 | | | <5 | <2 | 3 | 28 | .3 | <2 | <2 | 91 | | | 28 | | 1.22 | | . 15 | | | .02 | .87 | <1 |
| L1+00S 600E | | 168 | | 141 | .7 | 65 | | 1081 | | 98 | <5 | <2 | 4 | 28 | .5 | <2 | <2 | | .35 | | 26 | | 1.22 | | .18 | | | .02 | | <1 |
| L1+00S 650E L1+00S 700E | | 140 164 | 17 16 | 204 146 | .5 | 67 97 | | 1864 ! 1908 (| | 73 129 | <5 <5 | <2 <2 | 3 3 | 34 45 | .6 4.2 | 2 <2 | <2 <2 | 69 86 | .40 1.30 | | 22 30 | | .99 1.38 | | .15 | | | .03 | .72 | <1 <1 |
| L1+003 750E | | 182 | 14 | 166 | | 100 | | 2172 | | | <5 | <2 | 5 | 40 | .7 | <2 | <2 | | .60 | | 35 | | 1.29 | | .18 | | | .02 | | <1 |
| | _ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L1+00S 800E | | 240 197 | 29 23 | 191 152 | .8 .6 | 96 65 | | 4857 | | | <5 <5 | <2 <2 | 6 5 | 45 45 | .3 <.2 | 2 <2 | <2 <2 | 71 58 | | | 38 33 | | .77 .76 | | .11 | <2 1 | | .03 | | <1 <1 |
| L1+00S 850E L1+00S 900E | | 205 | | 114 | 1.0 | 60 | | 3598 † 1381 † | | | <5 | <2 | 6 | 45 | <.2 | 4 | <2 <2 | | .61 .80 | | 26 | | .40 | | .10 | | | .02 | .72 .45 | <1 |
| L1+00S 950E | | 346 | 12 | 183 | | 107 | | 3117 | | | <5 | <2 | 2 | 89 | .8 | <2 | | 150 | | | 33 | | | 1169 | | | | | .95 | |
| L1+00S 1000E | 2 | 156 | 22 | 143 | .7 | 80 | 29 | 1968 ! | 5.62 | 82 | <5 | <2 | 4 | 35 | .4 | <2 | <2 | 89 | .79 | .075 | 31 | 81 | .84 | 461 | .08 | 6 2 | .00 | .01 | .75 | <1 |
| RE L1+00S 1000E | , | 161 | 18 | 143 | .7 | 77 | 28 | 1975 ! | 5 60 | 80 | <5 | <2 | 4 | 35 | .7 | <2 | <2 | 80 | .78 | 075 | 31 | 79 | 23 | 466 | .08 | 6.2 | .00 | .01 | 78 | <1 |
| L2+00S 300E | 1 | 103 | | 170 | .6 | 47 | | 1125 | | 21 | < 5 | <2 | 2 | | 1.5 | <2 <2 | <2 | | 1.04 | | 13 | 49 | | 576 | .14 | 10 1 | | | .66 | <1 |
| L2+00\$ 350E | _ | 103 | | 149 | .3 | 53 | | 1260 | | 15 | <5 | <2 | 2 | | 1.3 | <2 | <2 | 61 | .73 | .073 | 14 | | .79 | | .16 | | | .05 | | <1 |
| L2+00S 400E L2+00S 450E | 2 | 53 41 | 7 4 | 168 157 | .1 | 33 29 | | 900 3 502 3 | | 7 6 | <5 <5 | <2 <2 | 2 | 42 40 | 1.1 | <2 <2 | <2 <2 | | .58 .54 | | 12 10 | 45 43 | .67 | | .14 | | | .04 .05 | .69 .62 | <1 |
| 127005 4505 | • | 41 | 4 | 157 | ٠. | 29 | 10 | 302 / | 2.19 | 0 | 45 | \ 2 | | 40 | 1.1 | ~2 | ٧2 | 40 | .94 | .039 | 10 | 43 | ره. | 032 | . 10 | ויכ | .93 | .05 | .02 | <1 |
| L2+00S 500E ` | 1 | 72 | 28 | 84 | .3 | 36 | | 245 | | 4 | 5 | <2 | <2 | | 1.3 | <2 | | | 1.05 | | 10 | | .65 | | .14 | | | .04 | | <1 |
| L2+00\$ 550E | 1 | 65 | 11 | 227 | .4 | 46 | | 638 | | 12 | <5 -E | <2 | 2 | | 1.5 | <2 | <2 | | 1.52 | | 12 | | 1.31 | | .13 | 10 2 | | .03 | | 1 |
| L2+00S 600E L2+00S 650E | | 183 185 | 15 | 154 154 | .6 .3 | 84 96 | | 2352 (2141 (| | 95 116 | <5 <5 | <2 <2 | 5 4 | 42 47 | 1.3 | <2 <2 | <2 <2 | | .67 .97 | | 33 33 | | 1.29 1.38 | | .17 | 3 2 | | .03 1 | | <1 <1 |
| L2+00\$ 700E | | 156 | 19 | 291 | .7 | 70 | | 4470 | | 61 | <5 | <2 | <2 | 107 | | 2 | <2 | | 2.85 | | 24 | | 1.03 | | .09 | 17 1 | | .03 | | <1 |
| | | | | | _ | 4- | _ | | | | _ | _ | | 4.0 | | _ | _ | | 40 | | 40 | | | | | _ | | | | |
| L2+00S 750E L2+00S 800E | 1 | 55 113 | 10 17 | 57 108 | .2 .5 | 15 27 | | 811 7 1849 7 | | 28 34 | <5 <5 | <2 <2 | 2 <2 | 10 71 | .2 1.0 | <2 3 | <2 <2 | | .12 2.32 | | 12 12 | | .18 .48 | | .03 | 16 | | .02 | .23 | <1 <1 |
| L2+00S 850E | | 220 | 35 | 189 | 1.0 | 53 | | 2561 | | 96 | <5 | <2 | 4 | | 1.1 | 8 | <2 | | .77 | | 30 | | .74 | | .11 | | | | .49 | |
| L2+00S 900E | | 233 | | 251 | 1.3 | 66 | | 1791 | | 157 | <5 | <2 | 4 | 66 | 2.5 | 2 | | | .61 | | | | 1.47 | | .22 | | | | .85 | |
| L2+00\$ 950E | 2 | 206 | 16 | 154 | .6 | 58 | 22 | 1465 | 5.70 | 92 | <5 | <2 | 3 | 61 | 1.2 | <2 | <2 | 100 | .62 | .057 | 27 | 53 | 1.34 | 651 | .21 | 3 3 | .00 | .04 1 | 1.06 | <1 |
| L2+00S 1000E | 1 | 232 | 24 | 266 | 1.5 | 68 | 47 | 2910. 6 | 5.44 | 955 | <5 | <2 | 2 | 115 | 2.7 | <2 | <2 | 127 | 1.09 | .064 | 15 | 43 | 1.92 | 655 | .21 | 2.3 | ,70 | .05 | .70 | <1 |
| L3+00S 800E | -/1 | 178 | 13 | 333 | 1.0 | 80 | 35 | 3332 | 5.13 | 630 | <5 | <2 | 3 | 113 | 2.4 | <2 | <2 | 66 | 1.99 | .240 | 34 | 52 | 1.12 | 1148 | .11 | 11 2 | .54 | .03 | .78 | <1 |
| L3+00S 850E | | 365 | | 225 | 2.0 | 88 | | | | 177* | | <2 | 4 | | 1.6 | <2 | <2 | | 1.70 | | 70 | | | 577 | | 13 2 | | .02 1 | | <1 |
| L3+00S 900E L3+00S 950E | | 244 281 | 22 54 | | 1.0 | 85 120 | | 3081 : 2112 <i>(</i> | | | <5 <5 | <2 <2 | 4 | | 3.0 1.5 | <2 6 | <2 <2 | 112 | .64 .68 | | 47 56 | | 1.66 | 792 745 | .17 | <23 | | .03 1 | 1.13 | <1 <1 |
| F34009 A30E | 4 | 201 | 74 | 101 | 1.3 | 120 | 5 0 | £116 (| J.J4 | J41 " | 43 | ~2 | 4 | 24 | 1.3 | 0 | 72 | 70 | .00 | .000 | 90 | 91 | 1.47 | 143 | . 13 | 4 3 | . 12 | .03 | 1.07 | \1 |
| STANDARD C | 17 | 64 | 38 | 122 | 6.9 | 69 | 29 | 1038 3 | 3.91 | 42 | 15 | 7 | 34 | 55 | 17.9 | 13 | 21 | 56 | .49 | .077 | 38 | 57 | .89 | 197 | .09 | 33 1 | .89 | .09 | .17 | 11 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL.

- SAMPLE TYPE: SOIL Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: DEC 16 1993 DATE REPORT MAILED:



A.D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS



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| ACHE ANALYTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | ACH | E AMALYTICAL |
|---|-----------------------|---------------------------------|----------------------------|---------------------------------|------------------------|---------------------------------|----------------|--|----------------------|--------------------------------|----------------------------|----------------------------|---------------------------|----------------------------|---------------------------------|----------------------------|----------------------------|-----------------------------|--------------------------------------|------------------------------|----------------------------|----------------------------|--------------------------------------|---------------------------------|--------------------------|-------------------|--------------------------------------|--------------------------|--------------------------|----------------------------|
| SAMPLE# | Mo ppm | Cu ppm | Pb ppm | Zn ppm | | Ni ppm | Co | | Fe % | As ppm | D D | Au ppm | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V | Ca % | P % | La ppm | Cr ppm | Mg % | Ba ppm | Ti % | ppm B | Al % | Na % | K % | ppm P |
| L3+00S 1000E L4+00S 800E L4+00S 850E L4+00S 900E L4+00S 950E | 3 3 3 | 171 157 153 252 133 | 20 11 10 14 14 | 164 192 192 314 175 | .2 .4 .4 .6 | | 36 36 38 | 2409 1617 1536 5774 1706 | 5.90 6.19 5.34 | 146 138 118 93 195 | <5 <5 <5 <5 <5 | \$\$ \$\$ \$\$ | 2 5 5 3 4 | 57 65 55 78 53 | .6 1.3 1.4 2.5 | 4 4 4 <2 5 | <2 <2 <2 <2 <2 | 97 99 | 1.00 | .120 .124 | 28 30 30 37 27 | 90 94 50 | 1.11 1.33 1.48 .89 1.41 | 791 734 1098 | .15 .12 .12 .11 | 6 2 4 2 4 2 | 2.44 | .02 .01 .01 .02 | .94 .89 .64 | 1 <1 <1 <1 <1 |
| L4+00S 1000E L5+00S 800E L5+00S 850E L5+00S 900E L5+00S 950E | | 156 145 154 170 155 | 15 17 18 19 | 223 274 241 233 259 | .2 .2 .5 | 123 107 113 118 116 | 37 39 45 | 1373 (2401 (1963 (2308 (2635 (| 6.42 6.15 6.81 | 132 85 84 132 94 | <5 <5 <5 <5 | \$ \$ \$ \$ \$ \$ \$ | 3 <2 <2 <2 <2 | 44 59 51 62 63 | .8 1.2 1.3 1.1 | 3 4 4 4 5 | <2 <2 <2 <2 <2 | | .95 | .112 | 30 28 29 30 29 | 90 91 85 | 1.83 1.49 1.55 1.65 1.67 | 639 858 762 751 891 | .16 .12 .12 .12 | 6 2 6 2 | .58 .42 .57 | .02 .01 .01 .01 | .98 .90 1.00 | <1 <1 <1 <1 <1 |
| L5+00S 1000E L6+00S 800E L6+00S 850E L6+00S 900E L6+00S 950E | 7 | 148 135 141 168 172 | 12 14 14 32 13 | 328 401 422 383 374 | .3 .3 | 155 136 143 159 165 | 34 36 37 | 2037 (1655 (1798) 1642 (1682 (| 6.03 5.84 6.18 | 67 61 68 78 87 | <5 <5 <5 <5 | <2 <2 <2 <2 <2 | 2 <2 2 <2 | 85 79 89 87 86 | 1.8 2.1 2.2 1.8 1.8 | 3 5 5 3 4 | <2 2 | 136 148 | 1.02 1.23 | .133 .167 .161 | 25 24 25 | 127 121 127 | 1.84 1.59 1.60 1.62 1.74 | 1354 1256 1246 | .11 .10 .09 .09 | 4 2 8 2 7 2 | 2.63 2.58 2.42 2.64 2.68 | .01 .02 .01 .02 | .92 .98 1.01 | <1 <1 <1 <1 <1 |
| L6+00S 1000E L7+00S 800E L7+00S 850E L7+00S 900E L7+00S 950E | 5 | 196 120 175 187 184 | 12 | 372 385 394 376 356 | | 169 125 165 160 168 | 28 40 39 | 1575 (1599) 1659 (1810 (1730) | 5.18 6.01 6.22 | 87 51 55 80 81 | 5 5 5 5 5 5 | <2 <2 <2 <2 <2 | 3 2 2 3 3 | 93 78 95 93 80 | 2.2 2.4 2.3 2.2 2.2 | 7 3 5 5 3 | <2 <2 <2 <2 <2 | 138 156 155 | 1.18 1.14 1.55 1.21 1.12 | .107 .157 .162 | 21 25 27 | 126 135 135 | 1.87 1.65 1.83 1.74 2.18 | 1363 1385 1486 | .11 .11 .10 .11 | 6 2 5 2 7 2 | | .02 .02 .02 .02 | .87 1.05 1.10 | 1 <1 <1 <1 <1 |
| L7+00S 1000E L8+00S 350W L8+00S 300W L8+00S 250W RE L8+00S 250W | 10 1 1 1 | 203 158 29 38 37 | 10 4 7 10 7 | 325 151 107 78 74 | .6 .1 .1 .1 | 174 53 36 37 37 | 21 12 12 | 1665 6 807 6 608 3 702 6 676 3 | 4.41 2.75 2.76 | 92 13 5 10 7 | <5 <5 <5 <5 | <2 <2 <2 <2 <2 | 2 <2 3 <2 <2 | 77 39 32 47 45 | 1.9 .8 .7 .8 | 3 2 2 2 2 2 | <2 <2 <2 <2 <2 | 171 82 50 55 53 | .47 .84 | .165 .049 .068 .048 | 31 9 8 8 8 | | 1.88 1.15 .41 .48 .42 | | .10 .19 .14 .13 | 5 2 5 1 4 1 | 2.88 2.69 1.62 1.53 1.47 | .01 .02 .03 .02 | .96 .51 | <1 <1 <1 <1 <1 |
| L8+00S 200W L8+00S 150W L8+00S 100W L8+00S 50W L8+00S 00 | 2 3 1 1 5 | 68 85 60 54 99 | 2 6 4 8 5 | 106 98 77 104 95 | .1 <.1 .1 .1 | 51 54 38 46 141 | 22 13 19 | 509 3 991 4 298 3 681 3 933 3 | 4.53 3.51 3.53 | 13 8 32 17 14 | <5 <5 <5 <5 | <2 <2 <2 <2 <2 | 2 <2 <2 <2 <2 | 31 51 38 56 41 | .7 .8 .4 .8 | <2 2 2 4 <2 | <2 <2 <2 <2 <2 | 54 62 58 55 75 | | .043 | 8 11 6 6 5 | 31 31 27 30 64 | .37 .35 .40 .40 | 246 745 195 248 237 | .15 .11 .11 .13 | 3 2 3 2 3 2 | | .03 .02 .02 .02 | .27 .17 .24 .26 | <1 <1 <1 <1 1 |
| L8+00S 50E L8+00S 100E L8+00S 150E L8+00S 200E L8+00S 250E | 1 1 1 2 1 | 85 77 45 57 41 | 9 12 5 10 7 | 203 144 134 111 85 | <.1 .2 .1 <.1 | 47 40 53 44 42 | 18 20 17 | 3499 4 1844 3 795 3 2454 3 1290 2 | 3.82 3.60 3.60 | 37 22 9 20 17 | <5 <5 <5 <5 <5 | <2 <2 <2 <2 <2 | <2 <3 <3 <4 | 68 70 42 43 50 | 2.6 .9 .6 .8 | <2 <2 2 2 2 | 2 <2 <2 <2 <2 | 54 52 62 62 46 | 1.10 .81 .50 .44 .70 | .072 .032 .056 | 6 7 7 10 8 | 30 32 70 42 33 | .41 .42 .86 .73 | 423 832 368 645 536 | .12 .13 .18 .13 | 5 2 4 2 | .55 .71 .63 | .03 .04 | .17 .24 .62 .43 | <1 1 <1 <1 <1 |
| STANDARD C | 18 | 59 | 38 | 124 | 6.8 | 65 | 32 | 1067 3 | 3.96 | 41 | 15 | 8 | 37 | 57 | 16.5 | 14 | 20 | 56 | .51 | .078 | 40 | 57 | .87 | 198 | .08 | 34 1 | .89 | .06 | .14 | 11 |



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| ACHE ANALYTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | ACRI | E ANALYTICAL |
|--|-----------------------|--------------------------------|--------------------------|---------------------------------|-------------------------------|--------------------------------|----------------|--|----------------------|-----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|---------------------------------|----------------------------|----------------------------|-----------------------------|-------------------------------------|--------------------------------------|----------------------------|-----------------------------|-------------------------------------|----------------------------------|---------------------------------|------------------------------------|-------------------|--------------------------|---------------------------------|---------------------------|
| SAMPLE# | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co | Mn ppm | Fe % | As ppm | D D | Au ppm | Th ppm | Sr ppm | Cd ppm | Sb | 8i ppm | V V | Ca % | P % | La ppm | Cr ppm | Mg % | Ba ppm | Ti % | ppm B | Al % | Na % | K % | W ppm |
| L8+00S 300E L8+00S 350E L8+00S 400E RE L8+00S 400E L8+00S 450E | 1 1 2 2 2 | 72 72 90 91 102 | 10 7 9 7 8 | 80 71 104 104 116 | <.1 <.1 <.1 <.1 | 46 24 51 54 46 | 13 28 28 | 1285 4 1237 4 1595 4 1610 4 1625 ! | 4.59 4.47 4.54 | 26 88 22 26 37 | <5 <5 <5 <5 | <2 <2 <2 <2 | 3 2 3 3 3 | 51 82 60 60 | .4 .3 .3 .8 | 3 3 2 3 3 | 4 5 2 2 <2 | 71 72 63 64 68 | .70 .51 .51 | .071 .060 .068 .068 .109 | 12 9 14 14 15 | 51 35 46 46 47 | .95 .91 .84 .85 | 987 779 635 651 778 | .18 .17 .16 .16 | 2 2 <2 2 2 2 5 2 7 2 | .43 .56 .58 | .02 .03 .02 .02 | .83 .71 .71 | 2 2 1 1 2 |
| L8+00S 500E L8+00S 550E L8+00S 600E L8+00S 650E L8+00S 700E | 2 2 3 3 3 | 103 114 77 74 92 | 10 2 11 6 9 | 94 136 114 74 90 | .1 <.1 <.1 .1 | 35 35 29 23 34 | 22 15 11 | 1302 ! 1962 ! 1283 4 1027 4 1264 : | 5.88 4.31 4.26 | 22 58 40 22 16 | <5 <5 <5 <5 | <2 <3 <3 <5 <5 <5 | 2 2 3 2 3 | 64 76 62 49 51 | .6 1.3 .7 .3 | 2 <2 2 2 2 | 2 4 4 3 2 | 78 99 60 60 | .56 .35 .33 | .074 .053 .049 .031 .057 | 13 13 14 10 20 | | 1.04 1.10 .68 .72 .93 | 565 399 426 261 321 | .17 .16 .13 .13 | 2 2 <2 2 <2 2 4 1 3 2 | .92 .15 .87 | .03 .02 .02 .03 | | 1 1 1 1 |
| L8+00S 750E L8+00S 800E L8+00S 850E L8+00S 900E L8+00S 950E | 2 4 5 4 5 | 170 93 121 144 163 | 6 11 8 14 12 | 370 324 314 363 356 | .4 | 94 101 118 132 137 | 22 27 28 | 3725 4 1400 4 1499 5 1631 5 1634 5 | 4.82 5.40 5.34 | 25 44 65 66 65 | <5 <5 <5 <5 | <2 <3 <5 <5 <5 <5 | 2 2 3 2 2 | 97 69 71 84 85 | 3.9 2.1 1.9 2.7 2.5 | 2 4 4 5 6 | <2 <2 <2 <2 <3 | 120 124 134 | 1.42 .97 1.07 1.10 1.14 | .114 .123 .130 | 16 17 22 20 21 | 102 107 106 | .72 1.30 1.41 1.29 1.32 | 1171 1194 1264 | .10 .10 .11 .09 | 5 2 7 2 7 2 | .52 .55 | .02 .01 .01 .01 | .42 .80 .95 .83 .92 | 1 <1 <1 <1 <1 |
| L8+00S 1000E L9+00S 350W L9+00S 300W L9+00S 250W L9+00S 200W | 6 1 1 1 2 | 192 77 55 66 65 | 14 7 13 7 6 | 341 124 98 134 152 | .6 .1 .1 .1 <.1 | 155 45 39 40 46 | 15 13 15 | 1533 5 785 3 736 3 989 3 534 3 | 3.91 3.15 3.67 | 81 15 17 13 163 | <5 <5 <5 <5 | <2 <2 <2 <2 <2 | 2 2 2 2 2 | 85 50 32 36 31 | 2.3 .3 .3 1.3 | 5 4 2 3 2 | <2 <2 5 2 3 | 149 72 56 58 58 | .58 .40 .42 | .147 .072 .055 .050 .062 | 22 13 11 12 9 | 120 50 39 39 27 | 1.44 .72 .60 .67 | 1300 541 549 498 214 | .10 .15 .15 .15 | 6 2 3 2 4 1 5 2 <2 2 | .09 .85 .42 | .01 .02 .02 .02 | .61 .50 .50 | <1 2 1 1 |
| L9+00S 150W L9+00S 100W L9+00S 50W L9+00S 00 L9+00S 50E | 5 1 1 2 2 | 99 33 39 84 52 | 8 8 13 5 13 | 77 104 90 128 75 | .2 <.1 <.1 .1 <.1 | 40 53 32 74 45 | 14 12 35 | 522 4 352 2 345 2 1472 4 499 3 | 2.82 2.88 4.27 | 15 17 45 15 18 | <5 <5 <5 <5 <5 | <2 <2 <2 <2 <2 | 2 2 <2 <2 3 | 48 27 34 67 25 | .8 .4 .3 .3 | 2 3 2 2 4 | <2 <2 3 <2 <2 | 61 47 44 54 66 | .38 .36 .84 | .048 .035 .039 .116 .024 | 10 6 5 9 | 30 25 19 41 42 | .42 .44 .41 .67 | 668 246 181 331 322 | .10 .13 .13 .17 | 3 2 2 1 3 2 2 2 2 2 | .85 .29 .37 | .01 .02 .03 .03 | | 1 1 1 2 1 |
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| STANDARD C | 17 | 62 | 43 | 128 | 6.7 | 65 | 30 | 1074 3 | 3.94 | 41 | 19 | 7 | 37 | 54 | 18.0 | 14 | 23 | 54 | .50 | .'077 | 38 | 50 | .90 | 194 | .09 | 33 1 | .88 | .06 | .14 | 11 |



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|--|------------------------|---------------------------------|--------------------------|---------------------------------|-----------------------|------------------------------|----------------------|--------------------------------------|---------------------------------------|----------------------------|----------------------------|----------------------------|-------------------------|--------------------------------|--------------------------------|---------------------------------|----------------------------|-----------------------------|------------------------------------|-------------------------|----------------------------|----------------------------|------------------------------------|----------------------------------|---------------------------------|---|-------------------|--------------------|----------------------------|--|
| SAMPLE# | Мо ррп | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | U ppm | Au ppm | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P % | La ppm | Cr ppm | Mg % | Ba ppm | Ti % | B A | | | ppm W | |
| L9+00S 600E L9+00S 650E L9+00S 700E L9+00S 750E L9+00S 800E | 5 2 6 2 2 | 107 85 432 217 63 | 3 7 <2 13 <2 | 117 278 487 507 222 | .3 .1 .3 .4 | 41 54 171 92 52 | 10 77 42 | 1375 7492 4295 | 5.61 4.71 7.20 4.89 3.70 | 141 18 25 29 8 | <5 <5 <5 <5 <5 | <2 <2 <2 <2 <2 | 4 3 2 2 <2 | 81 41 112 112 73 | .6 2.7 2.7 2.9 | 2 <2 <2 <2 <3 | <2 <2 <2 <2 <2 | 44 | .43 .51 1.50 1.47 | .364 .259 | 17 19 34 16 9 | 44 41 49 40 43 | .81 .71 | 403 435 1276 648 525 | .15 .12 .10 .10 | 3 3.36 8 2.97 3 2.60 7 2.15 4 1.96 | .03 | .80 .48 .46 | <1 <1 | |
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| L10+00S 300W L10+00S 250W L10+00S 200W L10+00S 150W L10+00S 100W | 1 16 1 3 1 | 74 166 42 86 33 | <2 3 <2 7 2 | 42 90 34 89 114 | <.1 .6 .2 .1 | 19 30 33 47 48 | 5 8 | 192 634 577 | 3.06 11.01 2.48 4.19 2.93 | 6 7 4 <2 5 | <5 <5 <5 <5 | <2 <2 <2 <2 | <2 3 2 2 <2 | 17 31 34 66 40 | <.2 .2 <.2 .4 .3 | 2 <2 <2 <2 <2 | <2 | 66 128 30 65 40 | .31 .11 .60 .45 | .127 .021 .048 | 6 12 6 9 4 | 29 54 20 39 20 | .53 .47 .32 .71 .34 | 221 465 304 301 200 | .10 .12 .09 .17 .13 | 3 1.55 <2 2.00 3 1.44 2 2.99 3 2.15 | .02 | .18 .19 | 1 <1 <1 <1 | |
| L10+00S 50W L10+00S 00 RE L10+00S 00 L10+00S 50E L10+00S 100E | 2 4 4 2 2 | 46 139 145 78 67 | 5 <2 6 <2 3 | 68 84 88 210 143 | .1 .3 .1 .2 | 30 45 46 75 53 | 24 24 26 | 1241 | 5.48 5.59 3.89 | 9 14 11 9 14 | <5 <5 <5 <5 | <2 <2 <2 <2 <2 | 2 2 2 2 2 | 35 46 46 44 45 | <.2 <.2 <.2 .6 .4 | <2 3 <2 <2 <2 <2 | <2 <2 <2 <2 <2 | 61 64 64 51 65 | .28 .43 .44 .48 | .098 .101 .104 | 5 7 6 8 10 | 38 42 43 40 59 | .62 .60 .62 .61 | 182 287 298 648 598 | .18 .17 .18 .16 | 2 2.67 3 2.74 <2 2.83 4 2.55 3 2.79 | .03 .03 | .20 .22 .30 | <1 1 1 <1 <1 | |
| L10+00S 150E L10+00S 200E L10+00S 250E L10+00S 300E L10+00S 350E | 1 3 1 2 2 | 59 170 49 50 71 | 6 11 5 7 6 | 142 149 136 107 323 | .2 .5 .2 .3 | 54 68 37 48 61 | 30 1 11 12 | 1856 | 5.88 3.06 3.11 | 9 19 7 8 10 | <5 <5 <5 <5 | <2 <2 <2 <2 <2 <2 | 2 2 2 2 2 | 53 43 50 33 80 | .5 .9 .8 .4 1.7 | <2 <2 <2 <2 <2 | <2 <2 <3 <4 | | .50 .61 .68 .35 | .146 .063 .052 | 10 12 10 9 11 | 51 61 33 32 32 | .65 .49 .49 | | .17 .13 .13 .14 | 3 3.00 3 2.10 4 2.04 4 2.18 5 1.91 | .03 .03 | .38 .44 .38 | <1 1 <1 <1 <1 | |
| L10+00S 400E L10+00S 450E L10+00S 500E L10+00S 550E L10+00S 600E | | 109 299 142 132 118 | 5 6 2 3 3 | 100 233 105 636 110 | .2 .9 .4 .5 | 52 91 60 109 59 | 36 20 23 | 73 57 | 5.06 4.86 | 5 15 17 7 12 | <5 <5 <5 <5 <5 | <2 <2 <2 <2 <2 | 3 <2 4 4 | 57 135 93 76 96 | .5 2.4 .6 5.5 | <2 <2 <2 <2 <2 | <2 <2 <2 <2 <2 | 71 44 66 59 72 | .57 2.79 .49 .97 | .154 .058 .109 | 16 18 21 25 22 | 34 66 46 | 1.22 .69 1.09 .80 1.25 | | .19 .08 .15 .12 | 2 3.05 8 1.55 3 2.67 10 2.39 4 3.22 | .03 .03 | .77 | <1 <1 <1 <1 | |
| L10+00S 650E L10+00S 700E L10+00S 750E L10+00S 800E L10+00S 850E | 3 3 3 | 130 123 176 200 130 | 14 4 7 | 110 311 189 334 167 | .5 .3 .3 .2 | 57 53 54 124 39 | 19 : 22 : 67 : | 1749 3292 2180 3789 2889 | 4.57 6.47 5.54 | 9 14 15 11 12 | <5 <5 <5 <5 | <2 <2 <2 <2 <2 | 4 3 3 2 3 | 90 109 117 123 108 | .5 1.9 .8 2.3 1.1 | <2 <2 <2 <2 <2 | <2 <2 <2 <2 <2 | 50 56 38 | .54 1.09 .87 1.28 1.20 | . 172 . 138 . 394 | 21 16 11 11 | 68 50 30 33 31 | 1.24 .80 .93 .71 .80 | 718 325 | .16 .11 .11 .07 | 3 3.21 7 1.97 3 2.32 5 2.18 5 1.72 | .03 .07 .04 | .71 | <1 <1 <1 <1 <1 | |
| STANDARD C | 17 | 61 | 37 | 123 | 6.7 | 69 | 28 | 1039 | 3.91 | 39 | 18 | 7 | 37 | 54 | 17.2 | 13 | 18 | 54 | .49 | .076 | 36 | 56 | .88 | 193 | .09 | 33 1.89 | .09 | .16 | 11 | |



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ACKE ANALYTICAL

| ACHE ANALYTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | CHE ANALYTICAL |
|---|------------------------|---------------------------------|-------------------------|---------------------------------|----------------------|------------------------------|----------------|--------------------------------------|----------------------|----------------------------|----------------------------|---|------------------------|------------------------------|-------------------------------|---|----------------------------|----------------------------|------------------------------------|--------------------------------------|----------------------------|----------------------------|------------------------------------|---------------------------------|---------------------------------|--|------------|---------------------------|----------------------|
| SAMPLE# | Mo ppm | Cu ppm | Pb ppm | Zn ppm | - | Ni ppm | | | Fe % | | U ppm | Au ppm | Th ppm | Sr ppm | Cd ppm | Sb | Bi ppm | V ppm | Ca % | P % | La ppm | Cr ppm | Mg % | Ba ppm | Ti % | B At | | | K ppm |
| L10+00S 900E L10+00S 950E L10+00S 1000E L11+00S 200W L11+00S 150W | 4 4 5 5 10 | 105 101 121 36 111 | 7 10 10 10 | 108 117 219 68 82 | .4 .5 .7 .2 | 27 33 65 22 59 | 10 17 9 | 1705 1818 1285 383 393 | 4.05 4.92 3.32 | 12 25 32 3 5 | <5 <5 <5 <5 <5 | \$\$ \$\$ \$\$ | 3 3 3 2 2 | 110 97 82 33 45 | .9 .6 1.6 .2 | <2 3 <2 <2 <2 | <2 <2 <2 <2 <2 | 48 49 93 63 61 | .78 .61 .25 | .085 .068 .085 .033 .053 | 10 12 16 5 6 | 36 38 79 22 31 | .77 1.06 .42 | 372 464 979 287 536 | .10 .10 .10 .10 | 7 1.83 7 1.83 5 2.16 4 1.59 3 1.61 | .03 | 3 .81 3 .91 2 .10 | 1 <1 1 1 0 <1 |
| L11+00S 100W L11+00S 50W L11+00S 00 L11+00S 50E RE L11+00S 50E | 2 3 3 2 2 | 60 103 162 105 102 | 8 11 11 11 | 38 101 158 187 185 | .2 .4 .2 .4 | 24 53 56 70 68 | 21 27 16 | 253 1137 2186 1470 1450 | 5.58 5.30 4.14 | 6 <2 5 5 4 | <5 <5 <5 <5 | <2 <2 <2 <2 <2 | 3 2 <2 2 2 | 33 84 126 69 68 | .2 .2 1.3 .5 | <>> <> <> <> <> <> <> <> | 2 2 <2 <2 <2 | 48 79 45 45 44 | .48 1.32 .62 | | 8 8 9 10 9 | 32 42 31 32 31 | .52 .71 .47 .40 | 156 266 537 776 769 | .16 .21 .11 .12 .12 | 3 1.60 4 3.21 5 1.75 5 2.09 5 2.09 | .03 | 3 .30 3 .31 4 .25 | 0 1 1 5 5 3 |
| L11+00S 100E L11+00S 150E L11+00S 200E L11+00S 250E L11+00S 300E | 2 2 3 2 2 | 70 53 158 73 72 | 12 8 9 8 12 | 102 69 101 101 91 | .4 .4 .3 .3 | 53 34 44 37 38 | 16 23 14 | 936 1027 1389 1461 1035 | 3.48 4.37 4.05 | 8 12 41 5 11 | <5 <5 <5 <5 | <2 <2 <2 <2 | 3 2 2 3 3 | 43 48 26 68 52 | .2 .2 .2 .7 | <2 <2 <2 <2 <2 | <2 <2 <2 <2 <2 | 70 59 62 61 61 | .47 .20 .51 | .037 .052 .131 .058 .055 | 11 10 11 12 13 | 51 46 48 51 44 | .72 .73 .62 .71 | 502 498 415 783 548 | .19 .18 .14 .18 .17 | 3 2.97 4 2.14 3 2.85 4 2.68 3 2.44 | .03 | 3 .71 3 .46 3 .72 | 1 1 5 <1 2 <1 |
| L11+00S 350E L11+00S 400E L11+00S 450E L11+00S 500E L11+00S 550E | 2 4 5 4 2 | 62 170 126 137 96 | 6 2 4 5 11 | 94 96 78 87 169 | .3 .6 .4 .5 | 30 56 51 67 50 | 24 19 23 | 1185 1188 1321 1545 3716 | 4.25 5.67 5.66 | 8 11 5 4 6 | <5 <5 <5 <5 <5 | <2 <2 <2 <2 <2 | 2 3 5 5 <2 | 57 124 87 106 64 | .2 .4 <.2 .3 1.6 | <2 <2 <2 <2 <2 | <2 <2 <2 <2 <2 | 55 72 87 81 40 | .39 .31 | .069 .087 | 10 20 28 24 13 | 95 85 | .68 1.05 1.55 1.57 .67 | 857 711 530 571 702 | .15 .15 .19 .19 | 5 2.37 2 2.57 2 3.06 4 3.21 5 1.34 | .0. .0. | 2 .56 3 1.23 2 1.33 | 6 <1 3 <1 3 <1 |
| L11+00S 600E L11+00S 650E L11+00S 700E L11+00S 750E L11+00S 800E | 19 5 5 | 145 214 343 207 183 | 4 3 10 5 13 | 149 259 382 321 284 | .2 .5 .9 .7 | 41 38 142 109 70 | 16 56 27 | 2145 1149 4278 3545 3313 | 8.09 6.22 5.66 | 9 <2 16 22 29 | <5 <5 9 <5 <5 | <2 <2 <3 <3 <4 | 2 4 7 4 4 | 137 54 56 74 81 | .6 .6 3.1 2.4 2.9 | <2 2 5 <2 <2 | <2 <2 <2 <2 | 71 | .84 .36 .77 1.18 1.10 | .094 .205 | 11 14 54 39 39 | | .93 1.30 .66 .63 .89 | 345 299 606 803 663 | .11 .17 .07 .07 | 5 2.15 7 2.43 10 2.73 12 1.95 9 2.20 | .03 | 6 .84 2 .34 3 .37 | 4 9 4 <1 7 <1 |
| L11+00S 850E L11+00S 900E L11+00S 950E L11+00S 1000E L12+00S 00 | 3 2 | 133 159 206 103 88 | 7 9 4 8 4 | | .5 .7 .6 .4 | 73 49 47 38 31 | 22 28 11 | 2496 2904 3212 1259 1204 | 3.75 4.14 4.51 | 11 31 21 28 10 | <5 <5 <5 <5 <5 | <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2 <2< | 3 2 2 3 2 | 73 56 67 102 62 | 2.0 1.4 2.5 .8 | <2 <2 <2 <2 | <2 <2 <2 <2 <2 | 51 52 | 1.20 1.12 1.08 .61 .60 | .102 .209 | 23 16 14 13 9 | 34 28 25 42 42 | .58 .58 .63 .78 | 601 775 668 527 971 | .09 .06 .06 .09 | 16 2.20 5 1.29 6 1.47 8 1.90 5 2.02 | .04 | 2 .46 4 .53 4 .77 | 6 <1 3 2 7 <1 |
| L12+00S 50E L12+00S 100E L12+00S 150E L12+00S 200E L12+00S 250E | 2 2 2 2 2 | 86 94 88 99 96 | 10 5 3 7 4 | 75 80 89 112 80 | .2 .3 .3 .4 | 30 36 43 51 41 | 17 19 18 | 1277 1067 1052 1404 1051 | 4.49 4.38 4.69 | 5 10 6 7 8 | <5 <5 <5 <5 <5 | <2 <2 <2 <2 | 2 3 3 2 3 | 69 67 57 69 | .4 .6 .5 .5 | <2 <2 <2 <2 | 4 <2 <2 <2 <2 | 69 74 75 73 74 | .50 .54 | .112 | 11 13 13 11 13 | 44 48 58 70 64 | | 504 542 705 | .17 .21 .22 .19 | 4 2.46 3 2.88 3 3.07 5 2.82 5 2.74 | .03 | 3 .74 3 .90 3 .93 | 4 1 0 <1 3 <1 |
| STANDARD C | 18 | 63 | 38 | 126 | 6.8 | 67 | 31 | 1021 | 3.94 | 42 | 22 | 8 | 35 | 56 | 19.1 | 15 | 21 | 59 | .51 | .079 | 39 | 59 | .90 | 197 | .09 | 34 1.89 | .09 |) .1 (| 6 10 |



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| ACHE ANALYTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | E AMALYTICAL |
|-----------------|-----|-----|-----|-----|----------|-----|-----|------|------|----------|---------------|----------|-----|----------|------|----------|---------------|-----|------|-------|-----|-----|------|-----|------|-------|----|-----|-----|--------------|
| SAMPLE# | Мо | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Ų | Au | Th | Sr | Cd | Sb | Вi | ٧ | Ca | Р | La | Сr | Mg | Ba | Τi | В | Αl | Na | K | W |
| | ppm | ppm | ppm | ppm | ppm | ррп | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ррп | ррп | ppm | % | % | ppm | ppm | ž | ppm | % | ppm | % | % | % | ppm |
| | | •• | •• | | | | | | | | | | | | | | | ., | | · | | | | | | | | | | |
| L12+00S 300E | 2 | 63 | 4 | 102 | .1 | 41 | 16 | 1273 | 3.70 | 24 | <5 | <2 | 2 | 57 | <.2 | <2 | <2 | 54 | .44 | .057 | 11 | 41 | .67 | 590 | .16 | 2 2. | 17 | .02 | .45 | <1 |
| L12+00S 350E | 2 | 52 | 9 | 75 | .1 | 42 | | 648 | | 14 | <5 | <2 | 2 | 49 | <.2 | <2 | <2 | 52 | .34 | | 12 | 38 | .67 | 492 | .16 | 3 2. | | .02 | .46 | <1 |
| L12+00S 400E | 2 | 121 | ź | 80 | <.1 | 49 | | 2200 | | 14 | < 5 | <2 | <2 | 107 | .5 | <2 | <2 | 40 | | .041 | 9 | 33 | .75 | 866 | .10 | <2 1. | | .01 | .55 | <1 |
| L12+00S 450E | 2 | 144 | 8 | 56 | .3 | 20 | | 782 | | 10 | <5 | <2 | <2 | 173 | <.2 | <2 | <2 | 74 | .71 | | 5 | | 1.12 | 212 | .15 | <2 3. | | .16 | .49 | <1 |
| | 4 | 151 | 4 | 91 | .2 | 60 | | | | 11 | <5 | <2 | 2 | 83 | .5 | <2 | <2 | | | | | | | | - | | | - | | |
| L12+00S 500E | 4 | 101 | 4 | 91 | .2 | ΘU | 20 | 2423 | 2.22 | 11 | <>> | <2 | 2 | 03 | . > | ~2 | < 2 | 42 | ./0 | .100 | 16 | 35 | .86 | 287 | .10 | 5 1. | 12 | .02 | .55 | <1 |
| 147.000 FF0F | _ | | • | 77 | | | | /00 | | _ | | | - | ., | | | | | | | | | | 704 | | -0.4 | 04 | 00 | | |
| L12+00S 550E | 5 | 73 | 8 | | .2 | 20 | | 400 | | | <5 | <2 | 3 | 44 | <.2 | <2 | <2 | 66 | | .046 | 14 | 37 | .81 | 326 | -11 | <2 1. | | | .59 | <1 |
| L12+00S 600E | 1 | 106 | 5 | 108 | ٠1 | 23 | | 891 | | 145 | <5 | <2 | <2 | 45 | .4 | <2 | 4 | 67 | | .057 | . 8 | | 1.06 | 671 | .13 | <2 2. | | .02 | .77 | <1 |
| L12+00S 650E | 4 | 149 | 3 | 105 | .2 | 40 | | 1041 | | 49 | <5 | <2 | 3 | 60 | <.2 | <2 | 2 | 70 | | .066 | 26 | 35 | .98 | 278 | .11 | 5 2. | | .03 | .84 | <1 |
| L12+00S 700E | 4 | 104 | 7 | | ٠2 | 43 | | 1460 | | 18 | <5 | <2 | 4 | 54 | .8 | <2 | <2 | 68 | | .040 | 20 | 37 | .83 | 543 | .11 | 3 2. | | .02 | .65 | <1 |
| L12+00S 750E | 6 | 206 | 11 | 184 | .5 | 87 | 28 | 2631 | 5.29 | 24 | <5 | <2 | 5 | 50 | .8 | <2 | <2 | 88 | .49 | .080 | 38 | 50 | .92 | 573 | .10 | 4 2. | 82 | .02 | .60 | <1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L12+00S 800E | 3 | 287 | 7 | 165 | .4 | 70 | 32 | 3139 | 5.52 | 19 | <5 | <2 | 3 | 37 | .8 | <2 | <2 | 76 | .71 | . 122 | 25 | 37 | .90 | 756 | .10 | <2 2. | 57 | .02 | .50 | <1 |
| L12+00S 850E | 2 | 131 | 4 | 109 | .3 | 42 | 10 | 1699 | 4.94 | 18 | <5 | <2 | 3 | 44 | <.2 | <2 | <2 | 81 | .48 | .045 | 16 | 41 | .91 | 477 | .13 | 4 2. | 85 | .03 | .57 | <1 |
| L12+00S 900E | 2 | 157 | 6 | 168 | .4 | 34 | 19 | 2817 | 3.65 | 17 | <5 | <2 | <2 | 88 | 2.6 | <2 | <2 | 45 | 1.44 | | 18 | 25 | .61 | 678 | .07 | 4 1. | 45 | .01 | .35 | <1 |
| L12+00S 950E | 2 | 264 | 5 | 310 | .4 | 92 | | 6334 | | 19 | <5 | <2 | 2 | 50 | 2.8 | <2 | 2 | | .92 | | 19 | 38 | .96 | | .11 | 6 2. | | .01 | .75 | <1 |
| L12+00S 1000E | 2 | 182 | 4 | 66 | .3 | 15 | | 1152 | | 10 | < 5 | <2 | <2 | 23 | .5 | <2 | <2 | 48 | | . 138 | 11 | 25 | .66 | 417 | .06 | 4 1. | | .02 | .54 | i |
| E12:003 1000E | _ | 102 | 7 | 00 | | ., | + 1 | 1176 | +.50 | 10 | ٠, | ``_ | ~_ | 2.3 | | ~_ | ٠. | 70 | .47 | . 130 | | رے | .00 | 411 | .00 | 4 1. | 20 | .02 | | • |
| L12+50S 400E | 2 | 50 | 7 | 105 | . 1 | 33 | 17 | 1282 | z 50 | 20 | <5 | <2 | <2 | 54 | .7 | <2 | <2 | 45 | .46 | 170 | 9 | 31 | .58 | 531 | .12 | 2 2. | na | .03 | .50 | <1 |
| | | | | | | | | | | | | | 3 | 83 | | | | | | | | | .73 | | | | | | | - |
| L12+50S 450E | 2 | 62 | 13 | 78 | <.1 | 33 | | 1093 | | 19 | <5 | <2 | _ | | <.2 | 2 | <2 | 54 | -38 | | 13 | 37 | | 503 | .15 | <2 2. | | .03 | .56 | <1 |
| RE L12+50S 450E | 2 | 60 | 10 | 76 | <.1 | 31 | | 1062 | | 16 | <5 | <2 | 3 | 82 | .8 | <2 | 2 | 53 | | .047 | 13 | 36 | .72 | 507 | .15 | <2 2. | | .03 | .55 | <1 |
| L12+50S 500E | 2 | 98 | 8 | 61 | .1 | 30 | 13 | 878 | | 24 | <5 | <2 | 3 | 90 | .4 | <2 | 3 | 65 | .30 | | 15 | 40 | .86 | 474 | .16 | <2 2. | | .03 | .78 | <1 |
| L12+50S 550E | 3 | 86 | 8 | 65 | .1 | 26 | 12 | 961 | 4.88 | 20 | <5 | <2 | 3 | 79 | <.2 | <2 | <2 | 60 | .33 | .051 | 15 | 37 | .80 | 505 | .14 | <2 2. | 07 | .03 | .81 | <1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L12+50S 600E | 4 | 90 | 3 | 72 | ٠1 | 24 | 9 | 951 | 4.76 | 20 | <5 | <2 | ``3 | 63 | .6 | 2 | 2 | 61 | | .044 | 14 | 32 | .80 | 520 | . 13 | 2 1. | | .02 | .75 | <1 |
| L12+50S 650E | 3 | 103 | 6 | 108 | .1 | 35 | 14 | 1449 | 4.97 | 58 | <5 | <2 | 3 | 65 | 1.0 | <2 | <2 | 68 | .36 | .071 | 18 | 35 | .79 | 592 | . 13 | 4 2. | | | .75 | <1 |
| L12+50S 700E | 3 | 112 | 8 | 148 | .2 | 49 | 16 | 2245 | 5.25 | 33 | <5 | <2 | 3 | 70 | .7 | <2 | <2 | 70 | .52 | .098 | 21 | 38 | .83 | 678 | .12 | 8 2. | 51 | .02 | .83 | <1 |
| L12+50S 750E | 3 | 104 | 11 | 118 | .2 | 36 | 11 | 1855 | 4.60 | 19 | <5 | <2 | 3 | 52 | .8 | <2 | 3 | 70 | .44 | .045 | 19 | 39 | .86 | 690 | .13 | <2 2. | 42 | .02 | .53 | <1 |
| L12+50S 800E | 2 | 133 | 12 | 117 | .2 | 56 | 16 | 2314 | 4.49 | 19 | <5 | <2 | 3 | 57 | .9 | <2 | <2 | 65 | .59 | | 23 | 36 | .78 | 644 | .11 | 3 2. | 24 | .02 | .58 | <1 |
| 1, | _ | | | | | | | | | | - | _ | _ | - | | _ | _ | | | | | | | | | | | | •• | , |
| L12+50S 850E | 2 | 116 | 13 | 149 | .2 | 48 | 14 | 2337 | 4.43 | 22 | <5 | <2 | 3 | 52 | .6 | <2 | <2 | 58 | .48 | .053 | 18 | 33 | .68 | 584 | .11 | 4 2. | 02 | .02 | .54 | 1 |
| L12+50S 900E | | 148 | 11 | 121 | .1 | 49 | | 1314 | | 23 | < 5 | <2 | 3 | 54 | .7 | <2 | 5 | 73 | | .059 | 21 | 40 | .74 | | .12 | 3 2. | | | .56 | <1 |
| L12+50S 950E | | 170 | 3 | 104 | .3 | 28 | | 2085 | | 10 | <5 | <2 <2 | 3 | 35 | .7 | <2 | <2 | 66 | .41 | | 17 | 35 | .96 | 638 | .10 | 2 2. | | .01 | .64 | <1 |
| L13+00S 00 | | 100 | 10 | 98 | | 37 | | 1445 | | | <5 | <2 | | 93 | | <2 | 5 | 64 | .81 | | 9 | 49 | .88 | 424 | .19 | 4 2. | | .02 | .73 | 1 |
| | | 134 | 11 | 108 | .2 .1 | | | 1703 | | 19 16 | <5 | <2 <2 | 2 | 95 95 | .7 | <2 <2 | | 72 | .94 | | - | | 1.02 | 400 | | | | .03 | | 1 |
| L13+00S 50E | 1 | 134 | 11 | 100 | . 1 | 79 | 32 | 1705 | .63 | 16 | <>> | <2 | 2 | 90 | .6 | <2 | <2 | 12 | .94 | .081 | 8 | 02 | 1.02 | 400 | .24 | <2 2. | 09 | .03 | .68 | 1 |
| 147,000 4005 | 1 | 100 | | 02 | 4 | E 7 | 24 | 17/0 | , ,, | 17 | -E | -2 | 3 | 93 | E | -22 | -27 | 41 | 77 | 040 | • | /7 | 0/ | 704 | 24 | 5 2. | 71 | 07 | E/ | 2 |
| L13+00S 100E | • | 100 | 8 | 92 | .1 | 53 | | 1368 | | 13 | <5 - | <2 | 2 | | .5 | <2 | <2 | 64 | .77 | | 9 | 47 | .84 | 396 | .21 | | | .03 | .54 | 2 |
| L13+00S 150E | 1 | 68 | 13 | 84 | .1 | 42 | | 1366 | | 19 | <5 | <2 | 2 | 67 | .7 | <2 | 3 | 55 | .70 | | 10 | 39 | .69 | 487 | -17 | 5 2. | | .02 | .58 | 2 |
| L13+00S 200E | ₹3 | 99 | 13 | 79 | <.1 | 55 | | 1236 | | 22 | <5 | <2 | 2 | 74 | .5 | <2 | 2 | 76 | .58 | | 10 | | 1.05 | 654 | .24 | 4 2. | | .03 | .89 | 1 |
| L13+00S 250E | 2 | 84 | 7 | 95 | .1 | 38 | | 1459 | | 9 | <5 | <2 | <2 | 70 | .8 | <2 | <2 | 48 | | . 103 | 9 | 41 | .65 | 593 | .14 | 2 2. | | | .45 | <1 |
| L13+00S 300E | 2 | 59 | 8 | 76 | <.1 | 39 | 12 | 1005 | 3.50 | 19 | <5 | <2 | 2 | 54 | .7 | <2 | <2 | 50 | ٠45 | .078 | 10 | 37 | .63 | 537 | . 15 | 5 2. | 03 | .02 | .48 | <1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STANDARD C | 17 | 64 | 36 | 129 | 6.7 | 65 | 30 | 1078 | 3.96 | 43 | 18 | 7 | 34 | 54 | 18.6 | 14 | 20 | 54 | .51 | .078 | 37 | 50 | .91 | 193 | .09 | 34 1. | 88 | .06 | .14 | 11 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



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TH AMALYTICAL

| SAMPLE# | Мо | Cu | Pb | Žn | Ag | Ni | Co | N- | E 4 | 80 | U | Au | Th | Sr | Cd | Sb | Bi | V | <u> </u> | P | | | W.a. | | T: | | A I | No | K | W |
|---|-----------------------|---------------------------------|----------------------------|---------------------------------|----------------------------|-----------------------------|----------------|--|----------------------|----------------------------|----------------------------|--|----------------------------|-----------------------------|------------------------------|----------------------------------|----------------------------------|----------------------------|-----------------------------------|----------------------|----------------------------|----------------------------|-----------------------------------|---------------------------------|--------------------------|-----------------------------------|----------------------|--------------------------|---------------------------------|----------------------------|
| SAPIT ELIF | ppm | ppm | ppm | ppm | ppm | ppm | ppm | Mn ppm | Fe % | As ppm | ppm | ppm | ppm | bbu 21. | ppm | ppm | ppm mqq | ppm | Ca % | ۲ % | La ppm | Cr ppm | Mg % | Ba ppm | Ti % | ppm ppm | Al % | Na % | % | ppm |
| L13+00S 350E L13+00S 400E L13+00S 450E L13+00S 500E L13+00S 550E | 2 2 2 | 52 53 51 71 59 | 13 12 9 7 14 | 105 88 74 86 115 | .3 .3 .3 .3 | 34 29 35 36 32 | 10 13 15 | 1236 913 1098 931 1209 | 3.13 3.46 3.90 | 13 9 10 16 17 | <5 <5 <5 <5 <5 | <2 <2 <2 <2 <2 <2 <2 | 2 2 2 2 2 2 | 56 54 54 49 66 | .9 .2 .4 .4 | <2 <2 <2 <2 <2 <4 | <2 <2 <2 <2 <2 <2 | 48 41 50 62 | .44 .40 .56 .50 | .049 | 10 9 11 12 10 | 39 31 39 46 37 | .59 .52 .61 .76 | 555 492 621 579 500 | .14 .13 .15 .17 | 3 1 4 1 5 2 3 1 9 1 | .99 .00 .85 | .03 .04 .03 .04 | .43 .41 .60 .74 | 1 <1 <1 <1 <1 |
| L13+00S 600E L13+00S 650E RE L13+00S 650E L13+00S 700E L13+00S 750E | 3 | 65 117 112 140 171 | 10 10 11 11 15 | 105 119 120 220 176 | .3 .4 .5 .6 | 24 40 43 61 51 | 18 18 24 | 1073 : 1483 : 1472 : 2827 : 2866 : | 4.51 4.44 5.17 | 10 60 62 19 14 | <5 <5 <5 <5 | <2 <2 <2 <2 <2 | <2 3 3 3 3 | 56 70 68 73 79 | .7 .8 .8 2.2 | <2 <2 <2 <2 | 2 <2 <2 <2 <2 | 45 70 69 94 63 | .77 .77 .79 | | 11 15 15 22 21 | 34 48 48 78 45 | .61 .90 .89 1.23 .84 | 545 593 574 724 725 | .11 .15 .15 .15 | 3 1 7 2 9 2 7 3 4 2 | .24 .19 .09 | .03 .03 .03 .02 | .58 .98 .90 1.15 | <1 <1 <1 <1 |
| L13+00S 800E L13+00S 850E L13+00S 900E L13+00S 950E L13+00S 1000E | 5 4 5 | 150 153 142 168 551 | 13 14 13 12 14 | 280 113 124 118 395 | .4 .5 .7 .7 | 76 56 39 35 105 | 21 15 26 | 2140 948 1156 1995 5387 | 5.38 5.47 6.28 | 13 17 17 5 12 | <5 <5 <5 <5 | <2 <2 <2 <2 <2 | 3 4 4 4 3 | 60 45 45 27 47 | 1.7 .6 .4 .5 5.0 | <2 <2 <2 <2 <2 | <2 <2 <2 2 3 | 61 75 79 82 72 | .65 .35 .29 .12 | .048 | 21 20 21 31 36 | | .79 .95 .93 1.45 1.29 | 543 400 498 438 469 | .11 .14 .14 .13 | 2 2 3 2 2 2 <2 3 <2 2 | .78 .83 .01 | .03 .02 .03 .02 | .52 .47 .76 .87 | <1 <1 1 <1 2 |
| L14+00S 00 L14+00S 50E L14+00S 100E L14+00S 150E L14+00S 200E | 3 2 2 1 1 | 100 109 107 260 80 | 10 7 11 12 8 | 94 111 149 319 161 | .4 .3 .2 .4 | 46 58 57 120 88 | 28 26 57 | 1500 : 1781 : 2312 : 5101 : 2547 : | 4.06 4.16 4.63 | 5 4 5 11 8 | <5 <5 <5 <5 | <2 <2 <2 <2 <2 | <2 <2 <2 <2 | 62 69 56 162 96 | .8 .5 .6 1.4 | <2 <2 <2 <2 <2 | <2 <2 <2 2 <2 | 43 | .62 .57 .57 2.21 1.17 | .070 .070 .342 | 8 9 8 12 9 | 46 57 51 38 37 | .70 .78 .67 .58 | 334 462 469 929 599 | .17 .17 .17 .10 | 4 2 3 2 5 2 5 2 8 1 | . 44 . 85 . 03 | .04 .04 .05 .04 | .49 .50 .43 .33 | <1 <1 4 3 7 |
| L14+00S 250E L14+00S 300E L14+00S 350E L14+00S 400E L14+00S 450E | 1 2 2 3 2 | 41 55 53 60 46 | 3 11 9 7 3 | 105 104 130 65 89 | .1 .1 .2 .1 | 43 41 26 31 27 | 12 10 9 | 1539 991 1535 875 1059 | 3.01 3.21 3.53 | 4 7 8 9 9 | <5 <5 <5 <5 | <2 <2 <2 <2 <2 | <2 <2 <2 <2 <2 | 63 58 63 70 50 | .3 .2 .4 .3 | <2 <2 <2 <2 <2 | \$\$ \$\$ \$\$ \$\$ | 29 38 42 53 38 | .77 .48 .53 .38 .43 | .131 .080 .049 | 6 8 8 13 9 | 26 32 35 42 29 | .42 .50 .54 .68 | 457 488 673 496 505 | .10 .13 .13 .15 | 5 1 5 1 4 1 3 2 4 1 | .95 .99 .38 | .04 .04 .03 .04 | .32 .42 .47 .63 .39 | <1 <1 <1 <1 <1 |
| L14+00S 500E L14+00S 550E L14+00S 600E L14+00S 650E L14+00S 700E | 2 2 2 2 4 | 53 67 59 85 190 | 7 6 10 12 14 | 73 120 89 174 408 | .2 .3 .3 .3 | 26 43 27 48 121 | 17 12 20 | 813 3 1196 3 1126 3 1253 4 1452 6 | 3.46 3.14 4.62 | 11 18 15 18 10 | \$ \$ \$ \$ \$ | <2 <2 <2 <2 <2 | 2 2 2 <2 3 | 46 52 43 55 58 | .3 .7 .6 1.1 2.9 | <2 <2 <2 <2 <2 | <2 <2 <2 <2 4 | 51 57 55 73 82 | .34 .38 .45 .49 | .066 .037 .071 | 10 12 12 14 23 | 38 38 41 60 59 | .59 .60 .66 1.14 | 490 435 464 504 485 | .16 .14 .15 .18 | 4 2 4 2 5 1 4 3 <2 3 | .13 .60 .03 | .04 .03 .03 .04 | .58 .72 1.06 | 1 <1 <1 <1 |
| L14+00S 750E L14+00S 800E L14+00S 850E L14+00S 900E L14+00S 950E | 3 3 2 3 3 | 133 104 69 73 109 | 6 7 8 5 6 | 180 179 98 131 103 | .7 .3 .2 .3 .4 | 60 38 26 31 32 | 16 12 11 | 1529 4 2081 4 1289 3 1851 4 751 4 | 4.13 3.55 4.01 | 20 18 21 14 19 | <5 <5 <5 <5 <5 | <2 <2 <2 <2 <2 | 2 2 2 2 3 | 54 68 53 51 61 | 1.2 1.5 .7 1.1 | <2 <2 <2 <2 <2 | <2 <2 <2 <2 <2 | 75 56 55 58 64 | .38 .54 .37 .28 | .071 .048 | 18 19 14 17 20 | 44 38 38 41 44 | .80 .66 .59 .67 | 685 622 494 463 492 | .15 .13 .13 .12 | <2 3 4 2 3 2 3 2 3 2 | .66 .03 .19 | .03 .03 .03 .03 | .42 .49 .50 .48 .62 | <1 <1 <1 1 <1 |
| STANDARD C | 18 | 65 | 39 | 125 | 6.7 | 69 | 30 | 1043 3 | 3.91 | 43 | 15 | 8 | 34 | 56 | 18.7 | 18 | 18 | 58 | .49 | .078 | 38 | 58 | .88 | 198 | .09 | 33 1 | .89 | .08 | .16 | 11 |



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全全

| SAMPLE# | Мо | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe % | As | U | Au | Th | Sr | Cd | Sb | Bi | ٧ | Ca | P % | La | Cr | Mg % | Ba | Ti % | В | Al % | Na % | K % | W |
|-----------------|-----|-----|-----|-----|-------|-----|-----|------|-------------|-----|------------|-----|------------|----------|----------|-----|-----|------------|-----|--------|-----|-----|---------|-----|---------|------|---------|---------|--------|-----|
| | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | | ppm | ppm | ppm | ppm | ppm | bbw | bbw | ppm | ppm | - 7 | ^ | ppm | ppm | ~ | ppm | ^ | ppm | | ^ | | bbu |
| L14+00S 1000E | 7 | 86 | 10 | 93 | 1 | 35 | 11 | 1023 | 4 25 | 17 | <5 | <2 | | 53 | .2 | 7 | <2 | 52 | .32 | .051 | 14 | 30 | .45 | 373 | .09 | ٠2 - | 1.43 | .01 | .37 | 1 |
| L15+00S 1000E | 3 | 186 | 8 | 102 | .1 | 58 | | 1445 | | 9 | <5 | <2 | <2 | 74 | .3 | 2 | <2 | 63 | .67 | | 7 | 71 | 1.02 | 424 | .17 | - | 2.58 | .03 | .47 | 5 |
| L15+00S 50E | 5 | 115 | 2 | 65 | .2 | 42 | | 795 | | 6 | <5 | <2 | <2 | 61 | | 7 | <2 | 58 | | .055 | 5 | 42 | .82 | 259 | .21 | | 2.49 | .03 | .49 | 3 |
| L15+00S 100E | 2 | 88 | 9 | 129 | | 46 | | 1951 | | 8 | <5 | <2 | | | .6 .2 | 2 | <2 | 53 | .49 | | 7 | 44 | .74 | 538 | .18 | | 2.41 | .03 | .24 | 1 |
| L15+00S 150E | 2 | 140 | 7 | 90 | - 1 | 45 | | 836 | | 6 | <5 | <2 | <2 2 | 64 44 | <.2 | <2 | <2 | 81 | | .121 | 10 | 64 | .81 | 667 | -18 | | 2.59 | .02 | .22 | 2 |
| E13+008 130E |) | 140 | - 1 | 90 | - 1 | 40 | 12 | 000 | 0.79 | 0 | \ 3 | ~2 | 2 | 44 | ۲.2 | ٩2 | ~2 | 01 | .50 | . 121 | 10 | 04 | .01 | 001 | . 10 | 12 (| 2.37 | .02 | | 2 |
| L15+00S 200E | , | 80 | 15 | 79 | 1 | 49 | 16 | 1267 | 7 22 | 6 | <5 | <2 | <2 | 76 | .3 | <2 | <2 | 55 | 65 | .057 | 8 | 40 | .71 | 603 | .17 | <2 : | 2.17 | .03 | .41 | 1 |
| RE L15+00S 200E | 2 | 77 | 12 | 76 | .1 | 47 | | 1235 | | 7 | <5 | <2 | <2 | 75 | <.2 | 2 | <2 | 54 | | .056 | 8 | 39 | .69 | 602 | .17 | | 2.11 | .02 | .41 | 1 |
| L15+00S 250E | 7 | 86 | 6 | 89 | - 1 | 37 | | 1022 | | 6 | <5 | <2 | 2 | 89 | ٠.٢ | <2 | 2 | 63 | | .054 | 10 | 37 | .76 | | .16 | | 2.64 | .02 | .36 | 3 |
| L15+00S 300E | 1 | 66 | 5 | 104 | - 1 | 35 | | 1813 | | 12 | <5 | <2 | <2 | 68 | .6 | <2 | <2 | 45 | | .111 | 7 | 27 | .64 | 492 | .12 | | 2.23 | .02 | .45 | 1 |
| L15+00S 350E | 4 | 36 | 2 | 95 | <.1 | 43 | | 1045 | | 9 | <5 | <2 | · <2 | 49 | .5 | <2 | <2 | 31 | | .082 | 6 | 25 | .45 | 402 | .11 | | 1.80 | .03 | .19 | <1 |
| £15.003 550E | ' | 30 | • | 7.7 | · · · | 43 | , , | 1043 | | , | ٠, | ~_ | ٧. | 47 | | `` | `` | <i>3</i> i | .40 | .002 | U | | .43 | 702 | • • • | , | 1.00 | .03 | . 17 | ~1 |
| L15+00S 400E | 5 | 75 | 4 | 109 | .1 | 55 | 21 | 2136 | 3.89 | 6 | <5 | <2 | 2 | 80 | .6 | <2 | <2 | 53 | .63 | .065 | 15 | 38 | .71 | 498 | .13 | 2 : | 2.52 | .02 | .49 | 1 |
| L15+00S 450E | 2 | 42 | 7 | 71 | <.1 | 24 | | 1256 | | 9 | <5 | <2 | < <u>2</u> | 54 | .4 | 2 | 3 | 38 | .47 | | 8 | 26 | .48 | 466 | .11 | | 1.74 | .02 | .33 | <1 |
| L15+00S 500E | 2 | 43 | ġ | 91 | <.1 | 28 | | 1200 | | ģ | <5 | <2 | <2 | 43 | .4 | <2 | <2 | 36 | | 046 | 7 | 23 | .45 | 558 | .11 | | 1.77 | .02 | .25 | 1 |
| L15+00S 550E | 1 | 25 | 6 | 69 | <.1 | 26 | 8 | | | 14 | <5 | <2 | <2 | 29 | .2 | <2 | <2 | 35 | | | 6 | 23 | .43 | 371 | .11 | _ | 1.51 | .02 | .24 | i |
| L15+00S 600E | 1 | 28 | 3 | 52 | <.1 | 23 | 8 | | | 16 | <5 | <2 | 2 | 29 | .4 | <2 | <2 | 38 | | .026 | 8 | 26 | .48 | 354 | .11 | | 1.21 | .02 | .39 | <1 |
| 21,51000 0002 | , | | • | | | | • | 0.0 | | | - | | _ | | • • | | - | | | | • | | | | | _ | | | | |
| L15+00S 650E | 1 | 79 | 7 | 210 | .1 | 39 | 16 | 2005 | 4.07 | 9 | <5 | <2 | 2 | 53 | 1.3 | <2 | 2 | 65 | .45 | .051 | 13 | 38 | .86 | 961 | .14 | 3 8 | 2.45 | .02 | .74 | <1 |
| L15+00S 700E | 2 | 49 | 3 | 126 | <.1 | 31 | 14 | 1522 | 3.22 | 17 | <5 | <2 | 2 | 46 | .9 | <2 | 2 | 50 | .50 | .046 | 11 | 33 | .60 | 543 | .12 | <2 | 1.91 | .02 | .42 | <1 |
| L15+00S 750E | 1 | 52 | 10 | 105 | <.1 | 31 | 12 | 1110 | 3.31 | 18 | <5 | <2 | 2 | 47 | .5 | 2 | <2 | 50 | .38 | .054 | 12 | 32 | .57 | 446 | . 12 | <2 | 1.89 | .02 | .50 | <1 |
| L15+00S 800E | 1 | 115 | 7 | 173 | .2 | 30 | 11 | 1750 | 4.41 | 15 | <5 | <2 | 2 | 51 | 1.2 | <2 | <2 | 67 | .69 | .127 | 16 | 33 | .73 | 962 | .09 | 5 | 1.86 | .01 | .72 | <1 |
| L15+00S 850E | 1 | 39 | 6 | 94 | <.1 | 24 | 9 | 837 | 2.96 | 16 | <5 | <2 | 3 | 36 | .5 | <2 | 3 | 42 | | .045 | 10 | 26 | .50 | 378 | .11 | | 1.82 | .02 | .37 | <1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L15+00S 900E | 2 | 67 | 7 | 170 | .2 | 48 | 15 | 1920 | 3.78 | 24 | <5 | <2 | 3 | 58 | 1.4 | 2 | <2 | 52 | .50 | .101 | 17 | 31 | .58 | 631 | .11 | 3 7 | 2.24 | .02 | .36 | <1 |
| L15+00S 950E | 2 | 107 | 9 | 175 | .2 | 44 | 17 | 2937 | 4.00 | 19 | <5 | <2 | 2 | 71 | 1.2 | 2 | <2 | 61 | | .082 | 22 | 34 | .55 | 711 | .09 | 4 | 2.02 | .02 | .36 | 1 |
| L15+00S 1000E | 2 | 65 | 8 | 138 | <.1 | 38 | 10 | 1357 | 3.04 | 26 | <5 | <2 | 2 | 48 | 1.3 | 2 | <2 | 44 | .35 | .044 | 15 | 26 | .45 | 416 | .09 | 4 | 1.64 | .02 | .40 | <1 |
| STANDARD C | 17 | 63 | 38 | 130 | 6.9 | 66 | | 1073 | | 42 | 17 | 7 | 35 | | 17.3 | 14 | 20 | 55 | | .079 | 37 | 51 | .90 | 194 | .09 | | 1.88 | | .14 | 11 |

| PUM SEATTLE GAIN 06.5 LINE I-S. DEC. 13/3 | PUMA#3 SEATTLE GAINOG.S LINE 2-S. DEC. 13/93 | PUMA 3 SEATTLE DEC. II | 3 |
|--|--|--|---|
| STA X ES Ø 300 E - 4 52 | | STA X F.S. Q 800E- 2 52 | |
| 325 E. 0 52 350 E 0 55 375 - 2 52 400 - 2 52 425 - 2 52 450 - 2 57 450 + 4 50 500 + 4 58 | 325 E - 2 38 350 E - 6 47 375 - 4 50 425 - 2 45 450 - 2 52 475 - 2 55 500 47 | 825 E. + 2 42 850 E - 2 33 875 0 25 900 - 6 25 925 - 4 32 950 0 33 975 - 6 32 1000 E - 6 30 | |
| 525 550 575 600 625 625 625 625 625 625 627 627 627 627 627 627 627 627 | 550 + 2 55 RMD 550 + 2 57 500 + 2 57 625 - 2 50 675 - 2 45 700 - 6 52 | | • |
| 725 750 775 775 775 700 850 850 850 850 850 850 850 850 850 8 | 725 -68 -88 -875 -88 -875 -42 -42 -42 -42 -42 -42 -44 -45 -875 -875 -875 -875 -875 -875 -875 -875 -875 -875 -875 -975 | | |
| 950 950 975 1000 E 12 52 | 925 925 935 935 935 1000 E. — 4 | | |
| | | | |

| PUMA SEATTLE DEC. 12/93 | PUMA "3 SEATTLE GAIN 5.5 | PUMA =3 | | E DECO | /93 |
|-------------------------|------------------------------|-------------------------|-----------|----------------------|---------|
| L.4-S. GAIN 5.5 | L. 6-5. DEC. 12/93 | | | | |
| STA 4 F.S. Q | 57A 4 F.S. Q | STA | F. 3. Q | 37A X | FS Q 34 |
| 800 F + 6 40 | 37A 4 F.S. 9 800 E. 0 42 | 350 W 2 325 W - 4 | 5 4 45 | 525W - 2 550W - 5 | 28 |
| 825 = + 6 43 | 820 E 2 38 | 300 W2 | 48 | 575 - 8 | 38 |
| 850 E. + 6 37 | 850 E. 0 33 | 275 - 2 | 42 | 600 - 6 | 18 |
| 8 75 + 8 35 | 875 - 4 32 | 250 +2 | 37 | 625 - 4 | 3 5 |
| 900 0 40 925 0 42 | 900 - 2 32 | 225 + 6 | 48 | 450 - 12 | 3.3 |
| 925 0 42 | 925 - 4 33 | 200 +12 | 38 | 675 - 8 | 3 2 |
| 975 0 53 | 950 - 2 37 | 175 + 26 | 32 | 700 - 14 | 2.5 |
| 1000 - 4 47 | 1000 + 2 42 | 150 + 12 | 30 | 750 - 8 | 32 |
| | | | | 775 - 4 | 48 |
| | | 75 + 28 | 230 93 | 800 -12 | 45 |
| PUMA #3 SEATTLE GAINS.5 | PUMA" SEATTLE GAIN 5.5 | 50 +28 | 25 | 825 - 12 | 34 |
| | | 25 +10 | 18 | 850 - 10 | 3.2 |
| | L.7-S. DEC. 12/93 | 0.0W 24 | 32 4 | | 27 |
| STA 4 F.S. 9 | STA X F.S 9 | 25 E. + 10 50 E. + 4 | 30 53 | 900 0 | 36 |
| 800 E. + 2 52 | 57A A F.5 9 80B F. + 2 53 | 50 E. + 4 | 48 | 950 - 18 | 30 5 |
| 825 E. + 2 53 | 823 F. + 2 52 | 100 - 2 | 44 | 975 - 10 | 25 |
| 850 E. + 2 47 | 850 E. 0 55 | 125 + 6 | 40 2 | 1000 - 8 | 40 |
| 875 + 6 50 | 875 + 2 52 | | 41N 44 55 | 12.7 | |
| 900 + 6 55 925 + 8 52 | 900 0 50 | | 6 | | |
| 950 + 6 47 | 925 - 2 50 950 - 4 50 | 200 - 32 | 25 | | |
| 975 + 4 45 | 950 - 4 50 | 125 - 15 250 - 18 | 32 28 | | |
| 1000 + 6 43 | 1000 - 2 45 | 275 - 14 | 36 | | |
| 1 | | 300 - 22 | 38 | | |
| | | 325 - 14 | 32 | | |
| | | 350 - 24 | 42 3 | | |
| | | 375 -20 | 33 | : | : : |
| | | 400 - 32 | 42 | | |
| | | 425 - 18 450 - 32 | 27 43 | | |
| | | 450 - 32 | 36 | | |
| | | 500 - 4 | 35 | | |
| | | | | | |
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| STA |
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| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ |

| | EATTLE DEC. 6/93 | PUMA#3 | SEATTLE DEC. 7/93 GAIN 10 |
|--|--|--|--|
| 350 W. 325 W | STA. X F.S. Q 525E-16 25 550E-16 22 | STA. Z F.S 0.0 E - 22 67 25 E - 18 87 | 7 725 E - 24 87 |
| 300 W. 275 250 225 + 8 17 | 575 - 20 32 600 - 12 32 625 - 18 25 | 50 E 20 77 75 - 18 82 100 - 16 70 | 7 775 E 38 77 2 800 - 24 85 3 825 - 18 82 |
| 200 + 26 17 175 + 4 18 150 0 20 | 775 - 12 35 700 - 42 70 4 725 - 12 42 | 150 - 14 82 175 - 18 67 200 - 24 82 | 2 875 - 10 100+ 7 900 - 10 98 2 925 - 8 97 |
| 100 0 13 75 0 26 50 - 10 28 | 750 - 28 43 775 - 16 47 800 - 16 43 825 - 16 42 | 2 9 0 - 2 4 72 2 9 0 - 2 4 6 3 2 7 5 - 1 6 5 8 3 0 0 - 1 8 6 8 | 3 975 - 8 93 1000 - 6 53 |
| 25 - 12 38 0.0 W 14 32 25 E 18 35 50 F 18 38 | 850 - 14 38 875 - 12 38 900 - 14 50 925 - 14 52 | 325 - 12 62 356 - 14 70 375 - 6 68 460 - 20 72 | |
| 75 E 18 37 100 - 16 30 125 - 20 28 150 - 14 28 | 950 - 32 47 975 - 32 42 1000 - 11 52 | 425 -10 87 450 -10 87 475 -18 68 500 -8 70 | |
| 175 - 12 35 200 - 20 38 250 - 28 32 | | 525 - 24 72 556 - 12 82 575 - 10 83 | 2 2 2 2 |
| 275 - 20 30 300 - 18 32 325 - 24 37 | TOP OF BLUFFS | 425 - 14 90 450 - 4 73 675 - 14 97 | 3 |
| 350? - 60 22 375 - 14 22 400 - 14 13 425 - 2 20 | | 760 -18 98 | |
| 450 - 20 15 475 - 16 17 500 - 8 17 | | | |

| F. 5377720328880750207227255 | 4 |
|--|--------------|
| 45445555555655654333222XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | MA = |
| | |
| | SEA |
| | TTLE GAIN |
| | |
| | 10/4 |
| | 73 |
| 5TA 0.5050505050505050505050505050505050505 | |
| - 1/4 + + + + + - + | JNA # |
| 75 5 5 5 5 7 3 7 8 5 2 7 2 7 3 7 8 8 8 8 2 7 7 8 5 5 4 5 5 4 4 4 3 7 6 8 6 8 6 8 6 5 5 4 4 4 3 7 6 8 6 8 6 8 6 8 6 7 7 8 5 5 4 4 3 7 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 | |
| 5.5 | |
| STA 725 E 750 E 750 825 825 825 825 825 825 995 907 907 900 | TLE |
| | DE) |
| | . 10/9 |
| • | 13 |

| | TTLE DEC. 10/9 | PUMA #3 SEA | TTLE C. 10/93 |
|--|--|--|---|
| STA. Z. F.S. Q 0.0 F 16 508 477 18 477 100 477 150 E 14 477 143 8 42 2 8 9 9 12 14 45 10 8 6 44 5 12 12 12 12 12 12 12 12 12 12 12 12 12 | STA. Z F.S. Q 7.25 E + 2 30 7.50 E + 4 32 7.75 E + 2 30 7.75 + 2 30 7.75 + 2 30 7.75 + 2 30 7.75 + 4 32 7.75 + 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | 5TA. F.S. Q F.S. Q F | 3TA X F.S. Q 725E+ 6 82 750E+12 73 778 + 6 68 825 + 12 63 825 + 12 63 850 + 10 75 875 + 6 77 975 + 6 60 975 + 6 60 975 + 6 60 975 + 75 975 + 75 |
| DEC. 11/93 GAIN 5.5 400 E - & 28 425 E - 425 475 - 48 475 - 48 475 - 64 475 - 64 475 - 44 5525 - 44 5525 - 44 62570 4055 - 44 700 | | 4444 | |

