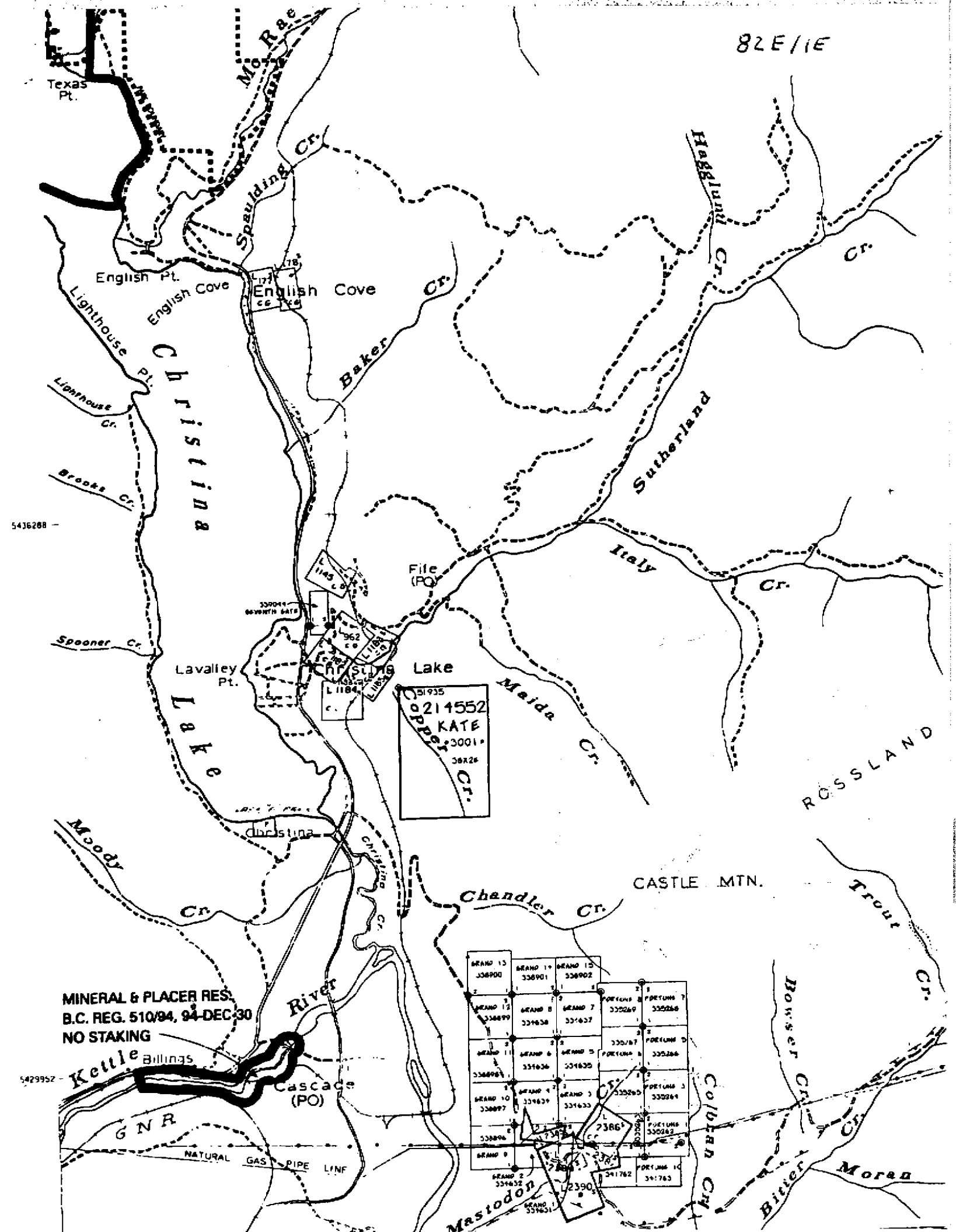
BRITISH COLUMBIA

PROSPECTORS ASSISTANCE PROGRAM

MINISTRY OF ENERGY AND MINES

GEOLOGICAL SURVEY BRANCH

PROGRAM YEAR:	1996/1997
REPORT #:	PAP 96-30
NAME:	EDWARD ALIONIS


82E/1E
Texas Pt.
Mo. Rae
Spaulding Cr.
Haggluud Cr.
English Pt.
English Cove
English Cove
Lighthouse Pt.
Baker Cr.
Christina Lake
Lighthouse Cr.
Brooks Cr.
Sutherland
5436288
File (PO)
Italy Cr.
Spooner Cr.
Lavalley Pt.
Christina Lake
Meida Cr.
51935
214552
KATE
3001
38X26
Copper Cr.
ROSSLAND
Moody Cr.
Christina
Chandler Cr.
CASTLE MTN.
Trout Cr.
MINERAL & PLACER RES.
B.C. REG. 510/94, 94-DEC-30
NO STAKING
River
Kettle
Billings
5429952
Cascade (PO)
Boswell Cr.
Colbran Cr.
GNR
NATURAL GAS PIPE LINE
Bitter Cr.
Morea
Mastodon

GEOCHEMICAL SURVEY REPORT
GRAND FORTUNE NICKEL PROSPECT
GREENWOOD MINING DIVISION, B.C.

N.T.S. 82E/1E

BY

Edward Alionis B.A.

AUGUST, 1996

CLAIMS WORKED

CLAIM NAMES	UNITS	RECORD NUMBERS	ANNIVERSARIES
GRAND-1 to 8	8	334631 - 334638	MARCH 18
GRAND-10 to 15	6	338897 - 338902	AUGUST 7
FORTUNE -3 to 6	4	335264 - 335627	APRIL 22
FORTUNE 8	1	335269	APRIL 22

LOCATION: 49°01' North Latitude
118°10' West Longitude
OWNER: E. ALIONIS
OPERATOR: E. ALIONIS

GEOCHEMICAL SURVEY
REPORT ON THE
GRAND FORTUNE NICKEL PROSPECT
GREENWOOD MINING DIVISION, B.C.

SUMMARY:

The Mastadon Property is a nickel prospect located in south central British Columbia approximately 18 km east of the town of Grand Forks and 5 km southeast of the community of Christina Lake. The property, situated at an elevation of 1,300 metres on the southwest shoulder of Castle Mountain, is comprised of 25 two post mineral claims.

In June 1996, Geochemical sampling involved taking a total of 117 basal till samples, and 74 rock chip samples over the property. Field work was carried out from June 16th to July 6th by a two person crew working out of Christina Lake. The soil sample results showed nickel and chrome concentrations to be typical of soil development over ultramafic rocks. Rock chip samples taken over 19 claims from 60 of the ultramafic exposures showed concentrations of approximately 0.22 % nickel in the dunite body consisent with results of the 1995 reconnaissance program..

Partial extraction's for nickel were carried out on 74 rock samples and 117 soil samples over the ultramafic body. Results of this study suggest that between 33% and up to 81% of the contained nickel may be present as sulfides.

The 1996 program succeeded in defining the extent of the ultramafic exposure and confirmed that nickel concentrations are consistent with previous exploration of the property.

GEOPHYSICAL AND GEOCHEMICAL REPORT ON THE GRAND FORTUNE NICKEL PROSPECT GREENWOOD MINING DIVISION, B.C.

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GEOCHEMICAL SURVEY
REPORT ON THE
GRAND FORTUNE NICKEL PROSPECT
GREENWOOD MINING DIVISION, B.C.

1.0 INTRODUCTION:

In June 1996, a reconnaissance exploration program was carried out over the Grand Fortune nickel property in southern British Columbia. The primary purpose of the program was to determine if a geochemical survey of the ultramafic body could verfy nickel concentrations reported by previous operators of the property. The program involved carrying out geological mapping, reconnaissance rock chip sampling and soil sampling of a grid in the centre of the property. The soil grid was established to cover an area of anomalous gold values reported by Shangri - La Minerals Ltd. in 1987 for Nitro Resources Inc. (assessment report 16,358).

The present program was carried out from June16 to July6th , by a two person crew working out of the Christina Lake Motor Inn in the nearby community of Christina Lake, B.C.

1.1 LOCATION AND ACCESS:

The Mastadon Property is located in south central British Columbia approximately 18 km east of the town of Grand Forks and 5 km southeast of the community of Christina Lake. The claims overlie an area of gently rolling relief with maximum elevation changes across the property on the order of about 200 metres.

Good access to the south end of the property is provided by a gravel, B.C. Hydro, service road that intersects Highway No.3 at the south end of Christina Lake, just 22 km east of Grand Forks. Additional access is provided by a network of abandoned but negotiable logging roads that cross the property.

1.2 PHYSIOGRAPHY, VEGETATION AND CLIMATE:

The claims encompass an area of gently rolling relief on a plateau like area in south central British Columbia. The property is situated at an elevation of 1,300 metres on the southeast shoulder of Castle Mountain. Maximum elevation changes across the property are on the order of 200 metres.

An extensive but thin blanket of glacial ground moraine covers most of the property. Rock exposures account for less than 10% of the property and are confined to creek beds and the flanks and crests of hills.

Timber is predominantly pine and spruce which is well spaced allowing easy movement through the forest. Scattered patches of aspen and birch occur on south and west facing slopes, and mountain alder grows in damp areas along streams.

The climate is typical of the southern interior, with hot, dry, summers and moderately long, cold, winters. Temperatures range from in excess of 30°C in August to minus 25°C in January. The average annual precipitation is 30 cm with most of this falling as snow in late fall, winter and early spring. The snow free period lasts from late April to mid-November, but due to the light snowfall geophysics and drilling can be carried out throughout the winter.

1.3 PROPERTY INFORMATION:

The property is located in the Greenwood Mining Division and is comprised of 25 two post mineral claims. All claims were staked in 1995. Pertinent claim information is given in Table 1 below.

TABLE 1

LIST OF CLAIMS

CLAIM NAMES	UNITS	RECORD NUMBERS	EXPIRY DATES
GRAND 1 to 8	**8**	**334631 - 334638**	**March 18, 2001**
GRAND 9 TO 15	**7**	**338896 - 338902**	**August 7, 2001**
FORTUNE 1 to 8	**8**	**335262 - 335269**	**April 22, 2001**
FORTUNE 9 to 10	**2**	**341762 - 341763**	**October 30,2001**

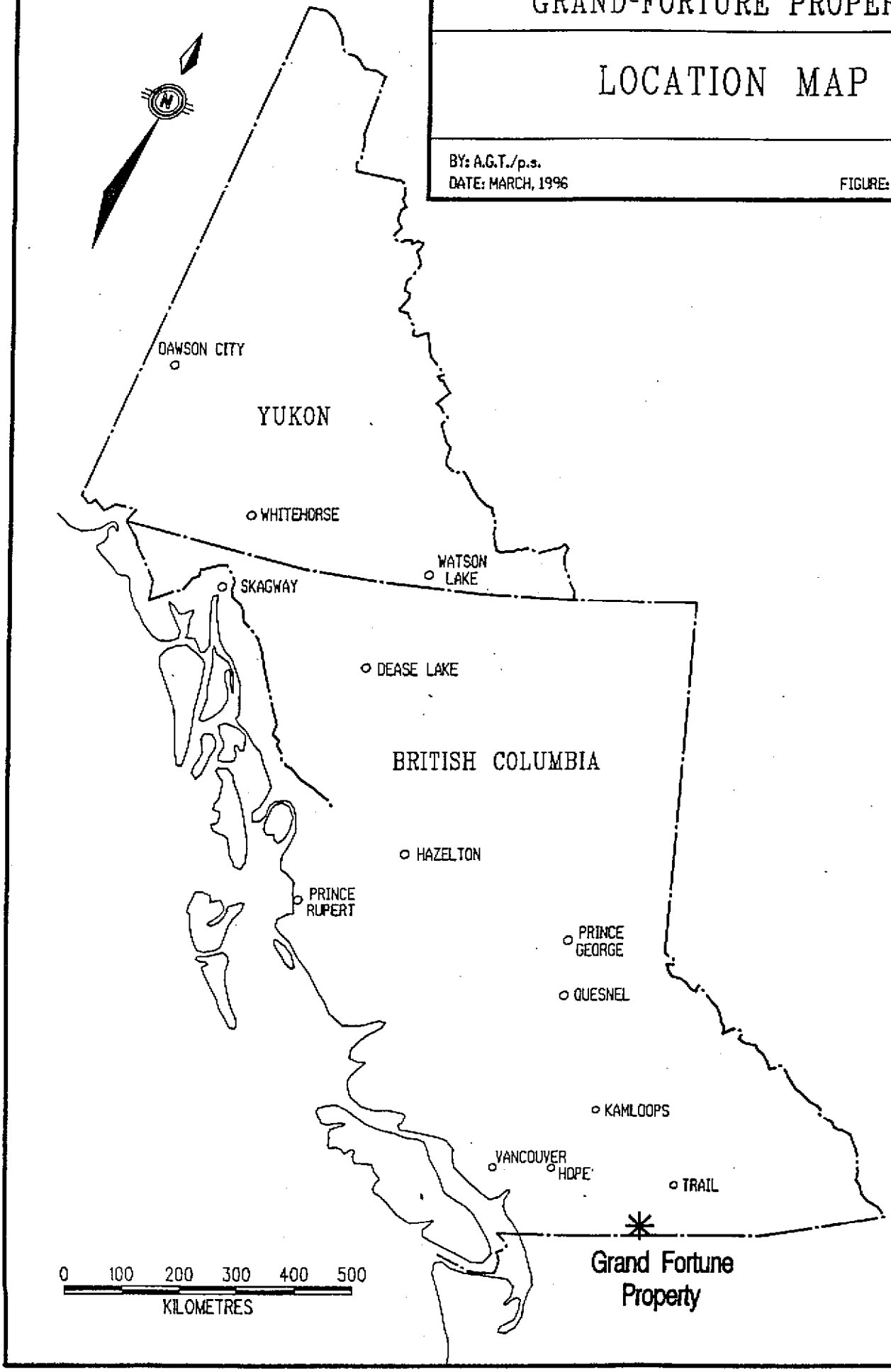
E. ALIONIS

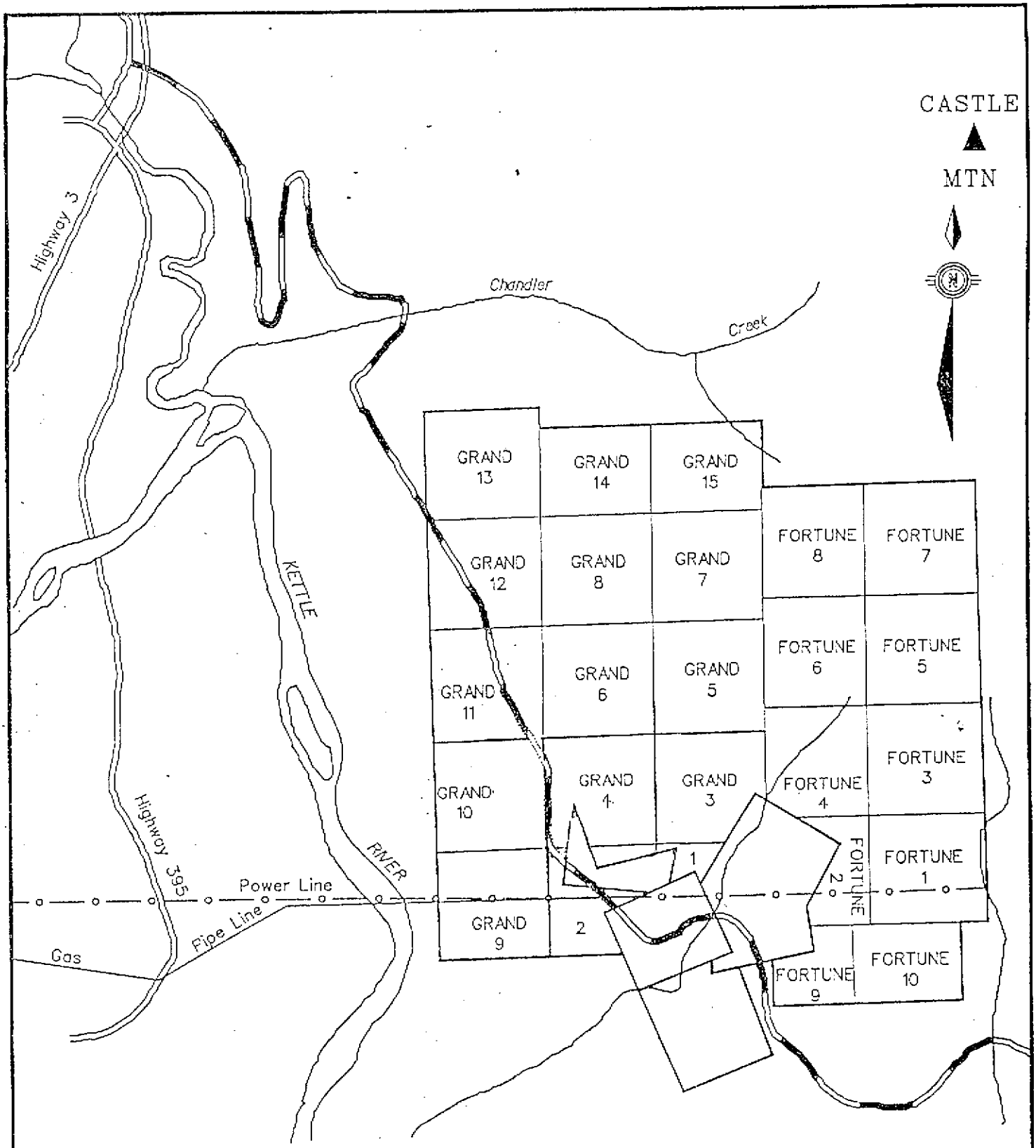
GRAND-FORTURE PROPERTY

LOCATION MAP

BY: A.G.T./p.s.
DATE: MARCH, 1996

FIGURE: 1





Gravel Road

SCALE 1:25,000

0 250 500 750 1000 1250

METRES

E. ALIONIS

GRAND - FORTUNE PROPERTY

CLAIM MAP

DATE: MARCH, 1995
BY: A.G.T./p.s.

FIGURE: 2

1.4 HISTORY:

In 1917, chromite mineralization occurring as dissemination's, streaks and lenses within the Castle Mountain dunite body was discovered on the Mastadon Crown Grant (Lot 2384) just 100 metres south of the current property. In 1918, the Stewart-Calvert Company of Oroville, Washington acquired and developed the deposit. Government records show that in 1918 the company mined and shipped 670 tons of ore averaging 39% chromium. The ore was reported to carry up to 0.015 oz/ton platinum asssociated with the massive chromite mineralization.

In 1968, the property was acquired by Hunter Point Exploration Ltd. of Vancouver, who tested the former chromite deposit with 1,300 metres of diamond drilling in 11 holes. The drilling encountered a large body of low-grade nickel mineralization, in altered dunite, at depths of up to 140 metres below the former chromite workings. In 1970, the property was acquired by Chromex Nickel Mines Ltd. of Vancouver who explored the property until 1973 with 6,500 metres of diamond drilling in 59 holes. In 1974, Chromex reported a drill indicated reserve of 408,000,000 tons grading 0.24% Ni. Nickel minerals are reported to be nickeliferous magnetite, fine grained millerite and pentlandite. The mineralized zone is not exposed at surface but is reported to be amenable to open pit mining methods. Because of low grade and complex metallurgy the deposit has not been developed.

In 1987, the area of the present property was staked by Nitro Resources Inc. of Vancouver. Nitro explored the property for platinum group minerals with a two year program of geological mapping, soil geochemical sampling and a magnetometer survey. No significant platinum geochemical anomalies were discovered by this work program and the property was allowed to lapse.

The Nitro mapping program showed the ultramafic body to extend two kilometres north of the area previously explored. Over this north extension geochemical results revealed a 3.0 km2 nickel and chrome soil anomaly that extends 1.5 km north of the former Mastadon workings. Anomalous gold values, up to 800ppb or greater, define several smaller anomalies scattered across the large nickel-chrome soil anomaly. Locally the higher gold values show an association with higher nickel values.

In 1995, the Grand and Fortune claims were staked to cover this nickel, chrome and gold geochemical anomaly.

1.5 WORK DONE IN 1996:

The following field work was completed during the period from June 16 to July 6th, 1996:

(a) A total of 105 soil samples were taken at 25 metre intervals over a 250 metre X 400 metre flagged grid established over the Grand 6 and 11 mineral claims .

(b) A total of 7 soil samples were taken at 50 metre intervals along a 300metre flagged line run over a anomalous gold area on the Fortune 3 mineral claim.

(c) Five reconnaissance soil samples were taken over several areas of former trenching.

(d) Reconnaissance rock chip sampling was carried out over 74 outcrop areas covering the ultramafic body.

(e) Reconnaissance mapping of the property.

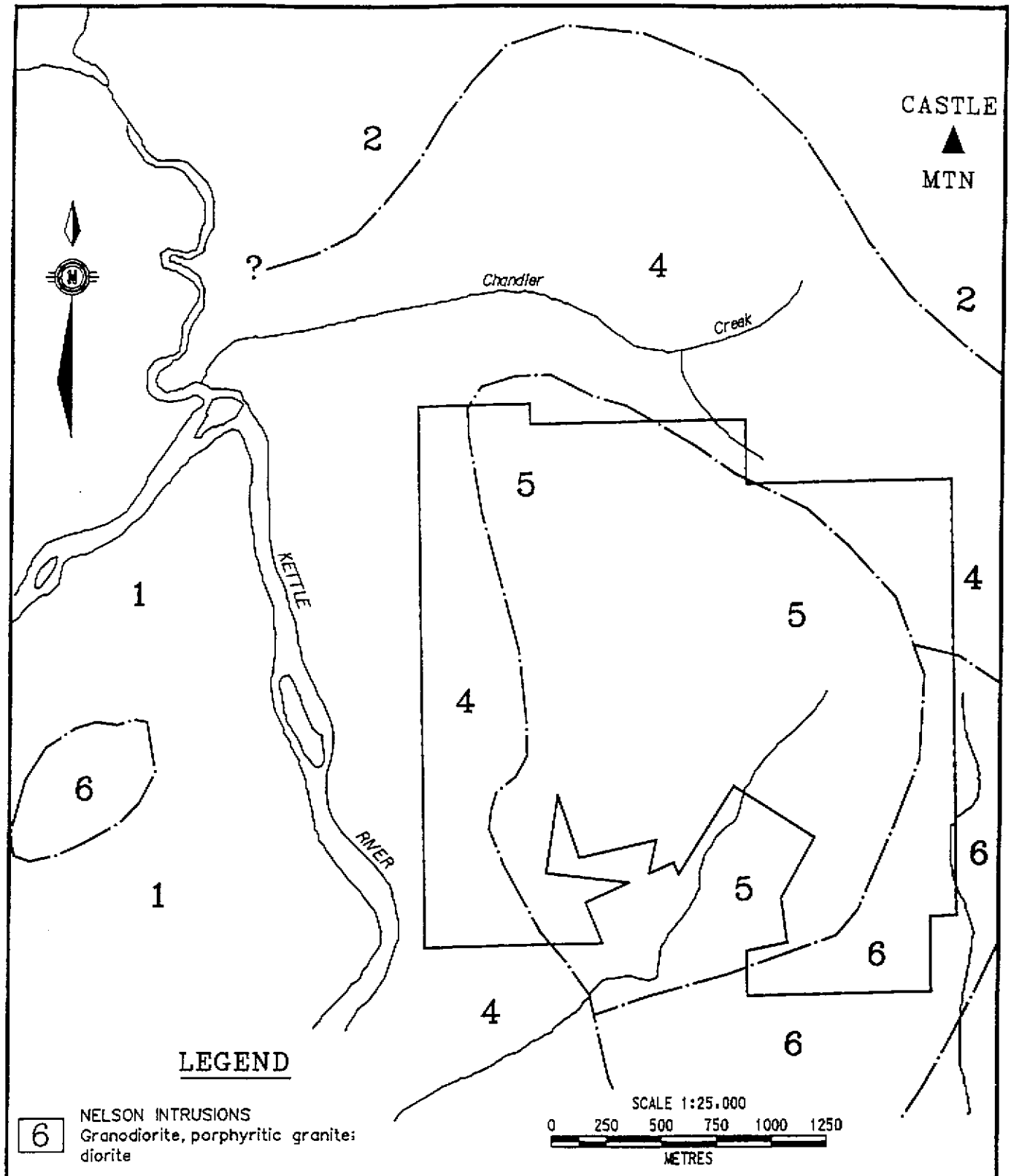
2.0 GEOLOGY

The property is underlain by the Castle Mountain, alpine, ultramafic body.. This unit is a sill like body that is believed to have been tectonically emplaced into the surrounding Jurassic age, Rossland Group volcano-sedimentary unit. The ultramafic body consists predominantly of massive dunite, composed of olivine with disseminated grains of chromite. Later alteration has resulted in replacement of much if the olivine by anthophyllite and fine grained antigorite. The ultramafic appears tan, brown and gray on weathered surfaces and outcrop exposures appear uniform throughout the area worked. On fresh surfaces the rock is black or dark green in colour and is typically aphanitic to fine grained. Magnetite is a common accessory mineral. Outcropings of ultramafic composition are generally devoid of vegetation.

The ultramafic body is intruded by a number of feldspar porphyry dykes and sills of variable composition. These bodies are probably associated with the nearby Coryell Intrusions of Eocene age. The dykes are more recessive than the surrounding dunite body and are only seen locally as small outcrops and boulder patches. Disseminated pyrite is commonly associated with these rocks.

To the east and northeast the ultramafic rocks are in contact with a sequence of silicious mudstones and siltstones. The sedimentary rocks are characterized by dark brown, to pale tan, thinly bedded units that occasionally exhibit graded bedding. These rocks all exhibit greenschist facies metamorphism.

To the north and west the ultramafic body is bounded by a sequence of andesite and andesite-agglomerates interbedded with thin argillite horizons. The rocks have undergone greenschist metamorphism and chlorite and epidote are commonly seen filling fractures and vesicles. Pyrite is often present as fine dissemination's and fracture fillings.



LEGEND

- 6 NELSON INTRUSIONS — Granodiorite, porphyritic granite: diorite
- 5 Ultrabasic intrusions: serpentinite, dunite
- 4 ROSSLAND GROUP — Andesite, agglomerate, minor greywacke
- 2 MOUNT ROBERTS FORMATION — Greywacke, greenstone, limestone
- 1 MONASHEE & GRAND FORKS GROUPS — Paragneiss: minor limestone
- Geological contact

E. ALIONIS

GRAND - FORTUNE PROPERTY

REGIONAL GEOLOGY

(MODIFIED AFTER LITTLE 1957)

DATE: MARCH, 1995
BY: A.G.T./p.s.

FIGURE: 3

3.0 GEOCHEMISTRY:

A flagged grid , 250 metres X 400 metres with a 500 metre baseline, was established over the Grand 6 and Grand 11 mineral claims. The lines were oriented East - West using a North - South baseline. The lines were spaced 50 metres apart with stations located at 25 metre intervals.

A total of 105 soil samples were taken at 25 metre intervals. The sampling program was intended to determine if the previously reported soil geochemestry, with anomoulous values of Ni - 1,075 p.p.m. to 1,299 p.p.m. and anomoulous Au up to 490 p.p.b. carried out by Shangri - La Minerals for Nitro Resources Inc . (assessment report 16,358) in 1987, could be repeated. See Figure 4 for grid location and Figure 5 for soil grid and results.

A total of 7 soil samples were taken at 50 metre intervals along a 300 metre flagged line established over the Fortune 3 mineral claim. The sampling was intended to determine if previously reported soil geochemistry with anomolous Au values of 1007 p.p.b and 1327 p.p.b. could be repeated. Work reported by Shangri - La Minerals in 1987 (assessment 16,358). See Figure 6 for location and Figure 4 for results.

A total of 5 soil samples were taken in 2 old trenching areas that were relocated on the Grand 3 and the Grand 11 mineral claims. See Figure 6 for locations and Figure 4 for results.

Reconnaissance rock chip sampling was carried out over several outcrop areas covering the ultra mafic body. The sampling was carried out to confirm and establish the extent of the ultramafic exposures and determine the nickel , chrome and gold concentrations. A total of 74 rock chip samples were taken.

This program resulted in the collection of 117 soil samples and 74 rock chip samples. Rock chip sample locations are shown on Figure 6 and sample results on Figure 7 .
Outcrop locations shown on geology map Figure 8.

3.1 GEOCHEMICAL PROCEDURES:

Soil samples were taken from the base of the B soil horizon across an established flagged grid 250 metres X 400metres over Grand 6 and 11 claims. Samples were taken at 25 metre intervalsalong 50 metre spaced lines . Soil samples were also taken on a flagged 300metre line at 50 metre intervals over the Fortune 3 mineral claim and over former trenches on the Grand 6 and the Grand 11 mineral claims. The soil samples were placed in numbered kraft envelopes and sent to Chemex Labs Ltd. in North Vancouver for analysis. In the laboratory the samples were dried at 80oC then sieved to minus 80 mesh and the coarse fraction discarded. The fine fraction was analysed for 32 elements including nickel and chrome by routine ICP methods.

A total of 74 reconnaissance rock chip samples were taken from outcrops . Wherever possible the samples were taken perpendicular to the strike of the mineralized zones. Samples were taken by hand using hammers and chisels. On exposed faces weathered rock was removed in an attempt to minimize the affect of surface leaching. The sample locations and descriptions are given in Table 2:

TABLE 2

ROCK SAMPLE DESCRIPTIONS

Sample	Total Ni/ Aqua Regia Soluable Ni -Cr (ppm)	Description
96-01	2450/1555-638	Chip sample across dunite outcrop- with magnetite veinlets. Magnetic.
96-02	2300/1550-276	Chip sample across dunite outcrop - with magnetite veinlets. Magnetic.
96-03	2600/1715-789	Chip sample across dunite outcrop- with magnetite veinlets.Magnetic.
96-04	2500/1555-1190	Chip sample across serpentinized dunite with magnetite veinlets. Strongly magnetic.
96-05	2100/1235-646	Chip sample across dunite outcrop- with magnetite veinlets.
96-06	2050/1375-634	Chip sample across dunite outcrop- with magnetite veinlets. Magnetic.
96-07	2200/1500-2030	Chip sample across dunite outcrop- with magnetite veinlets and disseminated chromite. Strongly magnetic.
96-08	1900/1240-52	Chip sample across dunite outcrop- with magnetite veinlets. Magnetic .
96-09	1850/1200-409	Chip sample across dunite outcrop- with magnetite veinlets.
96-10	2400/1675-545	Chip sample across dunite outcrop- with magnetite veinlets.
96-11	2300/1535-1400	Chip sample across dunite with magnetite

Sample	Total Ni/Aqua Regia SoluableNi-Cr (ppm)	Description
96-12	2100/1445-1235	Chip sample across dunite with magnetite veinlets.
96-13	2100/824-525	Chip sample across dunite with magnetite veinlets.
96-14	2400/1580-656	Chip sample across dunite with magnitite veinlets.
96-15	2000/1345-397	Chip sample across dunite with magnetite veinlets.
96-16	2750/1865-476	Chip sample across dunite with magnetite veinlets.
96-17	2050/1265-425	Chip sample across serpentinized dunite with magnetite veinlets.
96-18	2400/1620-586	Chip sample across dunite with magnetite.
96-19	2200/1490-524	Chip sample across dunite with magnetite
96-20	2300/1645-583	Chip sample across carbonitized dunite with magnetite.
96-21	2200/1570-703	Chip sample across serpentinized dunite with magnetite.
96-22	2450/1670-47	Chip sample across dunite with magnetite.
96-23	2100/748-877	Chip sample across carbonatized dunite with magnetite
96-24	2100/940-835	Chip sample across carbonitized dunite with magnetite.
96-25	2100/1375-1420	Chip sample across serpentinized dunite with magnetite.

Sample	Total Ni/Aqua Regia SoluableNi-Cr (ppm)	Description
96-26	2400/1610-1020	Chip sample across serpentinized dunite with magnetite veinlets.
96-27	2100/1420-1445	Chip sample across serpentinized dunite with magnetite veinlets.
96-28	18/19-57	Chip sample across porphry dyke.
96-29	2350/1445-392	Chip sample across serpentinized dunite with magnetite veinlets.
96-30	1950 1145-297	Chip sample across dunite with magnetite veinlets.
96-31	2300/1385-769	Chip sample across serpentinized dunite with magnetite veinlets.
96-32	2200/1540-1090	Chip sample across dunite with magnetite.
96-33	1950/1250-877	Chip sample across dunite with magnetite
96-34	2400/1560-545	Chip sample across dunite with magnetite.
96-35	2200/1435-610	Chip sample across serpentinized dunite with magnetite.
96-36	2400/1585-793	Chip sample across dunite with magnetite.
96-37	2250/1645-265	Chip sample across serpentinized dunite with magnetite.
96-38	1950/1370-1535	Chip sample across serpentinized dunite with magnetite.

Sample	Total Ni/Aqua Regia SoluableNi-Cr (ppm)	Description
96-39	2300/1545-705	Chip sample across serpentinized dunite with magnetite veinlets.
96-40	2200/1540-873	Chip sample across serpentinized dunite with magnetite veinlets.
96-41	2300/1545-688	Chip sample across serpentinized dunite with magnetite veinlets.
96-42	2300/1685-1450	Chip sample across serpentinized dunite with magnetite veinlets.
96-43	2400/1535-1090	Chip sample across dunite with magnetite veinlets.
96-44	2200/1435-827	Chip sample across serpentinized dunite with magnetite veinlets.
96-45	2000/1320-885	Chip sample across dunite with magnetite.
96-46	22/23-90	Chip sample across porphry dyke.
96-47	7/7-57	Chip sample across porphry dyke.
96-48	4/4-80	Chip sample across porphry dyke.
96-49	2150/1505-697	Chip sample across serpentinized dunite with magnetite.
96-50	2200/1500-484	Chip sample across serpentinized dunite with magnetite.Altered ,orange color,magnetic
96-51	2200/1610-503	Chip sample across serpentinized dunite with magnetite.

Sample	Total Ni/Aqua Regia SoluableNi-Cr (ppm)	Description
96-52	52/54-89	Chip sample across siliceous siltstone.
96-53	14/15-41	Chip sample across siliceous siltstone.
96-54	2100/1010-431	Chip sample across serpentinized dunite with magnetite veinlets.Altered,orange color, magnetic.
96-55	12/12-44	Chip sample across siliceous siltstone.
96-56	2300/1635-628	Chip sample across dunite with magnetite veinlets.
96-57	1950/1570-676	Chip sample across serpentinized dunite with magnetite veinlets.
96-58	2100/1520-381	Chip sample across serpentinized dunite with magnetite veinlets.
96-59	2450 /1785-508	Chip sample across serpentinized dunite with magnetite veinlets.
96-60	1900/1445-527	Chip sample across serpentinized dunite with magnetite veinlets.
96-61	2250/1545-437	Chip sample across serpentinized dunite with magnetite veinlets.
96-62	98/160-53	Chip sample across porphry dyke.
96-63	198/223-81	Chip sample across porphry dyke.
96-64	2000/1445-781	Chip sample across serpentinized dunite with magnetite.

Sample	Total Ni/Aqua Regia SoluableNi-Cr (ppm)	Description
96-65	6/7 -34	Chip sample across porphry dyke..
96-66	1400/808-382	Chip sample across serpentinized dunite with magnetite veinlets.
96-67	1900/1370-717	Chip sample across serpentinized dunite with magnetiteveinlet.magnetic.
96-68	2500/1720-112	Chip sample across serpentinized dunite with magnetite veinlets..
96-69	44/47-35	Chip sample across andesite,magnetic.
96-70	18/17-45	Chip sample across silcious siltstone, 5%. disseminated pyrites on fractures.
96-71	84/77-75	Chip sample across silcious siltstone, 5%. disseminated pyrites on fractures.
96-72	1500 /824-452	Chip sample across serpentinized dunite with magnetite veinlets.
96-73	16/17-76	Chip sample across silcious siltstone, 5%. disseminated pyrites on fractures. iron stained
96-74	24/25-72	Chip sample across silcious siltstone, 5%. disseminated pyrites on fractures. iron stained

Rock samples were placed in numbered plastic bags and sent to Chemex Laboratories Ltd. in North Vancouver. In the laboratory the samples were crushed and pulverized to minus 150 mesh, then analysed for 24 elements including nickel and chrome. Analysis was by routine ICP methods after digestion in aqua-regia and hydrofluoric acid. The samples were also assayed for gold by atomic absorption after fire assay fusion of a 30g sample.

A partial nickel determination was carried out on a seperate 1.0 gram sample after digestion for 2 hours in nitric - aqua regia acids.This partial extraction is believed to dissolve sulfide held nickel but not silicate or oxide nickel (Appendix 2).

3.2 GEOCHEMICAL RESULTS:

Soil and roch chip sample results are given in Appendix 1 and nickel,chrome and gold values are plotted on figure 5. The results show elevated nickel and chrome values in most of the samples. Nickel values from soil sampling ranged from 43 ppm to 1750 ppm total Ni and 40ppm to 1405 ppm aqua regia soluable Ni. Chrome values range from 17 ppm to 1325 ppm. and gold values range from 5ppb. to 150 ppb. Nickel values from rock chip samples ranged from 4ppm to 2750 ppm for total nickel and 4 ppm to 1865 ppm for aqua regia soluable Ni. Chrome values ranged from 34 ppm to 2030 ppm. and gold up 150 ppb.

Soil and rock sample results are given in Appendix 1. Total nickel / aqua reigia soluable - chrome values are given in Table 2.

Nickel concentrations as determined by aqua-regia extraction suggest that between 33% and 81% of the nickel content of the ultramafic samples may be present as sulfides with an average recovery of 66% by simple acid digestion..

4.0 CONCLUSIONS:

The results of work completed over the Grand Fortune Property during the present program may be summarized as follows:

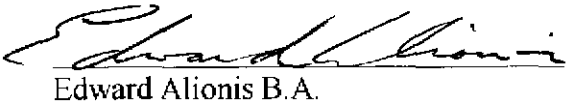
(a) Soil sample results showed nickel and chrome concentrations to be typical of soil development over ultramafic rocks. The results confirm that soil sampling may be effective in tracing the ultramafic body beneath overburden covered areas.

(b) Rock chip sample results showed concentrations of approximately .22% nickel and 0.08% chrome in the ultramafic body. These concentration levels are consistent with values obtained during previous exploration of the property.

(c) Partial extraction studies for nickel, carried out on 60 dunite samples from widely separated locations, show that 66% of the contained nickel can be extracted with a simple aqua-regia leach. These results suggest that the metal is probably held in fine grained sulfides.

(d) Soil sample results failed to confirm the highly anomoulous gold values reported previously by Nitro Resources 1987.

Submitted at Vancouver, B.C.
this 17th day of October , 1996.



Edward Alionis B.A.

5.0 REFERENCES:

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STATEMENT OF QUALIFICATIONS

Edward Alionis

Academic

1979	I am a graduate of the University of Concordia , Montreal Quebec, with a B.A. major in Physical Geography and minor in Geology.

Practical

1978 June - September	Lornex Mines , Logan Lake B.C. - Summer employment on survey crew.
1979 June - 1982-August	Riocanex Inc, Vancouver, B.C. - Geological Technician , involved in all aspects of exploration in B.C. , Yukon and N.W.T.
1982 July - Present	Prospector and Geological contracting in B.C , Yukon and N.W.T.

APPENDIX 1

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: ALIONIS, ED

127 - 1140 CASTLE CRES.
PORT COQUITLAM, BC
V3C 5M4

A9625248

Comments: ATTN: EDWARD ALIONIS CC: ART TROUP

CERTIFICATE A9625248

(NWK) - ALIONIS, ED

Project: EDWARD ALIONIS
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 10-AUG-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201	117	Dry, sieve to -80 mesh
202	117	save reject
229	117	ICP - AQ Digestion charge
232	117	Perchloric-nitric-HF digestion
* NOTE	1:	

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
8	117	Ni ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000
2118	117	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
2119	117	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	117	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	117	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	117	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	117	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	117	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	117	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2126	117	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	117	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	117	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	117	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	117	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	117	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	117	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	117	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	117	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	117	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	117	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	117	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
2138	117	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	117	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	117	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	117	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	117	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	117	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	117	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
2145	117	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	117	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	117	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	117	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	117	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: ALIONIS, ED

127 - 1140 CASTLE CRES.
PORT COQUITLAM, BC
V3C 5M4

Project : EDWARD ALIONIS
Comments: ATTN: EDWARD ALIONIS CC: ART TROUP

Certificate Date: 31-JUL-96
Invoice No. :19625248
P.O. Number :
Account :NWK

CERTIFICATE OF ANALYSIS A9625248

SAMPLE	PREP CODE		Ni ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
1950N+1900E	201	202	300	< 0.2	2.13	8	280	< 0.5	< 2	0.26	< 0.5	15	74	8	1.82	< 10	< 1	0.07	< 10	0.77	710
1950N+1925E	201	202	350	< 0.2	2.76	10	270	< 0.5	< 2	0.33	< 0.5	25	104	10	2.26	< 10	< 1	0.11	< 10	1.70	585
1950N+1950E	201	202	425	< 0.2	2.23	12	250	< 0.5	< 2	0.27	< 0.5	25	149	8	2.29	< 10	< 1	0.07	< 10	1.47	670
1950N+1975E	201	202	340	< 0.2	1.96	14	250	< 0.5	< 2	0.22	< 0.5	19	125	9	1.95	< 10	< 1	0.06	< 10	1.32	425
1950N+2000E	201	202	320	< 0.2	1.87	14	290	< 0.5	< 2	0.29	< 0.5	21	149	6	1.99	< 10	< 1	0.06	< 10	1.24	705
1950N+2025E	201	202	365	< 0.2	1.59	10	150	< 0.5	< 2	0.24	< 0.5	24	280	7	2.42	< 10	< 1	0.06	< 10	2.15	500
1950N+2050E	201	202	345	< 0.2	1.43	8	160	< 0.5	< 2	0.30	< 0.5	28	258	8	2.44	< 10	< 1	0.06	< 10	1.99	605
1950N+2075E	201	202	630	< 0.2	2.18	10	190	< 0.5	< 2	0.27	< 0.5	28	220	7	2.37	< 10	< 1	0.07	< 10	2.20	425
1950N+2100E	201	202	230	< 0.2	2.17	8	220	< 0.5	< 2	0.16	< 0.5	12	97	6	1.50	< 10	< 1	0.07	< 10	0.77	155
1950N+2125E	201	202	172	< 0.2	0.87	6	150	< 0.5	< 2	0.14	< 0.5	10	114	5	1.39	< 10	< 1	0.08	< 10	0.72	390
1950N+2150E	201	202	360	< 0.2	1.99	10	190	< 0.5	< 2	0.28	< 0.5	21	156	6	2.04	< 10	< 1	0.13	< 10	1.23	405
1950N+2175E	201	202	835	< 0.2	2.48	14	220	< 0.5	< 2	0.25	< 0.5	30	386	6	2.26	< 10	< 1	0.07	< 10	3.31	275
1950N+2200E	201	202	415	< 0.2	1.57	10	250	< 0.5	< 2	0.29	< 0.5	31	320	7	2.14	< 10	< 1	0.06	< 10	3.28	595
1950N+2225E	201	202	245	< 0.2	1.82	14	220	< 0.5	< 2	0.28	< 0.5	17	120	7	1.91	< 10	< 1	0.09	< 10	1.04	310
1950N+2250E	201	202	300	< 0.2	0.92	6	100	< 0.5	< 2	0.26	< 0.5	24	261	6	2.46	< 10	< 1	0.08	< 10	1.70	390
1950N+2275E	201	202	230	< 0.2	2.01	10	260	< 0.5	2	0.26	< 0.5	15	103	9	1.84	< 10	< 1	0.07	< 10	1.00	345
1950N+2300E	201	202	250	< 0.2	1.38	10	160	< 0.5	< 2	0.25	< 0.5	13	144	6	2.13	< 10	< 1	0.12	< 10	1.10	290
2000N+1900E	201	202	380	< 0.2	2.25	8	280	< 0.5	< 2	0.27	< 0.5	19	119	7	1.74	< 10	< 1	0.09	< 10	1.15	370
2000N+1925E	201	202	172	< 0.2	2.85	14	220	0.5	< 2	0.13	< 0.5	10	48	7	1.54	< 10	< 1	0.05	< 10	0.38	335
2000N+1950E	201	202	270	< 0.2	3.06	14	220	0.5	< 2	0.25	< 0.5	16	101	9	2.03	< 10	< 1	0.06	< 10	0.94	380
2000N+1975E	201	202	310	< 0.2	2.49	10	200	< 0.5	< 2	0.25	< 0.5	18	100	9	1.89	< 10	< 1	0.08	< 10	1.08	390
2000N+2000E	201	202	380	< 0.2	1.66	12	350	< 0.5	< 2	0.50	< 0.5	21	198	12	1.82	< 10	< 1	0.12	< 10	1.58	1240
2000N+2025E	201	202	380	< 0.2	2.14	12	310	< 0.5	< 2	0.35	< 0.5	19	183	7	1.74	< 10	< 1	0.10	< 10	1.17	1010
2000N+2050E	201	202	1100	< 0.2	2.29	24	100	0.5	< 2	0.29	< 0.5	62	567	11	3.59	< 10	< 1	0.08	< 10	4.85	675
2000N+2075E	201	202	440	< 0.2	2.60	10	250	< 0.5	< 2	0.20	< 0.5	17	174	5	1.79	< 10	< 1	0.09	< 10	1.15	195
2000N+2100E	201	202	370	< 0.2	1.90	12	180	< 0.5	< 2	0.27	< 0.5	21	210	9	2.25	< 10	< 1	0.09	< 10	1.92	320
2000N+2125E	201	202	600	< 0.2	1.26	10	130	< 0.5	< 2	0.32	< 0.5	58	408	8	3.27	< 10	< 1	0.10	< 10	3.40	780
2000N+2150E	201	202	300	< 0.2	1.10	4	210	< 0.5	< 2	0.30	< 0.5	19	188	6	2.15	< 10	< 1	0.09	< 10	1.33	525
2000N+2175E	201	202	196	< 0.2	1.92	12	210	< 0.5	< 2	0.39	< 0.5	14	87	9	1.95	< 10	< 1	0.11	< 10	0.80	320
2000N+2200E	201	202	280	< 0.2	1.98	12	230	< 0.5	< 2	0.30	< 0.5	16	117	9	2.06	< 10	< 1	0.11	< 10	1.03	250
2000N+2225E	201	202	119	< 0.2	1.68	8	250	< 0.5	< 2	0.28	< 0.5	9	55	8	1.35	< 10	< 1	0.09	< 10	0.51	235
2000N+2250E	201	202	104	< 0.2	1.47	8	260	< 0.5	< 2	0.29	< 0.5	8	49	8	1.24	< 10	< 1	0.09	< 10	0.44	250
2000N+2275E	201	202	590	< 0.2	2.13	10	100	< 0.5	< 2	0.33	< 0.5	38	259	8	3.33	< 10	< 1	0.15	< 10	2.43	520
2000N+2300E	201	202	192	< 0.2	2.40	10	170	0.5	< 2	0.36	< 0.5	16	149	10	3.04	< 10	< 1	0.07	< 10	1.20	210
2050N+1900E	201	202	91	< 0.2	2.77	16	370	< 0.5	< 2	0.25	< 0.5	7	41	8	1.39	< 10	< 1	0.06	< 10	0.28	350
2050N+1925E	201	202	610	< 0.2	2.13	12	250	< 0.5	< 2	0.32	< 0.5	27	232	6	1.95	< 10	< 1	0.10	< 10	2.15	340
2050N+1950E	201	202	220	< 0.2	1.03	8	270	< 0.5	< 2	0.41	0.5	16	107	10	1.26	< 10	< 1	0.09	< 10	0.81	450
2050N+1975E	201	202	810	< 0.2	0.74	14	210	< 0.5	< 2	0.33	0.5	99	481	12	3.21	< 10	< 1	0.08	< 10	5.52	1250
2050N+2000E	201	202	1300	< 0.2	2.02	22	180	0.5	< 2	0.20	< 0.5	92	658	11	3.19	< 10	< 1	0.09	< 10	6.73	975
2050N+2025E	201	202	1200	< 0.2	1.22	22	130	< 0.5	< 2	0.19	0.5	101	631	13	3.17	< 10	< 1	0.08	< 10	9.25	1285

CERTIFICATION: Stewart Bradley

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Page Number : 1-B
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Account : NWK

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SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
1950N+1900E	201	202	< 1	0.02	276	580	12	2	2	31	0.09	< 10	< 10	30	< 10	36
1950N+1925E	201	202	< 1	0.01	323	290	6	2	3	37	0.12	< 10	< 10	29	< 10	42
1950N+1950E	201	202	< 1	0.01	379	310	8	2	3	31	0.09	< 10	< 10	34	< 10	38
1950N+1975E	201	202	< 1	0.01	302	450	12	2	1	24	0.08	< 10	< 10	28	< 10	42
1950N+2000E	201	202	< 1	0.02	302	970	8	< 2	1	38	0.09	< 10	< 10	30	< 10	46
1950N+2025E	201	202	< 1	0.01	335	140	6	2	4	29	0.09	< 10	< 10	37	< 10	28
1950N+2050E	201	202	< 1	0.01	310	200	12	2	3	29	0.09	< 10	< 10	40	< 10	32
1950N+2075E	201	202	< 1	0.01	555	370	8	2	3	32	0.09	< 10	< 10	36	< 10	42
1950N+2100E	201	202	< 1	0.03	221	1270	6	2	1	23	0.08	< 10	< 10	21	< 10	28
1950N+2125E	201	202	< 1	0.02	164	340	10	2	1	20	0.06	< 10	< 10	20	< 10	34
1950N+2150E	201	202	< 1	0.02	336	320	6	< 2	3	30	0.10	< 10	< 10	32	< 10	30
1950N+2175E	201	202	< 1	0.02	699	410	8	< 2	4	37	0.08	< 10	< 10	23	< 10	26
1950N+2200E	201	202	< 1	0.01	406	320	10	2	4	36	0.07	< 10	< 10	34	< 10	46
1950N+2225E	201	202	< 1	0.01	227	700	6	2	2	32	0.08	< 10	< 10	35	< 10	32
1950N+2250E	201	202	< 1	0.01	285	230	8	2	3	24	0.08	< 10	< 10	47	< 10	24
1950N+2275E	201	202	< 1	0.03	208	960	6	2	3	37	0.08	< 10	< 10	31	< 10	30
1950N+2300E	201	202	< 1	0.01	208	280	4	2	3	26	0.11	< 10	< 10	43	< 10	28
2000N+1900E	201	202	< 1	0.03	380	540	8	2	2	39	0.09	< 10	< 10	24	< 10	32
2000N+1925E	201	202	< 1	0.02	154	1930	8	2	2	19	0.11	< 10	< 10	23	< 10	42
2000N+1950E	201	202	< 1	0.03	250	820	6	< 2	3	29	0.12	< 10	< 10	35	< 10	36
2000N+1975E	201	202	< 1	0.02	279	580	8	2	2	34	0.11	< 10	< 10	29	< 10	34
2000N+2000E	201	202	< 1	0.03	332	1340	12	< 2	3	56	0.07	< 10	< 10	28	< 10	34
2000N+2025E	201	202	< 1	0.03	317	520	8	2	3	44	0.08	< 10	< 10	21	< 10	28
2000N+2050E	201	202	< 1	< 0.01	878	380	6	2	8	35	0.10	< 10	< 10	44	< 10	32
2000N+2075E	201	202	< 1	0.07	440	660	6	2	2	37	0.10	< 10	< 10	21	< 10	28
2000N+2100E	201	202	< 1	0.04	366	610	10	2	4	33	0.10	< 10	< 10	39	< 10	30
2000N+2125E	201	202	< 1	0.02	580	230	8	2	6	26	0.09	< 10	< 10	46	< 10	30
2000N+2150E	201	202	< 1	0.04	270	270	6	< 2	3	29	0.08	< 10	< 10	35	< 10	26
2000N+2175E	201	202	< 1	0.04	205	1480	6	2	2	42	0.08	< 10	< 10	40	< 10	34
2000N+2200E	201	202	< 1	0.04	268	820	4	2	3	37	0.09	< 10	< 10	36	< 10	30
2000N+2225E	201	202	< 1	0.05	119	1670	4	2	2	42	0.07	< 10	< 10	23	< 10	26
2000N+2250E	201	202	< 1	0.05	99	1440	2	2	1	41	0.06	< 10	< 10	21	< 10	28
2000N+2275E	201	202	< 1	0.03	535	220	2	2	6	31	0.13	< 10	< 10	46	< 10	32
2000N+2300E	201	202	1	0.03	217	270	6	2	4	36	0.16	< 10	< 10	70	< 10	32
2050N+1900E	201	202	< 1	0.06	99	2600	6	2	2	35	0.10	< 10	< 10	19	< 10	38
2050N+1925E	201	202	< 1	0.06	620	590	10	< 2	3	42	0.08	< 10	< 10	21	< 10	28
2050N+1950E	201	202	< 1	0.04	227	360	28	2	1	39	0.05	< 10	< 10	14	< 10	34
2050N+1975E	201	202	< 1	0.02	780	370	24	2	5	34	0.04	< 10	< 10	18	< 10	24
2050N+2000E	201	202	< 1	0.01	1070	280	12	2	8	28	0.07	< 10	< 10	23	< 10	26
2050N+2025E	201	202	< 1	< 0.01	1030	350	14	4	8	23	0.05	< 10	< 10	25	< 10	20

CERTIFICATION:

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SAMPLE	PREP CODE		Ni ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
2050N+2050E	201	202	1150	< 0.2	1.58	24	150	< 0.5	< 2	0.28	0.5	97	872	13	3.44	< 10	< 1	0.07	< 10	9.21	925
2050N+2075E	201	202	510	< 0.2	2.30	10	270	< 0.5	< 2	0.38	< 0.5	31	312	8	2.38	< 10	< 1	0.11	< 10	2.00	350
2050N+2100E	201	202	300	< 0.2	1.02	4	150	< 0.5	< 2	0.16	< 0.5	17	169	5	1.72	< 10	< 1	0.06	< 10	1.22	350
2050N+2125E	201	202	260	< 0.2	2.57	14	230	0.5	< 2	0.36	< 0.5	18	141	10	2.16	< 10	< 1	0.09	< 10	1.00	340
2050N+2150E	201	202	460	< 0.2	1.29	12	210	< 0.5	< 2	0.40	< 0.5	36	289	8	2.78	< 10	< 1	0.11	< 10	2.06	630
2050N+2175E	201	202	230	< 0.2	1.04	6	150	< 0.5	< 2	0.24	< 0.5	12	177	5	2.02	< 10	< 1	0.08	< 10	1.11	290
2050N+2200E	201	202	300	< 0.2	2.01	12	210	< 0.5	< 2	0.36	< 0.5	16	161	10	2.56	< 10	< 1	0.17	< 10	1.47	480
2050N+2225E	201	202	250	< 0.2	1.74	8	190	< 0.5	< 2	0.35	< 0.5	18	138	8	2.55	< 10	< 1	0.09	< 10	1.17	565
2050N+2250E	201	202	360	< 0.2	2.18	12	170	< 0.5	< 2	0.35	< 0.5	26	157	8	2.44	< 10	< 1	0.12	< 10	1.65	390
2050N+2275E	201	202	460	< 0.2	1.33	8	250	< 0.5	< 2	0.34	< 0.5	32	248	7	2.66	< 10	< 1	0.08	< 10	2.06	545
2050N+2300E	201	202	260	< 0.2	1.81	10	180	< 0.5	< 2	0.33	< 0.5	18	141	9	2.62	< 10	< 1	0.08	< 10	1.21	460
2100N+1900E	201	202	710	< 0.2	0.71	8	190	< 0.5	< 2	0.41	0.5	75	557	13	2.78	< 10	< 1	0.08	< 10	5.39	740
2100N+1925E	201	202	1600	< 0.2	0.90	22	110	< 0.5	< 2	0.20	< 0.5	121	1000	9	4.48	< 10	< 1	0.07	< 10	10.25	1080
2100N+1950E	201	202	1600	0.2	1.10	22	80	< 0.5	< 2	0.27	0.5	121	993	11	3.83	< 10	< 1	0.06	< 10	11.25	945
2100N+1975E	201	202	1750	< 0.2	2.32	18	130	0.5	< 2	0.23	0.5	92	672	12	3.40	< 10	< 1	0.07	< 10	7.27	655
2100N+2000E	201	202	770	< 0.2	1.88	12	220	< 0.5	< 2	0.44	0.5	62	453	11	2.92	< 10	< 1	0.09	< 10	4.65	850
2100N+2025E	201	202	890	< 0.2	2.56	10	140	< 0.5	< 2	0.23	< 0.5	54	463	7	2.99	< 10	< 1	0.06	< 10	4.31	405
2100N+2050E	201	202	1000	< 0.2	1.90	16	150	< 0.5	< 2	0.29	< 0.5	107	567	9	3.47	< 10	< 1	0.08	< 10	6.49	1090
2100N+2075E	201	202	260	< 0.2	0.54	2	180	< 0.5	< 2	0.25	< 0.5	19	164	5	1.72	< 10	< 1	0.06	< 10	1.24	355
2100N+2100E	201	202	70	< 0.2	2.03	10	180	< 0.5	< 2	0.11	< 0.5	6	27	5	1.28	< 10	< 1	0.05	< 10	0.19	240
2100N+2125E	201	202	550	< 0.2	2.08	10	140	< 0.5	< 2	0.30	< 0.5	30	315	6	2.30	< 10	< 1	0.09	< 10	2.84	315
2100N+2150E	201	202	250	< 0.2	1.23	8	140	< 0.5	< 2	0.32	< 0.5	16	184	5	2.23	< 10	< 1	0.08	< 10	1.22	510
2100N+2175E	201	202	310	< 0.2	1.99	12	340	< 0.5	< 2	0.30	< 0.5	15	108	7	1.72	< 10	< 1	0.14	< 10	0.83	430
2100N+2200E	201	202	245	< 0.2	1.72	8	130	< 0.5	< 2	0.31	< 0.5	15	141	8	2.17	< 10	< 1	0.10	< 10	1.25	290
2100N+2225E	201	202	180	< 0.2	1.43	10	400	< 0.5	< 2	0.26	< 0.5	11	65	7	1.41	< 10	< 1	0.10	< 10	0.53	490
2100N+2250E	201	202	310	< 0.2	1.81	10	250	< 0.5	< 2	0.25	< 0.5	14	127	5	1.56	< 10	< 1	0.10	< 10	1.01	265
2100N+2275E	201	202	270	< 0.2	1.89	6	310	< 0.5	< 2	0.31	< 0.5	15	106	7	1.68	< 10	< 1	0.10	< 10	1.03	370
2100N+2300E	201	202	137	< 0.2	2.30	12	210	< 0.5	< 2	0.24	< 0.5	9	54	8	1.72	< 10	< 1	0.08	< 10	0.48	170
2150N+1900E	201	202	350	< 0.2	1.03	10	280	< 0.5	< 2	0.38	0.5	31	211	9	2.18	< 10	< 1	0.07	< 10	1.84	635
2150N+1925E	201	202	390	< 0.2	0.58	8	360	< 0.5	< 2	0.78	0.5	46	227	16	1.85	< 10	< 1	0.08	< 10	2.09	905
2150N+1950E	201	202	1700	< 0.2	0.89	26	80	< 0.5	< 2	0.17	0.5	135	1325	11	4.13	< 10	< 1	0.06	< 10	14.20	1050
2150N+1975E	201	202	695	< 0.2	3.04	12	220	< 0.5	< 2	0.34	< 0.5	35	251	8	2.59	< 10	< 1	0.06	< 10	2.33	320
2150N+2000E	201	202	440	< 0.2	1.23	8	150	< 0.5	< 2	0.31	0.5	29	264	10	2.62	< 10	< 1	0.16	< 10	2.10	495
2150N+2025E	201	202	690	< 0.2	1.57	24	300	< 0.5	< 2	0.68	2.0	79	653	18	3.08	< 10	< 1	0.12	< 10	4.93	1380
2150N+2050E	201	202	810	0.2	2.97	18	130	< 0.5	< 2	0.29	< 0.5	46	564	7	3.04	< 10	< 1	0.06	< 10	3.86	305
2150N+2075E	201	202	490	< 0.2	1.37	8	180	< 0.5	< 2	0.29	< 0.5	34	485	6	2.75	< 10	< 1	0.09	< 10	2.79	475
2150N+2100E	201	202	660	< 0.2	1.59	22	130	< 0.5	< 2	0.39	< 0.5	38	459	16	3.47	< 10	< 1	0.14	< 10	5.55	635
2150N+2125E	201	202	280	< 0.2	1.38	6	170	< 0.5	< 2	0.17	< 0.5	13	118	6	1.53	< 10	< 1	0.09	< 10	1.24	330
2150N+2150E	201	202	310	< 0.2	1.11	8	100	< 0.5	< 2	0.15	< 0.5	14	161	4	1.73	< 10	< 1	0.07	< 10	1.34	230
2150N+2175E	201	202	650	< 0.2	1.38	14	260	< 0.5	< 2	0.51	< 0.5	43	422	6	2.72	< 10	< 1	0.09	< 10	3.05	815

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: ALIONIS, ED

127 - 1140 CASTLE CRES.
PORT COQUITLAM, BC
V3C 5M4

Project : EDWARD ALIONIS
Comments: ATTN: EDWARD ALIONIS CC: ART TROUP

Page Number :2-B
Total Pages :3
Certificate Date: 31-JUL-96
Invoice No. :I9625248
P.O. Number :
Account :NWK

CERTIFICATE OF ANALYSIS A9625248

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
2050N+2050E	201	202	< 1	< 0.01	1000	380	8	4	8	34	0.05	< 10	< 10	20	< 10	18
2050N+2075E	201	202	< 1	0.04	504	680	10	2	3	46	0.09	< 10	< 10	19	< 10	36
2050N+2100E	201	202	< 1	0.03	294	190	10	< 2	1	23	0.06	< 10	< 10	24	< 10	32
2050N+2125E	201	202	< 1	0.05	276	970	6	2	3	45	0.15	< 10	< 10	41	< 10	40
2050N+2150E	201	202	< 1	0.02	417	280	14	2	4	38	0.08	< 10	< 10	34	< 10	30
2050N+2175E	201	202	< 1	0.03	207	180	6	2	2	23	0.10	< 10	< 10	39	< 10	26
2050N+2200E	201	202	< 1	0.03	275	530	10	2	4	32	0.11	< 10	< 10	45	< 10	38
2050N+2225E	201	202	< 1	0.03	255	230	8	2	3	34	0.13	< 10	< 10	55	< 10	30
2050N+2250E	201	202	< 1	0.03	323	250	10	2	4	38	0.10	< 10	< 10	24	< 10	30
2050N+2275E	201	202	< 1	0.04	446	240	12	2	3	41	0.07	< 10	< 10	23	< 10	32
2050N+2300E	201	202	< 1	0.02	265	220	8	2	3	34	0.13	< 10	< 10	58	< 10	32
2100N+1900E	201	202	< 1	0.03	709	340	22	2	5	42	0.04	< 10	< 10	19	< 10	36
2100N+1925E	201	202	< 1	< 0.01	1225	250	10	2	8	24	0.04	< 10	< 10	22	< 10	20
2100N+1950E	201	202	< 1	< 0.01	1250	270	10	4	8	28	0.04	< 10	< 10	21	< 10	16
2100N+1975E	201	202	< 1	0.01	1405	310	10	2	7	29	0.09	< 10	< 10	30	< 10	32
2100N+2000E	201	202	< 1	0.02	762	400	22	2	5	48	0.07	< 10	< 10	23	< 10	40
2100N+2025E	201	202	< 1	0.01	824	260	10	2	6	30	0.10	< 10	< 10	31	< 10	30
2100N+2050E	201	202	< 1	0.02	908	250	8	2	7	28	0.07	< 10	< 10	22	< 10	26
2100N+2075E	201	202	< 1	0.04	253	360	6	< 2	1	24	0.04	< 10	< 10	14	< 10	22
2100N+2100E	201	202	< 1	0.05	67	1590	8	< 2	1	13	0.08	< 10	< 10	20	< 10	46
2100N+2125E	201	202	< 1	0.04	520	290	10	2	4	37	0.09	< 10	< 10	24	< 10	26
2100N+2150E	201	202	< 1	0.03	239	230	8	< 2	2	30	0.10	< 10	< 10	39	< 10	28
2100N+2175E	201	202	< 1	0.04	288	890	8	2	3	40	0.09	< 10	< 10	25	< 10	46
2100N+2200E	201	202	< 1	0.03	233	200	2	2	3	32	0.12	< 10	< 10	43	< 10	30
2100N+2225E	201	202	< 1	0.04	193	2050	8	2	1	45	0.08	< 10	< 10	23	< 10	92
2100N+2250E	201	202	< 1	0.06	342	1160	8	2	2	37	0.09	< 10	< 10	20	< 10	42
2100N+2275E	201	202	< 1	0.06	315	880	12	2	2	44	0.09	< 10	< 10	25	< 10	46
2100N+2300E	201	202	< 1	0.04	145	960	8	2	1	28	0.11	< 10	< 10	33	< 10	32
2150N+1900E	201	202	< 1	0.05	372	280	24	2	2	40	0.07	< 10	< 10	26	< 10	48
2150N+1925E	201	202	< 1	0.05	404	490	40	< 2	3	75	0.05	< 10	< 10	21	< 10	56
2150N+1950E	201	202	< 1	< 0.01	1400	290	16	2	8	21	0.03	< 10	< 10	19	< 10	34
2150N+1975E	201	202	< 1	0.03	686	190	10	2	3	43	0.12	< 10	< 10	35	< 10	48
2150N+2000E	201	202	< 1	0.02	481	250	20	2	4	35	0.10	< 10	< 10	44	< 10	64
2150N+2025E	201	202	< 1	0.03	785	700	68	2	4	62	0.06	< 10	< 10	24	< 10	98
2150N+2050E	201	202	< 1	0.04	794	170	8	2	4	38	0.11	< 10	< 10	29	< 10	40
2150N+2075E	201	202	< 1	0.04	501	330	8	2	3	36	0.06	< 10	< 10	17	< 10	38
2150N+2100E	201	202	< 1	0.01	575	280	10	6	7	36	0.10	< 10	< 10	66	< 10	38
2150N+2125E	201	202	< 1	0.02	183	220	6	< 2	1	21	0.06	< 10	< 10	20	< 10	26
2150N+2150E	201	202	< 1	0.03	225	180	4	< 2	1	18	0.06	< 10	< 10	24	< 10	20
2150N+2175E	201	202	< 1	0.03	620	560	12	2	4	62	0.05	< 10	< 10	22	< 10	48

CERTIFICATION: Ian Bucholz

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
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To: ALIONIS, ED

127 - 1140 CASTLE CRES.
PORT COQUITLAM, BC
V3C 5M4

Project : EDWARD ALIONIS
Comments: ATTN: EDWARD ALIONIS CC: ART TROUP

Page Number :3-A
Total Pages :3
Certificate Date: 31-JUL-96
Invoice No. :I9625248
P.O. Number :
Account :NWK

CERTIFICATE OF ANALYSIS A9625248

SAMPLE	PREP CODE		Ni ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
2150N+2200E	201	202	395	< 0.2	1.48	8	300	< 0.5	< 2	0.21	< 0.5	16	143	6	1.53	< 10	< 1	0.09	< 10	1.09	250
2150N+2225E	201	202	685	< 0.2	1.45	14	540	< 0.5	< 2	0.50	0.5	56	305	14	2.07	< 10	< 1	0.08	< 10	2.52	1795
2150N+2250E	201	202	220	< 0.2	1.18	10	300	< 0.5	< 2	0.19	< 0.5	15	50	5	1.31	< 10	< 1	0.07	< 10	0.58	520
2150N+2275E	201	202	250	< 0.2	2.07	8	170	< 0.5	< 2	0.23	< 0.5	18	127	8	2.43	< 10	< 1	0.07	< 10	1.18	395
2150N+2300E	201	202	720	< 0.2	1.92	12	240	< 0.5	< 2	0.46	< 0.5	54	142	10	2.12	< 10	< 1	0.07	< 10	2.23	800
2200N+1900E	201	202	360	< 0.2	2.48	12	310	< 0.5	< 2	0.17	< 0.5	17	126	5	1.70	< 10	< 1	0.05	< 10	1.11	220
2200N+1925E	201	202	300	< 0.2	2.15	10	210	< 0.5	< 2	0.21	< 0.5	17	165	6	1.89	< 10	< 1	0.07	< 10	1.26	190
2200N+1950E	201	202	450	< 0.2	2.21	10	160	< 0.5	< 2	0.25	< 0.5	33	340	6	2.37	< 10	< 1	0.08	< 10	2.18	380
2200N+1975E	201	202	490	< 0.2	1.77	10	180	< 0.5	< 2	0.30	< 0.5	30	341	5	2.09	< 10	< 1	0.07	< 10	2.37	430
2200N+2000E	201	202	360	< 0.2	1.62	10	250	< 0.5	< 2	0.26	< 0.5	26	239	5	2.14	< 10	< 1	0.05	< 10	1.71	530
2200N+2025E	201	202	170	< 0.2	2.21	6	220	< 0.5	< 2	0.17	< 0.5	10	76	5	1.24	< 10	< 1	0.06	< 10	0.45	190
2200N+2050E	201	202	43	< 0.2	2.58	16	230	< 0.5	< 2	0.18	< 0.5	4	17	9	1.05	< 10	< 1	0.05	< 10	0.12	150
2200N+2075E	201	202	310	< 0.2	1.25	12	60	< 0.5	< 2	0.38	< 0.5	20	184	18	3.16	< 10	< 1	0.12	< 10	1.88	270
2200N+2100E	201	202	178	< 0.2	1.21	4	190	< 0.5	< 2	0.19	< 0.5	11	97	5	1.43	< 10	< 1	0.08	< 10	0.66	410
2200N+2125E	201	202	265	< 0.2	1.90	10	150	< 0.5	< 2	0.26	< 0.5	20	189	9	2.27	< 10	< 1	0.09	< 10	1.56	295
2200N+2150E	201	202	260	< 0.2	1.39	10	280	< 0.5	< 2	0.32	< 0.5	17	156	8	1.43	< 10	< 1	0.08	< 10	1.33	770
2200N+2175E	201	202	420	< 0.2	1.66	8	280	< 0.5	< 2	0.45	< 0.5	26	254	11	2.08	< 10	< 1	0.07	< 10	2.47	670
2200N+2200E	201	202	300	< 0.2	1.30	8	80	< 0.5	< 2	0.28	< 0.5	19	245	5	2.24	< 10	< 1	0.10	< 10	1.54	210
2200N+2225E	201	202	290	< 0.2	2.24	16	220	< 0.5	2	0.21	< 0.5	13	109	7	1.73	< 10	< 1	0.08	< 10	0.82	300
2200N+2250E	201	202	132	< 0.2	2.00	16	240	< 0.5	< 2	0.20	< 0.5	9	37	6	1.44	< 10	< 1	0.07	< 10	0.35	355
2200N+2275E	201	202	180	< 0.2	2.16	14	250	< 0.5	< 2	0.22	< 0.5	13	90	8	1.98	< 10	< 1	0.07	< 10	0.74	300
2200N+2300E	201	202	325	< 0.2	1.52	10	90	< 0.5	< 2	0.39	< 0.5	20	201	10	2.93	< 10	< 1	0.09	< 10	1.79	245
2075N+2100	201	202	106	< 0.2	2.20	14	340	< 0.5	2	0.14	< 0.5	9	46	8	1.45	< 10	< 1	0.06	< 10	0.32	435
2125N+2100E	201	202	84	< 0.2	2.05	14	330	< 0.5	< 2	0.19	< 0.5	9	66	8	1.64	< 10	< 1	0.06	< 10	0.32	590
2175N+2100E	201	202	138	< 0.2	1.92	10	190	< 0.5	< 2	0.19	< 0.5	12	69	7	1.89	< 10	< 1	0.06	< 10	0.49	235
S-1 (TRENCH)	201	202	420	< 0.2	2.09	16	120	< 0.5	< 2	0.41	< 0.5	22	192	20	3.16	< 10	< 1	0.11	< 10	2.00	500
S-2 (TRENCH)	201	202	470	< 0.2	1.83	12	110	< 0.5	< 2	0.38	< 0.5	28	202	18	2.91	< 10	< 1	0.09	< 10	1.80	600
S-3 (TRENCH)	201	202	420	< 0.2	2.30	18	170	< 0.5	< 2	0.43	< 0.5	17	171	17	2.90	< 10	< 1	0.09	< 10	1.98	365
S-4 (600-E)	201	202	124	< 0.2	2.25	16	240	< 0.5	< 2	0.30	< 0.5	13	62	11	2.10	< 10	< 1	0.09	< 10	0.57	535
S-5 (550-E)	201	202	144	< 0.2	2.00	14	240	< 0.5	< 2	0.35	< 0.5	12	75	12	2.84	< 10	< 1	0.16	< 10	0.69	785
S-6 (500-E)	201	202	245	< 0.2	2.02	18	140	< 0.5	< 2	0.33	< 0.5	14	64	13	1.82	< 10	< 1	0.09	< 10	0.78	440
S-7 (450-E)	201	202	365	< 0.2	1.44	10	210	< 0.5	2	0.26	< 0.5	19	73	12	1.87	< 10	< 1	0.09	< 10	0.52	690
S-8 (400-E)	201	202	138	< 0.2	1.55	10	260	< 0.5	< 2	0.26	< 0.5	11	67	9	2.14	< 10	< 1	0.07	< 10	0.65	835
S-9 (350-E)	201	202	160	< 0.2	2.34	16	280	0.5	2	0.81	1.0	16	82	19	3.32	< 10	< 1	0.24	< 10	0.74	1515
S-10 (300-E)	201	202	144	< 0.2	1.92	14	210	< 0.5	< 2	0.40	< 0.5	12	80	16	2.52	< 10	< 1	0.22	< 10	0.66	745
S-11 (TRENCH)	201	202	860	< 0.2	2.59	20	140	0.5	< 2	0.48	< 0.5	37	215	25	4.21	< 10	< 1	0.24	< 10	3.34	815
S-12 (TRENCH)	201	202	920	< 0.2	2.32	18	140	0.5	< 2	0.42	< 0.5	38	203	26	3.85	< 10	< 1	0.19	< 10	2.86	780

CERTIFICATION:

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2150N+2200E	201	202	< 1	0.05	388	1270	8	2	2	33	0.06	< 10	< 10	18	< 10	52
2150N+2225E	201	202	< 1	0.03	600	710	24	2	3	68	0.05	< 10	< 10	20	< 10	46
2150N+2250E	201	202	< 1	0.04	202	960	14	< 2	1	24	0.05	< 10	< 10	19	< 10	58
2150N+2275E	201	202	< 1	0.01	253	400	8	< 2	3	25	0.11	< 10	< 10	51	< 10	38
2150N+2300E	201	202	< 1	0.03	691	630	8	2	4	58	0.06	< 10	< 10	31	< 10	42
2200N+1900E	201	202	< 1	0.03	322	200	6	2	1	26	0.08	< 10	< 10	24	< 10	30
2200N+1925E	201	202	< 1	0.04	300	190	6	< 2	2	27	0.09	< 10	< 10	29	< 10	34
2200N+1950E	201	202	< 1	0.03	515	240	10	2	3	31	0.09	< 10	< 10	28	< 10	38
2200N+1975E	201	202	< 1	0.03	478	570	10	2	2	35	0.07	< 10	< 10	27	< 10	50
2200N+2000E	201	202	< 1	0.03	359	290	6	2	3	31	0.08	< 10	< 10	31	< 10	46
2200N+2025E	201	202	< 1	0.06	176	1890	6	< 2	1	27	0.08	< 10	< 10	18	< 10	38
2200N+2050E	201	202	< 1	0.08	40	830	2	2	2	29	0.09	< 10	< 10	15	< 10	24
2200N+2075E	201	202	< 1	0.03	342	470	4	2	5	32	0.10	< 10	< 10	81	< 10	32
2200N+2100E	201	202	< 1	0.04	170	440	2	< 2	1	23	0.07	< 10	< 10	25	< 10	28
2200N+2125E	201	202	< 1	0.03	276	960	4	2	4	33	0.10	< 10	< 10	42	< 10	32
2200N+2150E	201	202	< 1	0.03	228	570	20	2	2	45	0.06	< 10	< 10	21	< 10	32
2200N+2175E	201	202	< 1	0.02	358	390	6	< 2	3	61	0.08	< 10	< 10	30	< 10	34
2200N+2200E	201	202	< 1	0.02	279	190	4	2	3	25	0.09	< 10	< 10	39	< 10	20
2200N+2225E	201	202	< 1	0.04	281	1100	8	2	1	27	0.09	< 10	< 10	29	< 10	42
2200N+2250E	201	202	< 1	0.04	123	1590	8	< 2	1	24	0.07	< 10	< 10	25	< 10	38
2200N+2275E	201	202	< 1	0.04	190	1150	6	2	2	28	0.10	< 10	< 10	40	< 10	42
2200N+2300E	201	202	< 1	0.02	356	290	2	< 2	4	29	0.15	< 10	< 10	72	< 10	34
2075N+2100	201	202	< 1	0.05	109	2300	6	2	1	21	0.08	< 10	< 10	23	< 10	42
2125N+2100E	201	202	< 1	0.03	80	2980	6	< 2	2	26	0.07	< 10	< 10	28	< 10	52
2175N+2100E	201	202	< 1	0.03	139	1740	6	< 2	1	23	0.08	< 10	< 10	38	< 10	34
S-1 (TRENCH)	201	202	< 1	0.01	445	1300	6	2	6	44	0.08	< 10	< 10	62	< 10	44
S-2 (TRENCH)	201	202	< 1	0.02	437	1220	8	2	5	39	0.07	< 10	< 10	51	< 10	46
S-3 (TRENCH)	201	202	< 1	0.02	443	1380	2	2	5	50	0.09	< 10	< 10	55	< 10	42
S-4 (600-E)	201	202	< 1	0.04	133	2380	10	2	2	47	0.09	< 10	< 10	38	< 10	76
S-5 (550-E)	201	202	1	0.02	134	670	16	2	4	47	0.08	< 10	< 10	51	< 10	90
S-6 (500-E)	201	202	< 1	0.05	252	920	10	2	3	50	0.08	< 10	< 10	31	< 10	50
S-7 (450-E)	201	202	< 1	0.04	255	1030	12	2	2	53	0.06	< 10	< 10	26	< 10	70
S-8 (400-E)	201	202	< 1	0.03	131	1100	6	< 2	2	45	0.07	< 10	< 10	45	< 10	70
S-9 (350-E)	201	202	1	0.01	143	2380	54	4	4	116	0.09	< 10	< 10	64	< 10	164
S-10 (300-E)	201	202	< 1	0.03	130	480	16	2	4	45	0.12	< 10	< 10	53	< 10	66
S-11 (TRENCH)	201	202	< 1	0.03	691	660	14	2	9	44	0.14	< 10	< 10	71	< 10	52
S-12 (TRENCH)	201	202	< 1	0.02	724	490	14	2	8	42	0.13	< 10	< 10	67	< 10	48

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: ALIONIS, ED

127 - 1140 CASTLE CRES.
PORT COQUITLAM, BC
V3C 5M4

A9633973

Comments: ATTN: EDWARD ALIONIS CC: ART TROUP

CERTIFICATE A9633973

(NWK) - ALIONIS, ED

Project: EDWARD ALIONIS
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 3-OCT-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	116	Pulp; prev. prepared at Chemex

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	116	Au ppb: Fuse 30 g sample	FA-AAS	5	10000

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To: ALIONIS, ED

127 - 1140 CASTLE CRES.
PORT COQUITLAM, BC
V3C 5M4

Project : EDWARD ALIONIS
Comments: ATTN: EDWARD ALIONIS CC: ART TROUP

Page Number :1
Total Pages :3
Certificate Date: 03-OCT-96
Invoice No. : I9633973
P.O. Number :
Account :NWK

CERTIFICATE OF ANALYSIS A9633973

SAMPLE	PREP CODE		Au ppb FA+AA
1950N+1900E	244	--	< 5
1950N+1925E	244	--	< 5
1950N+1950E	244	--	< 5
1950N+1975E	244	--	< 5
1950N+2000E	244	--	60
1950N+2025E	244	--	< 5
1950N+2050E	244	--	< 5
1950N+2075E	244	--	< 5
1950N+2100E	244	--	< 5
1950N+2125E	244	--	< 5
1950N+2150E	244	--	20
1950N+2175E	244	--	< 5
1950N+2200E	244	--	< 5
1950N+2225E	244	--	< 5
1950N+2250E	244	--	5
1950N+2275E	244	--	< 5
1950N+2300E	244	--	10
2000N+1900E	244	--	< 5
2000N+1925E	244	--	< 5
2000N+1950E	244	--	< 5
2000N+1975E	244	--	< 5
2000N+2000E	244	--	< 5
2000N+2025E	244	--	< 5
2000N+2050E	244	--	< 5
2000N+2075E	244	--	< 5
2000N+2100E	244	--	< 5
2000N+2125E	244	--	15
2000N+2150E	244	--	10
2000N+2175E	244	--	< 5
2000N+2200E	244	--	< 5
2000N+2225E	244	--	< 5
2000N+2250E	244	--	< 5
2000N+2275E	244	--	< 5
2000N+2300E	244	--	15
2050N+1900E	244	--	< 5
2050N+1925E	244	--	< 5
2050N+1950E	244	--	< 5
2050N+1975E	--	--	not/ss
2050N+2000E	244	--	< 5
2050N+2025E	244	--	5

CERTIFICATION:

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CERTIFICATE OF ANALYSIS A9633973

SAMPLE	PREP CODE	Au ppb FA+AA
2050N+2050E	244 --	< 5
2050N+2075E	244 --	< 5
2050N+2100E	244 --	< 5
2050N+2125E	244 --	25
2050N+2150E	244 --	10
2050N+2175E	244 --	< 5
2050N+2200E	244 --	< 5
2050N+2225E	244 --	< 5
2050N+2250E	244 --	< 5
2050N+2275E	244 --	55
2050N+2300E	244 --	5
2100N+1900E	244 --	< 5
2100N+1925E	244 --	< 5
2100N+1950E	244 --	< 5
2100N+1975E	244 --	< 5
2100N+2000E	244 --	150
2100N+2025E	244 --	< 5
2100N+2050E	244 --	60
2100N+2075E	244 --	< 5
2100N+2100E	244 --	< 5
2100N+2125E	244 --	15
2100N+2150E	244 --	< 5
2100N+2175E	244 --	< 5
2100N+2200E	244 --	< 5
2100N+2225E	244 --	< 5
2100N+2250E	244 --	< 5
2100N+2275E	244 --	< 5
2100N+2300E	244 --	< 5
2150N+1900E	244 --	< 5
2150N+1925E	244 --	< 5
2150N+1950E	244 --	< 5
2150N+1975E	244 --	< 5
2150N+2000E	244 --	< 5
2150N+2025E	244 --	< 5
2150N+2050E	244 --	< 5
2150N+2075E	244 --	< 5
2150N+2100E	244 --	< 5
2150N+2125E	244 --	< 5
2150N+2150E	244 --	< 5
2150N+2175E	244 --	< 5

CERTIFICATION: Mark Vonk

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Invoice No. : I9633973
P.O. Number :
Account : NWK

CERTIFICATE OF ANALYSIS A9633973

SAMPLE	PREP CODE	Au ppb FA+AA
2150N+2200E	244 --	< 5
2150N+2225E	244 --	< 5
2150N+2250E	244 --	< 5
2150N+2275E	244 --	< 5
2150N+2300E	244 --	< 5
2200N+1900E	244 --	< 5
2200N+1925E	244 --	< 5
2200N+1950E	244 --	< 5
2200N+1975E	244 --	< 5
2200N+2000E	244 --	< 5
2200N+2025E	244 --	< 5
2200N+2050E	244 --	< 5
2200N+2075E	244 --	< 5
2200N+2100E	244 --	< 5
2200N+2125E	244 --	< 5
2200N+2150E	244 --	< 5
2200N+2175E	244 --	5
2200N+2200E	244 --	< 5
2200N+2225E	244 --	< 5
2200N+2250E	244 --	< 5
2200N+2275E	244 --	< 5
2200N+2300E	244 --	70
2075N+2100	244 --	< 5
2125N+2100E	244 --	< 5
2175N+2100E	244 --	< 5
S-1 (TRENCH)	244 --	< 5
S-2 (TRENCH)	244 --	< 5
S-3 (TRENCH)	244 --	< 5
S-4 (600-E)	244 --	< 5
S-5 (550-E)	244 --	5
S-6 (500-E)	244 --	< 5
S-7 (450-E)	244 --	< 5
S-8 (400-E)	244 --	< 5
S-9 (350-E)	244 --	< 5
S-10 (300-E)	244 --	< 5
S-11 (TRENCH)	244 --	< 5
S-12 (TRENCH)	244 --	< 5

CERTIFICATION: Frank Vecsei

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British Columbia, Canada V7J 2C1
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To: ALIONIS, ED

127 - 1140 CASTLE CRES.
PORT COQUITLAM, BC
V3C 5M4

A9625237

Comments: ATTN: ED ALIONIS CC: ART TROUP

CERTIFICATE A9625237

(NWK) - ALIONIS, ED

Project: EDWARD ALIONIS
P.O. #: 0

Samples submitted to our lab in Vancouver, BC.
This report was printed on 31-JUL-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	74	Geochem ring to approx 150 mesh
226	74	0-3 Kg crush and split
3202	74	Rock - save entire reject
229	74	ICP - AQ Digestion charge
232	74	Perchloric-nitric-HF digestion

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	18	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
2118	74	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
2119	74	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	74	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	74	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	74	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	74	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	74	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	74	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2126	74	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	74	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	74	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	74	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	74	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	74	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	74	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	74	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	74	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	74	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	74	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	74	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
2138	74	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	74	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	74	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	74	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	74	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	74	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	74	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
2145	74	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	74	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	74	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	74	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	74	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000
8	74	Ni ppm: HNO3-aqua regia digest	AAS-BKGD CORR	1	10000

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: ALIONIS, ED **

127 - 1140 CASTLE CRES.
PORT COQUITLAM, BC
V3C 5M4

Project : EDWARD ALIONIS
Comments: ATTN: ED ALIONIS CC: ART TROUP

Page Number :1-A
Total Pages :2
Certificate Date: 31-JUL-96
Invoice No. :19625237
P.O. Number :0
Account :NWK

CERTIFICATE OF ANALYSIS A9625237

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
96-01	205	226	-----	< 0.2	0.15	26	< 10	< 0.5	2	0.05	< 0.5	72	638	7	4.18	10	< 1	< 0.01	< 10	13.45	420
96-02	205	226	-----	< 0.2	0.04	80	< 10	< 0.5	2	0.05	< 0.5	71	276	8	4.39	< 10	< 1	< 0.01	< 10	12.85	540
96-03	205	226	-----	< 0.2	0.08	28	< 10	< 0.5	2	0.08	< 0.5	74	789	7	3.73	< 10	< 1	< 0.01	< 10	14.25	580
96-04	205	226	-----	< 0.2	0.15	30	< 10	< 0.5	2	0.05	< 0.5	73	1190	5	3.29	< 10	< 1	< 0.01	< 10	13.35	400
96-05	205	226	-----	< 0.2	1.52	20	20	< 0.5	2	1.12	< 0.5	54	646	24	3.08	10	< 1	< 0.01	< 10	12.30	600
96-06	205	226	-----	< 0.2	0.08	26	< 10	< 0.5	2	0.16	< 0.5	68	634	6	3.79	10	< 1	< 0.01	< 10	13.70	470
96-07	205	226	-----	< 0.2	0.19	14	20	< 0.5	2	0.04	< 0.5	72	2030	1	5.32	10	< 1	< 0.01	< 10	14.35	400
96-08	205	226	-----	< 0.2	0.09	14	10	< 0.5	2	0.10	< 0.5	64	529	4	3.76	< 10	< 1	< 0.01	< 10	12.95	310
96-09	205	226	-----	< 0.2	0.13	6	< 10	< 0.5	< 2	3.10	< 0.5	51	409	1	3.35	< 10	< 1	< 0.01	< 10	12.25	375
96-10	205	226	-----	< 0.2	0.03	32	< 10	< 0.5	2	0.16	< 0.5	76	545	6	4.73	10	< 1	< 0.01	< 10	>15.00	640
96-11	205	226	-----	0.2	0.12	64	< 10	< 0.5	2	0.41	< 0.5	75	1400	6	4.63	10	< 1	0.03	< 10	14.65	655
96-12	205	226	-----	< 0.2	0.11	48	< 10	< 0.5	< 2	0.22	< 0.5	68	1235	2	4.11	10	< 1	< 0.01	< 10	14.50	545
96-13	205	226	-----	< 0.2	0.10	8	10	< 0.5	2	0.08	< 0.5	46	525	1	3.88	< 10	< 1	< 0.01	< 10	10.75	580
96-14	205	226	-----	< 0.2	0.08	20	10	< 0.5	2	0.10	< 0.5	66	656	3	4.39	< 10	< 1	< 0.01	< 10	13.85	435
96-15	205	226	-----	< 0.2	0.14	24	< 10	< 0.5	2	< 0.01	< 0.5	54	397	< 1	3.38	10	< 1	< 0.01	< 10	14.40	285
96-16	205	226	-----	< 0.2	0.04	26	< 10	< 0.5	2	0.06	< 0.5	77	476	3	4.99	< 10	< 1	< 0.01	< 10	13.50	625
96-17	205	226	-----	< 0.2	0.20	10	< 10	< 0.5	2	< 0.01	< 0.5	59	425	1	3.76	< 10	< 1	< 0.01	< 10	13.00	435
96-18	205	226	-----	< 0.2	0.08	12	< 10	< 0.5	4	0.01	< 0.5	72	586	2	4.33	10	< 1	< 0.01	< 10	14.15	570
96-19	205	226	-----	< 0.2	0.11	16	< 10	< 0.5	2	0.09	< 0.5	67	524	2	4.12	10	< 1	< 0.01	< 10	14.45	485
96-20	205	226	-----	0.2	0.15	10	< 10	< 0.5	2	< 0.01	< 0.5	74	583	1	4.58	10	< 1	< 0.01	< 10	14.30	600
96-21	205	226	-----	< 0.2	0.13	8	< 10	< 0.5	2	0.02	< 0.5	72	703	4	4.37	10	< 1	< 0.01	< 10	14.95	570
96-22	205	226	< 5	< 0.2	0.09	14	< 10	< 0.5	6	0.16	< 0.5	76	471	4	3.38	10	< 1	< 0.01	< 10	>15.00	565
96-23	205	226	-----	< 0.2	0.16	4	20	< 0.5	< 2	0.66	< 0.5	51	877	3	3.61	< 10	< 1	< 0.01	< 10	10.80	490
96-24	205	226	-----	< 0.2	0.13	2	< 10	< 0.5	2	0.12	< 0.5	50	835	5	3.75	< 10	< 1	< 0.01	< 10	11.30	455
96-25	205	226	-----	< 0.2	0.20	6	< 10	< 0.5	2	0.32	< 0.5	61	1420	13	4.05	10	< 1	< 0.01	< 10	14.35	645
96-26	205	226	-----	< 0.2	0.17	10	< 10	< 0.5	2	0.04	< 0.5	72	1020	6	4.09	10	< 1	< 0.01	< 10	14.35	470
96-27	205	226	< 5	< 0.2	0.18	24	< 10	< 0.5	2	0.05	< 0.5	67	1445	3	4.43	10	< 1	< 0.01	< 10	>15.00	435
96-28	205	226	-----	< 0.2	2.99	6	90	< 0.5	4	1.22	< 0.5	14	57	14	4.79	< 10	1	0.19	< 10	1.55	895
96-29	205	226	-----	< 0.2	0.13	6	< 10	< 0.5	2	0.16	< 0.5	65	392	2	4.03	< 10	< 1	< 0.01	< 10	13.25	365
96-30	205	226	-----	< 0.2	0.28	6	20	< 0.5	< 2	0.25	< 0.5	58	297	2	3.88	10	< 1	< 0.01	< 10	12.45	470
96-31	205	226	-----	< 0.2	0.08	18	< 10	< 0.5	2	0.05	< 0.5	67	769	4	4.02	10	< 1	< 0.01	< 10	13.90	490
96-32	205	226	-----	< 0.2	0.14	26	< 10	< 0.5	2	0.19	< 0.5	69	1090	4	3.92	10	< 1	< 0.01	< 10	>15.00	490
96-33	205	226	-----	< 0.2	0.10	12	< 10	< 0.5	2	0.04	< 0.5	62	877	1	3.85	10	< 1	< 0.01	< 10	14.30	480
96-34	205	226	-----	< 0.2	0.07	14	< 10	< 0.5	2	0.32	< 0.5	68	545	4	4.17	10	< 1	< 0.01	< 10	14.65	570
96-35	205	226	-----	< 0.2	0.09	16	< 10	< 0.5	2	< 0.01	< 0.5	58	610	1	3.89	10	< 1	< 0.01	< 10	13.75	310
96-36	205	226	-----	< 0.2	0.13	46	< 10	< 0.5	< 2	0.07	< 0.5	69	793	4	3.79	10	< 1	< 0.01	< 10	14.05	315
96-37	205	226	-----	< 0.2	0.04	16	< 10	< 0.5	2	0.15	< 0.5	66	265	6	3.20	10	< 1	< 0.01	< 10	>15.00	435
96-38	205	226	-----	< 0.2	0.12	6	10	< 0.5	2	0.12	< 0.5	70	1535	1	3.96	10	< 1	< 0.01	< 10	>15.00	400
96-39	205	226	-----	< 0.2	0.10	20	< 10	< 0.5	2	0.01	< 0.5	69	705	6	3.58	10	< 1	< 0.01	< 10	14.65	375
96-40	205	226	-----	< 0.2	0.31	36	10	< 0.5	2	0.09	< 0.5	73	873	9	4.29	< 10	< 1	< 0.01	< 10	13.05	490

CERTIFICATION: Stuart Bradley

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
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To: ALIONIS, ED

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V3C 5M4

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CERTIFICATE OF ANALYSIS A9625237

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	Ni ppm
96-01	205	226	< 1	< 0.01	1555	30	< 2	2	4	1	< 0.01	10	< 10	13	< 10	12	2450
96-02	205	226	1	< 0.01	1550	10	2	6	3	1	< 0.01	< 10	< 10	8	< 10	10	2300
96-03	205	226	< 1	< 0.01	1715	30	2	< 2	5	1	< 0.01	10	< 10	11	< 10	10	2600
96-04	205	226	< 1	< 0.01	1555	30	< 2	< 2	5	1	< 0.01	< 10	< 10	12	< 10	12	2500
96-05	205	226	< 1	< 0.01	1235	150	< 2	< 2	6	128	< 0.01	< 10	< 10	33	< 10	20	2100
96-06	205	226	< 1	< 0.01	1375	40	< 2	< 2	4	4	< 0.01	10	< 10	9	< 10	12	2050
96-07	205	226	< 1	< 0.01	1500	30	4	2	5	3	< 0.01	10	< 10	16	< 10	22	2200
96-08	205	226	< 1	< 0.01	1240	30	< 2	2	4	7	< 0.01	< 10	< 10	9	< 10	22	1900
96-09	205	226	< 1	< 0.01	1200	10	< 2	2	4	59	< 0.01	< 10	< 10	11	< 10	14	1850
96-10	205	226	1	< 0.01	1675	20	2	< 2	4	4	< 0.01	10	< 10	9	< 10	8	2400
96-11	205	226	< 1	< 0.01	1535	140	< 2	2	5	19	< 0.01	10	< 10	14	< 10	16	2300
96-12	205	226	< 1	< 0.01	1445	40	4	2	5	14	< 0.01	10	< 10	13	< 10	18	2100
96-13	205	226	< 1	< 0.01	824	60	2	< 2	5	6	< 0.01	< 10	< 10	11	< 10	16	2100
96-14	205	226	< 1	< 0.01	1580	50	6	2	4	17	< 0.01	< 10	< 10	8	< 10	10	2400
96-15	205	226	1	< 0.01	1345	20	2	< 2	4	< 1	< 0.01	< 10	< 10	9	< 10	10	2000
96-16	205	226	< 1	< 0.01	1865	30	2	2	5	4	< 0.01	10	< 10	8	< 10	14	2750
96-17	205	226	< 1	< 0.01	1265	10	2	< 2	4	< 1	< 0.01	< 10	< 10	8	< 10	16	2050
96-18	205	226	< 1	< 0.01	1620	40	2	2	5	1	< 0.01	< 10	< 10	8	< 10	16	2400
96-19	205	226	< 1	< 0.01	1490	20	2	< 2	5	1	< 0.01	10	< 10	8	< 10	14	2200
96-20	205	226	< 1	< 0.01	1645	50	< 2	< 2	6	< 1	< 0.01	< 10	< 10	14	< 10	14	2300
96-21	205	226	< 1	< 0.01	1570	50	2	< 2	5	< 1	< 0.01	10	< 10	6	< 10	12	2200
96-22	205	226	1	< 0.01	1670	80	< 2	< 2	4	4	< 0.01	10	< 10	7	< 10	12	2450
96-23	205	226	< 1	< 0.01	748	50	2	< 2	6	23	< 0.01	< 10	< 10	14	< 10	14	2100
96-24	205	226	< 1	< 0.01	940	30	2	< 2	5	4	< 0.01	< 10	< 10	14	< 10	10	2100
96-25	205	226	< 1	< 0.01	1375	50	< 2	< 2	6	14	< 0.01	< 10	< 10	16	< 10	10	2100
96-26	205	226	< 1	< 0.01	1610	40	< 2	< 2	5	< 1	< 0.01	< 10	< 10	15	< 10	14	2400
96-27	205	226	< 1	< 0.01	1420	50	2	4	5	< 1	< 0.01	10	< 10	15	< 10	14	2100
96-28	205	226	< 1	0.04	19	1050	12	< 2	9	289	0.23	< 10	< 10	136	< 10	99	18
96-29	205	226	< 1	< 0.01	1445	40	2	< 2	4	14	< 0.01	< 10	< 10	8	< 10	16	2350
96-30	205	226	< 1	< 0.01	1145	60	2	< 2	4	11	< 0.01	< 10	< 10	8	< 10	26	1950
96-31	205	226	< 1	< 0.01	1385	40	2	2	4	10	< 0.01	< 10	< 10	8	< 10	16	2300
96-32	205	226	< 1	< 0.01	1540	30	2	2	6	7	< 0.01	< 10	< 10	10	< 10	14	2200
96-33	205	226	< 1	< 0.01	1260	40	2	< 2	5	< 1	< 0.01	< 10	< 10	11	< 10	14	1950
96-34	205	226	< 1	< 0.01	1560	50	< 2	< 2	4	2	< 0.01	< 10	< 10	11	< 10	14	2400
96-35	205	226	< 1	< 0.01	1435	40	2	2	4	< 1	< 0.01	< 10	< 10	7	< 10	18	2200
96-36	205	226	< 1	< 0.01	1585	30	2	2	5	3	< 0.01	< 10	< 10	13	< 10	14	2400
96-37	205	226	1	< 0.01	1645	30	< 2	< 2	3	13	< 0.01	< 10	< 10	5	< 10	10	2250
96-38	205	226	< 1	< 0.01	1370	30	2	< 2	5	1	< 0.01	< 10	< 10	10	< 10	18	1950
96-39	205	226	1	< 0.01	1545	50	2	2	5	1	< 0.01	< 10	< 10	10	< 10	20	2300
96-40	205	226	< 1	< 0.01	1450	100	2	2	5	6	< 0.01	< 10	< 10	19	< 10	14	2200

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: ALIONIS, ED **

127 - 1140 CASTLE CRES.
PORT COQUITLAM, BC
V3C 5M4

Project : EDWARD ALIONIS
Comments: ATTN: ED ALIONIS CC: ART TROUP

CERTIFICATE OF ANALYSIS A9625237

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
96-41	205	226	< 5	< 0.2	0.15	24	10	< 0.5	2	< 0.01	< 0.5	74	688	6	4.83	< 10	< 1	< 0.01	< 10	13.85	605
96-42	205	226	< 5	< 0.2	0.18	60	40	< 0.5	2	0.01	< 0.5	80	1450	3	5.44	10	< 1	< 0.01	< 10	14.55	670
96-43	205	226	< 5	< 0.2	0.12	10	< 10	< 0.5	2	0.25	< 0.5	72	1090	4	4.09	10	< 1	< 0.01	< 10	14.95	620
96-44	205	226	-----	< 0.2	0.10	20	< 10	< 0.5	2	0.12	< 0.5	67	827	3	4.50	< 10	< 1	< 0.01	< 10	13.35	540
96-45	205	226	< 5	< 0.2	0.11	16	20	< 0.5	2	0.29	< 0.5	67	885	7	3.65	< 10	< 1	< 0.01	< 10	13.75	685
96-46	205	226	-----	< 0.2	2.48	4	140	< 0.5	< 2	1.26	< 0.5	6	90	< 1	2.16	< 10	< 1	0.39	< 10	1.00	550
96-47	205	226	-----	< 0.2	2.18	7	550	< 0.5	< 2	1.79	< 0.5	6	57	< 1	2.09	< 10	1	0.51	< 10	0.89	715
96-48	205	226	-----	< 0.2	2.23	8	150	< 0.5	< 2	1.95	< 0.5	5	80	< 1	2.06	< 10	< 1	0.33	< 10	0.84	625
96-49	205	226	-----	0.4	0.13	44	< 10	< 0.5	4	0.26	< 0.5	76	697	13	3.64	10	< 1	< 0.01	< 10	>15.00	580
96-50	205	226	20	0.2	0.12	56	10	< 0.5	2	0.11	< 0.5	69	484	4	3.88	10	< 1	< 0.01	< 10	14.75	685
96-51	205	226	< 5	0.2	0.08	56	10	< 0.5	2	0.08	< 0.5	74	503	1	4.12	10	< 1	< 0.01	< 10	14.40	550
96-52	205	226	< 5	< 0.2	1.58	3	110	< 0.5	< 2	0.98	< 0.5	14	89	41	3.15	< 10	< 1	0.15	< 10	1.10	480
96-53	205	226	50	< 0.2	1.33	7	90	0.5	< 2	1.71	< 0.5	6	41	5	2.45	< 10	< 1	0.38	10	0.68	995
96-54	205	226	< 5	0.2	0.05	4	< 10	< 0.5	< 2	0.30	< 0.5	58	431	19	3.58	< 10	< 1	< 0.01	< 10	12.60	620
96-55	205	226	< 5	< 0.2	1.38	3	70	< 0.5	< 2	1.28	< 0.5	5	44	3	2.81	< 10	< 1	0.26	< 10	0.83	745
96-56	205	226	-----	0.2	0.08	38	< 10	< 0.5	4	0.07	< 0.5	78	628	3	4.33	10	< 1	< 0.01	< 10	>15.00	600
96-57	205	226	-----	< 0.2	0.10	14	< 10	< 0.5	2	0.08	< 0.5	71	676	7	4.41	10	< 1	< 0.01	< 10	>15.00	435
96-58	205	226	-----	0.2	0.06	24	10	< 0.5	< 2	0.08	< 0.5	73	381	1	4.02	10	< 1	< 0.01	< 10	14.85	400
96-59	205	226	-----	< 0.2	0.29	78	< 10	< 0.5	2	< 0.01	< 0.5	79	508	2	4.27	10	< 1	0.01	< 10	>15.00	425
96-60	205	226	-----	< 0.2	0.18	16	10	< 0.5	4	0.19	< 0.5	63	527	5	4.54	10	< 1	0.02	< 10	13.30	380
96-61	205	226	-----	< 0.2	0.09	16	10	< 0.5	2	0.05	< 0.5	73	437	3	4.40	< 10	< 1	< 0.01	< 10	13.55	565
96-62	205	226	-----	< 0.2	0.76	< 2	140	0.5	< 2	0.04	< 0.5	2	53	1	0.28	< 10	< 1	0.35	< 10	0.43	85
96-63	205	226	-----	< 0.2	1.25	4	30	< 0.5	< 2	0.65	< 0.5	13	81	44	2.39	< 10	< 1	0.09	< 10	2.92	320
96-64	205	226	-----	< 0.2	0.17	12	< 10	< 0.5	2	0.01	< 0.5	63	781	2	3.87	< 10	< 1	< 0.01	< 10	14.05	340
96-65	205	226	-----	< 0.2	1.45	< 2	90	< 0.5	< 2	0.27	< 0.5	5	34	1	2.05	< 10	< 1	0.09	< 10	1.17	385
96-66	205	226	-----	< 0.2	2.93	22	20	< 0.5	2	0.10	< 0.5	55	382	4	4.58	10	< 1	< 0.01	< 10	10.70	875
96-67	205	226	-----	< 0.2	0.18	18	< 10	< 0.5	2	0.22	< 0.5	62	717	3	3.59	< 10	< 1	< 0.01	< 10	14.00	460
96-68	205	226	-----	< 0.2	0.51	32	< 10	< 0.5	< 2	0.18	< 0.5	72	112	5	3.95	10	< 1	< 0.01	< 10	14.45	380
96-69	205	226	< 5	< 0.2	2.12	9	270	0.5	< 2	0.11	< 0.5	17	35	38	4.21	< 10	< 1	0.45	10	0.84	530
96-70	205	226	115	0.8	1.96	5	160	< 0.5	< 2	1.07	< 0.5	12	45	328	3.59	< 10	< 1	0.37	< 10	1.23	310
96-71	205	226	105	< 0.2	2.45	12	90	< 0.5	< 2	2.31	1.0	15	75	56	4.33	< 10	< 1	0.24	< 10	2.14	935
96-72	205	226	< 5	< 0.2	0.13	20	60	< 0.5	< 2	0.61	< 0.5	50	452	2	3.23	< 10	< 1	0.01	< 10	12.60	835
96-73	205	226	< 5	0.2	2.01	13	50	< 0.5	2	1.84	< 0.5	12	76	45	4.99	< 10	< 1	0.25	< 10	0.59	420
96-74	205	226	< 5	0.2	2.59	9	100	< 0.5	2	0.79	1.0	11	72	77	4.83	< 10	1	0.55	< 10	1.02	385

CERTIFICATION:

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To: ALIONIS, ED

127 - 1140 CASTLE CRES.
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V3C 5M4

Project : EDWARD ALIONIS
Comments: ATTN: ED ALIONIS CC: ART TROUP

Page Number :2-B
To Pages :2
Certificate Date: 31-JUL-96
Invoice No. :I9625237
P.O. Number :0
Account :NWK

CERTIFICATE OF ANALYSIS A9625237

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	Ni ppm
96-41	205	226	< 1	< 0.01	1450	90	2	2	4	< 1	< 0.01	< 10	< 10	12	< 10	20	2300
96-42	205	226	< 1	< 0.01	1685	120	2	6	6	3	< 0.01	10	< 10	14	< 10	24	2300
96-43	205	226	< 1	< 0.01	1535	10	2	4	5	5	< 0.01	< 10	< 10	12	< 10	14	2400
96-44	205	226	< 1	< 0.01	1435	50	2	2	5	2	< 0.01	< 10	< 10	11	< 10	18	2200
96-45	205	226	< 1	< 0.01	1320	60	2	< 2	5	8	< 0.01	< 10	< 10	12	< 10	24	2000
96-46	205	226	< 1	0.24	23	760	< 2	< 2	3	122	0.03	< 10	< 10	30	< 10	40	22
96-47	205	226	< 1	0.20	7	720	2	< 2	3	120	0.04	< 10	< 10	29	< 10	42	7
96-48	205	226	< 1	0.21	4	740	2	2	1	128	0.01	< 10	< 10	23	< 10	40	4
96-49	205	226	< 1	< 0.01	1505	60	4	2	3	154	< 0.01	< 10	< 10	6	< 10	22	2150
96-50	205	226	1	< 0.01	1500	100	10	< 2	3	58	< 0.01	10	< 10	6	< 10	16	2200
96-51	205	226	< 1	< 0.01	1610	50	8	2	4	44	< 0.01	10	< 10	12	< 10	30	2200
96-52	205	226	< 1	0.18	44	860	2	< 2	6	43	0.14	< 10	< 10	96	< 10	40	52
96-53	205	226	< 1	0.11	15	760	4	< 2	3	139	0.01	< 10	< 10	49	< 10	55	14
96-54	205	226	< 1	< 0.01	1010	100	6	< 2	7	57	< 0.01	10	< 10	7	< 10	18	2100
96-55	205	226	< 1	0.16	12	960	8	< 2	3	124	0.12	< 10	< 10	71	< 10	52	12
96-56	205	226	< 1	< 0.01	1635	30	< 2	< 2	5	1	< 0.01	10	< 10	8	< 10	20	2300
96-57	205	226	< 1	< 0.01	1570	20	2	2	5	2	< 0.01	< 10	< 10	8	< 10	12	1950
96-58	205	226	< 1	< 0.01	1520	30	2	< 2	3	10	< 0.01	10	< 10	3	< 10	20	2100
96-59	205	226	1	< 0.01	1785	50	2	2	4	< 1	< 0.01	10	< 10	5	< 10	14	2450
96-60	205	226	< 1	< 0.01	1445	160	4	< 2	4	13	0.01	< 10	< 10	18	< 10	18	1900
96-61	205	226	2	< 0.01	1545	70	2	< 2	4	9	< 0.01	< 10	< 10	9	< 10	14	2250
96-62	205	226	< 1	0.12	32	160	8	< 2	< 1	10	< 0.01	< 10	< 10	< 1	< 10	40	98
96-63	205	226	< 1	0.10	223	660	2	< 2	4	39	0.10	< 10	< 10	43	< 10	32	198
96-64	205	226	< 1	< 0.01	1445	10	< 2	2	4	1	< 0.01	< 10	< 10	14	< 10	20	2000
96-65	205	226	< 1	0.17	7	810	< 2	< 2	4	19	0.02	< 10	< 10	40	< 10	34	6
96-66	205	226	< 1	< 0.01	808	310	< 2	< 2	10	5	< 0.01	< 10	< 10	72	< 10	36	1400
96-67	205	226	< 1	< 0.01	1370	40	4	< 2	5	13	< 0.01	< 10	< 10	14	< 10	14	1900
96-68	205	226	1	< 0.01	1720	40	< 2	2	3	8	< 0.01	10	< 10	12	< 10	30	2500
96-69	205	226	< 1	0.04	47	590	6	< 2	3	28	0.01	< 10	< 10	56	< 10	87	44
96-70	205	226	8	0.11	17	1090	8	2	4	56	0.07	< 10	< 10	49	< 10	46	18
96-71	205	226	< 1	0.07	77	1290	18	< 2	7	94	0.02	< 10	< 10	105	< 10	113	84
96-72	205	226	1	< 0.01	824	10	< 2	2	4	68	< 0.01	< 10	< 10	8	< 10	10	1500
96-73	205	226	19	0.01	17	720	18	< 2	6	107	0.13	< 10	< 10	94	< 10	87	16
96-74	205	226	6	0.23	25	740	40	2	10	92	0.15	< 10	< 10	142	< 10	139	24

CERTIFICATION: Ian Bachlor

APPENDIX 2

Nickel - Atomic Absorption Spectroscopy (AAS)

A prepared sample (1.00g) is digested with nitric-aqua regia acids for two hours. The digested sample is cooled and diluted to 25 ml with demineralized water. The resulting solution is mixed and the solids allowed to settle. Nickel is then determined using atomic absorption spectroscopy with correction for background absorption.

Chemex Code	Element	Detection Limit	Upper Limit
8	Nickel	1 ppm	1%

The nitric-aqua regia digestion dissolves all sulfides, carbonates and most common transition element oxides. Therefore, for all practical means it is a "total" digestion for Cu, Pb, Zn, Ag, Hg, Cd, Co, Mn, etc. However, silicates and resistate oxides and chromites are only leached on the surface of the grains. Nickel silicates are **not** effectively solubilized. The nickel determined via this digestion procedure is therefore a good approximation of the concentration of the element occurring as a sulfide or arsenide.

Chromium, Lithium, Rubidium, Strontium, Beryllium, Germanium

Atomic Absorption Spectroscopy

Chemex Codes: 12, 27, 30, 32, 34, 41

A prepared sample (1.00g) is weighed into a teflon beaker and digested with hydrofluoric, nitric and perchloric acids to dryness. The residue is taken up with 25 ml of 10% hydrochloric acid and the elements are determined by standard atomic absorption spectroscopy.

Chemex Code	Element	Detection Limit	Upper Limit
12	Chromium	2 ppm	1%
27	Lithium	1 ppm	0.1%
30	Rubidium	1 ppm	1%
32	Strontium	1 ppm	1%
34	Beryllium	0.1 ppm	0.1%
41	Germanium	5 ppm	0.1%
8	Nickel (total)	1 ppm	1%

The tri-acid digestion is a "total" digestion. Only the most resistant minerals - spinels, rutile, tourmaline, topaz, zircons, etc. are not put into solution. All nickel silicates as well as all minerals effectively attacked by the nitric-aqua regia digestion dissolve. The "total" nickel content is determined. Therefore, the difference between the nickel concentration of the total digestion and the nitric-aqua regia is a good approximation of the amount of nickel silicate in the sample.

Insert

Pg. 51-54

N.

Castle Mountain

Chandler Creek

+1404m south peak

NO OUTCROP

CLAIM BOUNDARY

CROWN GRANTS

SANTA ROSA ROAD

canada

U.S.A.

outcrop

OLD TRENCH

HYDRO

CREEK

ROAD — TRAIL

6	NELSON INTRUSION GRANODIORITE
5	ULTRA MAFIC SERPENTINITE, DUNITE
4	PORPHYRY DYKE
3	ANDESITE
1	SILICIOUS SILTSTONE

scale: 1:5,000

0 100 200 400 METRES

E. ALIONIS

GRAND-FORTUNE PROPERTY

GEOLOGY (1)

96-30

DATE: SEPT 1996

BY: E.A.

FIGURE: 8

N.

Castle Mountain

Chandler Creek

CLAIM BOUNDARY

+1404m south peak

x18/19,57,-

x 24/25,72,<5
x16/17,76,<5

x2300/1635,628,-
1900/1240,529,-
x2300/1535,1400,-
2400/1610,1020,-
x2200/1500,2030,-
2400/1675,545,-
x2100/1375,1420,-
x2100/1445,1235,-
x2100/940,835,-
x2100/748,877,-
2000/1320,885,<5
2450/1670,471,<5
2300/1450,688,<5
2400/1535,1090,<5
2300/1685,1450,<5
2200/1435,887,-
2100/1420,1445,<5
2050/1375,634,-
2100/1235,646,-
198/223,81,-
x2500/1555,1190,-
x2600/1715,789,-
2200/1570,703,-
x2300/1550,276,-
2450/1555,638,-
x 2000/1445,781,-
x 6/7,34,-
x1400/808,382,-
2300/1545,705,-
40/44,89,<5
7/7,57,-
14/15,41,50
x 2250/1645,265,-
2200/1500,484,20
2200/1450,873,-
x 4/4,80,-
12/12,44,<5
1950/1370,1535,-
22/23,90,-
2150/1505,697,-
1950/1260,877,-
2100/1010,431,<5
1900/1370,717,-
2200/1435,610,-
2200/1610,503,<5
2400/1560,545,-
2400/1585,793,-
2300/1385,769,-
2500/1720,112,-
2200/1540,1090,-
2350/1445,392,-
x 2300/1645,583,-
1950/1145,297,-
x 2200/1490,524,-
1950/1570,676,-
x 2100/1520,381,-
x 2450/1785,508,-
2400/1620,586,-
1500/824,452,<5
1900/1445,527,-
84/77,75,105
2250/1545,437,-
2050/1265,425,-
98/32,53,-
2750/1865,476,-
18/17,45,115
2000/1345,397,-
2400/1580,656,-
2100/824,525,-
44/37,35,<5
1850/1200,409,-

CROWN GRANTS

SANTA ROSA ROAD

canada
U.S.A.

X TOTAL Ni,ppm/AQUA REGIA SOLUABLE Ni ppm., Cr ppm, Au ppb.

HYDRO
CREEK
ROAD — TRAIL

scale: 1:5,000
0 100 200 400 METRES

E. ALIONIS

GRAND-FORTUNE PROPERTY

ROCK CHIP SAMPLE RESULTS 96-30 (2)

DATE: SEPT 1996
BY: E.A.

FIGURE: 7

N.

Castle Mountain

Chandler Creek

x 28

x74
x73

CLAIM BOUNDARY

x56
x8
x7
x11
x10
x12
x26
x25
x24
x23
+1404m south peak
x45
x22
x41
x42
x43
x44
x27
6
5
4
3
2
1
x63
21
x64
x65
x66
x39
x37
x38
x40
x47
x48
x46
x50
x49
x51
x52
x53
x54
x55
12
x67
x35
x36
28
1
3
x33
x34
x31
x32
x29
30
x68
x20
x19
x57
x58
x59
x18
x60
x61
x72
x71
x70
x17
x16
x15
x14
13
x62
x69
x
9
CROWN GRANTS
SANTA ROSA ROAD

canada
U.S.A.

HYDRO

CREEK

ROAD – TRAIL

x Rock sample location – prefixed by 96

O Soil sample location – prefixed by S

scale: 1:5,000

0 100 200 400 METRES

E. ALIONIS

GRAND-FORTUNE PROPERTY

96-30

SAMPLE LOCATIONS (3)

DATE: SEPT. 1996
BY: E.A.

FIGURE: 6

N.

Castle Mountain

Chandler Creek

SOIL GRID LOCATION

SEE FIG.

+1404m south peak

860/691,215,-

920/724,203,-

470/437,202,-

445/420,192,-

443/420,171,-

133/124,62,-
144/134,75,5
252/245,64,-
365/255,73,-
138/131,67,-
160/143,82,-
144/130,83,-

CLAIM BOUNDARY

CROWN GRANTS

SANTA ROSA ROAD

canada

U.S.A.

o TOTAL Ni ppm. / AQUA REGIA SOLUABLE Ni ppm., Cr ppm., Au ppb.

HYDRO

CREEK

ROAD – TRAIL

scale: 1:5,000

0 100 200 400 METRES

E. ALIONIS

GRAND-FORTUNE PROPERTY

SOIL RESULTS & GRID LOCATION

96-30 (4)

DATE: Sept 1996

BY: E.A.

FIGURE: 4

19 00E
20 00E
21 00E
22 00E
23 00E

22+00N
21+50N
21+00N
20+50N
20+00N
19+50N

360/322,126,—
300/300,165,—
450/515,340,—
490/478,341,—
360/359,239,—
176/170,76,—
43/40,17,—
342/310,184,—
138/139,69,—
178/170,97,—
276/265,189,—
260/228,156,—
420/350,254,—
300/279,245,—
290/281,109,—
180/190,90,—
132/123,37,—
325/356,201,70

350/372,211,—
390/404,227,—
1700/1400,1325,—
695/686,251,—
440/481,264,—
690/785,653,—
810/794,564,—
501/490,485,—
84/80,66,—
660/575,459,—
280/183,118,—
310/225,161,—
650/620,422,—
395/388,143,—
685/600,305,—
250/253,127,—
220/202,50,—
720/691,142,—

710/709,557,—
1600/1225,1000,—
1600/1250,993,—
1730/1405,672,—
1300/1070,658,—
1200/1030,631,—
1150/1000,872,—
440/440,174,—
260/253,164,—
106/109,46,—
70/67,27,—
550/520,315,15
250/239,184,—
310/288,108,—
245/233,141,—
190/183,65,—
342/310,127,—
270/315,106,—
137/145,54,—

91/99,41,—
620/610,232,—
220/227,107,—
810/780,481,—
440/440,174,—
1000/908,567,60
890/824,463,—
770/762,453,150
440/481,264,—
260/253,164,—
106/109,46,—
300/294,169,—
276/260,141,25
460/417,289,10
280/207,177,—
300/275,161,—
250/255,138,—
360/323,157,—
460/446,248,55
265/260,141,5

380/380,119,—
172/154,48,—
350/323,104,—
425/379,149,—
340/302,125,—
320/302,149,60
365/335,280,—
345/310,258,—
630/555,220,—
370/366,210,—
230/221,97,—
172/164,144,—
600/580,408,15
360/366,156,20
300/270,188,10
835/699,386,—
415/406,320,—
245/277,120,—
300/285,261,5
230/208,103,—
250/208,144,10
192/217,149,13

BASE LINE

N

LEGEND

GRIDLINE — STATIONS

TOTAL Ni ppm / AQUA REGIA SOLUABLE Ni ppm, Cr. ppm, Au ppb

SCALE: 1:1,2500

0 25 50 100

METRES

E. ALIONIS

GRAND - FORTUNE PROPERTY

GRID - SOIL SAMPLE RESULTS

DATE: SEPT, 1996
BY: E. A.

FIGURE: 5