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Gold Commissioner's Office
VANCOUVER, B.C.

GEOCHEMISTRY, GEOLOGY AND PROSPECTS

DI 1 to 14 CLAIM GROUP

370591-370596, inclusive and 372032-372039, inclusive

NELSON MINING DIVISION

82F-7W

116 57W 49 24N

Claim Owner

Ron Granger
Creston, B.C.
March 2000

RECEIVED
GOVERNMENT AGENT
NELSON

MAY 19 2000

NOT AN OFFICIAL RECEIPT
TRANS #.....

**GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT**

26,248



PROPERTY LOCATION

FIGURE 1

PROPERTY LOCATION MAP

DI CLAIM GROUP

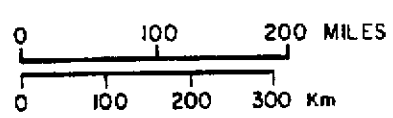


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MAPS

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ASSAYS, ROCK & SOIL GEOCHEMISTRY

Bound behind page 9

INTRODUCTION

The work described in this report is comprised of prospector's surveys and prospecting carried out under the terms of the Prospectors Assistance Program of British Columbia and partly funded by Grant 99 P 14.

LOCATION:

The work area covers parts of both sides of Hughes Creek, a north flowing tributary to Midge Creek, in NTS map sheet 82F-7W. The area is partly covered by two old Crown Granted claims plus a group of six claims and a group of eight claims located by or for the author. The area is partly within private property owned by Darkwoods Forestry of Nelson, B.C. Mineral Rights are in Crown Domain.

ACCESS:

A good but narrow road from Salmo east to Tye on Kootenay Lake is followed to a point east of the Cultus Creek bridge, marked 35 km., where the Laib Creek road leads northerly first to the Diana Creek area then on to the old Wisconsin Mine Road to Hughes Creek. This latter section of road is difficult and is not to be driven casually. The section beyond the Hughes Creek bridge is presently impassible to vehicles larger than ATV's.

Darkwoods is building a new, much better, road down the south slope of the Hughes Creek valley in a series of switchbacks but this is still far from complete.

The work area is about 25 km. southeast of Nelson and 10 km. west of Kootenay Lake.

PROJECT AREA:

The work area hosts one fairly well explored deposit covered by two Crown Grants, owned by a numbered company, and known since 1898 as the Wisconsin, plus a lightly explored showing described during the late 1940's as the Black Douglas and which is now located on the DI 12 and DI 14 claims. Other, smaller, showings are numerous but unexplored.

Due to a plotting error on the base map the claims are all displaced a couple of hundred metres NW of their true locations--including the two CG's.

In previous work the Wisconsin deposit was developed along and near the contact between the the Irene Formation volcanics and Monk Formation sedimentary schists, both Hadrinian, in close proximity to Cretaceous Drewry Point intrusives.

Prospecting in the area during the period 1995- 1997 by R.Granger and D. Wiklund provided enough new data to convince us that mineralization was not as localized as reports suggested and that there was a good chance of discovering further prospective zones or extensions of zones.

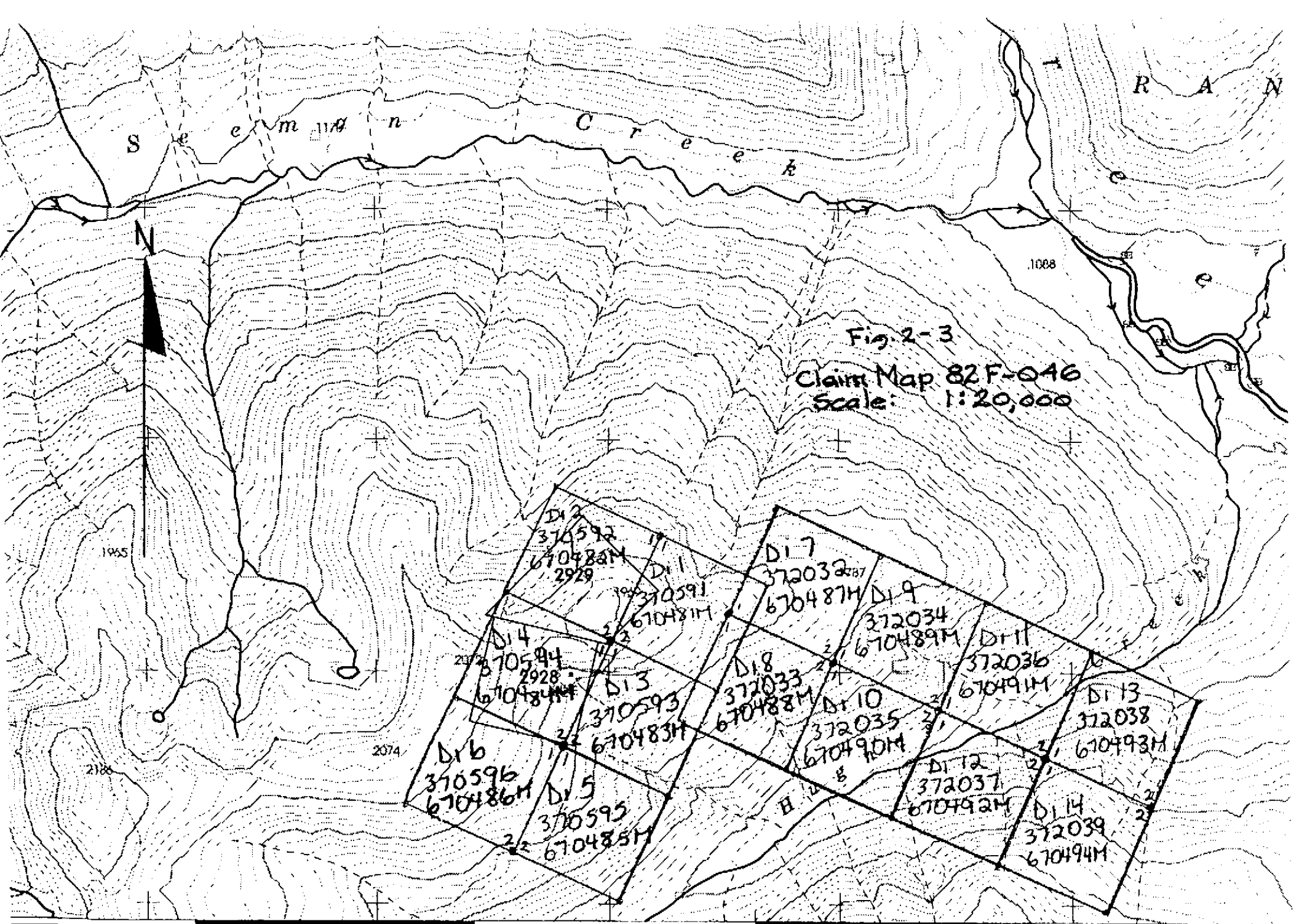
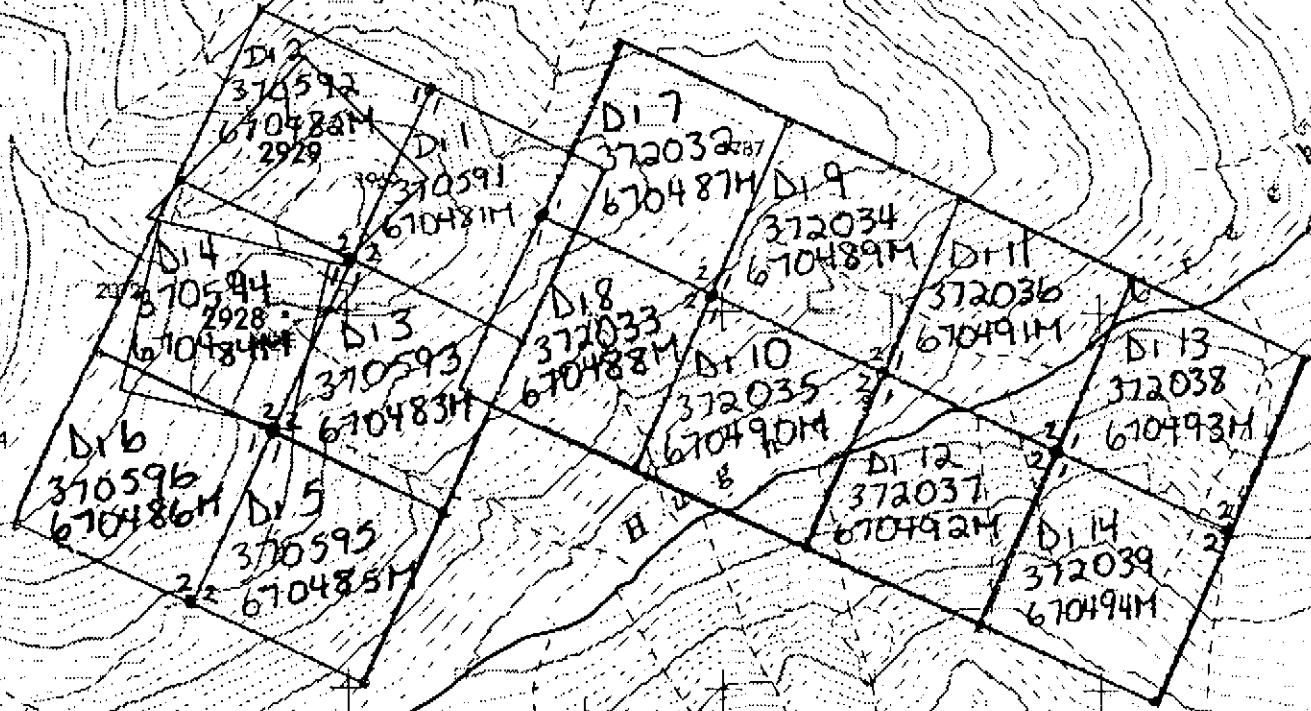


Fig. 2-3
 Claim Map 82F-046
 Scale: 1:20,000



501000

502000

503000

504000

505000

An application for funding was made under the terms of the Prospector's Assistance Program for 1999-2000 and this was granted.

HISTORY:

In 1894 two claims were staked at the site of Wisconsin Mine by the Hennessey brothers and these were brought to Crown Grant in 1899 by purchasers. A series of operators carried out trenching and sampling followed by extensive underground exploration and development in several openings until 1932 when 1,000 feet of diamond drilling was completed in three holes. New owners continued underground development in 1935 and 1936 including a new lower level reached by a winze and a new level collared about 1,000 feet to the east of No.1 Portal.

Several mill and smelter tests were carried out in order to find a means of treating the sometimes very elevated arsenic content of the gold ores. This period petered out during the Second World War.

In 1947 a group of prospectors led by the Hamilton brothers built a cabin on the east side of Hughes Creek and in the next two years excavated a large number of shallow surface trenches, a short adit and a 20 foot shaft on their Black Douglas claims. A few elevated gold assays were obtained at depth where some primary sulphide was encountered.

In 1980 and thereafter Esperanza Explorations Ltd. carried out resampling on surface and underground, surface diamond drilling, bulldozer trenching, geophysical surveys and geochemical sampling. Geology gave impetus to the work when an apparent sedex model took shape and BP Selco took an option in 1983 leading to more surveys and diamond drilling in 1984-85. Strato Geological Engineering drilled three holes in early 1988 and Dutch Creek Resources drilled three holes in the same year.

Minfile No. 082FSE036 infers 136,065 tonnes grading 171 grams/T silver and 12 grams/T gold in the Wisconsin deposit.

In 1995 Wiklund and Granger began prospecting in this area having followed the Irene Volcanics north from the border in previous years. In spring 1996 two groups of DI claims were staked to cover areas of interest and reconnaissance geological and geochemical prospecting in concert with float prospecting led to discoveries not included in previous exploratory activity.

LOCATED CLAIMS:

In early 1999 DI 1-6 inclusive (370591-96) were located and later DI 7-14 inclusive (372032- 39) were added, all staked under the P.A.P.

REGIONAL GEOLOGY

In the area of this report the more notable old discoveries were located in proximity to granitic intrusives and close to, or at, the contact between the Irene Volcanics and the Monk Formation schists, e.g. Wisconsin, Iva Fern.

The volcanic rocks rest conformably upon the Toby conglomerate rocks and often have an interlayered contact covering several tens of metres. The Irene varies from rare pillowed lavas to tuffaceous schists. The Monk schists occur as honey coloured, to silver, to black schistose rocks with one well marked, centrally occurring bed of pale, to dark grey, limestone. Cretaceous Drewry Point granodiorite stocks, sills and dikes cut the above formations.

LOCAL GEOLOGY

The granodiorite body to the east of Hughes Creek is a stocksize body where mapped during this program while granodiorite mapped to the west of Hughes Creek consists always of small, elongate bodies from two metres to one hundred metres in width.

There are outcrops and areas where it is difficult to decide whether to label the rock as granodiorite, as quartz-sericite gneiss/schist, or as granitized Monk or granitized Irene. In the past various geologists have dealt with this problem by mapping such rock as quartz-sericite schist or quartz-muscovite schist and this, though certainly true, leads to problems in prospecting for new sites of mineralization. The narrow bodies of limestone occurring near the old workings are largely unaltered and appear to be the typical mid-Monk type. Pale schists on each side of these limestones would normally be consigned to the Monk but in this area such schists are also found to envelope elongate bodies of typical Irene volcanic rocks. At this stage our prospecting program is treating such areas as granitization and alteration of Monk schists and Irene volcanics and as prospective zones of a special type as it appears likely that these zones are favourable to the deposition of metals.

Diana Creek is the name given to the first large stream entering Midge Creek to the south of Hughes Creek. Limestone outcrops occur on the slope to the south of Midge Creek and rocks on the west side of this unit are not typical Monk schists but are schists derived from a conglomerate perhaps 500 metres thick. We suppose that it might be Three Sisters.

Our limited work south of Diana Creek did not encounter the mapped plug but we did encounter several dikes of granodiorite to porphyry in that area.

The dissimilarity in the form of the granodiorite bodies from the north side to the south side of Hughes Creek suggests that a fault along Hughes Creek has moved the north side westerly and down leaving a higher level exposed at the present surface.

PROSPECTING PROGRAM

My earlier prospecting activities led to the recognition of many more small bodies of leucocratic granitic rocks which are sheet-like in form and related to small mineral showings. Some of the exposures are typical granodiorite while others are high in coarse grained quartz and / or pyrite. Such exposures lie on the west side of Hughes Creek. All granitic outcrops found east of Hughes Creek were part of a massive body of Drewry Point granodiorite, sometimes in proximity to sulphide mineralization but sometimes remote. Quartz veining in this eastern section is sometimes enriched in gold and bismuth even in the absence of sulphide and is most commonly found in the Monk schists.

Prospectors and geologists in the past had noted that gold values were higher and more consistent below the oxidized surficial zone which sometimes proved to reach depths of 30 metres. These same zones had contained semi-massive to massive sulphides in a quartz-siderite gangue which had decomposed to high manganese wad.

An examination of several of these sites led to the conclusion that most, if not all, of the siderite was ankerite and the manganese content of the wad was understandable. A review of Boyle and Emmons, among others, elicited the information that " where chlorides and H_2SO_4 are present with manganese then gold may mobilize and migrate downward to the zone of reduction where some gold may precipitate; the remainder migrates in the groundwater system and is ultimately lost."

1999 PROGRAM

A tent camp was set up about 1 km. south of claim DI 14 and access was gained by truck and ATV. Sixteen and a half days of work were performed directly on the claims.

Di 1-14 claims were staked under the program and recorded in the name of Ron Granger, 619 20th.Ave.South, Creston, B.C., V0B 1G5.

A well marked trail was cut into the Black Douglas workings and cabin from the end of a logging road SE of claim DI 14.

Twenty-six rock samples were taken and assayed by 28 element ICP plus gold and 16 soil samples were taken and analysed in the same manner. Chemical assays were used to check the high results.

Some detailed mapping and sampling were done on the DI 1 & 3 claims in an effort to understand the alteration attending mineralization in an area of mixed rock types. This is shown on Map 2.

Several high ICP assays from 1998 and 1999 were resampled or re-assayed and the high values dropped to background. In one case it appeared to be bucking room error and in the others to be calibration error.

RESULTS

- 1) Soil samples S99-4,5&6 on claim DI 7 extend the previous soil anomaly to the NE for a further 200 metres with anomalous Pb, Zn, Au, Ag, Bi, As and Mn.
- 2) Rock and soil samples as shown on Detail Map 2 indicate an area of diffuse mineralization in a variety of rocks all of which exhibit strong alteration. Mr. Paul Wilton, Regional Geologist, Cranbrook, visited this zone with me on Sept.8, 1999.
- 3) Follow-up sampling on claim DI 6 showed that the mineralization previously assayed and found anomalous in altered volcanic rocks did not similarly affect the altered granitic rocks immediately to the west. Mr. Wilton also viewed these rocks.

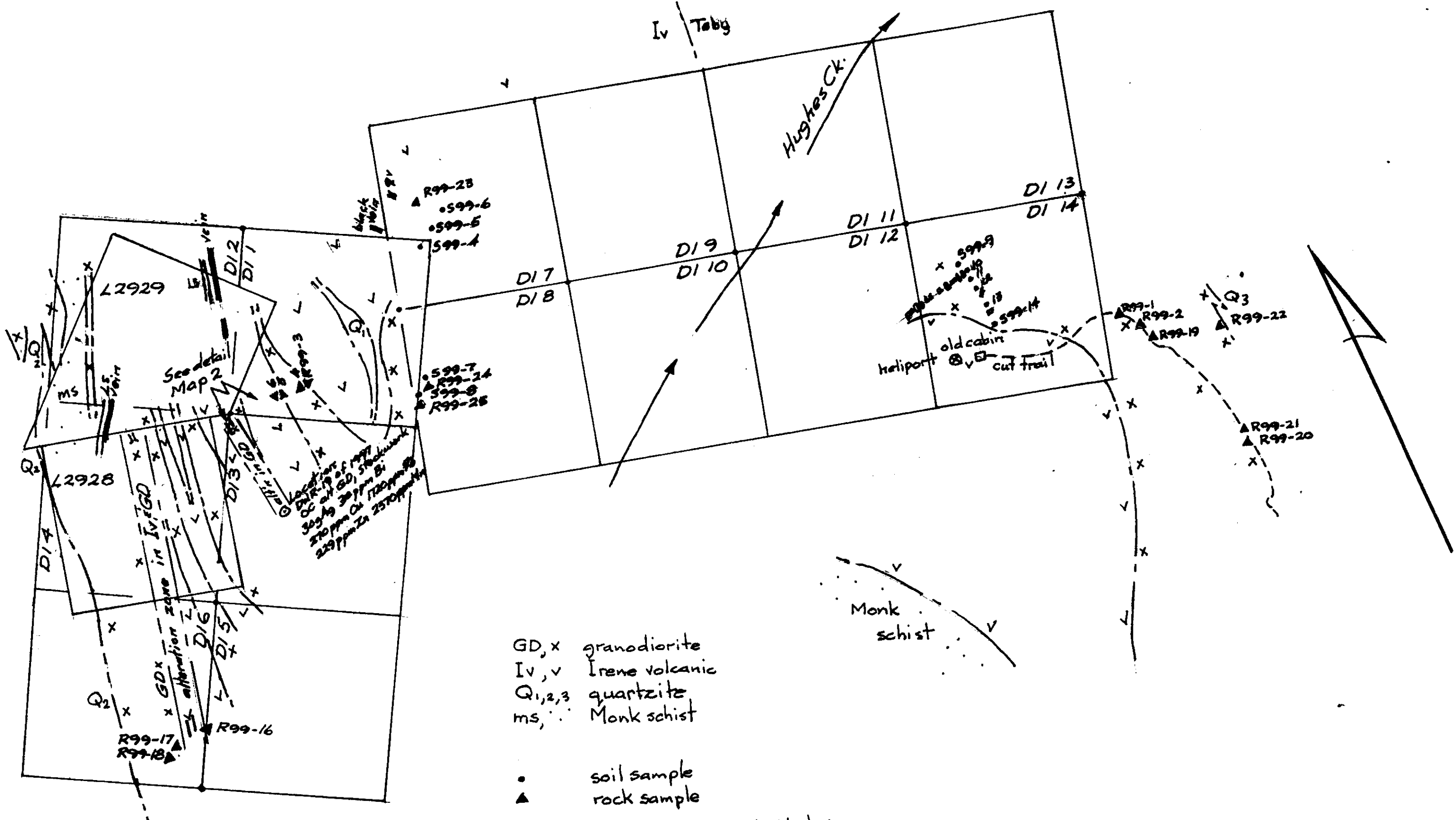
ANALYSES:

Both rock and soil samples were analysed by 28 element ICP while gold was determined by using the bead and Atomic Absorption method. Where results were significant enough samples were reassayed by chemical methods and reported separately. Copies of these reports are appended.

18 March 2000
Creston, B.C.



Ron Granger.

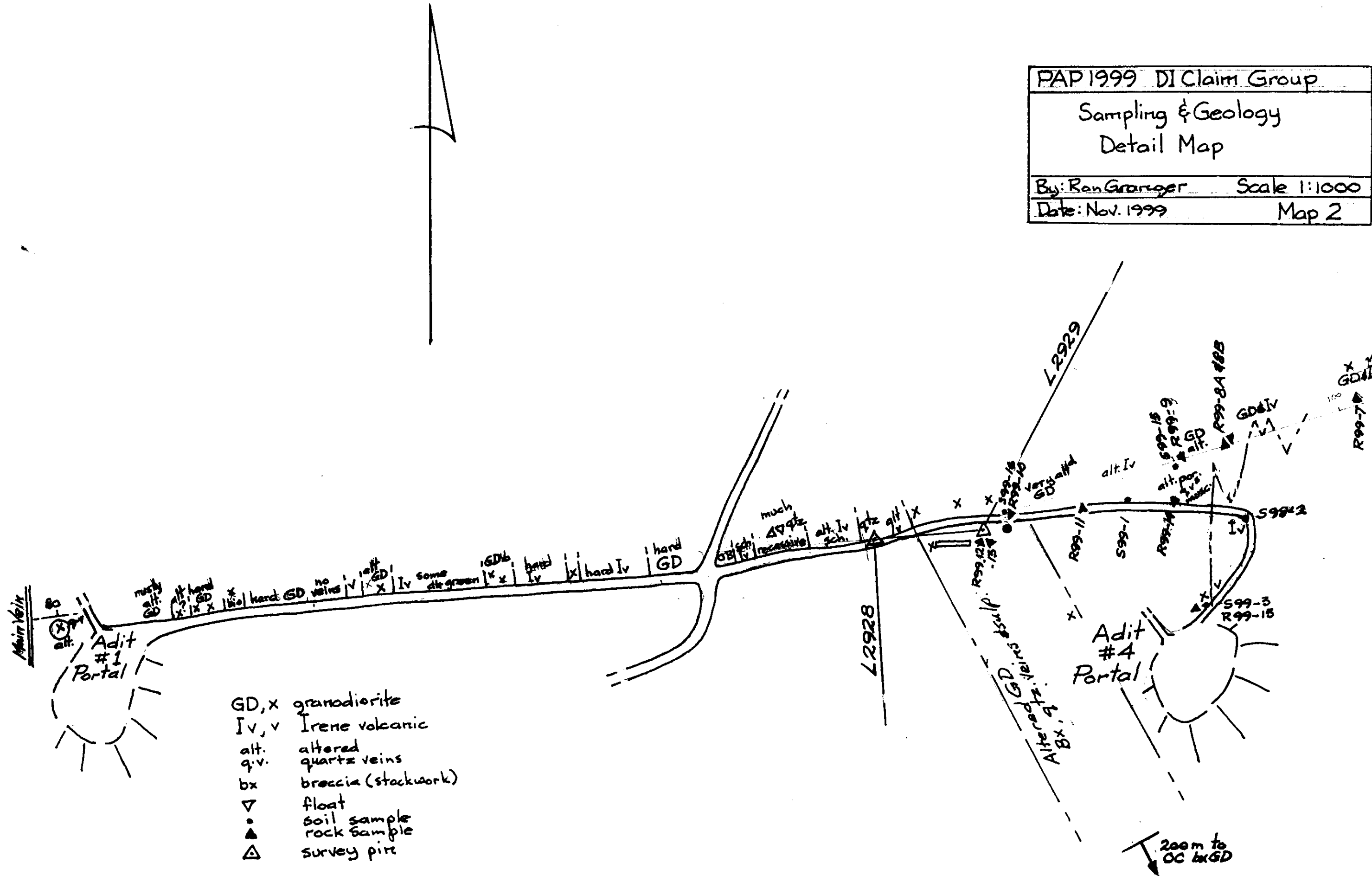


GD, x granodiorite
 Iv, v Irene volcanic
 Q_{1,2,3} quartzite
 ms, Monk schist

• soil sample
 ▲ rock sample
 — vein, leached sulphide, black & brown
 = vein, quartz
 ■ pit

PAP 1999 DI Claim Group	
Rock & Soil Sample Locations	
~ see also Detail Map 2 ~	
82F-2	
By: Ron Granger	Scale 1:10,000
Date: Nov. 99	Map 1

PAP 1999 DI Claim Group	
Sampling & Geology Detail Map	
By: Ron Granger	Scale 1:1000
Date: Nov. 1999	Map 2



- GD, x granodiorite
- Iv, v Irene volcanic
- alt. altered
- q.v. quartz veins
- bx breccia (stackwork)
- ▽ float
- soil sample
- ▲ rock sample
- △ survey pit

**GEOCHEMICAL SOIL AND ROCK SAMPLING
DI GROUP OF CLAIMS**

SOIL SAMPLES:

Samples were collected by mattock at depths of 10 to 25 cm. and below organic layers. The soil was collected in Kraft bags and rough dried in camp before shipment to Eco-Tech Laboratories Ltd. at Kamloops, B.C. After sample prep. they were analysed by 28 element ICP, plus Au in ppb. by fire bead and Atomic Absorption.

ROCK SAMPLES:

Samples were collected from vein matter, mineralized rock and from finely veined stockworks in granodiorite.

These samples averaged one kilogram in weight. They were assayed by 28 element ICP, plus gold in ppb. by fire bead and Atomic Absorption. Some higher results were checked by chemical assay.

STATEMENT OF QUALIFICATIONS

Ron Granger, Creston, B.C.

- 1) Syndicate prospector, diamond driller and blaster, northern Ontario, 1953-1955.
- 2) Fieldman with Simard and Knight Mining Consultants, Toronto, 1955-1957
geological and geophysical mapping, northern Ont. and Quebec.
- 3) Mine geologist, Aer Nickle, Sudbury; Willroy Mine, Manitouwadge; Temagami
Mines, Temagami, Ont. 1956-1959.
- 4) Superintendent, Harvey Aluminum of America, Jamaica, 1959-1960.
- 5) Contractor, exploration and development, Gowganda, Ont., 1960-1962.
- 6) Partner, exploration consulting; Granger, Reeve and Co., Vancouver, 1963-65.
- 7) Contractor, exploration; Yukon Territory, 1966-1974.
- 8) Officer, public and private exploration companies, Yukon and B.C., 1968-1996.
- 9) Prospector, self-employed, Yukon and northern B.C., and Creston, B.C.
1966-2000.
- 10) Nineteen terms elected as director of Yukon Chamber of Mines; four terms
elected President of Yukon Chamber of Mines.
- 11) Awarded; Lifetime Membership, Yukon Chamber of Mines, 1989.
- 12) Awarded: Hall of Fame induction by Yukon Prospectors Association, 1992.

ITEMIZED COST STATEMENT**DI 1-14 Claim Group**

Period July, 1999 to March, 2000

WAGES:

The following persons were employed on the DI 1-14 claim group on the dates indicated:

Ron Granger: July 28-31/99; Aug. 12,13; Aug. 16-19; Aug. 24-26; Sept. 8; Sept. 18/99 16 1/2 days @ \$125	\$ 2062.50
Dave Wiklund: Sept. 18/99 1 day @ \$125	\$ 125.00

Wage Total:	\$ 2187.50

DRAUGHTING & REPORT:

Ron Granger: Nov./99 and Mar./99 4 days @ \$125.00	\$ 500.00
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CAMP & FOOD:

20 man days @ \$30.00	\$ 600.00
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ASSAYING:

Soil samples: Au + ICP, 16 @ \$18.73	\$ 299.68
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Rock samples: Au + ICP, 26 @ \$22.74	\$ 591.24
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Chemical assays:	\$ 48.25
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Assay Total:	\$ 939.17
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VEHICLES:

Honda 4*4 ATV; 20 days @ \$25	\$ 500.00
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Truck 4*4 ; 20 days @ \$50	\$ 1000.00
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Vehicle Total:	\$ 1500.00
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EQUIPMENT:

GPS Trimble, radiophone, chainsaw, altimeter, tools, stove, lamps, etc. \$ 340.00

SHIPPING:

Sample shipment \$ 42.12

TOTAL:
\$ 6108.79

Signed:



Ron Granger,
Creston, B.C.



**ASSAYING
GEOCHEMISTRY
ANALYTICAL CHEMISTRY
ENVIRONMENTAL TESTING**

10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 6T4
Phone (250) 573-5700 Fax (250) 573-4557
email: ecotech@mail.wkpowerlink.com

CERTIFICATE OF ASSAY AK 99-411

RON GRANGER
619 20TH AVE. S
CRESTON, BC
V0B 1G5

2-Sep-99

ATTENTION: RON GRANGER

No. of samples received: 7
Sample type: Rock
PROJECT #: 99-A
SHIPMENT #: 2
Samples submitted by: R. Granger

ET #.	Tag #	Au (g/t)	Au (oz/t)	Ag (g/t)	Ag (oz/t)	As (%)	Pb (%)
2	R99-13	2.41	0.070	386.0	11.26	8.38	19.35


QC DATA:

Repeat:

2	R99-13	2.82	0.082	-	-	-	-
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Standard:

STD-M		1.35	0.039	-	-	-	-
Mpla		-	-	70.0	2.04	0.85	4.30

per 
ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer



ASSAYING
GEOCHEMISTRY
ANALYTICAL CHEMISTRY
ENVIRONMENTAL TESTING

10041 E. Trans Canada Hwy., R.H. #2, Kamloops, B.C. V2C 6T4
Phone (250) 573-5700 Fax (250) 573-4557
email: ecotech@mail.wkpowerlink.com

CERTIFICATE OF ASSAY AK 99-325

RON GRANGER
619 20TH AVE. S.
CRESTON, BC
V0B 1G5

19-Aug-99

ATTENTION: RON GRANGER

No. of samples received: 12

Sample type: Rock

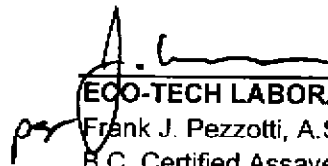
PROJECT #: 99-A,B

SHIPMENT #: 1

Samples submitted by: R. Granger

ET #.	Tag #	Ag (g/t)	Ag (oz/t)
8	R99-8A	48.4	1.41

XLS/99



ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

17-Aug-99

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 6T4

ICP CERTIFICATE OF ANALYSIS AK 99-325

RON GRANGER
619 20TH AVE. S.
CRESTON, BC
V0B 1G5

Phone: 250-573-5700
Fax : 250-573-4557

ATTENTION: RON GRANGER

No. of samples received: 12
Sample type: Rock
PROJECT #: 99-A,B
SHIPMENT #: 1
Samples submitted by: R. Granger

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	R99-1	5	<0.2	1.70	<5	130	35	0.55	<1	8	146	25	3.20	<10	0.79	412	<1	0.05	8	1090	44	<5	<20	42	0.14	<10	26	<10	14	60
2	R99-2	5	<0.2	1.68	<5	55	10	0.52	<1	8	89	21	3.06	<10	0.85	508	1	0.03	7	1160	18	<5	<20	30	0.09	<10	24	<10	13	53
3	R99-3	<5	<0.2	0.49	5	70	<5	0.14	<1	5	113	16	1.11	20	0.06	669	1	0.02	6	820	18	<5	<20	5	<0.01	<10	5	<10	12	35
4	R99-4	<5	0.6	0.55	25	225	<5	0.15	1	4	118	59	1.88	30	0.02	1952	4	0.02	7	1010	24	<5	<20	9	<0.01	<10	5	<10	30	76
5	R99-5	<5	0.4	0.28	<5	145	<5	0.13	1	4	64	2	1.49	40	0.02	1755	2	<0.01	6	740	4	<5	<20	5	<0.01	<10	3	<10	21	40
6	R99-6	<5	1.4	0.38	<5	55	<5	0.07	<1	2	101	4	0.88	20	0.12	528	3	0.02	6	410	10	<5	<20	7	<0.01	<10	3	<10	9	131
7	R99-7	<5	0.4	0.46	5	55	<5	0.11	1	6	137	15	1.51	20	0.21	697	<1	0.01	9	440	20	<5	<20	1	0.02	<10	14	<10	3	282
8	R99-8A	5	>30	0.20	10	45	<5	<0.01	8	9	141	212	6.15	<10	<0.01	527	17	<0.01	14	890	1208	<5	<20	20	<0.01	<10	4	<10	<1	1206
9	R99-8B	<5	1.4	0.54	30	65	<5	0.05	1	4	81	29	2.01	10	0.17	799	3	0.02	13	410	38	<5	<20	6	<0.01	<10	7	<10	8	80
10	R99-9	5	0.8	0.36	55	65	<5	0.03	2	2	91	26	1.76	10	0.03	839	4	0.01	10	390	68	<5	<20	12	<0.01	<10	5	<10	<1	128
11	R99-10	15	1.8	0.35	1930	100	<5	0.02	17	7	115	417	4.96	10	<0.01	2017	10	<0.01	14	410	520	<5	<20	10	<0.01	<10	8	<10	<1	1066
12	R99-11	30	2.4	0.11	1830	60	<5	0.01	13	6	189	155	3.54	<10	<0.01	1503	8	<0.01	14	130	624	<5	<20	27	<0.01	<10	4	<10	<1	476

QC DATA:

Resplit:

1	R99-1	<5	<0.2	1.69	<5	115	35	0.55	<1	8	138	24	3.21	<10	0.77	410	<1	0.05	9	1100	48	<5	<20	36	0.15	<10	26	<10	15	78
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Repeat:

1	R99-1	<5	<0.2	1.70	<5	125	30	0.55	<1	8	147	24	3.22	<10	0.78	411	<1	0.05	9	1100	46	<5	<20	36	0.15	<10	26	<10	14	63
10	R99-9	-	1.0	0.35	60	65	<5	0.03	1	2	91	26	1.73	10	0.03	824	4	0.01	10	390	72	<5	<20	12	<0.01	<10	5	<10	<1	129

Standard:

GEO'99		125	1.0	1.77	60	145	10	1.76	<1	18	64	83	3.76	<10	0.94	682	<1	0.02	25	690	20	10	<20	58	0.08	<10	77	<10	7	64
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df/348
XLS/99


ECO-TECH LABORATORIES LTD.
 Frank J. Pezzotti, A.Sc.T.
 B.C. Certified Assayer

31-Aug-99

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 6T4

ICP CERTIFICATE OF ANALYSIS AK 99-411

RON GRANGER
619 20TH AVE. S
CRESTON, BC
V0B 1G5

Phone: 250-573-5700
Fax : 250-573-4557

ATTENTION: RON GRANGER

No. of samples received: 7
Sample type: Rock
PROJECT #: 99-A
SHIPMENT #: 2
Samples submitted by: R. Granger

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	R99-12	20	4.0	0.25	1110	135	<5	0.02	9	3	85	61	2.46	20	<0.01	3597	4	<0.01	3	200	320	<5	<20	29	<0.01	<10	4	<10	1	216
2	R99-13	>1000	>30	0.12	>10000	195	<5	0.03	666	17	61	1917	>10	40	<0.01	>10000	31	<0.01	2	3950	>10000	770	<20	29	0.01	<10	6	<10	<1	1453
3	R99-14	5	4.8	0.43	365	75	5	0.05	4	4	101	13	1.82	10	0.09	822	6	0.02	8	370	734	<5	<20	6	<0.01	<10	5	20	8	245
4	R99-15	5	1.2	0.27	130	65	<5	<0.01	<1	3	147	12	1.26	20	<0.01	523	5	0.01	4	170	152	<5	<20	4	<0.01	<10	2	<10	2	115
5	R99-16	575	17.0	0.72	75	45	<5	0.07	4	22	154	601	3.65	<10	0.25	881	6	0.02	25	310	708	<5	<20	4	<0.01	<10	32	<10	<1	1834
6	R99-17	5	<0.2	1.76	50	50	5	0.05	<1	7	79	35	4.09	20	1.18	574	4	0.01	9	380	52	<5	<20	1	0.01	<10	20	<10	<1	76
7	R99-18	5	<0.2	1.49	50	60	5	0.13	<1	6	100	25	3.04	20	0.92	286	3	0.01	10	330	44	10	<20	11	0.04	<10	23	<10	11	52

QC DATA:

Resplit:

1	R99-12	20	4.2	0.26	1145	140	<5	0.02	11	3	90	62	2.59	30	<0.01	3650	5	<0.01	4	220	334	<5	<20	28	<0.01	<10	4	<10	3	224
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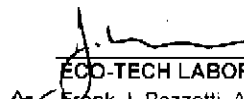
Repeat:

1	R99-12	20	4.2	0.27	1145	130	<5	0.02	10	3	90	62	2.58	30	<0.01	3717	5	<0.01	3	230	332	<5	<20	26	<0.01	<10	2	<10	4	218
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Standard:

GEO'99		120	1.2	1.69	70	170	5	1.84	<1	18	66	88	3.84	10	0.98	687	<1	0.02	24	690	22	10	<20	59	0.10	<10	73	<10	7	73
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df/410
XLS/99


 ECO-TECH LABORATORIES LTD.
 Frank J. Pezzotti, A.Sc.T.
 B.C. Certified Assayer

8-Sep-99

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 6T4

ICP CERTIFICATE OF ANALYSIS AK 99-435

RON GRANGER
619, 20TH AVE S.
CRESTON, BC
V0B 1G5

Phone: 604-573-5700
Fax : 604-573-4557

ATTENTION: RON GRANGER

No. of samples received: 5
Sample type: Rock
PROJECT #: 99-A
SHIPMENT #: 3
Samples submitted by: R. Granger

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	R99-19	5	<0.2	1.71	<5	55	10	0.60	<1	9	88	11	2.86	10	0.83	493	2	0.03	8	1020	10	<5	<20	46	0.11	<10	25	<10	27	81
2	R99-20	15	0.2	1.28	<5	60	5	0.22	<1	8	108	64	2.98	30	0.43	382	6	0.02	8	1020	14	<5	<20	7	<0.01	<10	11	<10	4	42
3	R99-21	5	<0.2	2.16	<5	190	10	0.58	<1	10	106	13	3.31	10	0.84	498	<1	0.07	10	1050	18	5	<20	44	0.12	<10	30	<10	20	74
4	R99-22	5	<0.2	2.21	<5	55	15	0.74	<1	11	75	70	3.87	20	1.25	391	<1	0.03	6	1370	16	15	<20	51	0.16	<10	44	<10	21	53
5	R99-23	10	<0.2	1.33	<5	90	<5	3.27	<1	42	112	412	6.70	20	0.29	2843	5	0.02	25	810	4	<5	<20	15	0.09	<10	259	<10	<1	30

QC DATA:

Resplit:

1	R99-19	<5	<0.2	1.76	<5	45	5	0.62	<1	9	94	12	2.93	10	0.84	506	2	0.03	8	1040	12	5	<20	45	0.11	<10	26	<10	24	83
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Repeat:

1	R99-19	<5	<0.2	1.73	<5	45	10	0.62	<1	9	89	12	2.91	10	0.83	511	2	0.03	9	1040	8	<5	<20	43	0.11	<10	27	<10	23	81
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Standard:

GEO'99		115	1.0	1.77	65	170	<5	1.86	<1	18	61	90	3.84	10	0.98	675	<1	0.02	24	680	18	5	<20	65	0.10	<10	77	<10	7	71
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df/430
XLS/99


ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

23-Sep-99

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 6T4

ICP CERTIFICATE OF ANALYSIS AK 99-489

RON GRANGER
619, 20TH AVE S.
CRESTON, BC
V0B 1G5

Phone: 604-573-5700
Fax : 604-573-4557


ATTENTION: RON GRANGER

No. of samples received: 5
Sample type: Rock
PROJECT #: 99A,B
SHIPMENT #: 4
Samples submitted by: R. Granger

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn	
1	R99-24	10	0.6	0.08	5	20	<5	0.02	<1	2	160	6	0.46	<10	<0.01	393	4	0.01	6	90	22	<5	<20	8	<0.01	<10	1	<10	<1	48	
2	R99-25	5	0.4	0.35	5	140	<5	0.19	<1	3	101	5	1.41	10	0.03	720	6	0.02	5	650	6	<5	<20	9	<0.01	<10	3	<10	7	16	
3	RB99-1	5	1.2	0.12	<5	10	25	0.08	<1	3	275	10	1.20	<10	0.08	60	14	<0.01	8	440	44	<5	<20	<1	<0.01	<10	2	<10	<1	2	
4	RB99-2	10	<0.2	0.80	15	110	5	0.16	<1	6	112	25	1.46	<10	0.56	86	4	0.05	6	610	8	<5	<20	<1	0.04	<10	6	<10	6	6	
5	RB99-3	5	0.4	1.78	<5	55	30	<0.01	1	13	113	68	>10	<10	0.67	298	15	<0.01	14	340	2	<5	<20	<1	<0.01	10	15	<10	<1	95	
QC DATA:																															
Resplit:																															
1	R99-24	10	0.2	0.09	<5	10	<5	0.01	<1	2	173	6	0.50	<10	0.01	384	6	0.01	7	80	18	<5	<20	7	<0.01	<10	1	<10	<1	47	
Standard:																															
GEO'99		120	1.2	1.73	65	145	5	1.74	<1	20	63	82	3.87	<10	0.96	677	<1	0.02	24	690	18	5	<20	58	0.08	<10	76	<10	7	72	

df/488
XLS/99


ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

27-Aug-99

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 6T4

ICP CERTIFICATE OF ANALYSIS AK 99-413

RON GRANGER
619 20TH AVE S
CRESTON, BC
V0B 1G5

Phone 250-573-5700
Fax 250-573-4557

ATTENTION: RON GRANGER

No. of samples received: 9
Sample type: Soil
PROJECT #: 99-A
SHIPMENT #: 2
Samples submitted by: R. Granger

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	S99-1	20	3.0	2.56	615	125	5	0.07	3	22	16	96	4.14	10	0.30	1453	3	0.01	42	860	166	<5	<20	11	0.08	<10	34	<10	24	669
2	S99-2	15	1.0	2.48	360	90	<5	0.08	2	33	22	174	4.47	10	0.61	976	2	<0.01	50	1180	180	<5	<20	9	0.08	<10	51	<10	17	734
3	S99-3	15	0.8	1.87	155	85	<5	0.31	3	13	15	88	2.95	10	0.75	566	<1	<0.01	43	1620	70	<5	<20	21	0.05	<10	36	<10	21	2029
4	SB99-15	<5	<0.2	0.90	<5	55	<5	0.05	<1	6	8	10	1.26	10	0.27	99	<1	<0.01	7	430	8	<5	<20	<1	0.06	<10	12	<10	14	34
5	SB99-16	<5	<0.2	0.70	<5	50	10	0.03	<1	6	10	8	2.33	<10	0.09	67	<1	<0.01	6	530	16	<5	<20	<1	0.14	<10	49	<10	10	31
6	SB99-17	5	<0.2	1.57	<5	55	10	0.03	<1	13	17	52	2.69	20	1.08	244	<1	<0.01	15	210	12	10	<20	<1	0.07	<10	68	<10	27	38
7	SB99-18	5	<0.2	1.37	<5	65	5	0.03	<1	7	12	20	1.98	20	0.38	103	<1	<0.01	15	380	16	<5	<20	<1	0.05	<10	18	<10	28	39
8	SB99-19	10	<0.2	1.31	<5	80	<5	0.01	<1	8	14	23	2.18	30	0.53	124	<1	<0.01	13	240	10	<5	<20	2	0.05	<10	16	<10	27	37
9	SB99-20	5	<0.2	2.09	5	90	15	0.04	<1	9	10	16	2.23	10	0.24	182	<1	<0.01	13	490	16	<5	<20	<1	0.09	<10	27	<10	16	44

QC DATA:

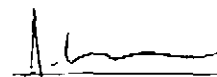
Repeat:

1	S99-1	-	3.0	2.55	600	115	15	0.06	4	22	16	96	4.16	10	0.30	1468	2	<0.01	43	880	174	<5	<20	8	0.08	<10	34	<10	26	669
4	SB99-15	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Standard:

GEO'99		115	1.0	1.84	65	150	5	1.84	<1	19	64	84	3.87	<10	0.95	644	<1	0.02	22	700	20	<5	<20	55	0.09	<10	70	<10	8	72
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df/387
XLS/99


ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

10-Sep-99

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 6T4

ICP CERTIFICATE OF ANALYSIS AK 99-436

RON GRANGER
619, 20TH AVE S.
CRESTON, BC
V0B 1G5

Phone: 604-573-5700
Fax : 604-573-4557

ATTENTION: RON GRANGER

No. of samples received: 3
Sample type: Soil
PROJECT #: 99-A
SHIPMENT #: 3
Samples submitted by: R. Granger

Values in ppm unless otherwise reported

Et #	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	S99-4	10	1.0	1.72	110	135	15	0.10	2	12	20	29	2.84	20	0.46	1026	1	<0.01	20	720	92	<5	<20	18	0.04	<10	36	<10	6	217
2	S99-5	55	1.8	2.56	95	115	10	0.07	4	10	11	24	1.94	<10	0.16	1678	<1	0.01	16	1330	110	<5	<20	9	0.11	<10	29	<10	18	255
3	S99-6	15	0.4	1.75	135	100	10	0.12	1	16	29	55	3.21	20	0.66	795	<1	<0.01	28	530	138	<5	<20	12	0.05	<10	44	<10	5	249

QC DATA:

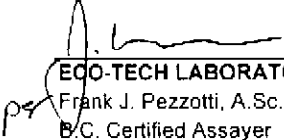
Repeat:

1	S99-4	10	0.8	1.68	110	125	10	0.09	2	11	19	28	2.77	20	0.45	1003	1	<0.01	19	710	84	<5	<20	15	0.03	<10	35	<10	4	213
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Standard:

GEO'99	125	1.2	1.76	65	165	<5	1.84	<1	19	54	87	3.86	<10	0.98	651	<1	0.02	24	660	22	5	<20	55	0.09	<10	74	<10	8	69
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df/432
XLS/99


ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

7-Oct-99

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 6T4

ICP CERTIFICATE OF ANALYSIS AK 99-490R

RON GRANGER
619, 20TH AVE S.
CRESTON, BC
V0B 1G5

Phone: 604-573-5700
Fax : 604-573-4557

ATTENTION: RON GRANGER

No. of samples received: 19
Sample type: Soil
PROJECT #: 99A,B
SHIPMENT #: 4
Samples submitted by: R Granger

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	S99-7	<5	0.4	3.17	45	175	15	0.12	<1	11	17	16	2.65	<10	0.24	1168	<1	0.01	16	2000	46	<5	<20	16	0.11	<10	34	<10	11	141
2	S99-8	<5	0.4	1.51	25	235	10	0.15	<1	6	15	11	1.89	20	0.32	1219	1	0.01	15	830	26	<5	<20	28	0.03	<10	22	<10	7	80
3	S99-9	<5	0.4	2.89	15	205	15	0.20	1	11	16	18	3.08	10	0.30	2030	<1	0.02	11	1890	38	<5	<20	19	0.08	<10	43	<10	5	162
4	S99-10	<5	0.2	4.22	25	215	15	0.15	<1	15	19	46	3.23	20	0.39	1539	<1	0.02	19	1690	40	5	<20	11	0.13	<10	48	<10	38	193
5	S99-11	<5	1.0	1.68	<5	235	15	0.23	<1	12	17	15	3.07	10	0.27	6496	<1	0.01	10	1490	30	<5	<20	20	0.08	<10	49	<10	2	121
6	S99-12	<5	5.0	3.73	465	<5	<5	0.12	<1	18	23	30	2.92	<10	0.23	1070	22	<0.01	40	1550	106	<5	100	<1	0.04	<10	89	<10	215	115
7	S99-13	<5	1.0	2.48	15	180	15	0.19	<1	13	18	26	3.19	<10	0.19	5579	<1	0.02	10	3480	40	<5	<20	8	0.12	<10	51	<10	3	146
8	S99-14	<5	7.4	0.99	225	<5	<5	0.06	4	12	8	14	1.28	<10	<0.01	727	6	<0.01	15	640	76	<5	<20	<1	0.06	<10	55	<10	109	37
9	S99-15	<5	4.6	3.59	485	120	20	0.15	7	19	20	74	4.47	10	0.36	2264	2	0.01	50	1690	404	<5	<20	8	0.10	<10	42	<10	15	1009
10	S99-16	30	5.2	2.60	1090	230	<5	0.08	16	13	23	285	4.66	20	0.53	2160	2	0.01	42	700	420	<5	<20	17	0.07	<10	38	<10	37	1189
11	SB99-21	<5	0.4	1.61	10	155	15	0.04	<1	11	15	33	3.49	10	0.39	423	<1	0.01	13	770	26	<5	<20	<1	0.12	<10	47	<10	29	46
12	SB99-22	<5	<0.2	1.83	5	105	10	0.02	<1	12	20	31	3.47	20	0.72	280	<1	<0.01	14	340	20	<5	<20	<1	0.10	<10	40	<10	61	45
13	SB99-23	<5	0.6	3.52	15	255	10	0.47	<1	17	29	54	4.23	20	1.11	1681	<1	0.01	30	1030	24	10	<20	7	0.10	<10	44	<10	79	73
14	SB99-24	<5	0.4	2.33	10	265	10	0.18	<1	17	22	34	3.40	30	0.56	1678	<1	0.01	19	910	28	<5	<20	<1	0.07	<10	42	<10	70	70
15	SB99-25	<5	<0.2	1.97	10	165	15	0.04	<1	15	23	44	3.81	20	0.91	541	<1	<0.01	20	720	20	15	<20	<1	0.09	<10	40	<10	20	41
16	SB99-26	<5	<0.2	2.09	<5	70	15	0.02	<1	14	19	42	4.29	20	0.47	376	2	<0.01	15	690	20	<5	<20	<1	0.09	<10	41	<10	10	55
17	SB99-27	<5	1.0	3.16	<5	100	15	0.08	<1	53	23	117	7.94	20	0.45	1044	9	<0.01	44	1230	40	<5	<20	<1	0.04	<10	30	<10	17	93
18	SB99-28	<5	<0.2	1.97	5	70	20	0.03	<1	11	20	43	5.65	20	0.27	346	4	<0.01	15	700	18	<5	<20	<1	0.07	<10	38	<10	<1	59
19	SB99-29	<5	0.2	1.64	15	90	10	0.04	<1	16	23	35	4.11	20	0.56	507	1	<0.01	18	580	30	<5	<20	<1	0.06	<10	43	<10	11	62