BRITISH COLUMBIA

PROSPECTORS ASSISTANCE PROGRAM

MINISTRY OF ENERGY AND MINES

GEOLOGICAL SURVEY BRANCH

PROGRAM YEAR:	1999/2000
REPORT #:	PAP 99-30
NAME:	BRUCE DOYLE

Summary for 1999 McPhee Property

Work began June 1, 1999 and ended September 20, 1999. Rock and soil samples were taken during this period. Several new discoveries were made within the 122 claims currently known as the McPhee property. The most notable discovery was made on July 16, 1999 with the discovery of native gold in quartz veins. The quartz veins are hosted in a chloritic, clay, altered sheared quartz monzonite within the Bonnington pluton. One chip sample across one of the veins assayed 20.7 0z/t Au over 22cm in width mineralization consists of trace amounts of galena and pyrite. The veins are anomalous in Mo, As, Ag, W. Other gold bearing veins have been found up to 50m from the discovery site. The veins strike 320 to 360 and dip steeply to the west. A large Au Mo amomaly with associated As Sb W Ag occurs 350m to the west and appears to be related to the new discovery site. Quartz float found within the large soil geochem assays up to 3.4 oz/t Au. Soil in this area also contains gold particles. The quartz veins appear to be related to N/S striking faults in this area. The discovery site is situated on the McPhee II claim at an elevation of 1600m and UTM coordinates of East 461711 North 5459395.

A second discovery was made on the Aarons Rod #1 claim at an elevation of 1500m and UTM coordinates East 460000 North 5461259 quartz veins cut Hornfelds medaclastic rocks and skarn striking easterly. The veins' mineralization consists of disseminated to semi massive arsenopyrite. A grab sample containing approximately 10%arsenopyrite assayed 2.3 oz/t Au. In the immediate area, 3 outcrops of massive to semi massive pyrhotite in a calc silicate skarn occur across an area approximately 70m in width. A grab sample from one of the showings assayed 0.86% W, Mo and trace amounts of chalcopyrite were visible in one of the showings. The location is at an elevation 1500m UTM cor East 460000 North 5461259.

Another discovery of old workings is believed to be that of B.W.Meister of Castlegar who possibly worked in the early 1930's. A letter dated 1933 by B.W. Meister described a high grade showing with government assays up to 2.5 0z/t Au in a shaft. The showingfound consisted of a caved addit with a 20m trench. A dump with a pile of quartz was assayed by ICP giving over 3 gms/t Au. The quartz had Py with galena, sphalerite and arsenopyrite. The quartz veins which were not seen in place are believed to strike east and dip to the north. The veins cut hornfelds metaclastic sediments. The showing is situated at an elevation of 1450m UTM 459581 East 5461306 North.

The last mineral showing discovered was a Pb Ag Cu Au showing. The mineralization consists of course galena with traces of chalcopyrite and pyrite in a marble breccia. Garnet skarn with magnetite and arsenopyrite was noted along the intrusive contact. Some 150m away results from grab samples of the marble breccia assays gave 0 .021% M.o, 0.123 %Cu, 2.53% Pb, 0.04% Zn, 0. 015oz/t Au, 2.41 oz/t Ag. The showing is located at an elevation of 1200m UTM coordinates East 457559 North. 5459688.

The property has now been optioned to Cassidy Gold Corporation to further explore the new discoveries.

BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
PROSPECTING REPORT FORM (continued)

B. TECHNICAL REPORT

- One technical report to be completed for each project area.
- **Refer to Program Requirements/Regulations 15 to 17, page 6.**
- If work was performed on claims a copy of the applicable assessment report may be submitted in lieu of the supporting data (see section 16) required with this TECHNICAL REPORT.

Name Bruce Doyle Reference Number 98/99-P70

LOCATION/COMMODITIES

Project Area (as listed in Part A) McPHEE PROPERTY MINFILE No. if applicable 82FSW 375

Location of Project Area NTS 82F023/F033 Lat 49°17'N Long 117°32'W

Description of Location and Access The McPhee property is located approximately 6 kilometres east of Castlegar, B.C. Access is via a six kilometre Secondary road that leaves Highway 3 at Bombi Summit, some 15 kilometres east of Castlegar.

Main Commodities Searched For GOLD, Silver, Zinc, TUNGSTUN

Known Mineral Occurrences in Project Area

WORK PERFORMED

1. Conventional Prospecting (area)
2. Geological Mapping (hectares/scale)
3. Geochemical (type and no. of samples) 96 Rock Samples, 150 Soil, 8 Sediment
4. Geophysical (type and line km)
5. Physical Work (type and amount)
6. Drilling (no. holes, size, depth in m, total m)
7. Other (specify)

SIGNIFICANT RESULTS

Commodities GOLD, Tungstun, lead, Silver Claim Name McPHEE II, AARONS ROD #1, WATERLOO 2 AARONS ROD #2

Location (show on map) Lat. Long Elevation

Best assay/sample type McPHEE II, 22cm chip across quartz VIEN 20.7oz per ton Au AARONS ROD #1, Grab from a quartz vein .23oz per ton Au, Grab from massive po skarn .86% W

Description of mineralization, host rocks, anomalies AARONS ROD #2. Grab from old workings 4grms Au Waterloo 2 claim grab from limestone skarn area .021 mo .123 cu 2.53% PB 2.4 oz Ag .015 oz per ton Au.

(-McPHEE II) CLAIM: Free GOLD in quartz VEINS within a sheared clay altered quartz MONZONITE Intrusive. (AARONS ROD #1) quartz VEIN with 5% ARSENOPYRITE Approx 25cm wide? hosted in Hornfels/pebble conglomerate. (AARONS ROD #2) Grab of Semi massive po in a PYROXENE SKARN. AARONS ROD #2 Grab of quartz from an old dump BIG quartz, trace Galena, ARSENOPYRITE, Sphalerite. pyrite.

Supporting data must be submitted with this TECHNICAL REPORT

Information on this form is confidential for one year from the date of receipt subject to the provisions of the *Freedom of Information Act*.

Rock and Silt Samples

*Special Note
There is no sample NO BD99R-38.
There is a sample BD99R-22 and
BD99R-22A.

ROCK AND SEDIMENT SAMPLES

BD 99R-01	Rock grab/bedrock	Skarn Disseminated py & traces of po
BD 99R-02	Rock grab/bedrock	Skarn Disseminated py & traces of po & magnetite
BD 99R-03	Rock grab/bedrock	Silicified sediments with quartz veins containing py
BD 99R-04	Rock grab/subcrop	Monzodiorite with hemitite on fractures
BD 99R-05	Rock grab/float	Quartz veins in quartz mozonite with traces of pyrite & chlorite
BD 99S-06	Silt (sediment)	Silt
BD 99S-07	Mossmat (sediment)	Mossmat
BD 99S-08	Mossmat (sediment)	Mossmat
BD 99S-09	Sediment grab/creek	Mossmat
BD 99R-10	Rock/grab/bedrock	Fine grained granite with quartz vein cointaing mo + py
BD 99R-11	Rock/grab/bedrock	Fine grained granite with vugs of quartz & pyrite
BD 99R-12	Rock/grab/bedrock	Fine grained granite with vugs of quartz & pyrite
BD 99R-13	Rock/grab/bedrock	Fine grained granite with massive po in vugs very magnetic
BD 99R-14	Rock/grab/bedrock	Rusty fine grained granite with pyrite in vugs
BD 99R-15	Rock/grab/bedrock	Rusty fine grained granite with py on the fractures traces of quartz in vugs
BD 99R-16	Rock/grab/bedrock	Rusty fine grained granite with py in vugs
BD 99R-17	Rock/grab/bedrock	Rusty granite with vugs of weathered py & traces of hemitite
BD 99R-18	Rock/grab/bedrock	Rusty fine grained granite with po in blebs (magnetic)
BD 99R-19	Rock/grab/bedrock	Rusty fine grained granite small amount of quartz, magnetite & traces of po
BD 99R-20	Rock/grab/bedrock	Disseminated py in granite 5% sulfides, non magnetic
BD 99R-21	Rock/grab/bedrock	Altered granite, small amount of py on fractures
BD 99R-22	Rock/grab/subcrop	Quartz with iron carbonate (siderite), no visible sulfides
BD 99R-22A	Rock/grab/bedrock	Quartz with feldspar, white mica, in a potassium feldspar megacrystic quartz monzonite
BD 99R-23	Rock/grab/bedrock	Potassium feldspar megacrystic quartz monzonite with rusty spots of weathered py
BD 99R-24	Rock/grab/bedrock	Rusty quartz veins in a granodiorite
BD 99R-25	Rock/grab/bedrock	Massive po 40% sulfides in skarn (magnatic)
BD 99R-26	Rock/grab/bedrock	Disseminated po in greenish skarn 25% sulfides
BD 99R-27	Rock/grab/bedrock	Intrusive breccia gneissic texture with quartz & py
BD 99R-28	Rock/grab/bedrock	Granodiorite pyrite on some factors
BD 99R-29	Rock/grab/subcrop	Fine grained granodiorite with quartz and py and vugs
BD 99R-30	Rock/grab/float	Quartz monzodiorite with disemminated py trace chalcopyrite
BD 99R-31	Rock/Grab/ bedrock	Gneissic sediments trace py and quartz
BD 99R-32	Rock/grab/bedrock	Potassium feldspar megacrystic quartz monzonite
BD 99R-33	Rock/6cmchip/bedr	Stockwork quartz veins with white mica alteration
BD 99R-34	Rock/grab/bedrock	White mica muscovite altered quartz monzonite with vugs of weathered py
BD 99R-35	Rock/grab/bedrock	Quartz veining in a quartz monzonite with muscovite mica

BD 99R-36	Rock/grab/subcrop	Quartz stockwork open spaces feldspar mica muscovite trace py
BD 99R-37	Rock/grab/ float	Quartz with trace py and in intrusive
BD 99R-38	NS	NS
BD 99R-39	Rock/grab/bedrock	Silicified limestone very fine grained py 30% sulfides
BD 99R-40	Rock/.5mchip/bedr	Quartz silicious zone in marble 15% py
BD 99R-41	Rock/grab/bedrock	Garnet skarn with disseminated py and trace arsenopyrite
BD 99R-42	Rock/ grab/ bedrock	Cherty limestone with trace py
BD 99R-43	Rock/grab/ bedrock	Sheared quartz monzonite with quartz and pyrite
BD 99R-44	Rock/grab/subcrop	White quartz with streaks of py and arsenopyrite 30% sulfides in medasediments (hornfelds)
BD 99R-45	Rock/ grab/subcrop	White quartz with veinlets of arsenopyrite 3% sulfides
BD 99R-46	Rock/grab/subcrop	White quartz with 7% disseminated arsenopyrite
BD 99R-47	Rock/grab/subcrop	White quartz with manganese staining no visible sulfides
BD 99R-48	Rock /select/bedrock	Select sample of small quartz veins in fine grained granite
BD 99R-49	Rock/grab/ bedrock	Sample of silicified Hornfelds sediments with disseminated py And small veinlets crosscutting the rock
BD 99R-50	Rock/grab/ bedrock	Sample of quartz vein with py crosscutting Hornfelds sediments
BD 99R- 51	Rock/grab/float	Altered grodiorite with yellowish staining
BD 99R-52	Rock/grab/Bedrock	Random grab from outcrop at the tungsten showing fine grained Po in a green proxene skarn
BD 99R-53	Rock/.5m chip/ FW of addit	5m chip of semi massive py in quartz from the footwall of an addit
BD 99R-54	Rock/.5mchip/HW of addit	Semi massive py in quartz within a fine grained granodorite
BD 99R-55	Rock/.3mchip/HW	.3 m chip with massive py and quartz in hanging wall
BD 99R-56	Rock/ 2m chip/ FW	2m chip of quartz with py and po in the footwall of the addit
BD 99R-57	Rock/ .2m chip/bedr	Sample across a quartz vein with visible mo and py trace sphalerite 20m south of the addit in a fine grained granodiorite
BD 99S-58	Sediment/grab/creek	Moss mat sample
BD 99S-59	Sediment/ grab/creek	Moss mat sample
BD 99S-60	Sediment /grab/creek	Moss mat sample
BD 99R- 61	Rock/grab/ bedrock	Grab from a quartz vein with 5% arsenopyrite in Hornfelds sediments
BD 99R-62	Rock/grab/bedrock	Grab of quartz with 10% arsenopyrite hosted in a Hornfelds sedimentary rock
Bd 99R-63	Sediment/grab/creek	Moss mat sample
BD 99R-64	Rock/grab/subcrop	Grab of a piece of quartz vein with rusty box work texture trace Pb and Py hosted by quartz monzonite
BD 99R-65	Rock/grab/subcrop	Grab of quartz rusty colour small pieces of galena visible gold in sample quartz monzonite
BD 99R-66	Rock/grab/float	Grab of weathered pyrite in quartz rusty colour
BD 99R-67	Rock /grab/bedrock	Sample quartz in clay altered quartz monzonite with py and trace galena
BD 99R-68	Rock/select/bedrock	Select sample of vugy white quartz with crystals and trace py
BD 99R-69	Rock/grab/bedrock	Grab of vugy crystals of quartz in cutting clay altered quartz monzonite
BD 99R-70	Rock/grab/bedrock	Quartz vein with py in clay altered quartz monzonite
BD 99R-71	Rock/grab/bedrock	Grab of quartz vein trace py in clay altered sheared quartz monzonite trace py

BD 99R-72	Rock/grab/bedrock	Sample of quartz veins 1-3 cm wide with weathered py and manganese staining
BD 99R-73	Rock/grab/bedrock	Rusty fine grained tuff with disseminated py
BD 99R-74	Rock/grab/bedrock	Rusty fine grained tuff with disseminated py
BD 99R-75	Rock/grab/bedrock	Rusty fine grained tuff with disseminated py
BD 99R-76	Rock/grab/bedrock	Sheared breccia rusty tuff no visible sulfides
BD 99R-77	Rock/grab/bedrock	Sample of fractured brecciated tuff with disseminated py
BD 99R-78	Rock/grab/float	Sample of quartz with rusty vugs trace amount of galena and hosted in Hornsfelds sediments
BD 99R-79	Rock/grab/subcrop	Grab of quartz from an old trench or caved addit trace amounts of galena, arsenopyrite and sphalerite, py
BD 99R-80	Rock/grab/ subcrop	Grab of quartz from and old trench or caved in addit trace amounts of galena, arsenopyrite and sphalerite, py
BD 99R-81	Rock/grab/old dump	Grab from and old dump small amounts of py, arsenopyrite, galena, sphalerite
BD 99R-82	Rock/grab/old dump	Sample from and old dump trace amounts of py, arsenopyrite and galena
BD 99R-83	Rock/grab/old dump	Random grab from the Maud S. Dump of quartz fragments
BD 99R-84	Rock/select/old dump	Select sample of quartz fragments
BD 99R-85	Rock/grab/bedrock	Sample above the Maud S. mine of quartz veins with arsenopyrite hosted in course grained diorite
BD 99R-86	Rock/grab/float	Above the main Maud S. Mine grab of quartz from top workings trace py and galena
BD 99R-87	Rock/grab/float	Grab from a white quartz boulder 20cm x15cm trace py
BD 99R-88	Rock/grab/float	Grab from a quartz boulder trace amounts of galena visible gold
BD 99R-89	Rock/grab/bedrock	Grab of altered granodiorite with massive chlorite serpentine on slicks no visible mineralization
BD 99R-90	Rock/grab/bedrock	Grab of sheared granodiorite with small quartz veins and trace amounts of py
BD 99R-91	Rock/.4chip/bedrock	Chip of quartz vein with disseminated py 10% sulfides
BD 99R-92	Rock/grab/bedrock	A grab from a 10cm wide quartz vein of white quartz with black manganese stain
BD 99R-93	Rock/grab/bedrock	Grab from the same vein as sample 92, rusty quartz with trace amounts of pyrite
BD 99R-94	Rock/grab/subcrop	Sample taken from vein of rusty quartz with trace amounts of pyrite and galena
BD 99R-95	Rock/grab/bedrock	Sample of clay altered quartz monzonite some silicification and trace pyrite
BD 99R-96	Rock/22cmchip/bedr	22 cm chip across a quartz vein with box work weathered sulfides visible gold
BD 99R-97	Rock/grab/subcrop	Subcrop from vein rusty quartz trace py and galena also visible gold
BD 99R-98	Rock/10cmchip/bedr	10cm chip across of rusty quartz vein with trace pyrite
BD 99R-99	Rock/grab/ bedrock	Grab of granodiorite with small milky quartz veins
BD 99R-100	Rock/grab/float	Sample of large float slab of silicified granodiorite with disseminated pyrite with calcite stringers
BD 99R-101	Rock/grab/ subcrop	Sample of silicified limestone with trace py and arsenopyrite and small patch of dark brown sphalerite
BD 99R-102	Rock/grab/bedrock	Sample of limestone breccia with disseminated galena trace sphalerite and chalcopyrite

BD 99R-103	Rock/grab/bedrock	Weathered manganese stained limestone with course patches of galena
BD 99R-104	Rock/grab/float	Quartz boulder 15cm x15cm with trace amounts of galena and visible gold

ACME ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.)
852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Doyle, Bruce File # 9901693

1424 Crease Ave, Nelson BC V1L 1A2

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
B099R-01	4	86	7	59	.6	7	15	1218	4.23	108	<8	<2	2	150	.4	4	4	63	2.62	.057	4	15	1.06	92	.06	15	1.11	.14	.27	2	5
B099R-02	1	122	3	95	.3	2	16	1262	5.00	9	<8	<2	<2	55	.5	<3	4	72	1.84	.070	5	11	1.24	60	.10	<3	1.33	.13	.22	<2	2
B099R-03	5	214	7	8	.3	20	11	161	3.88	6	<8	<2	2	16	<.2	<3	<3	37	.23	.023	3	55	.23	51	.07	3	.75	.04	.09	14	3
B099R-04	3	6	6	27	<.3	3	3	1109	1.96	3	<8	<2	5	45	.3	<3	<3	27	.27	.082	15	10	.40	208	.03	10	1.16	.14	.33	5	1
B099R-05	3	10	57	64	.7	6	2	499	1.58	5	<8	<2	3	13	.5	<3	<3	8	.10	.035	12	26	.16	276	.01	26	.82	.02	.32	12	13
B099R-10	796	54	3	7	.3	3	3	159	2.89	<2	<8	<2	8	39	<.2	<3	5	41	.20	.034	9	21	.19	92	.10	<3	1.00	.14	.30	10	1
B099R-11	9	100	<3	12	.3	3	8	154	2.21	<2	<8	<2	9	34	.2	<3	7	36	.37	.033	15	22	.30	24	.11	5	.89	.05	.18	8	1
B099R-12	12	277	8	10	.4	4	31	138	2.59	<2	<8	<2	9	31	<.2	<3	<3	30	.29	.024	11	20	.24	31	.10	6	.80	.07	.12	10	5
B099R-13	15	140	<3	19	<.3	5	14	190	3.01	<2	<8	<2	10	49	<.2	<3	4	40	.32	.041	21	21	.38	86	.12	3	1.07	.18	.36	9	4
B099R-14	12	85	<3	9	<.3	4	7	141	2.37	<2	<8	<2	10	38	<.2	<3	4	39	.27	.041	14	20	.32	52	.12	<3	.90	.11	.23	9	1
B099R-15	6	103	<3	17	<.3	6	12	223	2.26	<2	<8	<2	9	38	<.2	<3	<3	36	.25	.037	16	25	.36	83	.12	<3	.97	.16	.45	11	2
B099R-16	7	73	4	10	<.3	1	11	113	2.31	<2	<8	<2	10	46	<.2	<3	<3	37	.22	.037	15	21	.27	66	.12	<3	.94	.15	.28	9	2
B099R-17	7	77	<3	21	<.3	2	5	248	3.38	<2	<8	<2	9	37	<.2	<3	<3	52	.21	.059	16	26	.45	105	.15	<3	.96	.13	.57	11	1
B099R-18	14	82	3	27	<.3	6	8	270	2.68	<2	<8	<2	10	40	<.2	<3	3	59	.32	.064	19	24	.61	130	.17	<3	1.12	.17	.72	10	2
RE B099R-18	14	86	4	27	<.3	3	9	273	2.68	<2	<8	<2	10	41	.3	<3	7	59	.32	.064	19	23	.61	134	.17	3	1.15	.18	.72	10	2
B099R-19	4	19	3	17	<.3	3	3	231	1.90	<2	<8	<2	4	66	<.2	<3	<3	33	.52	.054	15	24	.30	53	.10	3	.93	.22	.17	12	1
B099R-20	4	64	3	10	<.3	1	6	166	2.34	<2	<8	<2	<2	73	.2	<3	6	21	.50	.069	13	11	.18	123	.09	<3	.86	.20	.21	6	4
B099R-21	12	90	<3	32	<.3	3	10	299	3.20	<2	<8	<2	9	40	<.2	<3	4	62	.35	.070	21	27	.63	117	.18	<3	1.17	.19	.68	10	2
STANDARD C3/AU-R	26	71	40	176	6.2	37	13	834	3.54	55	18	4	21	29	24.5	20	32	84	.60	.087	19	183	.64	148	.10	22	1.93	.06	.17	20	516
STANDARD G-2	1	2	<3	42	<.3	8	4	561	2.09	<2	<8	<2	4	84	<.2	<3	<3	43	.69	.094	8	81	.61	227	.14	<3	1.12	.14	.52	3	1

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND MASSIVE SULFIDE AND LIMITED FOR NA K AND AL.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK AU* - IGNITED, AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED. (10 gm)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUN 11 1999 DATE REPORT MAILED: June 15/99 SIGNED BY: D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data FA

ACME ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.)
852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Doyle, Bruce File # 9901945

1424 Crease Ave, Nelson BC V1L 1A2

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
BD99S-07	2	18	44	86	1.1	26	10	610	3.01	5	17	<2	5	55	<.2	12	3	91	.64	.096	16	58	.59	137	.13	6	1.20	.01	.16	4	570
BD99S-08	2	24	28	87	1.0	28	13	420	3.66	<2	<8	<2	5	50	<.2	12	<3	126	.58	.084	12	72	.97	135	.18	<3	1.54	<.01	.18	12	183
BD99S-09	1	20	18	57	<.3	23	11	400	3.96	<2	<8	<2	5	69	<.2	11	<3	131	.87	.232	34	101	.53	96	.12	7	1.10	.02	.15	3	12
RE BD99S-09	2	19	24	56	<.3	24	10	384	3.93	<2	<8	<2	6	67	<.2	10	9	129	.84	.227	32	100	.50	91	.12	5	1.04	.01	.14	3	13

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND MASSIVE SULFIDE AND LIMITED FOR NA K AND AL.
- SAMPLE TYPE: MOSS MAT AU* - AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED. (10 gm)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUN 25 1999 **DATE REPORT MAILED:** July 7/99 **SIGNED BY:** C. Leong D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

 Data___ FA ____

ACME ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.)
852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Doyle, Bruce File # 9901944

1424 Crease Ave, Nelson BC V1L 1A2

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
BD99S-06	4	28	27	164	.4	53	16	724	3.61	<2	<8	<2	7	101	.2	13	<3	87	.99	.190	32	76	1.32	318	.22	4	1.87	.02	.22	2	7
RE BD99S-06	4	30	31	168	.3	57	16	754	3.59	<2	<8	<2	5	103	<.2	11	5	85	1.01	.188	32	76	1.41	335	.23	5	1.93	.02	.24	2	4

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND MASSIVE SULFIDE AND LIMITED FOR NA K AND AL.
- SAMPLE TYPE: SILT AU* - AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED. (10 gm)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUN 25 1999 **DATE REPORT MAILED:** July 7/99 **SIGNED BY.** C. Leong D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Date___ FA ___

ACME ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.) 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Doyle, Bruce File # 9901943

1424 Crease Ave, Nelson BC V1L 1A2

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
BD-99R-22	1	19	21	20	1.4	3	2	406	1.50	8	<8	<2	4	64	.2	<3	<3	3	.61	.036	13	9	.06	392	<.01	7	.37	.03	.21	2	23
BD-99R-22A	4	4	19	73	1.0	13	3	1048	2.67	9	<8	<2	<2	97	.5	<3	<3	12	1.12	.004	2	20	.12	77	<.01	7	.24	.01	.10	5	11
BD-99R-23	1	32	5	17	.6	4	4	284	2.01	2	<8	<2	5	42	<.2	<3	<3	38	.34	.047	14	12	.14	55	.07	<3	.51	.08	.08	3	<1
BD-99R-24	30	136	222	123	32.1	4	5	384	3.20	24	<8	<2	7	8	<.2	3	43	24	.11	.072	12	12	.48	80	.04	<3	1.14	.06	.31	4	420
BD-99R-25	8	720	4	11	.9	272	60	151	14.18	<2	<8	<2	<2	57	2.6	<3	4	18	.59	.039	2	35	.27	24	.05	<3	.71	.02	.02	442	26
BD-99R-26	3	284	8	20	.9	101	18	243	4.64	<2	<8	<2	<2	34	<.2	6	3	33	1.32	.084	3	88	.63	14	.11	<3	1.46	.03	.02	63	5
BD-99R-27	3	432	3	27	.7	40	64	322	4.90	6	<8	<2	<2	29	<.2	4	<3	64	.60	.055	2	54	.80	41	.11	<3	1.04	.08	.10	39	12
BD-99R-28	5	154	3	23	.4	27	18	215	2.84	2	<8	<2	5	26	<.2	4	<3	60	.29	.039	2	26	.61	43	.17	<3	1.04	.11	.18	7	16
BD-99R-29	4	90	10	6	.8	16	1	60	2.55	24	<8	<2	<2	5	<.2	<3	<3	8	.02	.016	<1	22	.03	18	.01	<3	.09	.01	.04	8	85
BD-99R-30	1	17	21	30	.4	9	8	897	2.07	<2	<8	<2	6	74	<.2	<3	<3	12	1.75	.070	22	10	.06	153	.01	<3	.60	.07	.32	2	59
BD-99R-31	9	294	4	67	.8	69	42	551	8.29	5	<8	<2	4	34	.8	9	<3	178	.59	.094	10	81	1.63	104	.35	<3	2.84	.11	.51	3	14
BD-99R-32	2	90	7	82	1.1	7	7	1354	3.72	2	<8	<2	2	47	<.2	7	<3	41	.80	.092	14	11	1.02	156	.04	<3	1.20	.04	.30	8	6
BD-99R-33	33	25	8	55	.9	3	5	1233	3.55	69	9	<2	3	28	<.2	5	<3	13	.12	.095	9	11	.06	1209	.01	4	.58	.01	.38	4	27
BD-99R-34	12	8	<3	9	.6	6	2	202	1.58	3	<8	<2	2	18	<.2	3	<3	4	.09	.047	8	28	.12	446	<.01	6	.43	.02	.23	13	<1
BD-99R-35	9	17	6	5	.3	6	2	197	1.14	<2	<8	<2	2	16	<.2	<3	<3	2	.03	.019	5	20	.03	825	<.01	<3	.23	.02	.14	6	<1
BD-99R-36	1	14	7	9	.6	2	3	635	1.69	11	<8	<2	4	47	<.2	<3	<3	7	.44	.047	12	17	.09	668	<.01	<3	.43	.02	.23	4	10
BD-99R-37	5	20	5	12	.7	5	3	597	1.94	<2	<8	<2	5	39	.2	<3	<3	7	.43	.062	16	20	.09	235	<.01	<3	.64	.05	.37	9	13
BD-99R-39	4	25	173	45	2.4	37	12	497	5.56	391	<8	<2	<2	49	<.2	7	<3	49	.61	.057	3	23	.42	50	<.01	<3	.47	.01	.06	4	300
BD-99R-40	5	45	568	384	3.3	24	8	1610	10.50	783	<8	<2	<2	22	3.5	17	3	171	.28	.060	5	26	1.07	49	.01	<3	1.31	<.01	.05	5	678
BD-99R-41	2	13	37	211	1.2	10	4	3232	6.86	301	<8	<2	5	847	2.1	13	<3	214	8.90	.027	5	12	.39	76	.01	6	1.49	.01	.23	4	44
BD-99R-42	3	2	12	111	.5	28	5	1880	2.96	14	<8	<2	2	427	.5	5	<3	73	12.80	.083	9	27	.66	118	.04	8	.92	.01	.19	2	16
RE BD-99R-42	4	2	10	115	.7	28	5	1945	3.08	17	<8	<2	2	440	.8	8	<3	77	13.29	.085	9	28	.68	122	.04	9	.98	.01	.19	3	14
BD-99R-43	7	95	7	13	.6	4	4	93	2.13	7	<8	<2	2	34	<.2	<3	<3	19	.38	.043	6	8	.18	49	.14	<3	.38	.08	.11	3	3
BD-99R-44	7	73	10	36	.3	6	6	355	2.03	22	<8	<2	<2	128	.3	<3	<3	40	2.75	.040	3	25	.04	134	.11	3	2.38	.08	.03	9	10
BD-99R-45	1	5	5	6	.7	4	1	53	1.18	6239	<8	<2	<2	8	<.2	3	<3	2	.04	.002	1	21	.06	55	<.01	<3	.09	.01	.03	7	565
BD-99R-46	2	5	5	5	1.5	5	1	49	1.28	7867	<8	<2	<2	7	<.2	<3	<3	2	.05	.002	1	24	.05	29	<.01	<3	.08	.01	.04	7	968
BD-99R-47	3	10	10	15	.7	12	5	581	1.61	639	<8	<2	<2	5	.3	<3	<3	28	.06	.015	1	34	.33	59	<.01	<3	.41	.01	.10	12	100
BD-99R-48	2	11	311	376	.8	4	3	941	1.59	20	8	<2	6	22	3.8	<3	<3	9	.16	.043	13	19	.20	193	.01	4	.60	.03	.29	4	78
STANDARD C3/AU-S	26	68	38	165	6.4	37	12	781	3.54	56	29	<2	19	28	23.5	23	25	82	.57	.088	19	170	.63	150	.10	17	1.83	.05	.16	20	523
STANDARD G-2	2	4	5	43	<.3	8	4	543	2.16	3	<8	<2	4	74	<.2	<3	<3	41	.66	.093	8	73	.61	224	.14	<3	.96	.10	.46	2	<1

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND MASSIVE SULFIDE AND LIMITED FOR NA K AND AL.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK AU* - IGNITED, AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED. (10 gm)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUN 25 1999 **DATE REPORT MAILED:** Jul 5/99 **SIGNED BY.** ...D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

 Data___ FA ___

ACME ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.)
852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Doyle, Bruce File # 9902197

1424 Crease Ave, Nelson BC V1L 1A2 Submitted by: Bruce Doyle

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb	W %
BD99R-49	5	107	4	17	.5	81	12	203	2.55	5	<8	<2	2	29	<.2	6	<3	11	.67	.040	3	56	.25	25	.04	<3	.78	.04	.02	62	6	-
BD99R-50	8	263	5	19	.4	18	56	245	5.19	<2	<8	<2	2	298	<.2	<3	<3	84	3.99	.122	8	21	.68	71	.08	8	6.36	.79	.17	2	15	-
BD99R-51	8	49	<3	4	.5	1	1	82	1.64	<2	11	<2	2	28	<.2	<3	<3	17	.37	.033	4	13	.07	88	.14	<3	.28	.09	.07	10	1	-
BD99R-52	394	264	3	35	.9	35	29	482	7.62	6	11	<2	2	9	.3	5	<3	28	.85	.018	5	23	.08	21	.03	3	.46	.02	<.01	341	14	.86
BD99R-53	608	192	13	5	.5	6	2	109	16.09	<2	<8	<2	6	9	<.2	<3	10	33	.05	.024	2	20	.12	50	.02	<3	1.23	.04	.17	13	10	-
BD99R-54	593	145	8	7	.8	5	19	99	7.20	10	15	<2	3	6	<.2	7	<3	10	.05	.021	3	26	.18	39	<.01	5	.93	.01	.17	13	12	-
BD99R-55	64	230	5	6	.7	5	119	107	20.88	19	<8	<2	5	3	.5	4	5	10	.05	.014	3	23	.08	22	<.01	<3	.65	.03	.06	13	10	-
RE BD99R-55	68	244	<3	7	.8	4	125	114	21.85	14	<8	<2	4	3	.2	5	<3	11	.05	.013	2	24	.08	18	<.01	<3	.69	.03	.06	12	10	-
BD99R-56	13	14	3	7	<.3	6	1	84	.83	<2	<8	<2	2	6	<.2	5	<3	3	.03	.009	4	32	.06	25	<.01	<3	.15	.02	.07	15	2	-
BD99R-57	133	32	27	59	.4	7	1	71	2.34	15	8	<2	<2	1	.3	3	<3	1	.01	.006	<1	36	.03	2	<.01	<3	.13	.01	.01	17	2	-
STANDARD C3/AU-R	28	67	33	162	5.6	37	11	784	3.43	58	30	3	19	28	23.3	18	20	80	.59	.089	19	174	.58	146	.08	17	1.88	.04	.17	15	520	-
STANDARD G-2	2	4	<3	43	<.3	6	4	560	2.10	2	<8	<2	5	74	<.2	<3	<3	41	.69	.098	8	80	.60	235	.13	<3	1.00	.08	.52	2	<1	-

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND MASSIVE SULFIDE AND LIMITED FOR NA K AND AL.
W BY REGULAR ASSAY ICP.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK AU* - IGNITED, AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED. (10 gm)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 13 1999 DATE REPORT MAILED: July 21/99 SIGNED BY: C. Leong

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

Data FA

ACME ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.)
852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Doyle, Bruce File # 9902198

1424 Crease Ave, Nelson BC V1L 1A2 Submitted by: Bruce Doyle

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
BD99S-58	6	19	19	66	<.3	18	8	416	3.92	4	11	<2	4	59	.4	<3	<3	116	.71	.161	32	93	.41	97	.10	5	1.07	.02	.18	<2	3
BD99S-59	4	30	31	91	.5	19	8	830	2.87	2	14	<2	2	85	.8	<3	3	79	.80	.134	33	67	.47	124	.12	<3	1.48	.02	.21	3	17
BD99S-60	3	31	43	145	.8	32	10	629	2.54	2	<8	<2	<2	86	1.8	<3	<3	61	1.07	.124	26	57	.73	209	.14	7	1.53	.02	.21	3	5
RE BD99S-60	3	33	38	145	.7	32	10	631	2.50	3	<8	<2	<2	85	1.9	<3	<3	60	1.07	.124	25	55	.73	205	.14	5	1.52	.02	.21	3	28

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND MASSIVE SULFIDE AND LIMITED FOR NA K AND AL.
- SAMPLE TYPE: MOSS MAT AU* - AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED. (10 gm)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 13 1999 **DATE REPORT MAILED:** July 21/99 **SIGNED BY** ..... D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data ✓ FA ___

ACME ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.)
852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

ASSAY CERTIFICATE

Doyle, Bruce File # 9902361

1424 Crease Ave, Nelson BC V1L 1A2 Submitted by: Bruce Doyle

SAMPLE#	S.Wt gm	NAu mg	-Au opt	DupAu opt	TotAu opt
BD99R-64	498	2.27	.753	-	.886
BD99R-65	510	<.01	2.890	-	2.890
BD99R-67	514	<.01	.013	-	.013
BD99R-68	502	<.01	.008	-	.008
BD99R-69	508	<.01	.004	.003	.004

-AU : -100 AU BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAU: AU DUPLICATED FROM -100 MESH. NAU - NATIVE GOLD, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: ROCK

DATE RECEIVED: JUL 21 1999 DATE REPORT MAILED: July 29/99 SIGNED BY. C. Leong D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data___ FA 1/14

ACME ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.)
852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Doyle, Bruce File # 9902361

1424 Crease Ave, Nelson BC V1L 1A2 Submitted by: Bruce Doyle

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppm
BD99R-64	40	64	1160	278	23.0	5	1	36	2.28	183	<8	16	<2	4	3.6	3	<3	4	<.01	.006	1	199	.01	109	<.01	<3	.08	.01	.03	<2	<5	1
BD99R-65	2	9	9208	21	78.2	5	1	14	1.14	362	<8	80	<2	13	.5	7	<3	2	<.01	.004	<1	199	<.01	39	<.01	<3	.06	.01	.05	<2	<5	<1
BD99R-67	2	6	540	43	6.0	5	2	706	1.12	8	<8	<2	3	25	.4	<3	<3	5	.25	.024	11	189	.09	97	<.01	6	.43	.01	.18	<2	<5	<1
BD99R-68	2	9	94	17	5.1	6	3	715	2.02	10	<8	3	4	15	<.2	<3	<3	10	.10	.040	15	221	.09	336	<.01	7	.66	.01	.34	<2	<5	<1
BD99R-69	.1	6	52	25	4.9	5	2	600	1.22	5	<8	<2	2	7	.2	<3	<3	5	.06	.019	9	226	.11	165	<.01	4	.42	<.01	.15	<2	<5	<1
RE BD99R-69	1	6	50	25	4.4	5	2	579	1.17	3	<8	<2	2	7	.2	<3	<3	5	.06	.018	8	217	.10	159	<.01	4	.40	.01	.15	2	<5	<1
STANDARD C3	26	66	38	165	5.8	37	13	781	3.40	57	22	5	19	30	23.5	15	23	82	.57	.087	19	170	.65	144	.09	18	1.90	.04	.17	20	<5	1

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND MASSIVE SULFIDE AND LIMITED FOR NA K AND AL.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 21 1999 **DATE REPORT MAILED:** July 29/99 **SIGNED BY** C. Leong .D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data A FA

ACME ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.)
852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Doyle, Bruce File # 9902359

1424 Crease Ave, Nelson BC V1L 1A2 Submitted by: Bruce Doyle

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	S %
BD99S-63	2.83	29.84	38.66	124.1	1819	40.4	11.6	794	2.98	14.5	29.0	4.0	1.7	90.0	2.02	1.04	.26	96	1.05	.128	15.1	60.0	.74	208.4	.196	2	1.52	.021	.39	6.2	.20	52	4.2	0/	6.8	.08
STANDARD DS2	14.27	132.33	31.99	158.7	267	37.4	13.1	834	3.29	66.2	20.5	193.6	3.4	29.0	11.42	10.39	11.02	79	.57	.083	13.7	170.5	.60	143.1	.115	2	1.82	.040	.15	7.4	2.18	255	2.9	1.94	6.2	.02

30 GRAM SAMPLE IS DIGESTED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 ML WITH WATER, ANALYSIS BY ICP/ES & MS.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K GA AND AL.
- SAMPLE TYPE: MOSS MAT

DATE RECEIVED: JUL 21 1999 **DATE REPORT MAILED:** July 30/99 **SIGNED BY** ..... D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data / FA ___

ACME ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.)
852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Doyle, Bruce File # 9902360

1424 Crease Ave, Nelson BC V1L 1A2 Submitted by: Bruce Doyle

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppm	Au** oz/t
BD99R-61	5	10	46	34	2.9	7	4	110	1.89	2727	<8	6	2	12	<.2	<3	<3	9	.27	.026	4	16	.24	40	.01	3	.34	.01	.13	8	<5	<1	.162
BD99R-62	4	14	37	10	3.2	8	5	30	2.86	4561	<8	7	<2	7	<.2	3	<3	7	.04	.019	3	21	.05	28	.01	<3	.17	.01	.11	10	<5	<1	.234
BD99R-66	2	20	130	61	3.1	3	1	106	1.01	109	<8	3	<2	5	.5	<3	<3	1	.03	.010	2	21	.02	141	<.01	<3	.12	<.01	.09	11	<5	<1	.076
BD99R-70	<1	7	54	14	5.5	2	4	497	1.83	35	<8	<2	6	29	.3	<3	<3	8	.41	.070	20	6	.10	199	<.01	5	.54	.01	.29	2	<5	<1	.003
BD99R-71	3	3	113	120	<.3	2	2	532	1.18	10	<8	<2	2	9	.4	<3	<3	6	.06	.023	9	17	.15	61	<.01	<3	.47	<.01	.13	10	<5	<1	.002
BD99R-~~75~~ 72	2	7	27	21	.5	3	2	669	1.69	33	<8	<2	<2	13	<.2	<3	<3	4	.09	.018	5	19	.08	78	.01	<3	.39	<.01	.12	26	<5	<1	.010
RE BD99R-~~75~~ 72	2	8	32	20	.6	3	3	665	1.69	33	<8	<2	2	13	.2	<3	<3	4	.09	.018	6	21	.08	78	.01	<3	.39	<.01	.12	26	<5	<1	.012
STANDARD C3/AU-1	26	66	38	165	5.8	37	13	781	3.40	57	22	5	19	30	23.5	15	23	82	.57	.087	19	170	.65	144	.09	18	1.90	.04	.17	20	<5	1	.100

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND MASSIVE SULFIDE AND LIMITED FOR NA K AND AL.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 21 1999 DATE REPORT MAILED: July 29/99 SIGNED BY: D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data FA

ACME ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.)
852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Doyle, Bruce File # 9902603

1424 Crease Ave, Nelson BC V1L 1A2 Submitted by: Bruce Doyle

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
BD99R-73	2	47	52	84	.8	94	22	400	5.02	13	<8	<2	2	21	.4	5	<3	102	.31	.088	3	140	1.99	76	.13	<3	1.54	.06	.10	<2	11
BD99R-74	3	61	6	49	.4	12	8	310	3.41	<2	<8	<2	3	35	<.2	<3	<3	129	.56	.104	5	27	.99	45	.20	<3	1.40	.06	.10	3	23
BD99R-75	5	120	<3	41	<.3	15	15	314	3.60	<2	<8	<2	3	35	<.2	<3	<3	106	.62	.108	6	21	.83	56	.17	4	1.28	.07	.12	3	227
BD99R-77A76	1	61	5	104	<.3	21	17	854	4.30	6	<8	<2	3	78	.3	3	<3	164	.59	.119	10	46	1.83	59	.14	<3	1.84	.04	.06	3	3
BD99R-77B 77	2	79	10	54	4.2	18	17	647	2.61	7	<8	<2	4	52	.2	6	15	86	.39	.052	12	37	1.12	45	.08	<3	1.27	.05	.05	6	5
BD99R-78	6	16	784	117	11.3	12	2	735	2.11	16	<8	<2	<2	7	1.3	11	<3	10	.12	.007	3	33	.10	72	<.01	5	.24	<.01	.05	18	13
RE BD99R-78	6	16	771	116	11.0	13	2	722	2.08	18	<8	<2	2	7	1.3	11	3	10	.12	.007	3	33	.10	71	<.01	4	.24	<.01	.05	18	12
STANDARD C3/AU-R	27	63	39	172	6.0	38	12	780	3.43	57	18	<2	21	32	25.3	16	24	85	.61	.094	19	183	.59	157	.09	20	1.97	.04	.17	16	474
STANDARD G-2	1	3	3	42	<.3	8	4	520	2.01	<2	<8	<2	4	74	<.2	3	<3	41	.66	.096	8	79	.56	218	.12	<3	.93	.08	.47	2	-

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND MASSIVE SULFIDE AND LIMITED FOR NA K AND AL.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK AU* - IGNITED, AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED. (10 gm)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 29 1999 DATE REPORT MAILED: Aug 6/99 SIGNED BY. C. Leong .D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data / FA ____

ACME ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.)
852 E. HASTINGS ST. VANCOUVER BC V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Doyle, Bruce File # 9902604

1424 Crease Ave, Nelson BC V1L 1A2 Submitted by: Bruce Doyle

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
BD99R-79	5	6	3051	35	17.3	5	2	166	1.67	8150	<8	4	<2	9	1.2	10	<3	3	.05	.007	1	30	.12	40	<.01	3	.21	.02	.07	16	2762
BD99R-80	3	5	623	7	3.9	5	1	109	.90	2292	9	2	<2	4	.2	3	<3	2	.02	.003	1	30	.04	16	<.01	4	.09	.01	.05	19	1624
BD99R-81	5	7	1674	79	15.9	5	1	96	1.15	3736	<8	53	<2	4	1.5	7	<3	1	.01	.003	<1	34	.03	9	<.01	<3	.07	.01	.03	19	3932
RE BD99R-81	4	7	1666	77	11.0	4	1	91	1.14	3709	<8	8	<2	4	1.5	7	<3	1	.01	.003	<1	35	.03	9	<.01	<3	.07	.01	.03	19	3410
~~NO NUMBER~~	4	8	324	5	2.6	6	2	96	1.51	4504	<8	<2	<2	6	<.2	4	<3	2	.03	.007	2	34	.04	22	<.01	<3	.16	.01	.09	17	1202

BD 99R-82

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND MASSIVE SULFIDE AND LIMITED FOR NA K AND AL.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK AU** ANALYSIS BY FA/ICP FROM 30 GM SAMPLE.
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 29 1999 **DATE REPORT MAILED:** Aug 6/99 **SIGNED BY** C. Leong D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data / FA ___

ACME ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.)
852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Doyle, Bruce File # 9903233

1424 Crease Ave, Nelson BC V1L 1A2 Submitted by: Bruce Doyle

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppm	Au* ppb
BD99R-83	4	6	17	20	.9	6	4	235	1.37	359	<8	<2	3	6	<.2	<3	<3	2	.11	.019	3	29	.03	20	<.01	5	.15	.01	.13	8	<5	<1	1940
BD99R-84	7	235	1623	8912	31.0	3	3	147	1.25	157	<8	9	<2	9	144.6	<3	<3	2	.15	.009	1	17	.01	24	<.01	7	.11	.01	.10	6	<5	<1	4540
BD99R-85	4	9	37	81	1.4	7	4	123	1.79	4269	<8	3	3	3	1.1	<3	<3	2	.02	.014	4	28	.01	26	<.01	4	.16	<.01	.15	9	<5	<1	2500
BD99R-86	4	26	3437	227	11.8	3	<1	39	.64	310	<8	<2	<2	3	3.5	7	<3	1	.01	.003	<1	36	<.01	7	<.01	4	.02	.01	.02	9	<5	<1	3500
BD99R-87	3	5	13	8	<.3	6	1	54	.51	28	<8	<2	<2	2	<.2	<3	<3	1	.01	.002	<1	42	<.01	50	<.01	3	.02	<.01	.01	10	<5	<1	21
BD99R-88	3	8	1132	97	17.0	3	1	40	1.20	148	<8	29	<2	6	1.6	<3	<3	2	.01	.008	<1	27	<.01	36	<.01	4	.03	.01	.06	11	<5	1	29000
BD99R-89	<1	10	12	266	.6	309	28	1930	7.62	<2	<8	<2	7	89	1.4	<3	<3	143	2.88	.180	16	656	6.85	18	.16	4	4.67	.01	.03	<2	5	<1	110
BD99R-90	3	28	252	48	2.4	15	5	720	1.70	15	8	<2	21	11	.2	<3	<3	15	.09	.019	10	27	.56	55	.01	6	.90	.03	.13	6	<5	<1	35
BD99R-91	5	27	5	2	.3	7	1	49	1.72	39	<8	<2	<2	2	<.2	<3	<3	2	.01	.008	1	31	.01	27	<.01	5	.07	.01	.05	11	<5	<1	2
BD99R-92	2	18	189	44	1.3	2	1	531	1.00	15	<8	<2	<2	4	.6	<3	<3	2	.03	.006	2	22	.07	31	<.01	4	.23	<.01	.07	11	<5	<1	2020
RE BD99R-92	2	18	191	44	1.3	2	1	535	1.03	17	<8	<2	2	4	.6	<3	<3	3	.03	.006	2	22	.07	31	<.01	5	.23	.01	.07	12	<5	<1	1980
BD99R-93	4	18	1910	109	13.0	7	1	250	2.13	141	<8	<2	<2	9	.6	<3	<3	2	.02	.008	3	27	.04	640	<.01	4	.20	.01	.08	13	<5	<1	4780
BD99R-94	2	47	1305	250	16.8	2	1	204	1.13	53	<8	7	<2	8	3.0	<3	<3	2	.02	.008	1	22	.02	103	<.01	6	.15	<.01	.09	10	<5	<1	3770
BD99R-95	3	9	27	15	.3	4	2	149	.97	35	<8	<2	8	15	.3	<3	<3	4	.09	.037	12	16	.05	185	<.01	8	.43	.01	.23	5	<5	<1	46
BD99R-99	2	206	60	185	1.4	91	21	1653	6.50	58	<8	<2	4	658	1.4	<3	<3	128	8.72	.141	16	129	1.45	19	<.01	4	1.97	.03	.03	<2	<5	<1	11
BD99R-100	2	6	11	27	<.3	10	9	613	2.33	3	<8	<2	5	115	.2	<3	<3	21	1.04	.060	21	16	.27	97	<.01	3	.27	.04	.15	4	<5	<1	8
STANDARD C3/AU-R	26	66	37	179	6.2	38	13	847	3.39	60	22	<2	22	30	25.3	18	24	82	.60	.090	18	174	.62	150	.09	23	1.93	.04	.17	16	<5	1	503
STANDARD G-2	1	2	4	44	<.3	8	5	573	2.06	<2	<8	<2	4	74	<.2	<3	<3	41	.68	.096	7	77	.62	221	.13	<3	.99	.08	.49	2	<5	<1	<1

GROUP 1D - 0.50 GM SAMPLE, 3 MLS 2-2-2 AQUA REGIA, 1 HOUR AT 95 DEG. C, DILUTED TO 10 MLS, ICP-ES ANALYSIS. LEACH IS PARTIAL FOR SOME MINERALS.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK AU* GROUP 3A - 10.00 GM SAMPLE, AQUA-REGIA,MIBK EXTRACT, ANALYSIS BY GF/AA.
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 2 1999 DATE REPORT MAILED: Sept 9/99 SIGNED BY: ..... D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

* Possible gold nuggets in samples.

Data FA

ACME ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.) 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

ASSAY CERTIFICATE

Doyle, Bruce File # 9903234

1424 Crease Ave, Nelson BC V1L 1A2 Submitted by: Bruce Doyle

SAMPLE#	S.Wt gm	NAu mg	-Au opt	DupAu opt	TotAu opt
BD99R-96	292	92.66	11.461	-	20.716
BD99R-97	510	8.39	1.458	-	1.938
BD99R-98	500	<.01	.200	.196	.200

-AU : -100 AU BY FIRE ASSAY FROM 1 A.T. SAMPLE. DUPAU: AU DUPLICATED FROM -100 MESH. NAU - NATIVE GOLD, TOTAL SAMPLE FIRE ASSAY.
- SAMPLE TYPE: ROCK

DATE RECEIVED: SEP 2 1999 DATE REPORT MAILED: Sept 9/99 SIGNED BY ..... D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data___ FA ___

ACME ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.)
852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Doyle, Bruce File # 9903234

1424 Crease Ave, Nelson BC V1L 1A2 Submitted by: Bruce Doyle

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppm
BD99R-96	5	14	8518	64	217.1	8	1	53	1.64	253	<8	413	2	17	.5	3	3	3	.02	.023	5	249	.02	105	<.01	7	.35	.03	.25	7	<5	<1
BD99R-97	14	21	2624	62	43.3	7	<1	27	1.52	201	<8	47	<2	4	.4	<3	4	1	.01	.008	1	229	<.01	57	<.01	<3	.11	<.01	.08	<2	<5	<1
BD99R-98	5	12	70	57	3.8	9	<1	57	.96	20	<8	7	<2	5	<.2	<3	4	3	.02	.009	2	245	.02	24	<.01	5	.15	<.01	.07	<2	<5	<1
RE BD99R-98	6	12	76	58	4.7	7	<1	51	.98	23	<8	11	<2	5	<.2	<3	<3	3	.02	.009	2	253	.02	24	<.01	5	.14	<.01	.07	<2	<5	<1
STANDARD C3	26	63	35	163	5.7	37	10	777	3.36	56	16	4	21	29	24.0	16	24	78	.56	.086	18	174	.58	146	.08	17	1.93	.04	.16	20	6	<1

GROUP 1D - 0.50 GM SAMPLE, 3 MLS 2-2-2 AQUA REGIA, 1 HOUR AT 95 DEG. C, DILUTED TO 10 MLS, ICP-ES ANALYSIS. LEACH IS PARTIAL FOR SOME MINERALS.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 2 1999 **DATE REPORT MAILED:** Sept 9/99 **SIGNED BY** .....D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data FA

ACME ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.) 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

ASSAY CERTIFICATE

Doyle, Bruce File # 9903586

1424 Crease Ave, Nelson BC V1L 1A2 Submitted by: Bruce Doyle

SAMPLE#	Mo %	Cu %	Pb %	Zn %	Ag oz/t	Ni %	Co %	Mn %	Fe %	As %	U %	Th %	Cd %	Sb %	Bi %	Au** oz/t
BD99R-102	.021	.123	2.53	.04	2.41	.009	.001	.17	2.22	.02	<.01	<.01	<.001	.007	<.01	.015
BD99R-103	.003	.015	1.34	.29	1.10	.001	<.001	.12	1.77	.01	<.01	<.01	.003	.004	<.01	.002
RE BD99R-103	.003	.015	1.33	.29	1.11	.001	<.001	.13	1.77	.01	<.01	<.01	.003	.005	<.01	.001

GROUP 7 - MULTI ELEMENT ASSAY - 1.000 GM SAMPLE, AQUA - REGIA DIGESTION TO 100 ML, ANALYSED BY ICP-ES.
- SAMPLE TYPE: ROCK AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 22 1999 DATE REPORT MAILED: Sept 30/99 SIGNED BY: ..... D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data ___ FA ___

ACME ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.)
852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Doyle, Bruce File # 9903585

1424 Crease Ave, Nelson BC V1L 1A2 Submitted by: Bruce Doyle

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** oz/t
BD99R-101	4	12	42	473	1.9	14	2	1993	2.86	753	<8	<2	<2	686	15.6	<3	5	18	14.55	.039	4	8	.37	33	<.01	3	.22	.01	.07	2	.006
BD99R-104	6	8	1607	9	58.9	10	<1	62	.79	199	<8	110	<2	6	<.2	<3	<3	1	.08	.004	<1	32	<.01	16	<.01	<3	.01	.01	.04	15	3.455
RE BD99R-104	5	7	1564	9	55.2	9	<1	56	.77	194	<8	96	<2	6	<.2	<3	<3	<1	.07	.004	<1	31	<.01	15	<.01	3	.01	.01	.04	14	3.435

GROUP 1D - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 22 1999 **DATE REPORT MAILED:** Sept 30/99 **SIGNED BY:** .....D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data___ FA ___

Soil Samples

* Special Note
Samples 79+50E 114 +00 N
79E 110+00 N
Two soils at each site were taken.

ACME ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.)
852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Doyle, Bruce File # 9902358 Page 1

1424 Crease Ave, Nelson BC V1L 1A2 Submitted by: Bruce Doyle

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	S %
L79E 115+00N	7.05	17.78	16.95	77.5	151	16.6	8.2	873	2.81	5.5	2.0	17.0	4.0	23.5	.32	1.01	.32	64	.22	.131	6.9	24.8	.41	161.6	.177	2	3.28	.017	.06	.7	.08	68	.5	.03	10.8	<.01
L79E 114+50N	7.49	15.23	17.09	77.9	296	14.1	7.8	942	2.82	5.0	8.1	21.2	4.3	27.1	.27	.92	.32	60	.24	.107	12.0	22.5	.38	154.5	.175	3	3.20	.018	.06	.6	.09	105	.7	.03	11.2	<.01
L79E 114+00N	2.38	14.48	13.59	89.6	214	13.3	7.7	921	2.76	5.2	1.1	7.7	3.5	18.6	.22	.82	.30	61	.16	.213	6.1	18.4	.32	169.2	.156	3	3.46	.016	.05	.7	.09	103	.4	.03	10.8	<.01
L79E 113+50N	1.80	11.26	19.91	88.5	173	11.0	6.5	675	2.83	8.8	.6	24.6	3.7	14.2	.41	1.94	.35	67	.11	.120	5.2	19.0	.26	107.0	.162	1	2.71	.015	.05	.7	.11	74	.5	.04	10.6	<.01
L79E 113+00N	1.59	14.44	11.89	96.9	177	12.5	6.5	491	2.40	6.3	.9	4.0	3.4	11.1	.26	1.11	.25	54	.08	.138	5.4	18.9	.25	106.6	.172	2	4.04	.016	.04	6	.08	156	.6	.03	10.4	<.01
L79E 112+50N	6.61	14.05	19.08	61.6	297	13.5	7.2	552	2.63	13.8	7.9	14.7	3.6	30.3	.63	.88	.31	63	.32	.049	9.9	21.7	.36	148.2	.207	2	2.89	.023	.05	.6	.10	49	.5	.04	12.2	.01
L79E 112+00N	1.10	15.81	10.41	82.7	251	15.6	8.1	535	2.48	4.3	.8	5.5	4.0	14.0	.38	.54	.20	57	.11	.184	6.0	24.2	.35	117.0	.143	1	3.50	.016	.05	.7	.08	87	.5	.02	9.2	<.01
L79E 111+50N	.91	15.29	16.60	146.6	452	14.6	7.4	938	2.30	4.5	.8	7.7	3.3	16.6	.87	1.13	.24	54	.17	.150	5.4	19.4	.26	177.3	.176	2	3.52	.017	.05	.7	.14	73	.3	.03	10.1	<.01
L79E 111+00N	.79	12.66	16.16	90.2	471	12.1	6.1	582	2.51	7.3	.5	4.5	2.8	10.0	.25	1.20	.30	57	.10	.163	4.3	20.2	.21	120.5	.172	2	3.27	.015	.05	.6	.09	59	.4	.04	10.7	<.01
L79E 110+50N	.89	13.20	24.32	123.2	446	14.3	7.4	537	2.76	7.4	.7	15.3	3.8	14.3	.34	1.58	.35	67	.11	.182	6.4	29.3	.35	131.3	.161	<1	3.33	.014	.06	.8	.13	100	.6	.06	10.9	.02
L79E 110+00N	1.39	16.42	14.46	50.7	213	13.2	6.8	223	2.41	4.7	2.2	38.0	4.2	16.4	.20	.18	.19	58	.12	.062	9.5	22.6	.33	97.1	.135	1	2.92	.013	.05	.9	.09	76	.5	.03	8.2	<.01
L79E 109+50N	3.36	19.10	17.12	37.7	284	9.3	5.1	138	2.25	5.1	38.2	52.4	2.5	40.9	.24	.33	.25	56	.44	.030	17.6	18.1	.21	113.1	.123	1	2.85	.019	.03	.5	.08	29	1.1	.02	10.4	.02
L79E 109+00N	2.01	12.56	12.35	62.1	135	9.0	6.0	315	2.52	3.8	.8	15.5	2.4	18.5	.29	.28	.27	50	.13	.030	4.2	17.5	.18	170.3	.155	2	2.93	.016	.04	.5	.06	31	.3	.03	10.2	.01
L79E 108+50N	2.18	10.88	13.64	54.1	263	8.2	7.0	169	2.51	4.3	1.6	1.7	2.2	14.1	.30	.64	.30	51	.14	.049	4.1	10.4	.14	120.1	.192	1	3.33	.016	.04	.4	.06	56	.4	.02	11.8	.01
L79E 108+00N	2.20	17.84	17.76	92.8	399	14.7	10.3	334	2.75	7.1	2.9	24.4	3.7	30.6	.29	.64	.95	67	.29	.043	13.0	24.5	.39	160.6	.150	3	2.78	.014	.07	1.8	.12	68	.7	.03	9.3	.03
L79E 107+50N	1.96	13.37	10.44	49.0	148	9.0	4.7	122	2.25	5.9	1.1	4.3	2.9	13.0	.15	.27	.53	59	.09	.041	8.4	27.2	.22	100.2	.151	1	3.50	.015	.04	1.3	.12	86	.6	.02	9.4	.04
L79E 107+00N	3.02	11.19	15.81	59.0	275	8.3	6.3	292	2.31	5.4	.8	31.1	2.1	22.6	.35	.76	.29	49	.25	.083	6.6	21.2	.16	109.7	.143	3	3.43	.018	.04	.9	.09	110	.8	.04	9.3	.03
L79E 106+50N	1.28	14.56	18.57	119.9	637	11.1	9.0	547	2.50	9.4	.5	6.6	2.7	10.0	.43	1.68	.37	59	.11	.241	4.7	21.2	.21	96.3	.157	2	3.23	.015	.05	.9	.09	132	.4	.07	9.1	<.01
RE L79E 106+50N	1.30	14.39	18.78	118.9	650	11.3	9.2	540	2.47	10.1	.5	7.0	2.8	10.4	.42	1.72	.38	58	.10	.238	4.7	24.0	.21	96.6	.159	1	3.29	.016	.05	.9	.09	134	.5	.05	9.5	<.01
L79+50E 114+00N	3.30	21.00	13.15	92.9	271	13.1	7.3	1167	2.51	4.6	3.9	10.0	2.9	25.1	.38	1.01	.29	50	.23	.205	7.4	17.1	.26	176.9	.178	2	3.39	.017	.05	.5	.10	79	.7	.03	12.3	<.01
L82+50E 110+50N	1.55	11.14	12.44	30.3	259	8.6	3.7	101	2.58	2.9	1.9	2.8	3.4	14.0	.14	.32	.27	62	.10	.018	14.9	16.7	.19	105.1	.166	1	3.01	.017	.03	.4	.08	48	1.1	.02	10.7	<.01
L83+00E 110+50N	1.01	13.08	27.26	64.6	331	13.1	5.3	324	2.28	14.4	.8	3.5	3.5	12.3	.96	2.84	.32	54	.10	.225	5.0	26.9	.26	69.5	.151	2	3.33	.016	.04	.5	.08	121	.8	.06	9.1	<.01
L83+50E 110+50N	1.28	19.02	10.90	64.6	501	12.7	6.1	243	2.14	5.1	1.0	1.0	3.3	9.7	.32	.67	.22	52	.08	.124	5.3	23.6	.21	88.2	.192	2	4.62	.017	.04	.5	.08	238	1.1	.04	10.2	<.01
L83+75E 112+00N	1.46	16.25	15.23	80.1	267	16.7	7.7	291	2.81	5.7	.9	3.0	3.2	26.4	.53	.92	.27	73	.23	.074	9.7	36.6	.41	111.9	.176	2	2.49	.016	.05	.6	.09	101	.6	.03	9.7	.01
L84+00E 112+00N	1.28	12.00	15.13	85.4	264	13.8	6.4	350	2.80	5.9	.8	2.2	2.8	11.3	.58	1.28	.30	57	.12	.170	6.9	26.8	.27	101.9	.168	2	3.00	.015	.04	.5	.08	113	.4	.03	10.9	.02
L84+00E 110+50N	.86	12.60	13.57	78.4	119	16.6	6.8	1486	2.46	4.3	.7	2.1	2.7	27.2	.31	.48	.27	61	.25	.151	6.0	25.8	.27	195.4	.159	2	2.81	.014	.05	.5	.12	59	.4	.04	9.9	<.01
L84+50E 114+00N	.87	14.80	9.15	25.5	243	9.5	3.4	71	1.02	6.0	57.0	2.0	1.8	58.2	.25	.23	.19	27	.52	.048	12.0	15.5	.13	60.2	.166	1	3.99	.039	.02	<.2	.06	59	1.1	.02	7.7	.03
L84+50E 113+00N	1.65	17.04	13.42	85.1	416	21.0	7.7	425	2.65	4.3	1.9	2.9	1.9	25.1	.48	.59	.24	63	.23	.079	11.6	35.5	.41	146.6	.143	2	2.38	.014	.05	.4	.07	73	.5	.03	8.9	.02
L84+50E 112+00N	.74	17.26	12.11	76.1	300	29.5	7.8	474	2.51	3.6	3.0	4.4	2.0	37.6	.25	.31	.22	61	.32	.100	19.5	42.9	.59	130.3	.123	1	2.46	.016	.05	.5	.09	50	.2	.04	8.1	.03
L84+50E 110+50N	.90	17.47	17.99	78.2	229	16.4	6.2	357	2.43	8.8	.8	2.1	3.2	10.8	.60	1.78	.28	57	.11	.187	5.1	26.8	.25	114.6	.193	2	4.08	.015	.04	.6	.09	91	.7	.05	10.2	.03
L85E 114+00N	.93	15.64	12.03	94.1	484	20.9	9.1	662	2.59	5.1	1.0	7.0	3.8	17.1	.48	.47	.26	60	.15	.204	7.1	34.8	.44	121.6	.172	2	3.56	.016	.05	.6	.09	109	.6	.04	9.3	<.01
L85E 113+00N	.85	17.68	10.59	59.2	299	13.8	6.3	368	2.00	4.6	1.1	2.3	3.2	9.6	.27	.50	.20	46	.08	.142	5.4	21.2	.22	75.5	.178	1	4.69	.016	.03	.4	.08	150	.7	.04	10.1	.01
L85E 112+00N	.95	19.36	19.84	91.5	253	20.3	7.7	448	2.83	12.5	1.0	11.7	4.9	20.2	.56	2.50	.32	80	.19	.169	9.9	44.3	.41	132.4	.165	2	3.25	.014	.05	.8	.11	108	.4	.06	9.1	<.01
L85E 110+50N	.79	17.73	11.37	69.7	208	24.6	8.5	395	2.78	4.1	1.0	7.0	4.5	27.2	.21	.46	.23	75	.24	.164	9.8	45.2	.50	113.6	.158	2	2.96	.014	.06	.8	.08	66	.6	.03	8.5	<.01
STANDARD DS2	14.80	130.81	31.72	165.9	269	38.7	12.8	838	3.18	63.5	19.3	206.2	3.5	29.2	11.44	9.74	11.52	83	.56	.082	12.6	177.8	.66	151.3	.119	2	1.90	.039	.17	7.5	2.24	251	2.7	1.88	6.3	.03

30 GRAM SAMPLE IS DIGESTED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 ML WITH WATER, ANALYSIS BY ICP/ES & MS.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K GA AND AL.
- SAMPLE TYPE: SOIL Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 21 1999 **DATE REPORT MAILED:** July 30/99 **SIGNED BY:** C. Leong D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data f FA ___

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	S %
L85+50E 114+00N	.83	14.55	13.78	95.4	404	15.7	8.7	1364	2.60	5.1	.6	4.2	3.3	15.7	.33	.94	.32	66	.14	.174	6.6	30.8	.27	170.2	.144	2	2.79	.014	.04	.5	.13	74	.5	.03	10.2	<.01
L85+50E 113+00N	.92	16.08	11.36	64.7	298	12.7	7.9	480	2.40	4.3	.9	2.1	3.9	10.3	.22	1.13	.28	57	.08	.198	5.3	29.1	.23	86.6	.166	1	4.07	.015	.04	.6	.08	135	.6	.04	10.7	<.01
L85+50E 112+00N	1.07	16.09	14.43	65.3	424	15.8	7.4	258	2.53	4.6	1.0	11.7	4.6	12.4	.29	.44	.35	64	.09	.165	5.9	34.1	.32	107.1	.184	<1	3.96	.015	.05	.8	.11	140	.7	.05	10.3	.01
L85+50E 110+50N	.98	14.53	12.14	69.8	323	12.3	5.4	247	2.19	4.0	.8	1.9	3.2	9.5	.42	.74	.25	47	.08	.090	4.8	19.5	.17	119.0	.157	<1	3.95	.014	.04	.6	.07	180	.7	.03	9.8	<.01
L86E 113+00N	.88	14.97	17.58	71.5	359	17.0	7.7	406	2.58	6.2	.9	2.0	3.7	10.9	.30	1.10	.40	56	.10	.125	5.6	26.5	.27	120.3	.179	1	4.35	.015	.04	.9	.12	144	.6	.02	10.9	<.01
RE L86E 113+00N	.98	14.93	17.79	70.4	365	16.6	7.8	403	2.50	6.1	1.0	3.4	3.7	11.1	.35	1.16	.31	55	.09	.121	5.6	26.6	.26	118.3	.176	2	4.30	.015	.04	.7	.09	152	.7	.03	10.9	<.01
L89+50E 114+50N	7.61	21.04	17.76	56.8	314	14.0	7.2	439	2.84	7.4	12.3	110.3	3.2	46.7	.37	.78	.32	60	.49	.113	12.0	23.6	.34	88.7	.145	1	3.41	.016	.05	.4	.07	82	.8	.04	11.0	.01
STANDARD DS2	14.31	129.13	32.35	163.9	264	38.3	12.1	827	3.15	62.3	20.1	208.3	3.6	28.3	11.34	9.83	11.73	82	.56	.081	12.8	170.2	.65	146.1	.114	2	1.85	.038	.17	7.5	2.12	255	2.7	2.04	6.4	.02

79

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data # FA

ACME ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.)
852 E. HASTINGS ST. VANCOUVER BC V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Doyle, Bruce File # 9903232

1424 Crease Ave, Nelson BC V1L 1A2 Submitted by: Bruce Doyle

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	S %
109+50N 79+25E	.99	18.38	14.04	90.7	200	15.4	9.1	492	3.06	7.0	1.1	23.4	4.9	20.3	.28	.64	.24	78	.16	.143	9.5	38.7	.46	130.1	.133	1	2.62	.010	.07	1.3	.12	66	.6	.06	8.2	.01
109+50N 79+50E	1.10	11.97	11.84	89.7	104	14.4	9.0	220	2.82	5.0	1.3	15.0	4.5	17.8	.61	.52	.22	71	.12	.026	9.6	38.3	.37	175.7	.136	1	2.37	.011	.05	.8	.07	38	.5	.03	7.5	<.01
109+50N 79+75E	.93	15.75	14.41	72.5	218	15.0	8.2	400	2.90	5.6	1.2	10.2	4.9	17.6	.21	.52	.22	73	.10	.088	9.3	38.5	.41	100.1	.113	1	2.44	.010	.05	.8	.09	58	.6	.04	7.6	.01
109+50N 80+00E	.80	13.38	26.29	68.3	49	11.6	5.7	445	2.45	18.6	1.1	12.2	4.1	24.8	.45	1.05	.29	60	.18	.146	9.4	28.2	.40	84.9	.067	1	1.88	.009	.05	6	.08	72	.6	.04	5.6	.01
109+50N 80+25E	1.27	17.09	20.08	85.0	220	15.7	7.0	330	2.89	6.3	1.9	127.5	6.2	19.2	.15	.53	.22	74	.10	.078	12.6	40.1	.47	92.4	.139	1	2.59	.012	.06	.9	.10	54	.6	.05	7.9	<.01
109+50N 80+50E	1.08	15.93	10.45	59.5	197	11.3	7.1	424	2.42	6.0	2.6	45.5	6.2	29.3	.16	.47	.12	59	.21	.098	15.0	24.6	.40	94.5	.102	1	2.38	.012	.04	.9	.06	48	.7	.03	6.6	<.01
109+50N 80+75E	.82	20.03	29.89	112.7	1268	14.9	6.6	472	2.40	6.3	1.2	11.7	4.6	37.8	.28	.82	.31	50	.25	.102	7.8	21.2	.39	177.7	.094	1	3.46	.011	.07	1.0	.10	107	.7	.06	9.6	.01
109+50N 81+00E	6.17	5.08	10.65	75.9	98	8.7	5.8	590	2.64	2.9	7.5	23.4	5.0	33.6	.09	.34	.09	38	.26	.028	13.4	15.6	.55	326.0	.038	1	2.37	.010	.06	.4	.17	27	.6	.02	7.8	.06
109+50N 81+25E	1.20	10.12	19.43	83.5	346	13.4	5.7	252	1.80	7.0	1.1	167.7	4.1	24.6	.36	1.17	.18	38	.16	.047	8.5	21.6	.41	128.4	.108	1	2.52	.012	.04	1.0	.08	58	.5	.03	8.5	.01
109+50N 81+50E	1.50	18.37	19.98	64.0	204	14.3	7.1	399	2.58	14.0	2.6	208.4	6.3	26.9	.23	.70	.42	68	.18	.119	13.0	34.6	.43	94.7	.117	1	3.14	.012	.06	1.2	.11	90	.9	.05	7.2	.01
109+50N 81+75E	1.72	15.10	10.49	53.9	90	14.3	6.2	265	2.57	5.3	3.1	29.2	7.9	26.6	.09	.30	.22	67	.18	.095	14.8	42.9	.43	98.7	.107	<1	2.11	.011	.04	.9	.08	25	.6	.04	6.2	<.01
109+50N 82+00E	1.08	14.30	12.61	83.1	118	29.8	10.1	314	3.27	6.1	1.0	12.3	4.6	25.3	.26	.39	.26	85	.21	.080	9.6	53.8	.63	131.7	.142	1	2.52	.012	.06	.6	.07	62	.5	.04	8.2	<.01
RE 109+50N 82+00E	1.07	14.19	12.22	79.8	116	28.9	9.8	309	3.19	5.8	.9	9.8	4.2	24.9	.23	.37	.22	81	.21	.079	9.8	52.9	.62	128.9	.141	1	2.46	.012	.06	.6	.08	64	.5	.04	8.0	<.01
125+00N 73+00E	2.17	14.09	16.80	77.3	147	18.5	10.1	395	2.73	4.9	.5	14.1	2.8	33.6	.28	.62	.20	81	.34	.190	10.9	56.6	.50	180.5	.179	<1	1.80	.019	.10	3.5	.09	29	.4	.05	6.7	.01
125+00N 73+50E	2.97	16.41	27.52	101.4	162	13.1	8.4	336	2.36	5.4	.6	6.2	2.4	41.7	.35	1.00	.21	65	.30	.131	6.9	34.8	.37	113.1	.156	1	2.44	.016	.09	3.5	.09	55	.4	.06	9.3	.02
125+00N 74+00E	1.91	14.02	11.04	81.5	174	17.3	10.6	451	2.58	5.6	.5	3.5	2.9	23.9	.40	1.68	.21	71	.24	.137	7.6	40.9	.43	129.1	.203	1	2.38	.016	.10	1.9	.08	58	.5	.05	7.4	<.01
125+00N 74+50E	2.52	12.76	9.08	83.3	82	12.3	8.3	366	2.04	3.4	.4	26.9	2.2	24.8	.22	.28	.13	58	.16	.263	6.0	28.5	.44	136.4	.136	<1	1.62	.012	.09	1.6	.08	22	.3	.05	6.0	<.01
125+00N 75+00E	2.22	12.19	8.79	119.9	114	18.4	10.6	311	2.80	3.5	.6	9.2	3.3	25.3	.30	.57	.15	83	.30	.196	10.8	56.3	.63	121.7	.196	1	1.73	.018	.10	1.5	.10	29	.4	.05	7.2	<.01
79E 110+00N	.81	16.10	17.63	59.0	232	12.2	6.9	394	2.76	6.0	.9	167.1	4.3	27.9	.23	.46	.14	65	.24	.100	9.1	28.1	.38	99.1	.093	1	2.07	.010	.04	.7	.06	53	.5	.03	7.3	<.01
STANDARD DS2	13.60	122.14	28.51	156.5	232	34.8	12.2	790	3.01	60.7	20.0	191.5	3.5	30.8	11.50	10.12	10.36	77	.52	.078	12.3	154.1	.54	127.9	.100	3	1.57	.031	.15	7.6	1.84	249	2.5	1.80	5.8	.02

GROUP 1F15 - 15.00 GM SAMPLE, 90 MLS 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 300 ML, ANALYSIS BY ICP/ES & MS.
UPPER LIMITS - AG, AU,, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2000 PPM; CU, PB, ZN, NI, MN, AS,V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: SOIL Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 2 1999 **DATE REPORT MAILED:** Sept 9/99 **SIGNED BY** .....D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Date ___ FA ___

ACME ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.)
852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Doyle, Bruce File # 9902602

1424 Crease Ave, Nelson BC V1L 1A2 Submitted by: Bruce Doyle

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	S %
72+00E 123+00N	1 93	15 25	15 14	109 5	341	17 5	11 6	538	3 11	7 3	.4	2 4	2 3	15 5	.33	1 24	.43	72	10	.173	4 9	27 6	.33	133 6	.197	1	2 21	.013	.08	1 7	.09	67	.3	07	12 3	.02
72+00E 122+00N	2 98	23 60	20 14	90 7	188	14 6	9 5	381	3 21	12 4	1 1	7 0	3 9	26 5	.37	1 73	.46	63	12	.281	9 4	23 8	.34	151 6	.165	1	3 53	.011	.09	1 4	.13	102	6	06	14 1	.02
72+50E 123+00N	2 78	18 65	13 25	117 6	111	24 8	14 4	1124	3 26	5 0	.5	2 4	2 4	26 7	.26	.99	.38	82	16	096	6 5	42 4	66	230 8	.241	1	2 48	.014	.15	1 8	.16	30	2	07	12 5	01
72+50E 122+00N	1 48	22 77	18 68	113 1	131	15 5	6 1	1549	3 01	6 0	1 1	9	3 5	15 0	47	2 47	.46	65	.09	.314	6 8	21 6	.19	165 8	.164	1	3 22	.015	06	.8	14	68	.5	04	13 8	02
73+00E 124+00N	3 26	35 36	11 12	128 7	293	32 7	21 4	479	3 97	5 9	8	11 5	2 9	30 5	29	88	29	126	21	166	5 5	59 7	83	280 0	310	1	4 19	019	36	4 1	27	54	5	12	12 5	02
73+00E 123+00N	2 18	23 41	13 17	82 6	751	18 1	13 8	526	2 86	4 8	6	1 6	2 5	13 4	23	90	33	66	08	093	5 7	31 8	40	146 8	222	1	2 64	015	09	2 4	12	46	3	07	11 9	01
73+00E 122+00N	1 74	15 87	25 80	100 4	189	12 6	6 1	479	2 98	14 9	4	2 5	2 3	12 0	54	2 21	.49	65	08	.242	5 3	25 7	28	148 5	187	1	2 13	014	07	1 8	11	46	3	09	12 4	01
73+50E 124+00N	1 98	13 17	11 72	89 8	292	16 8	8 4	281	2 78	3 4	4	312 2	1 9	16 4	31	.60	35	60	14	178	5 3	26 9	36	151 6	169	<1	1 97	014	08	2 4	09	31	3	06	9 3	01
73+50E 123+00N	2 80	15 60	11 28	85 6	166	16 4	11 3	598	2 93	5 0	3	12 5	1 7	17 4	26	97	22	71	15	137	5 6	32 5	58	145 0	190	<1	1 82	012	10	2 1	09	46	2	08	8 2	01
73+50E 122+00N	4 97	19 56	18 26	91 8	251	17 0	25 3	1636	3 16	4 1	3 6	9 5	2 0	26 7	47	71	38	64	18	070	12 2	27 6	50	204 7	230	<1	2 10	019	07	2 7	16	28	4	05	13 1	03
74+00E 124+00N	2 07	21 99	15 78	95 7	234	17 3	13 2	414	3 29	5 3	6	4 0	2 4	30 7	41	80	25	86	28	192	9 3	46 2	65	262 2	226	<1	2 20	019	18	2 1	11	43	4	06	9 0	02
74+00E 123+00N	2 71	19 28	12 36	114 0	354	16 1	10 4	335	3 14	6 2	6	8 9	2 4	19 8	32	92	21	69	19	227	7 3	31 1	58	195 9	188	<1	2 28	016	14	2 8	08	56	4	06	8 9	02
74+00E 122+00N	3 15	25 75	19 42	85 8	282	16 0	11 8	440	3 26	7 2	7 8	7 3	2 0	38 7	65	65	31	72	33	055	14 4	32 7	67	214 4	203	1	2 18	016	09	3 0	08	29	5	07	10 2	04
74+50E 124+00N	2 89	25 02	33 79	95 6	411	27 4	15 6	648	3 47	28 1	1 3	167 8	2 5	40 4	72	97	19	93	39	086	11 0	48 9	79	215 3	234	<1	2 40	017	21	3 8	12	34	5	03	9 2	03
74+50E 123+00N	2 31	20 13	12 46	117 9	347	23 2	11 6	395	3 02	8 3	2 2	15 9	2 3	26 1	46	71	21	65	27	187	8 7	38 0	65	200 2	188	<1	2 45	016	12	3 0	09	39	4	07	9 1	03
74+50E 122+00N	1 74	17 15	40 71	183 1	123	13 5	8 4	1476	2 83	11 6	1 6	42 3	1 5	32 8	92	1 07	.40	57	31	208	6 5	23 1	42	202 5	149	1	2 08	015	06	1 8	10	41	3	07	10 6	03
75+00E 124+00N	2 68	26 76	49 39	101 0	241	23 4	11 0	922	2 59	10 5	1 5	6 4	4 3	205 9	1 20	1 57	35	67	1 26	140	8 5	41 8	59	202 5	145	1	3 44	013	13	1 5	11	41	4	08	13 3	02
75+00E 123+00N	2 52	26 69	10 90	94 6	233	33 5	15 8	372	3 80	8 7	1 3	8 6	1 8	19 4	29	98	16	116	18	115	5 9	65 4	1 05	167 7	288	<1	2 64	014	33	2 4	24	31	4	07	10 7	02
75+00E 122+00N	2 75	17 29	15 73	85 9	291	16 1	12 3	301	3 52	5 7	3 0	10 4	2 4	35 1	20	56	31	79	26	278	8 5	34 9	47	230 0	206	<1	2 42	015	06	3 1	06	59	5	06	12 8	02
RE 75+00E 122+00N	2 92	16 48	16 18	86 1	302	12 8	12 3	310	3 54	5 9	3 2	4 5	2 5	35 3	21	57	32	79	27	276	9 0	34 7	48	232 8	211	<1	2 49	016	06	3 1	06	57	4	06	12 6	02
75+50E 124+00N	4 75	51 86	25 99	108 5	485	39 4	20 0	1366	4 22	26 3	12 7	8 2	3 5	71 6	75	59	21	130	64	080	30 3	84 6	1 12	294 4	322	<1	2 89	025	34	2 6	22	27	5	06	11 8	03
75+50E 123+00N	2 84	25 75	33 87	117 6	312	21 6	14 5	674	3 72	10 0	1 2	21 5	3 2	24 3	66	2 08	38	91	19	208	9 7	52 7	56	194 2	274	<1	3 17	019	11	2 5	11	84	5	07	13 7	01
75+50E 122+00N	1 78	17 05	13 81	113 3	316	13 4	7 9	455	3 13	6 2	9	3 8	3 2	19 0	24	1 30	31	66	14	218	7 8	27 7	36	127 2	177	1	3 24	016	07	1 6	08	47	4	06	11 9	02
L76E 119+00N	2 11	21 02	16 90	44 0	241	12 1	5 1	145	3 27	8 2	1 3	2 6	4 4	10 5	22	2 74	33	60	06	120	4 6	22 1	20	85 9	223	1	6 36	017	06	.8	08	97	6	05	14 8	08
L76E 118+00N	2 14	19 93	16 47	81 9	397	11 6	8 1	360	3 20	10 1	7	130 8	3 6	13 6	27	1 87	31	67	10	169	6 0	29 4	31	128 0	219	1	4 78	018	05	2 0	08	99	7	09	13 9	02
L76E 117+00N	2 29	17 85	28 82	90 0	481	12 1	11 2	805	3 35	14 2	8	1 4	2 0	26 0	62	1 02	.53	60	16	053	8 2	21 6	31	182 4	244	1	1 68	020	05	.9	09	49	4	04	16 5	02
L76E 116+00N	1 81	23 80	14 88	66 5	130	19 0	7 3	267	3 03	7 6	1 3	3 5	5 3	15 8	21	1 61	30	61	09	145	6 7	27 4	36	98 1	198	2	4 83	015	07	1 6	10	81	7	04	12 3	04
L76E 124+00N	2 39	19 02	9 53	69 2	96	21 6	10 8	332	3 22	4 4	6	28 0	3 3	40 7	24	43	15	98	48	237	15 4	65 0	65	124 3	217	<1	1 47	023	15	2 0	08	17	3	05	7 6	01
L76E 123+00N	3 43	24 12	12 82	64 1	218	25 0	13 7	326	3 53	8 4	3 4	17 4	4 0	33 1	23	80	20	99	25	068	11 3	59 1	65	145 2	270	<1	2 58	020	11	2 5	08	34	4	05	10 5	02
L76E 122+50N	2 85	25 62	15 57	85 6	243	14 2	11 4	570	3 66	5 8	1 8	10 1	4 7	32 6	22	1 32	29	80	22	170	16 1	47 0	66	149 5	226	1	3 39	016	09	2 5	11	54	5	06	12 5	02
L76E 122+00N	3 05	21 35	17 05	86 5	245	28 0	11 6	572	3 72	10 0	1 0	8 7	3 2	36 9	44	95	25	96	30	127	11 4	59 4	79	266 5	233	1	2 92	019	11	2 8	08	41	6	10	11 3	02
L76E 121+50N	2 21	23 80	15 66	92 3	412	21 0	12 2	336	3 46	4 9	1 7	27 1	3 8	30 6	31	1 31	24	78	24	092	11 8	42 0	53	171 2	205	<1	2 96	016	08	2 8	07	53	5	06	10 8	02
L76E 121+00N	2 29	22 27	13 27	101 2	180	18 0	10 0	318	3 07	15 5	5 0	5 7	4 0	50 5	35	.91	26	65	44	337	12 2	36 5	52	159 7	183	1	4 08	016	10	2 6	09	78	7	08	12 7	02
L76E 120+50N	3 25	20 57	13 12	100 2	310	18 7	12 7	891	3 15	50 2	9 7	4 2	1 1	56 4	84	66	23	71	64	132	15 1	34 7	60	207 0	166	1	3 23	021	09	1 5	09	43	3	06	10 3	05
L76E 120+00N	2 54	22 88	14 83	82 8	252	15 2	8 0	254	3 07	7 6	1 2	8 7	4 0	16 9	31	3 07	27	66	13	149	8 2	33 5	35	117 3	181	1	4 28	016	06	2 0	08	104	8	06	11 0	02
STANDARD DS2	14 50	129 80	32 35	161 0	282	40 5	14 2	834	3 40	61 3	21 0	194 4	3 7	33 0	11 76	10 98	11 67	78	59	088	13 9	161 1	55	144 5	105	2	1 80	036	17	7 9	2 05	266	2 7	2 10	6 7	03

30 GRAM SAMPLE IS DIGESTED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 ML WITH WATER, ANALYSIS BY ICP/ES & MS.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K GA AND AL.
- SAMPLE TYPE: SOIL Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 29 1999 **DATE REPORT MAILED:** Aug 6/99 **SIGNED BY.** C. Leong D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data ✓ FA ___

ACME ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.)
852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Doyle, Bruce File # 9903584 Page 1

1424 Crease Ave, Nelson BC V1L 1A2 Submitted by: Bruce Doyle

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	S %
115+50N 79+50E	2.16	15.83	16.21	68.0	170	14.3	7.5	497	2.64	4.1	2.9	2.7	6.9	35.1	.19	.73	.26	60	.23	.083	15.0	21.0	.42	101.2	.120	1	2.74	.011	.06	.6	.08	49	.6	.03	9.0	.01
115+50N 79+75E	2.94	14.59	17.24	76.1	142	15.0	7.6	641	2.70	5.6	1.4	4.2	5.2	28.5	.28	1.13	.29	57	.20	.191	9.1	18.5	.41	128.0	.096	1	2.70	.009	.06	.5	.07	55	.5	.04	8.5	.01
115+50N 80+00E	5.43	16.21	16.20	95.3	161	13.2	7.8	305	2.61	6.0	3.1	7.7	4.4	25.2	.47	.49	.26	59	.19	.056	11.9	19.8	.33	103.3	.136	1	2.90	.012	.05	.6	.07	54	.6	.05	8.6	<.01
115+50N 80+25E	2.63	14.86	12.32	69.8	172	12.1	8.0	313	2.70	4.8	1.1	47.0	4.4	14.4	.19	.51	.27	63	.08	.079	10.3	18.6	.35	109.3	.124	1	2.52	.009	.05	.5	.08	53	.5	.04	8.4	.01
115+00N 79+50E	3.96	15.01	12.47	64.0	205	11.8	6.7	865	2.31	5.8	5.9	1.2	4.2	36.7	.24	.80	.22	50	.26	.160	16.1	17.8	.33	86.8	.095	1	2.50	.010	.04	.4	.07	52	.6	.04	8.7	<.01
115+00N 79+75E	11.31	17.32	18.33	51.4	219	16.8	9.5	575	2.91	5.5	17.1	4.5	3.6	47.6	.25	.40	.25	65	.43	.066	21.1	31.4	.40	86.4	.085	<1	2.61	.013	.03	.6	.07	53	.8	.03	7.7	.02
115+00N 80+00E	3.61	18.61	16.70	68.6	102	13.5	7.4	299	2.43	6.3	1.4	4.1	4.6	22.8	.32	1.15	.29	54	.15	.078	8.8	21.5	.35	113.6	.128	1	2.77	.010	.06	.4	.08	40	.5	.05	8.8	.01
115+00N 80+25E	3.93	17.22	15.62	65.0	135	18.7	8.3	283	2.63	5.6	3.2	3.9	4.6	25.8	.21	.57	.26	63	.21	.069	11.7	25.4	.46	117.4	.120	<1	2.41	.012	.06	.5	.07	46	.5	.04	8.0	<.01
114+50N 79+75E	3.98	19.52	12.63	73.0	126	17.9	9.3	494	2.81	6.5	1.3	13.6	3.6	28.8	.24	.95	.26	60	.22	.171	10.2	23.8	.49	142.7	.135	1	2.70	.011	.07	.4	.08	57	.5	.08	9.9	.01
114+50N 80+00E	10.65	19.50	19.44	69.4	195	16.5	9.2	1162	2.53	6.0	15.4	12.3	3.7	54.0	.48	.52	.27	56	.56	.102	16.5	19.8	.42	100.2	.138	1	2.90	.019	.05	.3	.10	52	.6	.05	9.6	.02
114+50N 80+25E	3.44	20.85	14.46	76.0	48	18.9	9.0	353	2.54	6.0	4.3	43.0	6.9	19.7	.15	.53	.25	59	.11	.130	12.2	29.3	.52	82.5	.130	1	2.83	.011	.08	.6	.11	50	.6	.04	8.0	<.01
114+50N 80+50E	5.99	12.30	12.43	48.7	121	13.1	6.6	173	2.52	3.9	1.1	42.4	3.6	12.3	.16	.45	.24	58	.08	.025	7.6	19.4	.27	123.9	.109	1	2.51	.009	.04	.4	.06	48	.4	.03	8.1	<.01
114+00N 79+50E	3.03	18.79	14.79	66.7	371	16.1	8.6	433	2.95	6.4	9.7	.4	7.7	32.7	.18	.52	.31	64	.26	.076	15.8	33.4	.44	115.4	.144	1	2.59	.015	.06	.5	.10	62	.7	.06	9.3	.01
114+00N 79+75E	4.67	19.63	14.28	85.2	336	22.7	11.2	638	2.98	5.0	8.4	110.9	6.6	52.9	.24	.42	.28	71	.39	.068	17.5	38.6	.64	109.9	.151	1	2.39	.016	.06	.6	.09	40	.7	.04	8.7	<.01
114+00N 80+00E	10.67	46.76	17.02	71.9	450	23.7	11.3	1105	2.64	6.2	50.6	5.5	7.5	44.7	.34	.36	.27	64	.43	.054	32.8	34.7	.56	120.8	.141	1	2.82	.021	.06	.5	.12	41	.5	.03	8.6	.01
114+00N 80+25E	14.32	16.51	16.17	52.0	195	12.2	7.5	489	2.62	5.7	19.8	4.5	5.8	38.0	.25	.58	.29	65	.36	.057	17.1	24.7	.31	84.6	.147	1	3.01	.017	.04	.4	.08	48	.9	.04	9.9	.02
RE 114+00N 80+25E	12.89	16.94	16.52	49.6	199	11.6	7.4	482	2.58	5.5	20.0	81.9	5.5	36.4	.25	.57	.28	64	.36	.056	16.8	25.1	.31	84.4	.138	1	3.02	.016	.04	.5	.08	49	.9	.04	10.1	.02
113+50N 79+50E	1.82	21.57	13.00	68.3	205	14.6	10.1	299	2.47	6.3	1.8	32.2	3.9	20.3	.41	.87	.26	61	.18	.093	14.9	34.5	.31	123.1	.153	1	3.00	.014	.06	.8	.08	62	.6	.05	9.4	.01
113+50N 79+75E	2.97	19.26	14.57	64.0	223	12.2	7.5	452	2.61	6.4	4.2	22.2	3.3	27.9	.34	.77	.27	59	.26	.063	14.3	24.5	.29	95.1	.129	1	1.93	.014	.05	.5	.06	92	.5	.05	9.0	.01
113+50N 80+00E	2.48	14.59	14.10	68.5	156	19.1	8.7	413	3.03	5.2	2.9	3.3	5.5	32.7	.24	.58	.24	71	.25	.069	15.2	36.2	.50	96.0	.130	1	2.45	.012	.06	.6	.07	50	.5	.04	8.1	.01
113+50N 80+25E	4.78	17.03	16.25	42.9	109	18.7	9.4	244	3.21	5.7	3.0	26.5	9.1	21.9	.23	.38	.22	80	.12	.024	18.2	39.1	.43	127.4	.152	1	3.44	.014	.04	.6	.07	73	.8	.03	9.3	.01
113+00N 79+75E A	2.28	20.36	11.73	58.0	155	15.8	9.8	427	2.79	5.0	4.1	2.7	7.5	33.3	.11	.33	.19	73	.26	.072	20.6	36.3	.50	86.7	.109	1	2.22	.010	.07	.8	.09	38	.5	.03	7.2	<.01
113+00N 79+75E B	1.41	21.64	10.66	40.9	105	16.6	9.1	311	2.87	5.5	2.2	7.3	5.4	41.8	.18	.40	.18	89	.45	.179	22.6	65.7	.41	115.5	.105	1	1.72	.014	.08	1.3	.06	34	.5	.05	6.2	<.01
113+00N 80+00E	2.32	17.55	10.56	45.8	134	15.3	9.2	353	2.99	4.9	2.1	2.9	4.7	25.8	.13	.37	.19	82	.23	.046	13.9	42.9	.41	116.2	.106	1	2.16	.011	.05	1.0	.07	40	.6	.03	7.1	.02
112+50N 80+00E	1.14	16.95	15.55	62.7	94	15.1	8.5	645	2.86	6.6	1.0	2.5	4.5	23.6	.27	.69	.21	81	.24	.172	13.4	49.5	.37	114.9	.117	1	1.98	.013	.06	.9	.07	43	.4	.05	6.9	<.01
111+50N 80+00E	.79	16.84	15.14	98.7	320	14.1	8.1	403	2.62	4.4	1.2	8.6	4.9	15.4	.33	.61	.21	69	.10	.118	11.8	37.9	.38	126.5	.135	1	2.53	.012	.05	.8	.08	57	.4	.03	7.9	<.01
111+50N 80+25E	1.38	15.85	26.45	116.8	235	13.7	8.3	369	2.75	6.0	1.2	107.7	4.9	13.6	.38	.86	.30	66	.08	.112	10.4	28.5	.36	106.6	.142	1	2.90	.010	.06	.8	.10	75	.6	.04	9.1	.01
111+00N 80+25E	1.04	18.97	14.13	64.1	102	16.7	9.1	339	2.83	5.0	1.4	90.6	5.6	16.4	.20	.41	.21	79	.11	.086	12.6	44.1	.45	114.3	.136	1	2.26	.012	.06	1.0	.08	29	.4	.05	6.9	<.01
110+50N 80+25E	1.23	13.38	11.56	51.5	72	11.6	6.6	301	2.46	4.2	1.2	6.1	3.8	18.6	.19	.50	.18	59	.11	.025	9.4	22.6	.35	159.8	.088	1	2.17	.010	.03	.4	.06	44	.4	.03	7.4	<.01
109+00N 79+25E	1.38	12.27	10.88	44.6	165	12.3	7.0	231	2.60	6.3	.9	621.8	3.0	21.7	.21	.40	.14	64	.21	.047	8.7	17.6	.35	100.7	.090	1	1.62	.009	.03	.8	.04	41	.3	.03	6.0	.01
109+00N 79+50E	1.26	14.09	14.69	65.6	267	12.2	6.8	225	2.47	5.5	1.1	30.8	3.6	16.8	.34	.84	.21	63	.15	.068	11.2	30.4	.30	102.2	.108	1	2.20	.009	.05	.8	.07	56	.5	.04	7.0	<.01
109+00N 79+75E	1.98	13.64	16.52	56.1	658	10.1	5.2	149	2.51	5.0	7.6	18.0	3.8	24.1	.44	.39	.22	65	.20	.040	18.3	30.5	.26	123.8	.124	1	2.61	.013	.04	.7	.07	59	.6	.03	8.3	.02
109+00N 80+00E	1.11	17.53	12.01	61.9	196	15.0	9.1	324	2.89	5.3	1.6	53.6	5.4	17.3	.20	.44	.21	82	.13	.085	16.2	48.2	.41	81.5	.113	1	2.11	.010	.06	.9	.09	56	.5	.04	7.2	<.01
109+00N 80+25E	.73	15.54	10.41	54.8	172	12.7	7.0	370	2.58	4.2	1.1	10.1	4.7	14.7	.17	.32	.17	71	.09	.113	11.1	38.6	.32	81.5	.110	1	2.43	.010	.05	.8	.07	81	.6	.03	6.9	<.01
STANDARD DS2	14.91	134.33	31.78	168.1	256	38.1	14.2	867	3.28	65.7	21.7	204.2	3.9	30.7	11.58	10.82	11.87	83	.57	.085	16.9	177.2	.62	146.3	.116	5	1.81	.036	.17	8.0	1.94	249	2.5	1.96	6.7	.02

GROUP 1F15 - 15.00 GM SAMPLE, 90 MLS 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 300 ML, ANALYSIS BY ICP/ES & MS.
UPPER LIMITS - AG, AU,, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2000 PPM; CU, PB, ZN, NI, MN, AS,V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: SOIL Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 22 1999 **DATE REPORT MAILED:** Sept 30/99 **SIGNED BY** ..... D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data FA

ACME ANALYTICAL

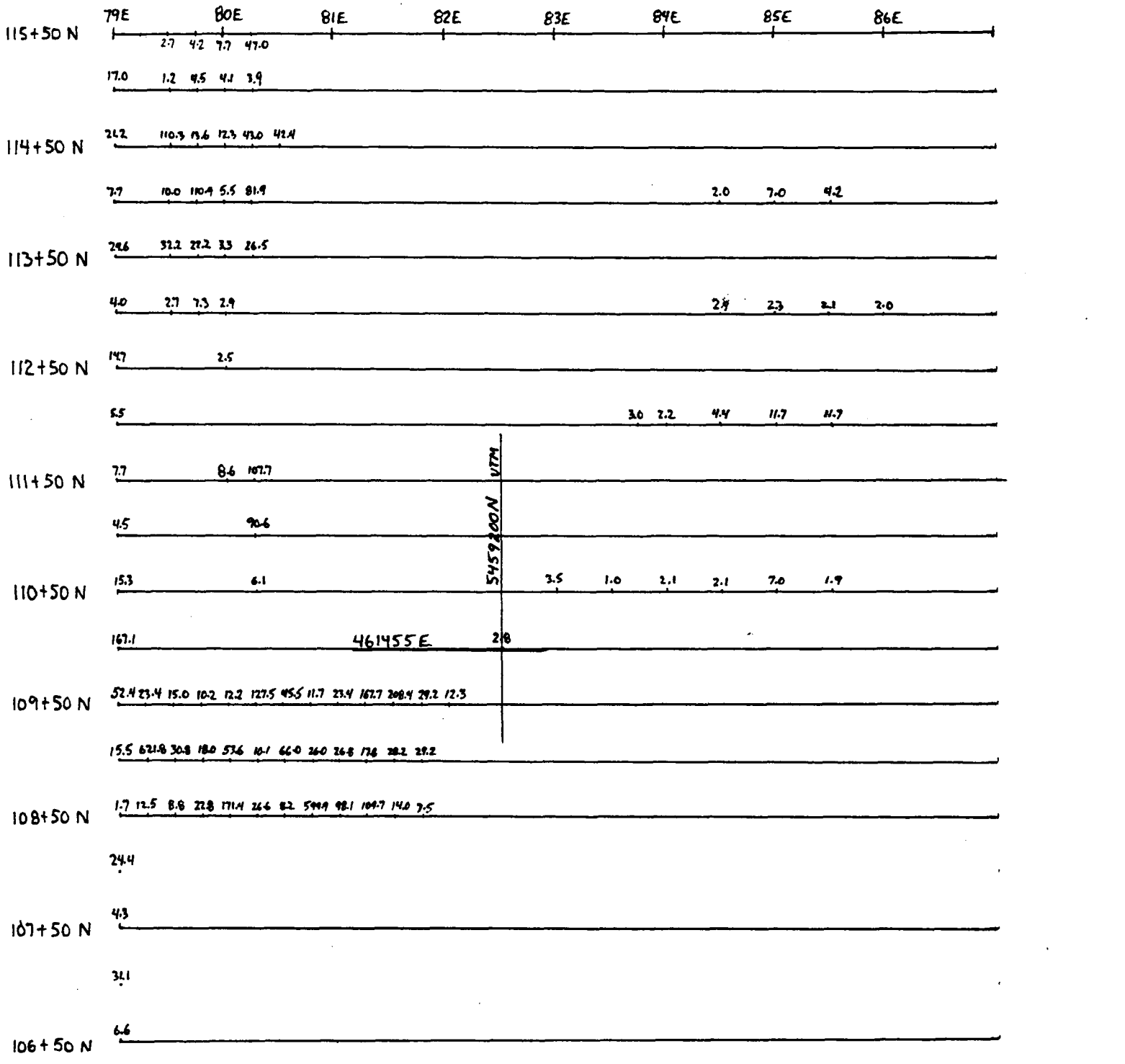
Doyle, Bruce FILE # 9903584

ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	S %
109+00N 80+50E	.75	18.29	13.61	57.2	303	18.3	8.4	282	2.71	5.1	1.0	66.0	4.6	21.2	.14	.31	17	75	.17	.090	15.9	40.0	.40	136.8	.110	1	2.18	.011	.07	.8	.08	60	5	.04	6.9	< .01
109+00N 80+75E	1.70	27.22	15.69	67.6	170	18.4	9.6	198	2.55	5.2	2.8	26.0	4.2	20.6	.14	.23	.25	68	.14	.041	19.3	29.1	.43	184.7	.108	1	2.62	.010	.07	.7	.12	35	.6	.03	8.4	.01
109+00N 81+00E	12.71	20.12	17.18	56.0	301	21.2	13.0	1706	3.73	26.4	23.7	26.8	3.0	35.3	.45	.91	.23	66	.27	.057	19.4	41.3	.55	186.6	.089	1	2.27	.011	.04	.5	.12	73	.7	.03	6.9	.03
109+00N 81+25E	47.98	14.07	14.55	64.7	331	17.1	12.2	1674	4.15	10.6	45.2	17.8	1.9	53.7	.95	.53	.21	87	.47	.125	25.3	38.9	.44	266.7	.059	1	2.40	.012	.06	.7	.24	73	1.4	.03	8.7	.07
109+00N 81+50E	.96	17.12	15.74	58.1	258	14.3	7.6	280	2.49	7.0	1.3	28.2	4.5	18.2	.23	.46	.23	59	.11	.086	11.1	30.7	.32	110.3	.139	1	3.22	.013	.05	.9	.09	74	.5	.04	8.8	.01
109+00N 81+75E	1.08	15.01	16.24	55.9	238	14.7	6.9	259	2.54	6.4	3.8	29.2	5.5	22.7	.13	.34	.21	67	.15	.083	21.3	37.7	.42	115.1	.112	1	2.42	.012	.06	.8	.09	42	.4	.04	7.1	< .01
108+50N 80+25E	1.05	24.30	17.78	113.6	218	18.1	11.4	338	3.09	184.5	4.9	109.7	4.3	33.4	.58	.28	.18	79	.27	.072	19.3	49.9	.50	117.2	.110	<1	2.43	.013	.04	1.0	.08	52	.4	.05	6.6	< .01
108+50N 80+50E	.81	15.22	13.60	81.6	167	20.0	9.2	358	2.89	6.4	4.3	14.0	5.4	32.4	.20	.42	.26	70	.26	.068	19.3	38.6	.51	135.1	.121	1	1.99	.012	.06	.6	.07	35	.5	.05	7.7	< .01
108+50N 79+25E	1.42	23.97	16.52	74.2	163	16.7	11.6	421	3.22	11.7	2.2	12.5	4.9	26.2	.48	.77	.23	90	.27	.163	15.9	51.5	.51	129.1	.131	1	2.67	.010	.07	1.2	.09	74	.7	.05	7.4	.01
108+50N 79+50E	3.37	18.29	12.75	75.4	290	15.0	7.9	597	2.99	20.4	18.8	8.8	2.1	56.9	.43	.55	.26	71	.63	.105	20.0	45.5	.41	163.6	.113	1	2.65	.017	.05	.6	.09	56	.9	.05	8.5	.05
108+50N 79+75E	.59	13.84	8.52	36.6	110	14.0	7.3	255	2.45	5.0	.8	22.8	4.4	25.8	.17	.21	.12	72	.23	.081	15.7	41.5	.33	106.8	.079	1	1.48	.012	.04	.9	.06	25	.3	.06	4.4	< .01
108+50N 80+00E	1.29	24.90	13.13	61.7	236	19.3	11.3	275	3.67	8.7	1.8	171.4	6.1	29.5	.18	.22	.28	111	.25	.111	25.6	76.6	.48	127.7	.125	1	1.95	.014	.07	2.6	.07	31	.7	.05	7.0	< .01
108+50N 80+25E	.89	18.75	12.65	68.5	87	15.2	9.2	422	2.63	4.4	1.4	26.6	5.0	17.0	.13	.19	.19	73	.11	.123	13.9	48.1	.39	98.2	.108	1	2.30	.011	.06	1.0	.09	39	.4	.03	6.5	< .01
108+50N 80+50E	1.05	15.71	9.98	51.7	100	12.7	7.1	354	2.36	4.7	1.7	8.2	5.8	22.8	11	.27	.14	57	.14	.086	15.0	27.6	.39	107.8	.092	<1	2.26	.010	.05	.7	.07	32	.4	.03	6.6	< .01
108+50N 80+75E	15.46	17.73	13.17	55.7	315	26.2	8.8	611	3.39	9.6	13.2	599.9	1.6	48.9	.27	.50	.21	67	.39	.073	15.5	49.3	.69	163.5	.089	<1	1.95	.013	.05	.4	.10	54	.9	.08	7.1	.03
108+50N 81+00E	.91	12.55	13.64	64.0	267	11.2	5.4	397	1.97	9.3	1.0	98.1	3.8	53.3	.22	.55	.12	45	.38	.099	12.3	18.9	.38	113.6	.065	1	2.61	.010	.04	.6	.06	52	.4	.04	6.7	.01
108+50N 81+75E	.59	11.97	10.24	50.2	266	12.6	6.4	299	2.28	4.3	1.0	7.5	3.7	24.1	.20	.44	.18	56	.17	.064	10.8	25.5	.31	139.7	.111	1	2.94	.012	.05	.7	.07	59	.4	.04	7.7	< .01
RE 108+50N 81+75E	.58	12.25	9.78	50.6	265	12.1	6.1	297	2.26	4.2	1.0	5.1	3.6	23.8	.19	.48	.18	54	.17	.064	10.4	25.8	.30	136.5	.108	1	2.87	.012	.05	.6	.07	57	5	.03	7.5	< .01
BL 10+50N 10+00E	1.49	22.95	12.71	142.1	104	15.8	8.8	890	2.17	15.9	.6	9.0	2.6	21.9	.58	2.37	.25	46	.16	.227	6.8	15.2	.36	265.8	.200	2	3.09	.018	.09	.3	.14	39	.5	.05	8.4	< .01
BL 10+25N 10+00E	.93	18.69	28.06	187.1	119	21.1	8.0	1438	2.17	34.8	.6	4.9	3.1	29.5	1.39	2.63	.35	43	.21	.193	7.6	24.4	.31	325.9	.179	3	2.99	.030	.11	.4	.16	22	.3	.07	8.1	< .01
L10+00N 9+75E	2.27	10.22	34.20	217.0	71	18.2	4.2	946	1.33	11.4	1.0	4.5	1.7	54.9	1.92	1.36	.35	20	.98	.050	8.0	7.4	.13	181.3	.063	3	1.38	.015	.05	< .2	.09	25	.3	.05	3.9	< .01
L10+00N 10+00E	4.22	27.61	1964.76	1004.1	3494	51.0	8.2	560	2.88	173.7	2.6	50.6	4.5	35.7	2.22	5.15	.35	62	.60	.123	16.1	25.8	.44	159.0	.164	4	3.18	.023	.10	2.0	.17	55	7	.06	8.2	< .01
L10+00N 10+25E	.85	13.89	30.65	154.3	102	24.2	6.4	871	2.20	27.6	1.5	10.2	3.5	39.7	.82	1.73	.31	34	1.30	.075	15.4	11.2	.23	208.2	.098	5	2.13	.017	.08	1.8	.11	25	.4	.03	5.3	< .01
L10+00N 10+50E	3.99	19.82	66.92	329.0	240	36.2	10.1	1076	4.15	275.8	1.1	49.5	3.2	47.4	1.27	3.94	1.13	62	.47	.050	11.7	18.4	.35	226.7	.120	4	2.27	.018	.12	.8	.17	39	.5	.06	7.0	.02
BL 9+75N 10+00E	2.44	18.78	69.53	243.6	262	26.3	9.0	1523	2.88	104.5	1.2	1.8	4.2	39.5	1.54	3.40	.77	57	.34	.096	12.6	20.2	.45	279.8	.181	3	3.18	.018	.09	.8	.20	47	.5	.06	10.0	.01
BL 9+50N 10+00E	1.26	20.71	30.93	163.2	85	26.5	13.5	831	3.21	22.1	.5	1.7	3.4	40.9	.77	1.85	.38	75	.30	.077	9.3	54.1	1.04	338.3	.249	2	3.05	.019	.13	.3	.20	22	.3	.04	10.2	< .01
BL 9+25N 10+00E	1.19	15.97	15.92	132.2	176	17.3	7.5	954	2.25	10.9	.7	2.6	3.0	45.0	.58	.83	.27	41	.32	.116	11.2	18.1	.39	297.4	.159	3	2.37	.019	.12	.2	.15	32	.4	.02	6.9	< .01
STANDARD DS2	14.21	127.24	30.86	164.4	258	37.3	13.3	845	3.15	62.4	20.2	199.8	3.6	31.0	11.60	10.26	11.25	83	.55	.083	17.8	165.7	.58	137.6	.109	3	1.71	.035	.16	7.4	1.94	251	2.7	1.81	6.2	.01

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ___ FA ___



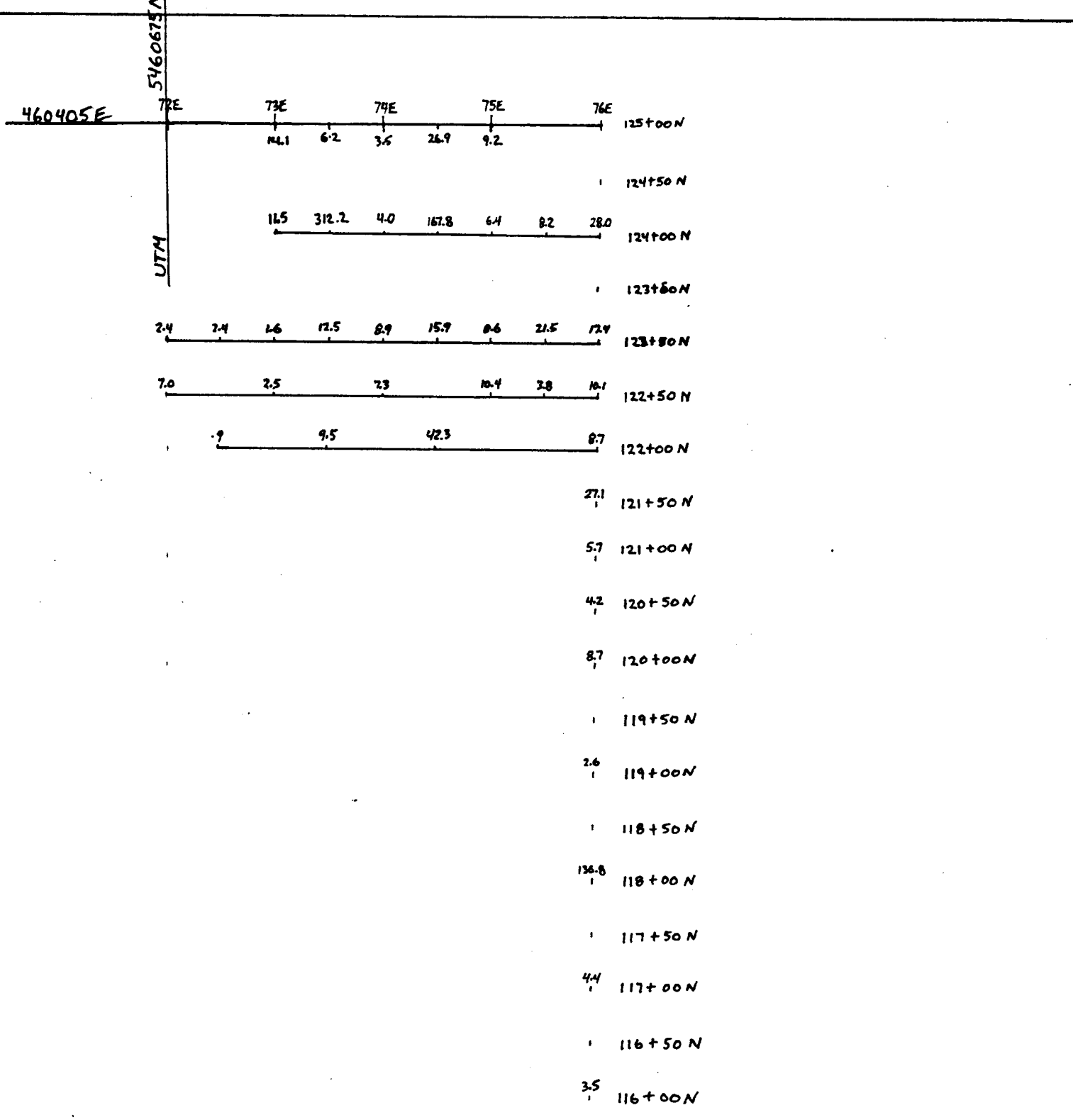
SCALE 1:5000

0 50 100 150 200 250

McPHEE PROPERTY
GOLD GEOCHEMISTRY(PPb)
McPHEE II CLAIM

SCALE	DATE	FILE	NTS	Figure
1:5000				

N

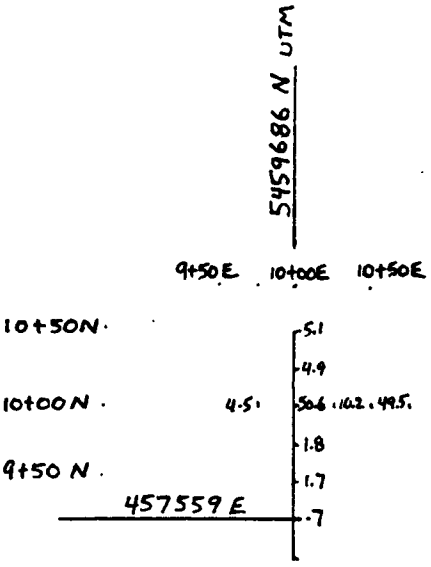


SCALE 1:5000

0 50 100 150 200 250

1999 RESULTS Prospecting				
McPHEE PROPERTY GOLD GEOCHEMISTRY (ppb) ROD CLAIMS #9, #10				
SCALE	DATE	FILE	NTS	FIGURE
1:5000				

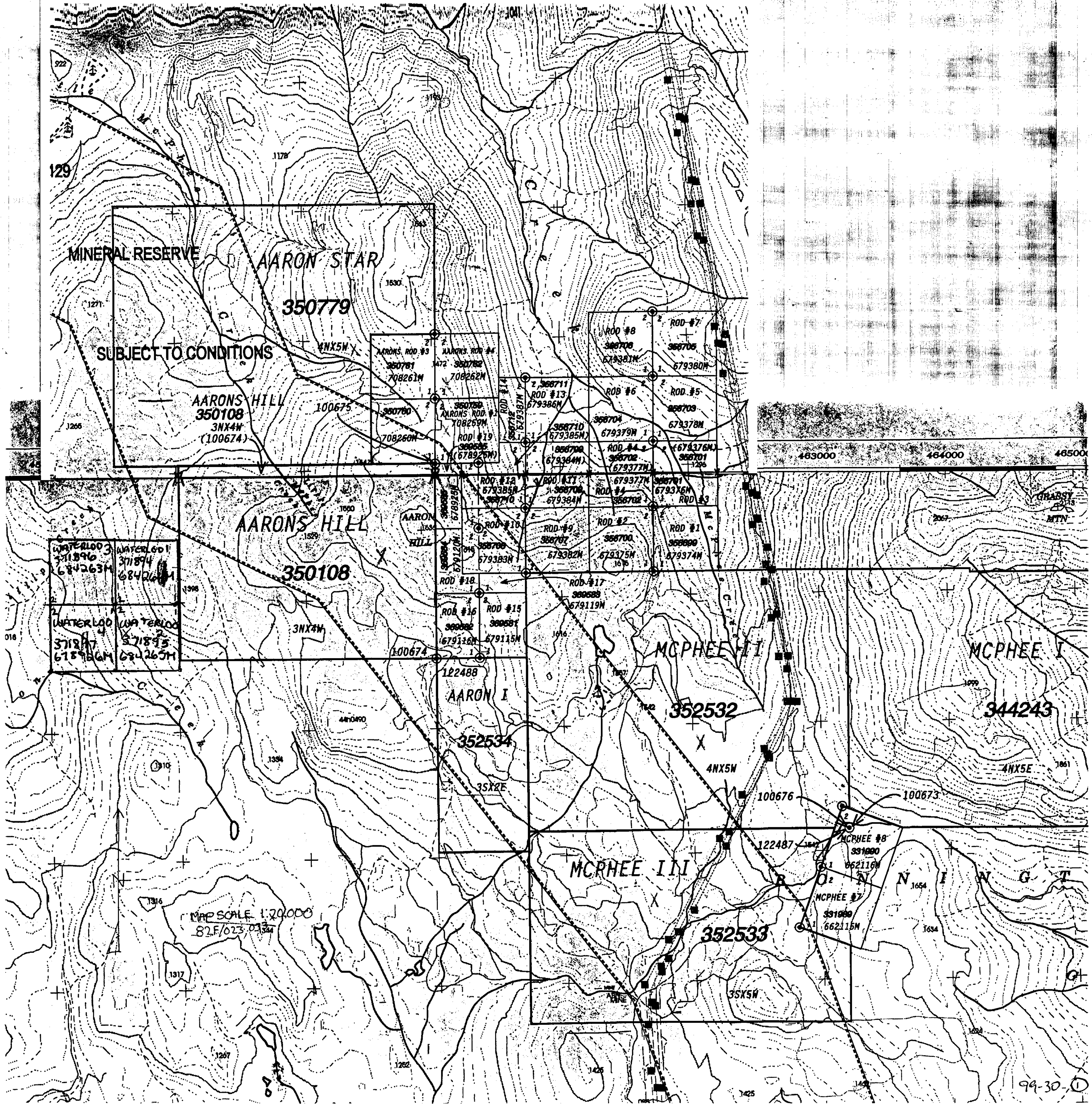
N

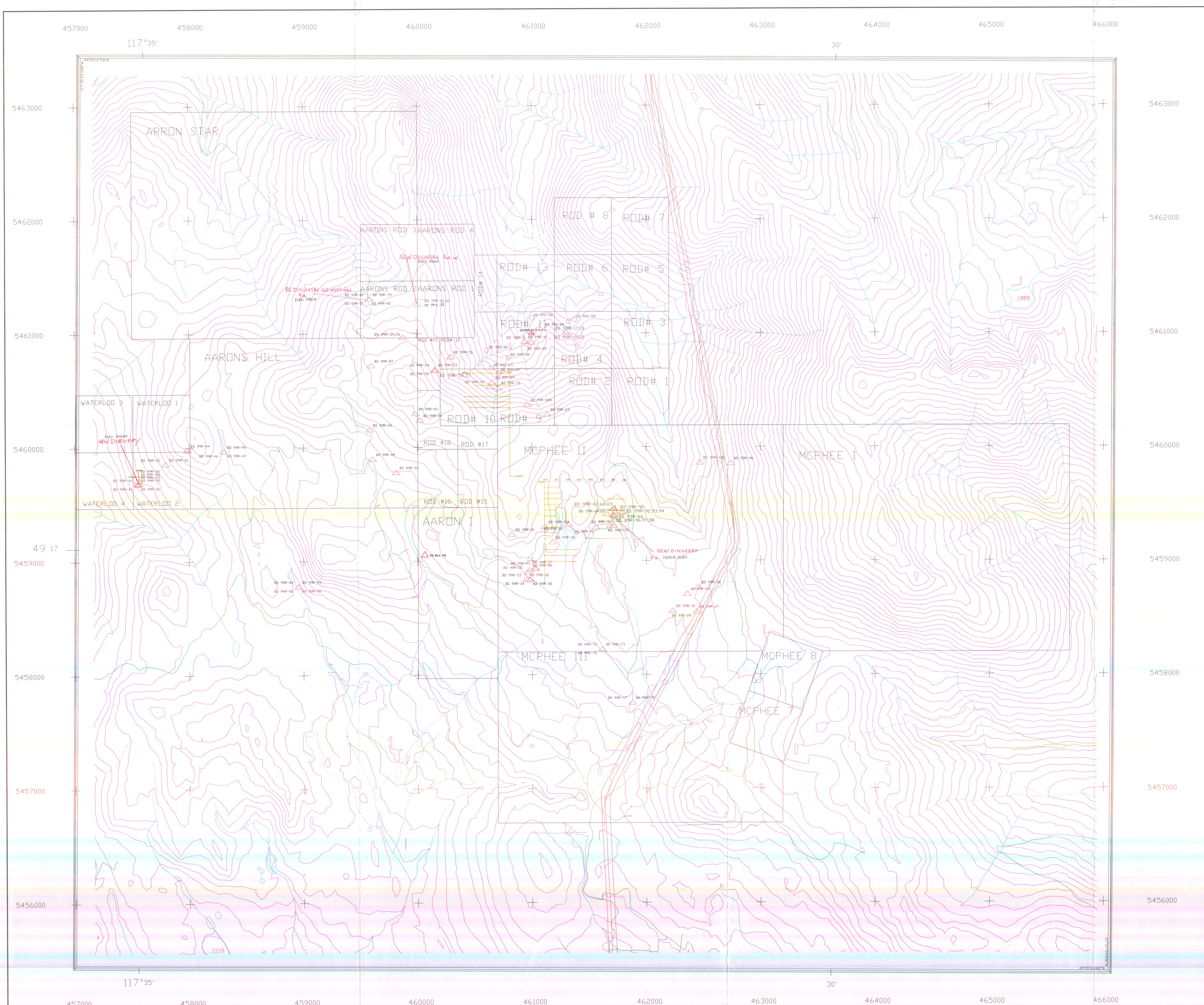


SCALE 1:5000

0 50 100 150 200 250

1999 RESULTS PROSPECTING				
McPHEE PROPERTY GOLD GEOCHEMISTRY(PPb) WATERLOO 2 CLAIM				
SCALE	DATE	FILE	NTS	FIGURE
1:5000				


MINERAL RESERVE
SUBJECT TO CONDITIONS
AARON STAR
350779
4NX5W
AARONS HILL
350108
3NX4W
(100674)
100675
AARONS ROD #3
350761
708261M
AARONS ROD #4
350762
708262M
350760
708260M
AARONS ROD #1
708259M
ROD #19
679826M
ROD #14
ROD #13
679386M
679387M
679385M
679384M
ROD #12
679385M
ROD #11
679384M
ROD #10
679383M
ROD #9
679382M
ROD #8
679381M
ROD #7
679380M
ROD #6
679379M
ROD #5
679378M
ROD #4
679377M
679376M
ROD #3
ROD #2
679375M
ROD #1
679374M
ROD #18
ROD #17
679119M
ROD #16
679116M
ROD #15
679115M
679120M
AARONS HILL
350108
WATERLOO 3
371896
684263M
WATERLOO 1
371894
WATERLOO 4
371897
WATERLOO 2
371895
684265M
3NX4W
100674
122488
AARON I
352534
3SX2E
MCPHEE II
352532
MCPHEE I
344243
4NX5W
4NX5E
100676
100673
122487
MCPHEE III
352533
3SX5W
MCPHEE #8
331990
662116M
MCPHEE #7
331989
662115M
463000
464000
465000
GRASSY MTN
MAP SCALE 1:20,000
82F/023, 013
99-30-①



SAMPLE LOCATION AND NUMBER

SOIL GRID LOCATION

ROCK, SOIL, SEDIMENT LOCATION PLAN

McPHEE PROPERTY

SCALE 1:10 000

DEC 1999

NTS 82F023/F033

99-30 (2)